

2002

## Seattle Pacific University Catalog 2002-2003

Seattle Pacific University

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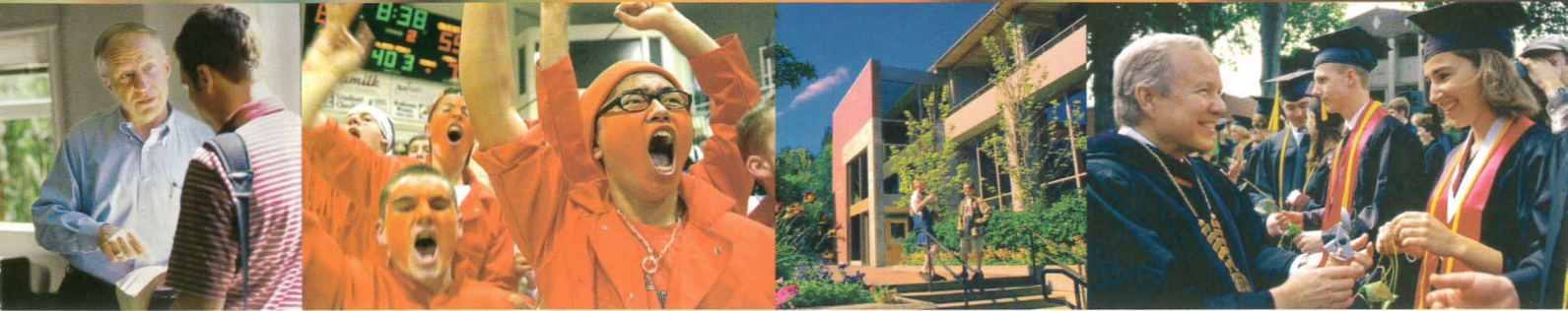
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*decidedly academic*

*distinctly christian*

*definitely northwest*

seattle pacific  
university



2002-2003

# Undergraduate Catalog



Application Enclosed

# Reference Guide for SPU

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School of Business and Economics .....	281-2970
Center for Applied Learning .....	281-2942
School of Education .....	281-2214
School of Health Sciences .....	281-2233
RN to BS .....	281-2027
School of Psychology, Family and Community .....	281-2918
School of Theology .....	281-2342
<b>Admissions</b>	
Undergraduate Application Process .....	281-2021
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Fax .....	281-2544
E-mail .....	admissions@spu.edu
<b>Campus Housing</b>	
<b>Campus Ministries</b>	
<b>Computer and Information Systems</b>	
Computer HelpDesk .....	281-2982
E-mail .....	help@spu.edu
Online Help Resources .....	www.spu.edu/help
Counseling Center .....	281-2016
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School of Education .....	
Distance Learning .....	281-2505
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Fax .....	281-2669
E-mail .....	sasinfo@spu.edu
<b>Student Financial Services</b>	
Financial Aid .....	281-2061
Payment Information .....	281-2061
Student Account Statements .....	281-2061
Toll-Free Number .....	(800) 737-8826
Fax .....	281-2835
E-mail .....	sfs-info@spu.edu
<b>Student Government (ASSP)</b>	
<b>Student Life</b>	
Career Development Center .....	281-2481
Center for Learning .....	281-2485
Dean of Students .....	281-2475
Dean of Students .....	281-2481
Disabled Student Services .....	281-2272
Intercultural Affairs .....	281-2598
International Affairs .....	281-2247
Residence Life .....	281-2043
Student Programs .....	281-2247

SPU home page: [www.spu.edu](http://www.spu.edu)

SPU events calendar is located on the SPU home page.

Seattle Pacific University is operated under the auspices of the Free Methodist Church as a service to people, regardless of denomination, who desire a university education that is academically sound and distinctly Christian. Founded in 1891.

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## How to Use This Catalog

We hope the information contained in this *Catalog* will answer most of your questions about Seattle Pacific University. We offer these hints to help you quickly find what you want:

1. Look at the Table of Contents to find general sections.
2. Consult the Index in the back of the *Catalog* for specific categories of information such as entrance requirements, fees, computer science major, etc.
3. Course descriptions are listed within each school, department or program section of the *Catalog* (i.e., business courses in the School of Business and Economics, English courses in the Department of English, etc.).
4. Admission application materials are located in the back of the *Catalog*.
5. We'd be happy to answer any further questions you may have about Seattle Pacific University. Call locally at (206) 281-2021 or toll free at (800) 366-3344.

# About Seattle Pacific University

*"As a community of learners, Seattle Pacific University seeks to educate and prepare students for service and leadership. We are committed to evangelical Christian faith and values, and to excellence in teaching and scholarship for the intellectual, personal and spiritual growth of students."*

*—Mission Statement  
Seattle Pacific University*

## Engaging the Culture, Changing the World

With a long and distinguished history in Christian higher education, Seattle Pacific University entered the new century positioned to engage the culture and influence the world for good. At a time when the legacy of the secularized modern university is under scrutiny, Seattle Pacific provides 3,500 students with a high-quality, comprehensive education grounded on the gospel of Jesus Christ. This combination of vital scholarship and thoughtful faith is a powerful one that brings about lasting change in the lives of our graduates, and in the people and communities they serve.

Located just minutes from downtown Seattle, the leading urban center in the Pacific Northwest, SPU is committed to engaging and serving in the modern city, cultivating a global consciousness, supporting the church and addressing the crisis of meaning in our culture. These, we believe, will be some of the Christian university's most important contributions in this century.

Guiding the work of Seattle Pacific University are these three preeminent goals:

**We seek to graduate people of competence and character.** At SPU, each student is profoundly important. We focus our curriculum and resources on shaping graduates who will be effective and positive change agents in the world. This means that we work to prepare individuals who understand their own giftedness, who are both liberally educated and skilled in their chosen field, who exhibit honesty and integrity, and who value serving others.

**We seek to become people of wisdom.** As a university, SPU believes that one vital means of transforming lives is through ideas: ideas that matter; ideas that can bring light and understanding where there is darkness and confusion; and ideas that lead to wisdom. We support our faculty in the pursuit of this kind of scholarship, and we educate our students to become thinking Christians who are able to speak clearly and intelligently about their convictions.

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Seattle  
Pacific  
University

*"We seek to make a difference in the world. Through our graduates, our scholarship and the model of our SPU community, we want to help change the world. With Jesus Christ as our guide, engagement is our only choice. What a venture!"*

Philip Eaton  
President



**We seek to model a grace-filled community.** As we serve our students and commit ourselves to the life of the mind, we believe our best work is done in community. In our life together at Seattle Pacific, we strive to treat each other and all people with respect, kindness and care. Recognizing and respecting differences among individuals, our goal is to become examples of grace, forgiveness and civility in a culture that is too often polarized and contentious.

## Our Christian Mission

Seattle Pacific University occupies a position within the Christian community that is clearly evangelical, genuinely ecumenical, and guided and informed by a Wesleyan heritage and partnership with the Free Methodist Church. The coming together of these dimensions of our Christian tradition results in an invigorating spiritual and educational experience for students. This guiding combination empowers the Seattle Pacific community in its aspiration to engage the culture and change the world. Grounding everything we do on the transforming gospel of Jesus Christ, we seek to graduate people of competence and character, to become people of wisdom and to model grace-filled community. Our Christian mission then reforms our commitment to serve the community, the church and the world.

### Historically Orthodox

Seattle Pacific traces its distinctive Christian mission to the 18th century Evangelical Revival in England led by John Wesley. Influenced by the Pietists, Wesley sought to infuse new spiritual dynamism in the Church of England by stressing that God's grace was sufficient not only to save people from their sins, but also to enable them to live a victorious Christian life. Such a life, Wesley maintained, was characterized by nothing less than loving God and neighbor with one's whole being. Fully orthodox and emphasizing a vital personal relationship with God through Jesus Christ, Methodism was eventually founded on the basis of Wesley's teaching.

As part of the 19th century Holiness Movement the Free Methodist Church — SPU's founding denomination — was born. This new denomination sought to recover Wesley's evangelical stance by stressing holiness of heart and living. Radical spiritual renewal was intended to result in radical social renewal as well. Free Methodists advocated, for example, the abolition of slavery and the elimination of the practice of renting pews (hence the term "Free"). In the late 19th century, Free Methodist pioneers in the Northwest founded the institution known today as Seattle Pacific University.

Seattle Pacific's theological stance is rooted in the historic creeds of Christ's Church, the Protestant Reformation's teaching on human sinfulness and the necessity of justification by faith, the Anglican Articles of Religion (which influenced Wesley's evangelical theological thinking) and the reformulation of those articles by the Free Methodist Church.

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Seattle  
Pacific  
University

## Distinctly Christian

At Seattle Pacific, our Christian commitment is as alive today as it was a century ago. In describing that commitment, we say:

**SPU is clearly evangelical.** The University is based on witness of the Holy Spirit as Savior and Lord. We use the term "evangelical" to point to a Christian faith that embraces Christ's transforming power and aims toward Christ-likeness in the lives of God's people. In response to God's own love — particularly in the life, death and resurrection of Jesus — we seek to love God and neighbor with all our heart, soul, mind and strength. Being evangelical allows us to operate from a solid center of commitment while at the same time freely and openly engaging the culture in which we live.

**SPU is genuinely ecumenical.** In keeping with Wesley's "catholic spirit," Seattle Pacific hires as faculty and staff men and women from many theological traditions who have experienced the transforming power of Jesus Christ. We believe that theological diversity when combined with a common, vital faith in Christ enriches learning and bears witness to our Lord's calling for unity within the church.

**SPU is particularly Wesleyan.** Seattle Pacific's approach to education is informed by the so-called "Wesleyan Quadrilateral": *Scripture* grounds our intellectual enterprise in the presupposition that all human learning is ultimately based on the saving work of God through Christ. *Tradition*, which refers to the classic deliberations of the historic church, furnishes the rule of faith that guides our approach to the Bible as well as our study of the world. *Reason*, received as a precious gift from God, requires that we diligently and boldly study the universe God created. Finally, the primary goal of our existence is to *experience* the reality of God through Jesus Christ in every facet of our lives.

## Our Philosophy of Education

### Scholarship of Wisdom

Christians have historically believed in a rich way of knowing involving the whole human being: mind, heart and soul. Out of this classic tradition has come some of the world's greatest thinkers, ideas and literature, as well as some of its finest universities.

By the late 19th century, however, university learning had largely been reduced to an extreme application of the scientific method, where the truth consisted of only that which could be empirically measured. And, during the last half of the 20th century, scientism lost its claim to certitude in the minds of scholars. In a postmodern world, the "uni"-versity has become a "multi"-university, where the only standards for learning are those of individual disciplines.

As a Christian university, a significant part of Seattle Pacific's purpose is the scholarly pursuit of truth, guided not by scientism or relativism, but by a prayerful listening to Scripture, a careful study of God's creation and a responsible engagement with the issues of our world. This is what we believe has been lost in the academy and in the wider culture

today — and what the Christian university is uniquely able to provide: a scholarship not only of knowledge but also of wisdom.

### The Common Curriculum

Research shows that most university students don't see a connection between general education requirements and their everyday lives. They typically view required liberal arts courses as something to be "gotten out of the way" in order to move on to what really matters: classes in a major that will help them get a well-paying job. It was within this context that Seattle Pacific University faculty conducted a multiyear examination of general education. They looked at how students learn, how that learning prepares them for life and what should constitute the core of a distinctly SPU education.

The result is groundbreaking. Building on the distinctive Christian mission of Seattle Pacific as well as the insights of educational researchers, the University has initiated a genuine four-year core curriculum that links the liberal arts and real-life human issues. Only 5 percent of four-year institutions in the United States, most of them very small and homogenous, offer such a curriculum. Until now, no comprehensive university in an urban setting with an equal mix of residential and commuter students has required participation in common learning over four years.

The Common Curriculum at Seattle Pacific puts the "uni" back in university by introducing the relevance and unity of knowledge. SPU students begin in the first quarter of their freshman year with University Seminar, an intensive exploration of a special interdisciplinary topic. The maximum of 20 students enrolled in each course form a "cohort" and attend other freshman classes in the Common Curriculum together, with their University Seminar professor serving as their academic advisor.

In their freshman, sophomore and junior years at Seattle Pacific, students participate in two parallel sequences of required courses. Cumulative and developmental in nature, these classes are designed to support and enhance students' learning in the majors. The University Core sequence explores key human questions in three classes titled "Character and Community"; "The West and the World"; and "Belief, Morality and the Modern Mind." The University Foundations sequence looks at the basics of faith in "Christian Formation," "Christian Scriptures" and "Christian Theology." A capstone senior course in the student's major adds application and personal calling to the picture.

Another distinctive feature of the Common Curriculum is a common set of literary and artistic works to be studied in all core classes. The works are intended to encourage campus-wide discussion of the themes of a Seattle Pacific education.

### Educational Goals

The Seattle Pacific University faculty shares a conviction that the ultimate purpose of a university education is the formation of Christian character. Specifically, a liberal arts education at SPU seeks to build these qualities of heart, mind and action:

- Love of God and neighbor
- Love of God's creation
- Love of learning
- Moral judgment

- Intellectual, moral and spiritual discernment
- Critical thinking
- Aesthetic awareness
- Self-understanding
- Discipline of habits
- Active service in the wider world
- Responsiveness to human diversity
- Responsiveness to change

The curriculum at Seattle Pacific is designed to form liberally educated persons who possess basic knowledge in the following:

- Christian faith, scripture and theology
- Fine and performing arts
- Foreign languages and cultures
- Humanities
- Natural science and mathematics
- Social sciences
- Western and non-Western intellectual and cultural development

The curriculum is also designed to form liberally educated persons who exhibit increasing proficiency in the following:

- Written communication
- Oral communication
- Quantitative reasoning
- Collaborative learning
- Critical thinking
- Aesthetic analysis and discernment
- Investigation
- Information literacy
- Making choices that lead to intellectual, physical, emotional and spiritual well-being

## Our Christian Community

### Christian Faith Exploration

#### Vision

Study in a Christian university provides a unique opportunity in our lives to explore answers to life's ultimate questions. While honoring the diversity of the members of our campus community, Seattle Pacific University embraces the commitment that all faculty, staff and students will explore the meaning and implications of the Christian faith for our academic disciplines, our personal and corporate lives, and for the complex issues we face in our society and world. This involves the integration of academic programs, residential and campus life, personal and corporate reflection, co-curricular activities and community service. Programs seek to contribute to our vision to be a grace-filled community that nurtures people of competence and character, cultivates the scholarship of wisdom and equips people to engage our culture with the gospel of Jesus Christ.

## Commitment

Our campus community is enriched by the diverse faith traditions within our student body, and is therefore committed to honoring and respecting these traditions. We are also committed to base everything we do on the life-transforming gospel of Jesus Christ. Therefore, we seek to do the following:

- Develop outstanding curricular and co-curricular Christian faith exploration and discipleship programs that contribute to the fulfillment of our mission and vision as a Christian university
- Give all students the opportunity to explore the meaning and implications of the Christian faith while at the same time honoring the diversity of our student body
- Encourage students' responsibility for their own spiritual growth, while providing appropriate forms of support and accountability
- Provide abundant opportunities for the development of an informed and thoughtful faith, a vibrant worship life, engagement in a grace-filled community life, holistic discipleship, and culture-engaging local and global service
- Facilitate students' growth in leadership abilities through student-led programs

### Program Opportunities

#### All-Campus Convocations

All-campus convocations are a rich and vibrant tradition at Seattle Pacific University. Beginning with Opening Convocation at the start of the academic year and extending to Honors Convocation in the spring, these events provide an opportunity to celebrate together as a community and to reflect together around common themes and issues.

#### Worship

Worship is a vital component of our life as a grace-filled Christian academic community. Though participation in worship services is not required, and students are encouraged to participate in churches from their own traditions, a broad variety of opportunities are available on campus. The purposes of our corporate worship are to provide opportunity for our community to worship together; to grow in our understanding and appreciation of the rich variety of Christian worship traditions; and, through faculty and guest speakers, to provide opportunities for growth in discipleship, leadership and service.

Students, faculty and staff can participate in different weekly worship services such as:

- *Morning Chapel.* A worship service using various worship styles, usually led by the student Chapel Worship Team, with outstanding faculty and guest speakers.
- *Evensong.* An informal time of music and prayer.
- *GROUP.* A late-night celebrative, student-led worship service.
- *Morning Prayer.* An early morning liturgical service of prayer and Holy Communion.

In addition, quarterly Reflection Retreats are offered to provide students and staff with the opportunity to participate in a semi-silent guided retreat for personal reflection and worship.

### Faith/Learning Forums

In addition to regular discussions incorporated into classes, faculty and students lead Faith/Learning Forums, which address various contemporary topics from the perspective of the Christian faith.

### Small-Group Fellowship and Discussions

One of the distinct resources provided by Seattle Pacific University is the opportunity to meet in small groups of students, staff and faculty for discussion, fellowship and discipleship. These take many forms:

- *Cadres.* Faculty and staff lead more than 50 small groups each week with students. Some are Bible study and prayer groups; others explore insights the Christian faith brings to contemporary issues. Many of these groups meet within specific academic departments and examine in depth the relationship of the Christian faith, academic disciplines and vocations.
- *Hall fellowships.* More than 40 Student Ministry Coordinators (SMCs) serve in the residence halls to provide support and encouragement. The SMCs lead a prayer or Bible study group on each floor of the residence halls.

### Local Community Service

Service is basic to leadership, to life in society and to Christian discipleship. Therefore, all students are expected to engage in some form of community service. This can be done in many different ways:

- Leadership in campus-based organizations
- Participation on one of SPU's 20 different student-led Urban Involvement teams through which students do such things as tutor children, staff homeless shelters, visit with prisoners or people in nursing homes, and provide recreational activities for people with physical and developmental disabilities
- Leadership in a church group
- Leadership in a parachurch ministry
- Involvement in Urban Plunge, a simulated experience of homelessness
- Service through One-Time Help, a referral resource that provides immediate care for individuals and organizations requiring special assistance
- Participation in Service Learning Projects organized as part of a student's courses or academic program

### Global Community Service

*SPRINT* (Seattle Pacific Reach Out International) is a student-led program to encourage cross-cultural service and global awareness. During Christmas, spring and summer vacations, more than 25 teams of students engage in cross-cultural service learning programs across the United States in inner cities and in over a dozen countries, typically including Nicaragua, Honduras, Guatemala, Mexico, Brazil, Venezuela, South Africa, Zimbabwe, Uganda, Ireland, Russia, Romania, Indonesia, Taiwan and

South Korea. Prior to departure, students receive training (summer team members participate in a Spring Quarter course), and upon return participate in extensive debriefing and reflection.

These programs provide all students with abundant opportunities to grow in their understanding of the Christian faith and its implications for our life and world.

### Christian Faith Exploration Requirement

To promote the University's commitment that all students will explore the relation of the Christian faith to academic disciplines, life and society, and to provide opportunities for corporate worship and growth in discipleship and leadership, the University maintains a mandatory Christian Faith Exploration (CFE) requirement. Though mandating neither worship nor a particular profession of faith, all students are expected to select from these abundant program opportunities those they believe will best further their own understanding and growth.

Each quarter, students will design their own CFE Plan outlining their intended involvement. A student's signature on the application for admission signifies the acceptance of these educational expectations and the agreement to fulfill this requirement. Specifically:

- All undergraduate students enrolled in 12 credits or more are required to participate in 15 hours per quarter of co-curricular activities exploring the meaning of the Christian faith and its implications for life, academic disciplines and society.
- Ten hours per quarter will be spent in campus-based faith exploration activities such as chapel, GROUP and other worship services; and/or non-worship-based programs such as faculty-and staff-led discussion groups (cadres) and campus forums on contemporary issues. Five hours per quarter will be spent in community service.
- Students may petition for a reduction in the requirement due to special circumstances.
- Participation is on an honor basis, and students will monitor their own attendance. Students will record their participation electronically and submit a quarterly CFE Report.
- Students who do not submit their CFE report will have a hold placed on their registration.
- All full-time undergraduate students are required to attend 10 CFE campus-based events, including two community events, per quarter.
- One month prior to graduation, seniors will submit a CFE senior report that is a summary of the graduating senior's thoughts, beliefs and plans. Students are encouraged to take their two- to three-page report into the future as a guiding statement and it will remain in a student's BANNER account for his or her future reference. Though this statement will not be assessed, it will be a future resource for students to integrate some of what they learned during their studies at Seattle Pacific University with the values and objectives they wish to characterize their lives in the coming years.

## Summary of the Requirement

**CFE Campus-Based Events.** For a list of the specific events that fulfill the CFE campus-based requirements, go to [www.spu.edu/depts/ocm/campusevents.asp](http://www.spu.edu/depts/ocm/campusevents.asp).

**Community Service.** Full-time undergraduate students are required to participate in five hours of community service per quarter.

**CFE Senior Report.** Prior to graduation, seniors will submit a brief CFE report summarizing their personal mission, vision and values.

*Detailed descriptions of all aspects of the requirement and of all program opportunities are available through the Office of Campus Ministries. The University reserves the right to alter these requirements and programs as deemed appropriate.*

## Our Location

### Urban Center

Seattle Pacific University's location in a thriving, world-class city is a tremendous asset for students. Seattle is a major trade center, popular tourist destination and gateway to Canada and the Pacific Rim. The city is virtually surrounded by water and mountains, so seagulls, bridges, ferryboats and snow-capped peaks are part of everyday life.

The region is home to corporate giants such as Microsoft, Boeing and Nintendo, headquarters for World Relief and WorldVision, and site of the renowned Fred Hutchinson Cancer Research Center. A strong multicultural flavor is the result of business ties and exchanges with nations including Japan, Korea and Russia.

Known as an "arts" town, Seattle has the highest live-theatre attendance per capita of any major city. It is also the only Northwest city to field teams in all three major league sports: the Seattle Sonics, regular NBA playoff contenders; the Seattle Mariners, American League West baseball pennant winners; and the NFL's Seattle Seahawks.

Combining classroom education with practical experience is often the best way to master a discipline – and Seattle's urban opportunities offer students that critical link. As part of their educational program, many SPU students work 10 to 20 hours per week for a wide array of businesses and organizations such as Microsoft, Boeing, the Fred Hutchinson Cancer Research Center, KING TV, the Empty Space Theatre, the State Attorney General's Office, the Seattle Opera, The Children's Project and others.

### Pacific Northwest

Because of its natural assets, the Pacific Northwest offers unparalleled recreational opportunities: hiking, skiing, boating, fishing and scuba diving, to name a few. One of the most popular ways to tour the 2,000 miles of Puget Sound shoreline is by ferryboat. And day trips from campus can lead you to waterfalls, ice caves, steam trains, totem poles, tide pools and floating bridges.

At SPU's two island campuses, the beauty of the Pacific Northwest provides rest and research possibilities. At seaside

Camp Casey on Whidbey Island, retreats and workshops are conducted in the rustic setting of a former military fort. On a 965-acre environmental preserve on Blakely Island, students study life above and below the sea.

## Our History

In 1891, delegates to the Oregon and Washington Conference of the Free Methodist Church voted to establish a school in Seattle where students would be educated and trained for missionary service by teachers whose lives represented the highest in Christian values. Nils Peterson, a homesteader living on Seattle's Queen Anne Hill, deeded five acres of his property to begin what would be called Seattle Seminary. Hiram Pease, another Queen Anne resident, volunteered most of the capital and much hard work to erect the school's first structure, the four-story "red brick building" later to be named Alexander Hall after the school's first principal (and later president) Alexander Beers.

Seattle Seminary opened with two faculty members, Alexander Beers and his wife, Adelaide. In the first term of operation, the seminary registered 34 students in a college preparatory curriculum that included primary and intermediate grades. In 1905, a new administration building was added, later named Peterson Hall after founder Nils Peterson. College-level courses for freshmen entered the curriculum in 1910 and the school's name was expanded to "The Seattle Seminary and College" in 1913. Two years later the name was changed again to Seattle Pacific College, with five students comprising SPC's first graduating class.

In the 1920s, the College established a normal school for teacher training. During this time the College began to look beyond its campus into the city to communicate its programs to a wider audience, anticipating its role as a liberal arts college. Enrollment climbed from 40 to more than 400.

Efforts to raise the standards and stature of the College were the focus of the 1930s. The first summer school program opened in 1931, and SPC's three-year normal school was accredited in 1933. Full accreditation of the College's four-year liberal arts program came in 1936 by the Northwest Association of Schools and Colleges.



Following World War II, the College grew from about 400 students to 1,400. In 1949, a School of Recreational Leadership was launched, paving the way for increased physical education programs and ultimately intercollegiate sports. During this time, the building of Royal Brougham Pavilion was begun, built to serve not only College interests but also used as a means of outreach to city youth as well. From its founding to 1944, the school had built only four permanent buildings; between 1944-59, five more were constructed for academic purposes. In 1955, SPC acquired 155 acres on Whidbey Island called Camp Casey. It provided new opportunities for field study and outdoor education.

The 1960s became the College's golden age of expansion, especially in terms of facilities. In nine years, 15 new buildings and/or facilities were complete; major remodeling to 10 existing buildings created new, usable space; more than 70 real estate acquisitions were recorded; and improvements were made to Camp Casey, including a new swimming pool.

In the 1970s, curricular renewal and reorganization took center stage. A new curriculum focused on the individual and the learning process, and the "scholar-servant" model soon took form. The SPIRAL program was launched in 1975, which would grow to be the model program in the state for in-service teacher education. In 1976, Seattle Pacific received a gift of 965 acres on Blakely Island in the San Juans, which would become the site for an innovative research station. Overall, faculty developed higher professional levels of competence through an academic reorganization that followed a university model. Ultimately, on June 5, 1977, the College officially became Seattle Pacific University.

During the 1980s, Seattle Pacific sought to focus on building a sense of community on campus and in the surrounding community while strengthening its ties with the Free Methodist Church and the evangelical community at large. An Intercultural Institute of Missions was established in 1984 to refocus the University's historic missionary emphasis. Enrollment grew to record levels, peaking at 3,524 in 1989.

The 1990s saw Seattle Pacific University grow into a premier Christian university of arts, sciences and professional studies. In 1991, SPU celebrated the Centennial of its founding in 1891. Academic strength was high with 85 percent of full-time faculty members holding doctorates or the highest degree in their field. In 1994, as part of its successful \$25 million capital campaign, SPU opened a \$10 million library that now serves as the heart of the academic program. A unique "Common Curriculum" was launched in Autumn Quarter 1998 and was an innovative approach to general education.

By 2000, the University had put into effect a Comprehensive Plan for the 21st Century. That plan brings together planning streams for education, enrollment, endowment and facilities to ensure the University's success for its second hundred years. Additionally, academic strength increased to 94 percent of full-time faculty members holding doctorates or the highest degree in their field. And now SPU offers 48 undergraduate majors, 10 master's degree programs and two doctoral programs.

## Presidents of Seattle Pacific University

<b>Alexander A. Beers</b> , Ph.B., M.A. ....	1893-1916
<b>Orrin E. Tiffany</b> , Ph.D. ....	1916-1926
<b>C. Hoyt Watson</b> , Litt.D. ....	1926-1959
<b>C. Dorr Demaray</b> , Litt.D. ....	1959-1968
<b>David L. McKenna</b> , Ph.D. ....	1968-1982
<b>David C. Le Shana</b> , Ph.D. ....	1982-1991
<b>Curtis A. Martin</b> , Ph.D. ....	1991-1994
<b>E. Arthur Self</b> , Ph.D. ....	1994-1995
<b>Philip W. Eaton</b> , Ph.D. ....	1995-

## Our Traditions

**New Student Convocation.** This academic ceremony has its roots in a 1932 convocation where new students and faculty gathered to celebrate the opportunities and challenges of the new year that lay ahead. Today's New Student Convocation has a similar thrust, with faculty, family and friends gathering in the Loop prior to the beginning of the academic year to support new students as they embark on their SPU journey.

**Christian Faith Exploration.** Community worship, concerts, presentations on special topics and evensong services are all part of Seattle Pacific University's extensive Christian Faith Exploration program. Evensong is Monday evenings; chapels – featuring a variety of leading Christian speakers – are Tuesdays; the student-led service, GROUP, is on Wednesday nights; forums are on Thursdays; and cadres/small groups typically meet on Tuesdays and Thursdays.

**Homecoming.** The first official Seattle Pacific "Homecoming" was instituted in 1935 at the school's 42nd Commencement. Since then Homecoming has moved to early in Winter Quarter, separated from graduation weekend. Class reunions, athletic events, drama and music productions, a student talent show, and a variety of other gatherings between alumni, students, faculty and staff make this weekend a highlight on the University's yearly calendar.

**Tradition.** Begun in the late 1980s, Tradition is a campus and communitywide event that takes place in the Tiffany Loop during the first week of December. In addition to the Christmas tree-lighting, activities include carol singing, sleigh rides, readings of the Christmas story and other traditions designed to focus attention on the season of Christ's birth.

**Graduate Hooding Ceremony.** Master's degree recipients are invited to participate in the Hooding Ceremony before the Ivy Cutting Ceremony. Master's students are recognized by the academic leadership for the completion of their advance degrees and are hooded by their school dean and the graduate faculty. Master's students then take their place behind the faculty for the Ivy Cutting procession. Doctoral students may attend but are hooded during Commencement.

**Ivy Cutting.** Ivy Cutting has been a part of spring graduation rites since 1922, when the first Ivy Planting ceremony was introduced. Now, nearly 80 years later, graduates participate in an Ivy Cutting ceremony where each senior receives a cutting from a long, connected ring of ivy. The ceremony symbolizes the senior's tie to the University and its many alumni as well as a newfound independence that comes with becoming a graduate.

**Baccalaureate.** The Baccalaureate Service is one of worship and reflection, planned by members of the senior graduating class and featuring student speakers. It is part of the graduation day ceremonies and held in Royal Brougham Pavilion.

**Commencement.** Commencement is a time-honored ceremony that recognizes the scholarship, service and Christian growth of graduating seniors. It is a celebratory service where students, faculty, staff, parents, relatives and friends congratulate the graduates on their "new beginning." Degrees are awarded to graduates who have successfully completed the requirements to obtain their baccalaureate or graduate diplomas. The number of SPU graduates has grown from five in 1915 to more than 800 in recent years.

## Accreditation and Affiliation

The history of the growth of Seattle Pacific University is linked to the educational community of which it is a part. In successive steps from 1921 to 1937, the University was accredited by the Washington State Board of Education. Since 1936, the University has been fully accredited by the North-west Association of Schools and Colleges. It is on the approved list of the American Council on Education and Board of Regents of the State of New York, and its credits are re-recognized by members of the various regional associations and by leading graduate schools throughout the country. SPU is a charter member of the Christian College Consortium and is also a member of the Council for Christian Colleges and Universities.

The University is accredited by the National Council for Accreditation of Teacher Education (NCATE) at both basic (undergraduate) and advanced (graduate) levels. The University is a member of the Association of American Colleges and of the American Association of Colleges for Teacher Education. It is fully accredited by the Washington State Board of Education for preparation of elementary and secondary teachers.

The dietetics specialization in the food and nutritional sciences program is granted approval by the Commission on Accreditation/Approval for Dietetics Education of the American Dietetic Association, 216 West Jackson Blvd. Chicago, Illinois, 60606-6995, (312) 899-4876. This means a graduate of SPU with dietetic specialization is eligible to apply for a dietetic internship in another institution. After the dietetic internship taken elsewhere, the student is "RD Eligible." The student can then take the registration examination. If passed, the student becomes a registered dietitian.

The undergraduate nursing curriculum is approved by the Washington State Nursing Care Quality Assurance Commission,

and both the undergraduate and graduate programs are accredited by the Commission on Collegiate Nursing Education (CCNE).

Seattle Pacific University is a full member of the National Association of Schools of Music.

The electrical engineering program is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology.

Seattle Pacific meets the requirements of the Commission on Christian Education of the Free Methodist Church for preparation of ministers and missionaries and is also approved by the Department of Christian Education of the Free Methodist Church and other denominations for the collegiate preparation of ministers.

The School of Business and Economics is accredited by AACSB International – the Association to Advance Collegiate Schools of Business.

The University is approved by the U.S. government for education of veterans and their dependents under the applicable public laws.

## Our Resources for Learning

Seattle Pacific University students enjoy aesthetically pleasing physical learning spaces. Spread over the 45-acre Seattle campus, the buildings, recognized by their traditional brick or modern faces, are also known for the many ways in which they meet students' educational needs.

### The Library

Completed in 1994, the Library is a spacious four-level facility that serves as the center for academic endeavors outside the classroom. It provides collections, services, technology and space for study and research, with approximately 150,000 volumes arranged on open shelves for easy access to readers. The collection grows by some 6,000 new titles each year, including more than 1,400 current periodical titles and an ever-expanding microfiche collection numbering more than 400,000 items. The collection is accessible online in the Library and through the campus computer network via its automated catalog. In addition, fundamental library processes of circulation, reserves, acquisitions, cataloging and serials control are also facilitated through the same integrated automation system. Microfilm and microfiche reader-printers, low-cost duplicating facilities and audiovisual listening and viewing stations are available as well.

In addition to standard printed reference sources, the Library makes available an increasing number of electronic information resources, including abstracts/indexes from ProQuest Direct, EBSCOHost, First Search and other online and CD-ROM products. In order to provide the utmost in convenience, access to more than 1,500 full-text journal titles is available from every computer on campus. Most of these resources are also available to off-campus students who have Internet access. An interlibrary borrowing service is available to students, faculty and staff. As a member of OCLC (Online Computer Library Center), the Learning Resources

Center can provide access to library holdings throughout the Northwest, across the nation and beyond. In addition, students have library borrowing privileges at Seattle University, Northwest College, Pacific Lutheran University, St. Martin's College and the University of Puget Sound through a cooperative agreement.

### The Center for Learning

Located in Lower Moyer, the Center for Learning offers four computers for student use, a Writing Center that provides assistance with writing class papers, services and support for students with disabilities, tutoring for many General Education courses, and academic consultation and referrals. Learning seminars and classes are offered every quarter.

### Student Computer Labs

Student computer labs are located across the campus. Some of the computer labs are highly specialized for specific academic programs while other labs are more general purpose. In most of the student labs a standard set of academic software tools are provided that include word processing, spreadsheets, presentation software, statistical software, programming languages and database software. All of the general-purpose computer labs also provide full access to the Internet, electronic mail, World Wide Web, laser printers, and other local and remote networked resources.

**Library:** There are presently two computer labs in the Library – an instructional classroom with 20 NT computers and an open lab with 22 NT computers. The Library also has 15 computers for database searching as well as a number of computers for special and assisted use.

**McKenna Lab:** The Qwest Computer Lab in the School of Business and Economics contains 25 NT computers for open lab and business class use. There is also an instructional classroom with 24 NT computers.

**Miller Science Learning Center:** There are four computer labs in the Miller Science Learning Center: a large open lab with 30 Pentium-III class NT workstations and three Electrical Engineering labs with a total of 36 NT workstations. The EE Analog Design Lab has 18 workstations; the EE Computer-Aided Design Lab has 10 workstations; and the EE Systems Design Lab has eight workstations. Additionally, many NT workstations are used in the biology, physics and chemistry laboratories to control and monitor experimental apparatus.

**Music Keyboard Lab:** The Music Technology Lab in Beegle Hall is equipped with eight high-end Macintosh computers connected to Roland RD-600 multi-timbre MIDI keyboards. In addition, the lab contains another high-end Macintosh computer capable of 16-track digital recording, using a Yamaha O2R Digital Recording Console, ADATs, Kurzweil K2500XS keyboard and the industry standard ProTools software.

**Student Union Building.** Several computers are now available for student use in the Fireside Room of the SUB.

**Weter Hall.** Several computers are available for student use on the first floor of Weter Hall.

### Classroom Technology

Faculty have a wide range of technology available in the classroom to enhance learning. From "low-tech" equipment such as TVs and VCRs (available in nearly all classrooms), to "high-tech" resources such as large-screen projectors and

Windows-based PCs (installed in 12 classrooms), to fully equipped electronic classrooms (three on campus). Computer and Information Systems also provides a wide range of circulating computer, audio-visual and technology resources including video cameras, video players, slide, film and opaque projectors, data projectors and audio equipment. This equipment is available for student checkout and for use in instructional classrooms.

### Internet Access/Electronic Mail

On-campus network connectivity and access to the Internet is available throughout campus. Nearly all students, faculty and staff use electronic mail and other electronic communication tools. Access to campus resources and databases through the Web is widespread. The Internet also provides access to libraries, databases and information resources throughout the world. Nearly all faculty are provided late-model computers and high-speed network connections. Students can get access to the Internet from student computer labs or from their residence hall rooms. Off-campus students have access to e-mail from campus-provided modem connections. Many routine student transactions (registration, class schedules and access to grades) can be completed via the Web at the individual student's time and convenience.

### Instructional Technology Services

Located on the lower level of the Library, Instructional Technology Services helps faculty produce Web-based and multimedia learning resources. It also manages the Library's computer labs and satellite downlinks. With both audio and video equipment, ITS helps bring exciting new learning adventures to Seattle Pacific University's campus.

### Technology Services in the Residence Halls

All of the campus residence hall units are provided a full complement of technology resources that include network connections to the local campus computers and the Internet (a connection for each student), cable TV connections in each room and telephone/voice mail services.

### Technology Instruction and Assistance

The use of computers and networked resources is an important part of the academic program at SPU. Assistance in learning how to use these resources is available in many forms. A 40-page booklet, *SPUnet Systems and Internet User Guide*, is distributed to students; there are many training sessions offered for help in using the campus resources; student assistants are available in all of the computer labs; and Computer and Information Systems provides a central computer HelpDesk.

### Computer Ownership

The University provides a wide range of general purpose and specialized computer resources on campus, but for the most effective learning and use of computers, students are strongly encouraged to purchase their own computer. Seattle Pacific University supports both Windows and Apple Macintosh computers in our student lab environments and the residence halls. The choice of computers and software is left to the individual student.

# Admissions

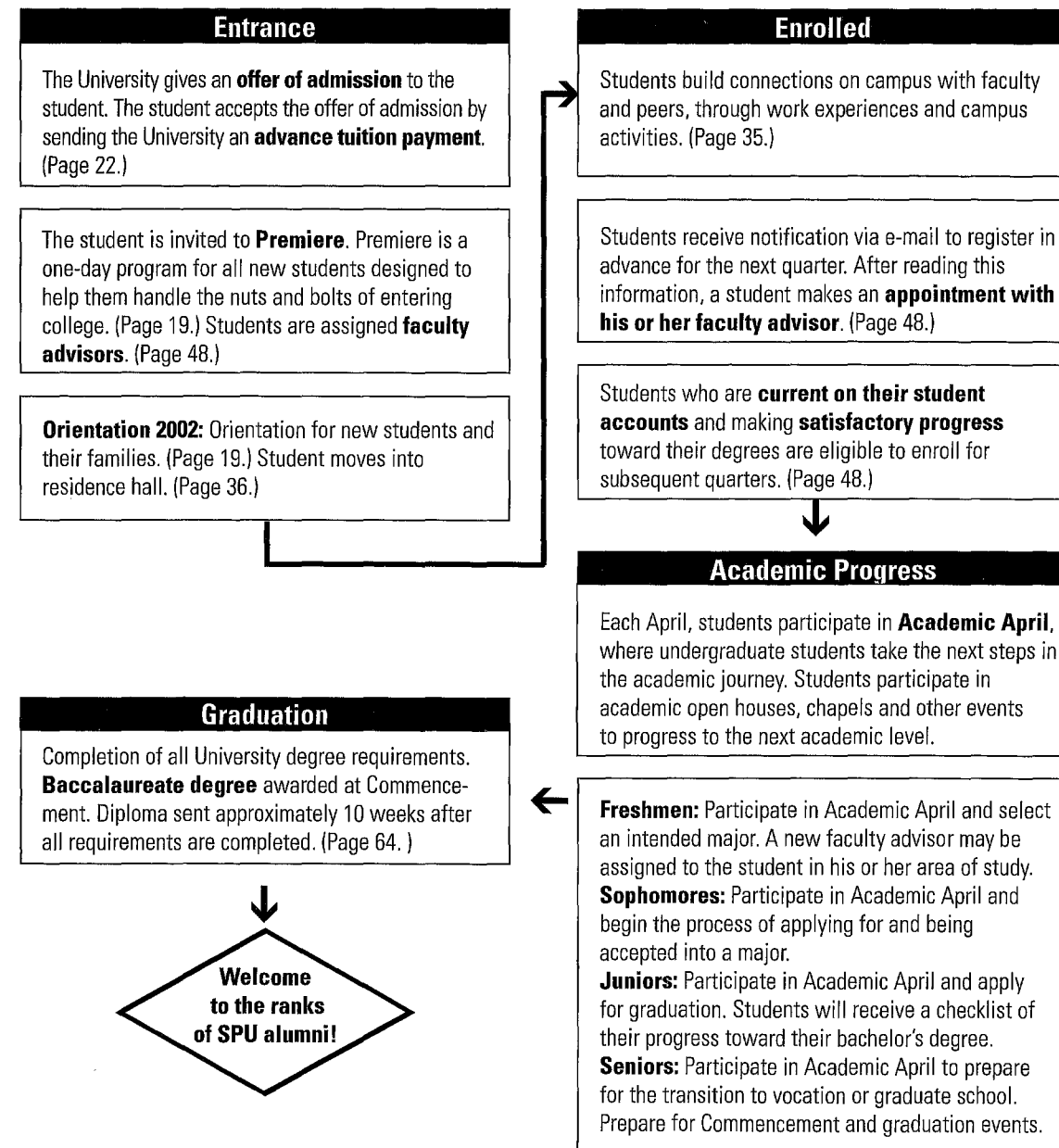




# What Happens Once a Student Is Admitted?

## Progression From Admission Through Graduation

Once a student accepts Seattle Pacific's offer of admission, an educational journey begins. Here is an overview of what to expect from admission to graduation.



# Admissions

Seattle Pacific University admits students with academic characteristics that predict their success in the University programs to which they seek enrollment and who exhibit personal qualities that indicate a contribution to the objectives of the University.

In line with its original charter, students are admitted without discrimination as to race, color, nationality, creed, age or sex. A strong college preparatory program in high school is recommended and prepares students for success at the university level. In addition to academic ability, such factors as intellectual curiosity, goals, leadership, responsibility, personal and social adjustments, commitment to Christian values and a desire to serve are considered.

Depending on space available, a waitlist process may be required for students submitting a marginal academic profile. Admission to the ACCESS Program may be granted to applicants who have a demonstrated need for study-skills assistance. Admission to the University does not automatically constitute admission to the particular program or school in which a student wishes to study. Specific admission requirements are located in each academic program section in the *Catalog*.

Seattle Pacific University reserves the right to admit or re-admit any student at its discretion.

## You're Invited to Visit the Campus

Words and pictures provide impressions of Seattle, but to fully appreciate it, you must see it in person.

The same is true for Seattle Pacific University. Located in a quiet residential neighborhood, SPU's campus is parklike and reminiscent of an earlier age. Yet this classic setting is only a few minutes from Seattle's bustling, cosmopolitan city center.

College students agree that a campus visit is the best way to discover if a university is a good match. So we make it easy.

A visit includes transportation to and from commercial carriers, overnight accommodations and discount hotel rates for parents. Meals on campus are provided for student visitors, as are campus tours.

There are several opportunities for students to schedule a visit:

**Campus Preview.** Campus Preview offers prospective students an in-depth look at life on campus. This special weekend event is an opportunity for more than 200 students to attend classes, meet professors, spend the night on campus in the residence halls, and attend information workshops and athletic/social events.

**Senior Preview.** This weekend event occurs in the autumn and is a special opportunity for high school seniors to attend classes, meet professors, spend the night on campus and participate in community activities.

**SPU Fridays.** On special SPU Fridays, small groups of prospective students receive the red-carpet treatment with a personalized itinerary.

**Individual Visit.** If you can't attend one of the organized events, we will be happy to schedule a personal visit for you on another day.

To arrange a visit to Seattle Pacific University, simply give us a call at (206) 281-2021 or (800) 366-3344 toll free. We'll take care of the details.

## Application for Admission

### General Instructions for All Applicants

Students interested in applying for admission should request admission materials early by contacting the Office of Admissions. Prospective applicants who are still in high school should request these materials early in their senior year.

Applications for admission must be received in the Office of Admissions at least a month and a half prior to the beginning of the quarter for which a student wishes to enroll. Applications are also available online at [www.spu.edu](http://www.spu.edu). Application materials for admission must meet the following dates for each respective quarter:

To Be Admitted For:	All Materials Must Be Received By:
Autumn 2003	June 1, 2003
Winter 2004	November 15, 2003
Spring 2004	February 15, 2004
Summer 2004	May 15, 2004

Each applicant is responsible for providing all items required with the application, including a \$45 nonrefundable application fee.

Students desiring financial aid and scholarship consideration should file the Free Application for Federal Student Aid (FAFSA) with the federal processor as soon as possible after January 1 and submit all application materials before March 1. Need-based financial aid award decisions (grants, loans and student employment) for students who meet these deadlines are processed beginning the second week in March. Merit scholarships (not based on need) are awarded on a rolling basis beginning mid-January. Further information and instructions for financial aid applications may be obtained from Student Financial Services.

### Procedures for Students Entering Directly From High School

- Application:** Complete the Seattle Pacific University Undergraduate Admission Application and send to the Office of Admissions early in the seventh semester (first semester of the senior year) along with the \$45 application fee and the two required essays.
- High School Transcript:** During the first semester of the senior year, arrange for an official transcript to be sent by the high school last attended. Applicants are also responsible to request that their eighth semester grades be forwarded upon graduation. High school counselors are encouraged to provide additional information, if they desire.
- Entrance Examination:** Take either the College Board Scholastic Aptitude Test (SAT-I) or the American College Test (ACT). Information and registration forms may be obtained from the student's high school counselor. The addresses for testing information are as follows: College Entrance Examination Board (SAT-I), Box 1025, Berkeley, CA 94701, or on the Web at [www.collegeboard.org](http://www.collegeboard.org); American College Testing Program (ACT), P.O. Box 414 Iowa City, Iowa 52290, or on the Web at [www.act.org](http://www.act.org). It is recommended that applicants take the SAT-I or ACT by January of their senior year.
- Recommendations:** Applicants should request an academic recommendation from a teacher or counselor familiar with their academic qualifications and a personal recommendation from a minister, youth leader, employer or professional associate. (Use forms with application materials.)

### Procedures for Transfer Students

- Follow steps 1, 2 and 4 listed above for high school students.
- Send official transcripts from all colleges previously attended.
- Students who have earned (prior to matriculation at SPU) an *approved* associate of arts degree (transfer program) from a Washington, Oregon or California community college or from Central Christian College of Kansas will enter with junior standing and all Exploratory Curriculum requirements, including the foreign language proficiency requirement, fulfilled. (See the listings at the end of this section for specific degrees accepted under this agreement.)
- All transfer students should review the Transfer Student section on the following pages for further information on SPU's transfer policies.
- Running Start students should follow the process for high school students.

SAT/ACT scores are not required for initial transfer application review, but may be requested upon the discretion of the admissions committee. However, official

test scores are required for math proficiency test exemption. (See B.A. Requirements Section: Placement/Proficiency Testing Program.)

Associate degrees from Washington state community colleges that transfer directly to SPU to fulfill University Core and Exploratory Curriculum requirements (and 5 of the required 15 University Foundations credits) include the following:

Bellevue Community College, *Associate in Arts and Sciences*  
 Big Bend Community College, *Associate in Arts and Sciences*  
 Cascadia Community College, *Associate in Integrated Studies*  
 Centralia College, *Associate in Arts*  
 Clark College, *Associate in Arts and Sciences*  
 Columbia Basin Community College, *Associate in Arts and Sciences*  
 Edmonds Community College, *Associate of Arts, option I*  
 Everett Community College, *Associate in Arts and Sciences, option II*  
 Grays Harbor Community College, *Associate in Arts*  
 Green River Community College, *Associate in Arts*  
 Highline Community College, *Associate in Arts, option A*  
 Lower Columbia College, *Associate in Arts and Sciences, plan B*  
 North Seattle Community College, *Associate of Arts or Associate of Sciences*  
 Olympic College, *Associate in Arts and Sciences, option A*  
 Peninsula College, *Associate of Arts or Associate of Arts, honors*  
 Pierce College, *Associate in Arts and Sciences*  
 Seattle Central Community College, *Associate of Arts or Associate of Sciences*  
 Shoreline Community College, *Associate in Arts and Sciences, option A*  
 Skagit Valley College, *Associate in Arts, University and College Transfer*  
 South Puget Sound Community College, *Associate of Arts*  
 South Seattle Community College, *Associate of Arts or Associate of Science*  
 Spokane Community College, *Associate in Arts*  
 Spokane Falls Community College, *Associate in Arts*  
 Tacoma Community College, *Associate in Arts and Sciences, option A*  
 Walla Walla Community College, *Associate in Arts*  
 Wenatchee Valley Community College, *Associate in Arts and Sciences*  
 Whatcom Community College, *Associate in Arts and Sciences*  
 Yakima Valley Community College, *Associate in Arts and Sciences*

The associate degree from Oregon that transfers directly to SPU to fulfill University Core and Exploratory Curriculum requirements (and 5 of the required 15 University Foundations credits) is the Uniform Oregon Associate of Arts degree.

Students transferring from California junior colleges must complete the IGETC (Intersegmental General Education Transfer Curriculum) as part of their associate degree in order to transfer to SPU with University Core, Exploratory Curriculum and five of the required University Foundations credits fulfilled.

### Early Action Plan for 2003-2004

The Early Action program at Seattle Pacific University is a nonbinding agreement for students who select SPU as their first choice. Students may begin the application process as early as October 1, 2002, for Autumn Quarter 2003. Early Action candidates must submit their application form by December 1, 2002, and all supporting materials (recommendations, transcripts, test scores, etc.) must be received by March 1, 2003.

Early Action students are given first consideration for campus housing, financial aid and scholarships, provided they meet housing and financial aid application deadlines. (See Costs and Financial Aid; Residence Status and Financial Aid for details.) In addition, SPU offers assistance to Early Action students as they make plans to enroll by providing discounted tickets to Senior Preview or Campus Preview, as well as a transportation allowance to attend one of these events. Early Action students may elect to visit the campus at a different time and will receive complimentary meals, housing on campus and an allowance for transportation to the campus. Contact the visit coordinator in the Office of Admissions for details.

### Washington State Running Start Program

Accepted students who have completed college-level coursework under the Washington state's Running Start Program will be awarded transfer credit, up to a maximum of 90 credits. They should follow the same admission procedures for students entering directly from high school, plus submit an official community college transcript. The transfer courses must be described in the catalog of an accredited Washington state community college and must be posted on an official transcript. Students who are currently in the Running Start program and have not yet graduated from high school will be considered for high school scholarships, regardless of the number of credits earned.

### Homeschooled Students

SPU recognizes that greater numbers of students are receiving instruction at home instead of through a traditional high school program. Homeschooled students are required to submit application materials as stated for all students. In addition, students should submit an ACT score, a copy of their reading list and information regarding the curriculum used in their homeschool program. While interviews are not required, they may be helpful. Homeschool students may be required to submit a G.E.D. if their records are of marginal academic quality. Admission to homeschool students will weigh heavily upon test scores, writing ability and academic curriculum.

### Early Admission

Qualified students may enroll at SPU prior to completing all required units in high school. Only students highly recommended for Early Admission will be considered. Such students rank among the top students in their class with high aptitude test scores. Requirements include evidence of completion of junior year in high school,

outstanding high school record and test scores, and a letter of recommendation from the high school principal approving early college admission and concurrent high school completion at SPU. Evidence of high school completion (high school transcript with graduation date or G.E.D.) is required in order to receive financial aid. Contact the Office of Admissions for details.

### Advanced Placement/CLEP/International Baccalaureate/PEP

Matriculated students at Seattle Pacific University may earn up to 45 quarter credits through University-recognized testing and advance credit programs. These include the Advanced Placement Testing Program (AP), College Level Examination Program (CLEP), Proficiency Examination Program (PEP), International Baccalaureate (IB) and SPU's Credit by Examination. These examination credits, plus community college and unaccredited college credits, cannot exceed 90 quarter credits. Credits are evaluated for Exploratory Curriculum requirements at the time a student enters SPU in accordance with the following policies:

### Advanced Placement

The following is a list of AP tests and their acceptance at SPU. A score of 3, 4 or 5, unless otherwise noted on the AP exam, will award the student the number of credits listed. If students believe courses may also fulfill major requirements, they may contact the appropriate department for their review.

### Recommended AP Equivalents

AP Test	Credits	Exploratory Curriculum	SPU Acceptance
Amer-Govt	5	SSB	POL 1120
Comp-Govt	5	SSB	POL 2320
Art-Drawing	5	AHA/AHC	ART 1102
Art-General	5	AHA/AHC	Arts and Humanities
Art-History	5	AHA/AHC	Arts and Humanities
Biology	5	NSA	BIO 2101 (score: 4 or 5)
Chemistry	5	NSB	CHM 1211 (score: 4 or 5)
CSC-A	5		CSC 1230 (score: 4 or 5)
CSC-AB	5 (score: 3) 10 (score: 4 or 5)		CSC 1230 CSC 1230 and 2430
Econ-Micro	5	SSB	ECN 2101
Econ-Macro	5	SSB	ECN 2102
Environment Science	5 (score: 4 or 5)	NSA	BIO 1100
Lang-Comp	5		Elective course
Lit-Comp	5	AHB/AHC	ENG 1110
His-Amer	5	SSB	HIS 2502/2503
His-Europ	5	SSB	HIS 1202
French-Lang	5 (score: 3) 10 (score: 4) 15 (score: 5)		FRE 1103* FRE 1103* FRE 1103*
French-Lit	5	AHB/AHC	Arts and Humanities
German-Lang	5 (score: 3) 10 (score: 4) 15 (score: 5)		GER 1103* GER 1103* GER 1103*
Latin-Vergil	5 (score: 3 or 4) 10 (score: 5)		LAT 1103* LAT 1103*
Latin-Horace	5	AHB/AHC	Arts and Humanities

Math-AB	5	MA	MAT 1225 (score: 4 or 5)
Math-BC	10	MA	MAT 1225, 1226 (score: 4 or 5)
Music-Lit	5	AHA/AHC	Arts and Humanities
Music-Theory	5	AHA/AHC	MUS 1101
Phy-B	5	NSB	PHY 1101
Phy-C Mechan	5	NSB	PHY 1121
Phy-C Electr	5	NSB	PHY 1121
Psy	5	SSA	PSY 1180
Spanish-Lang	5 (score: 3) 10 (score: 4) 15 (score: 5)		SPN 1103* SPN 1103* SPN 1103*
Spanish-Lit	5	AHB/AHC	Arts and Humanities
Statistics	5	MA	MAT 1360

\*Consult with Foreign Language Department for placement.

### CLEP/PEP

Students who have completed CLEP exams with scores in the 50th percentile (C grade range) may receive 4.5 quarter credits. A listing of tests and scores is available in Student Academic Services. PEP credits are determined on an individual basis.

### International Baccalaureate

Students can receive college credit at Seattle Pacific University in their higher level subjects. Five quarter credits are granted for each higher level subject in which a grade of 5 or higher is earned. Further information is available in Student Academic Services.

### Transfer Student Information

#### Students Entering From Regionally or A.A.B.C. Accredited Colleges and Universities

Students desiring admission to Seattle Pacific University from another regionally accredited institution or American Association of Bible Colleges (A.A.B.C.) accredited institution will follow the procedures for transfer students. All records submitted for admission become the property of SPU and are considered a part of the student's official file and permanent record. Failure to submit transcripts from all institutions attended, including high school, may result in dismissal from the University. Advanced standing will be determined on the basis of the credentials submitted by the candidate. In every case, however, the following conditions will apply:

1. A transfer student must be in good standing at all prior institutions attended.
2. Transfer students who have successfully completed any number of college credits from an accredited institution at the time of application may not be required to take the American College Test (ACT) or the College Board Scholastic Achievement Test (SAT-I).
3. It is the student's responsibility to ensure that final official transcripts reflecting coursework subsequent to admission are received by SPU. The absence of final coursework will affect the student's class standing, eligibility for financial aid and progress toward degree completion.

4. The average grade in all courses accepted for advanced standing from each school must be "C" (2.0) or higher. This means that for every grade of "D" accepted there must be another grade of at least "B" or its equivalent for an equal number of credits. Exception: For A.A.B.C. accredited institutions, no grade below "C" (2.0) will be accepted.
5. No more than 30 quarter credits earned via correspondence and/or media courses (e.g., cassette, TV, video) – inclusive of both residence and transfer credits – may be applied to a bachelor's degree. Exception: Existing Washington state community college associate degree transfer agreements will be honored as they apply to general education requirements.
6. Transfer associate degrees earned after matriculation at SPU will not be recognized toward fulfillment of Exploratory Curriculum, University Core requirements and foreign language requirements.
7. A combined total of not more than 90 credits will be accepted from all two-year colleges, including unaccredited schools, AP, CLEP and I.B. Existing Washington, Oregon and California community college associate degree transfer agreements will be honored as they apply to Exploratory Curriculum requirements and class standing at entry.
8. Credits in excess of 20 in any one term will not be transferred. Courses taken concurrently by media, correspondence or extension at more than one institution, as well as non-credit courses, are included.
9. An undergraduate transfer student is required to earn a minimum of 45 credits in residence at SPU including 15 upper-division credits in his/her major at SPU to be eligible for a degree. See individual majors for additional degree requirements.
10. One-credit courses, except physical education activity, applied music and selected computer courses, ordinarily are not transferable.

#### Students Entering From Regionally Unaccredited Colleges

Seattle Pacific University welcomes transfer students from all institutions. While the absence of accreditation raises questions concerning the nature and quality of an institution's programs, SPU recognizes that institutions may not seek accreditation for a variety of reasons related to mission, sponsoring entity requirements, etc. SPU will, therefore, review credentials from unaccredited institutions at the student's request. An official transcript and copy of the unaccredited institution's catalog must accompany a written request for review.

If SPU determines that the institution's credits are acceptable, specific credits may be transferred with the following limitations and conditions:

1. Only college-level academic courses will be transferred. Vocational, technical and practicum courses will be transferred only with faculty approval.
2. To be accepted a course must have a grade of "C" (2.0) or better.

3. Only courses of at least 2 quarter credits will transfer (except physical education, selected computer and applied music).
4. The cumulative GPA of transferable courses must be 2.0 or better (on 4.0 scale).
5. Courses comparable to SPU Exploratory Curriculum categories or courses will apply to the appropriate Exploratory Curriculum and University Core categories.
6. A maximum of 10 credits in biblical literature courses may be accepted as elective credits only.
7. Application of credits to major requirements is a determination made by the individual discipline.
8. The maximum number of credits transferred, when combined with community college and advanced credit/testing programs, will not exceed 90.

Except as outlined above, the conditions for students entering from accredited colleges will apply. A student transferring from an unaccredited college may be required to present acceptable scores on either the College Board Scholastic Aptitude Test (SAT-I) or the American College Test (ACT).

#### Transfer Student University Foundations Requirements

All credits earned at a recognized accredited institution in areas offered by Seattle Pacific University will usually be accepted without discount. Students who have earned, **prior to matriculation at SPU**, an approved associate degree (Washington, Oregon and California community college transfer program or Central Christian College of Kansas) are considered to have completed the Exploratory Curriculum and University Core (but not University Foundations) requirements, including the foreign language proficiency requirement, of SPU. All undergraduate transfer students, however, must participate in the Math Proficiency and English Placement testing program, and achieve required minimum scores or compensatory instruction. For possible exemptions, see Math and English Testing section.

SPU considers the University Foundations requirements to be at the heart of its approach to higher education. Therefore, each transfer student is expected to complete these requirements at SPU.

Transfer students with junior or senior standing upon admission will complete 10 credits in Foundation studies with 5 credits in UFDN 3001, Christian Scriptures, followed by 5 credits in UFDN 3000, Christian Theology. Each transfer student with freshman or sophomore standing upon admission will complete the full 15-credit requirement by completing UFDN 1000, UFDN 2000 and UFDN 3000.

If a transfer student has taken Bible courses at a member institution of the Council for Christian Colleges and Universities, up to 10 credits may be accepted toward the fulfillment of the University Foundations requirements for students who enter SPU with freshman or sophomore standing, and up to 5 credits may be transferred toward the requirement for students who enter SPU with junior or senior standing. If Bible courses have been transferred

from another accredited Christian liberal arts college that is not a member of the Council of Christian Colleges and Universities, up to 5 credits may be granted toward fulfillment of the Christian Scriptures requirement. If a transfer student has taken Bible courses from an accredited Bible college, up to 5 credits may be granted in fulfillment of the Christian Scriptures requirement. If all cases, students must complete at least 5 of their required Foundations credits at Seattle Pacific University.

#### International Students

The goal of the international student program is to provide educational opportunities for qualified students from a variety of cultural backgrounds. SPU seeks to admit students who would most benefit from the distinctives of the institution.

International students entering from U.S. schools must submit the same applications, transcripts, letters of recommendation and test scores as other entering freshmen or transfer students, as well as the following (please refer to the International Admission application):

Students desiring to enter directly from a U.S. high school, college or university must:

1. Submit a TOEFL score of 550 minimum (213 on the computer-based test).
2. Submit official college and/or secondary school transcripts with a 3.0 GPA or higher on a 4.0 scale (equivalent to a U.S. "B" average).
3. Provide an official confidential statement of financial support in U.S. dollars (such as an official bank statement) covering each year of intended enrollment.
4. Submit two recommendations and a personal essay (use the International Admission Application for forms).

Students who intend to enter directly from foreign countries must have a grade point average equivalent to a 3.0 in the grading system used in this University. The Test of English as a Foreign Language (TOEFL) is required of all international students. Graduates of high schools in countries where the school system provides for less than 12 years of instruction before college are expected to complete at least 12 years of schooling in their own country before being admitted to SPU. Students may receive college credit for A Level exams if their marks are very high.

Students may meet the SPU English proficiency for admission by completing the ACE language program and receiving a full recommendation from the American Cultural Exchange Program (ACE) on the SPU campus prior to admission to SPU. Students who receive a full recommendation from ACE are not required to submit a TOEFL score.

#### Non-Matriculated International Students

Undergraduate international students may take no more than 45 credits toward a degree before being formally admitted to the University, and post-baccalaureate students are limited to 15 such credits. Non-matriculated students (those who have not been formally admitted to the University) are expected to submit an acceptable official TOEFL score (a minimum score of 550 for the paper

version of the test or 213 for the computer-based test) to Student Academic Services, and must pay for their courses at the point of registration. Students seeking to enroll in courses at SPU while attended another institution must also submit a letter of permission from their host institution.

SPU welcomes international students and encourages them to seek full admission to the University at the earliest opportunity.

### U.S. Citizens (Immigrants) Who Are Non-Native English Speaking

Students whose first language is not English and who wish to enter SPU directly from high school or to transfer from another institution must demonstrate English proficiency. This may be demonstrated in a number of ways, including submitting a satisfactory Scholastic Aptitude Test (SAT-I) Verbal score, satisfactory performance in high school or college-level English courses or TOEFL score.

### To Accept an Offer of Admission

Applicants will receive a letter of their acceptance/denial to the University approximately two to four weeks after their admission file is complete and after December 1, 2002. To accept an offer of admission, follow these steps:

1. **Advance Payment:** A \$200 advance payment is the student's acknowledgment of intention to enroll. This payment should be submitted to the Office of Admissions. This guarantees a place in the entering class and allows the student to register for classes. This payment is credited to the student's account and is applied toward the initial tuition payment.
2. **Housing Registration:** All students, upon admission to the University, will be mailed detailed housing materials, including information on the housing application process and room reservation deposit.
3. **Health Record:** Along with the notification of admission, each student will receive a medical health history form, to be completed and returned to Student Health Services. This medical history is required of students who are (1) entering SPU for the first time, (2) returning after an absence of more than one calendar year, or (3) have previously attended Summer Quarter but are entering regular University classes for the first time. Health insurance is available to all matriculated students enrolled for at least 9 credits. Insurance information is available in Student Financial Services.

*All international students are required to enroll in the University Student medical insurance plan. Any exceptions to this requirement are subject to the approval of the Health Center. Proof of comparable coverage from a provider based in the United States or an acceptable reciprocal agreement is necessary for waiver approval.*

### Application for Re-Admission

If a student has been away from SPU for fewer than nine quarters after completing courses as a matriculated student, that student is still considered an "active" student at SPU. He or she may register for classes at SPU without completing paperwork for undergraduate admissions. Any transfer work completed during the student's absence must be submitted to Student Academic Services. The student will be responsible to complete the same degree requirements as expected upon his or her first quarter of matriculation at the University. An associate degree completed while a student is considered "active" at SPU will not be recognized.

Students who would like to re-enroll after nine quarters (two years) have passed must submit all new application materials. The Office of Admissions will inform the student if additional credentials need to be submitted. Admission will be governed by the policies regulating the admission of the level the student is reactivating under (a student who was admitted to SPU out of high school and is reactivating after attending another institution is now considered a transfer student.)

Undergraduate and post-baccalaureate students who have interrupted their study at SPU for more than two calendar years will graduate under the requirements listed in the *Catalog* current at the time of re-entry. Class standing will be recalculated to include all credits earned and transfer credits accepted prior to readmission.

### ACCESS Program

The ACCESS program is offered to students who would benefit from additional personal and academic support during their first year at SPU. This program provides individualized academic support, monitoring and advising. Additionally, students enroll in two study-skills classes to equip them for college course expectations and to clarify educational and professional goals. Participation in the ACCESS program may be an expectation for some students upon admission or may be a voluntary option. The charge for three quarters of participation is \$300. Questions about the program can be directed to the Center for Learning at (206) 281-2654.

### Disabled Student Services

The University assists with program access through a variety of services for students with disabilities. Any student requiring special assistance should contact the Center for Learning at (206) 281-2475 to make arrangements for an intake interview to determine the level of assistance needed. Students are required to provide documentation of the nature of their disability at that time.

### Entrance Programs Once Students Accept Admission: Premiere and Orientation

#### Premiere - Initial Advisement and Registration

All new undergraduate students, including transfer students, receive initial advisement and register for classes as part of the Premiere program before the first quarter of matriculation. Premiere is a one-day program that provides students with the opportunity to confer with an advisor about the selection of classes, register for classes, receive an official University ID card, take the Math Proficiency Exam (if required) and make financial arrangements. Once students have completed Premiere, they will be prepared to go through New Student Orientation.

#### Orientation of New Students and Families

New Student Orientation sessions are held each quarter. Autumn Quarter orientation includes four days of orientation to the academic and social community of SPU. Brief orientation sessions are offered Winter and Spring quarters. All of these sessions are designed to help new students prepare for the academic, spiritual and social life at SPU. They also offer opportunities for students to become better acquainted with the University, its programs of study and to meet faculty and classmates. Attendance at orientation is required and provides students with the essential information for a successful transition to university life.

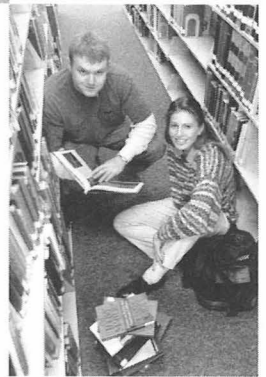
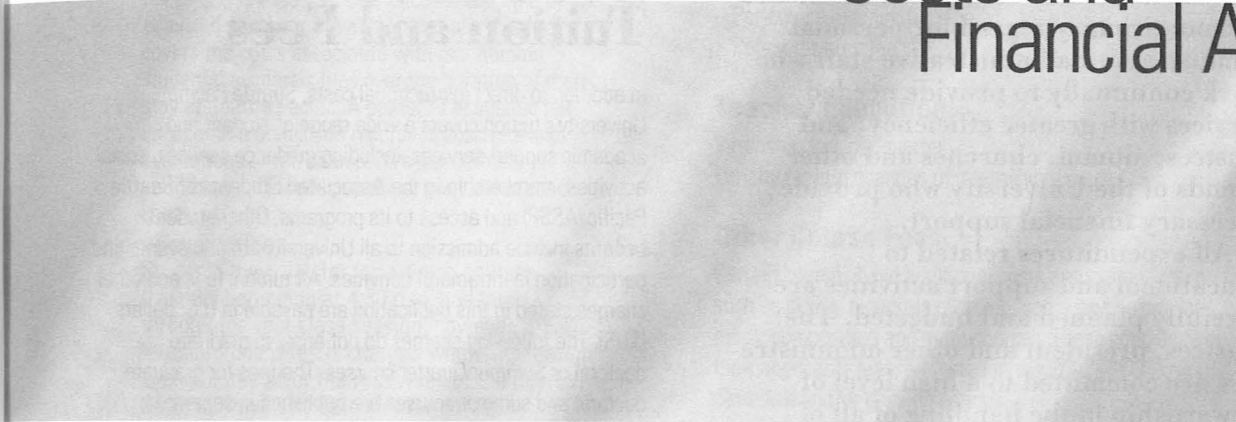
### Post-Baccalaureate Admission

Students who have been awarded a baccalaureate degree and wish to complete a second undergraduate degree may apply through the Office of Admissions. Students should contact the Office of Admissions for the Post-Baccalaureate Admission Application. Required materials for admission consideration include a completed and signed Post-Baccalaureate Admission Application, \$45 application fee, one letter of recommendation addressing character and academic ability, an official copy of the final transcript from the institution that granted the baccalaureate degree (showing the granted degree), any additional transcripts showing post-baccalaureate work, and a response to the essay question found in the application for admission.

While SPU may recognize a bachelor's degree from a school that holds accreditation from the AABC (Accrediting Association of Bible Colleges), the state of Washington does not recognize these institutions when issuing teaching certificates. Therefore, post-baccalaureate students admitted to SPU from institutions that are not regionally accredited must complete an additional bachelor's degree or a master's degree along with the teacher certification program if they wish to obtain teacher certification for the state of Washington.

*Note to SPU graduates: SPU graduates do not need to submit a letter of recommendation. Only transcripts reflecting work at other institutions must be submitted.*

# Costs and Financial Aid



# Undergraduate Costs and Financial Aid

Seattle Pacific University is committed to providing high quality Christian education at a reasonable price. This is achieved through a dedicated faculty who provide nationally recognized excellence without primary regard for personal remuneration; administrative staff who work continually to provide needed services with greater efficiency; and trustees, alumni, churches and other friends of the University who provide necessary financial support.

All expenditures related to educational and support activities are carefully planned and budgeted. The trustees, president and other administrators are committed to a high level of stewardship in the handling of all of Seattle Pacific's financial resources, with a goal of maintaining financial stability for current and future students.

All programs and policies at the University are under continual review. Therefore, SPU reserves the right to change its financial policies or charges at any time without previous notice. After the beginning of a quarter, however, no change will be made that is effective within the quarter. Every student is presumed to be familiar with the payment schedules and other financial policies and procedures published in this *Catalog*. Financial assistance, including scholarships, grants, student employment and various types of loans, is available to qualified students on a limited basis and is described in detail in this *Catalog*.

Student Financial Services is responsible for providing service to students regarding tuition and fees, payments on accounts, financial aid, student employment and other financial assistance. While every effort has been made to provide helpful and understandable explanations of the University's fees and financial policies, students may still have questions from time to time and staff is

prepared to assist. The goal of the staff is to provide helpful, friendly service to all inquirers. It is the hope of Seattle Pacific University that students will not only have exceptional educational experiences, but they also will feel that same commitment to excellence and service throughout all of the support areas of the institution.

## 2002-2003 Tuition and Fees

In addition to direct instructional costs, Seattle Pacific University's tuition covers a wide range of student and academic support services, including guidance services, social activities, membership in the Associated Students of Seattle Pacific (ASSP) and access to its programs. Other student benefits include admission to all University athletic events and participation in intramural activities. All tuition, fees and other charges stated in this publication are payable in U.S. dollars (\$US). The following charges do not apply to graduate, doctoral or Summer Quarter courses. The fees for graduate, doctoral and summer courses are published in separate catalogs or bulletins.

### UNDERGRADUATE TUITION (Autumn 2002-Spring 2003)

Per quarter for courses numbered 0000-4999

1-11 credits, per credit .....	\$489
12-18 total credits .....	\$5,864
Additional per credit hour over 18 .....	\$489
Tuition for arranged courses .....	regular rates apply
Tuition for auditing courses .....	regular rates apply

### ADVANCE PAYMENTS

A \$200 advance payment is required from all students prior to registration. A full refund of the \$200 advance payment is available if the Office of Admissions receives the student's written request before July 1 for Autumn Quarter, or 30 days prior to the beginning date of subsequent quarters.

Students who apply for campus housing are also required to submit a \$300 room deposit along with their housing application. The deposit will be credited to the student account upon withdrawal from housing, provided the student has not damaged his or her room and has met cancellation deadlines (see Room and Meal Plan Cancellation Charges, page 27.)

### ADMINISTRATIVE, COURSE, STUDENT SERVICES, MEDICAL INSURANCE and OTHER SPECIAL PROGRAM FEES

(For specific classes with fees, refer to the 2002-2003 Time Schedule and/or revision listings.)

#### Administrative and Special Fees

Application fee .....	\$45
If received after deadline .....	\$60
Matriculation fee .....	\$50

A student who has been admitted to the University and subsequently registers for courses is considered a matriculated student. A matriculation fee of \$50 is assessed only once, at the time of an admitted student's initial registration. This fee covers the costs associated with maintaining students' academic files over the duration of their stay at Seattle Pacific. A student's academic file may contain admission records, transcripts and evaluations of the coursework from other institutions, academic appeals, graduation check sheet, etc.

Late registration fee .....	\$50
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Students may register for evening courses (courses beginning at 4:30 p.m. and later) through the first class session; however, a \$50 late enrollment fee is charged when registration is completed after the first week of the quarter. See the University Calendar for dates.

Official transcript fee .....	\$3
Teacher certification fee (paid to the state of Washington) .....	\$25
Technology fee, per quarter .....	\$30
This fee used to offer new software, upgrade classrooms and improve technology support to students, faculty and labs.	
Parking fee, per quarter .....	\$40
Emerson residents, per quarter .....	\$60

Any vehicle maintained, owned or operated by an SPU student or employee must be registered with the Office of Safety and Security if it is to be parked on SPU's campus, including city streets. Registration/application forms are available in the Security Office. Any changes in parking status must be reported to Security within 10 days of the change. You may call (206) 281-2922, or contact the office at [www.spu.edu/depts/security/parking/parking.html](http://www.spu.edu/depts/security/parking/parking.html). Parking refunds are calculated in accordance with the tuition refund policy. Please be aware that if you are completely withdrawing from the University, you must inform the Security Office to be eligible for a refund of your parking fees.

I.D. replacement card (for lost/stolen care) .....	\$20
I.D. replacement card (damaged) .....	\$8
Temporary ID replacement card .....	\$3
ACCESS program fee .....	\$300

#### Music

Individual instruction fee	
1000-2000 level (per credit) .....	\$125
3000-4000 level for majors only (1 or 2 credits) .....	\$125
Piano class instruction fee (two periods weekly), per quarter .....	\$75

Voice class instruction fee (two periods weekly), per quarter .....	\$75
Theory lab fee, per quarter .....	\$25

#### Nursing

Clinical practicum fee (selected courses), per credit hour .....	\$75
Comprehensive Testing Program .....	\$112
per year, junior and senior years (This fee includes an NCLEX review course.)	

#### Special Examination Fees

Credit by examination or challenge fees:	
Per-course examination fee .....	\$100
Per-credit-hour fee .....	\$40

#### Teacher Education

Internship fee, per quarter .....	\$75
Penalty for late changes of internship .....	\$70

#### Other Course Fees

Certain courses have additional costs associated with them such as skiing, mountain climbing, some psychology labs, music composition and math courses. These courses, with their applicable fees, are listed in the 2002-2003 Time Schedule and/or revision listings.

#### Medical Insurance Fees

The University Student Health Center offers basic medical services for students. To provide complete health care coverage, the University recommends that all students review their current plan to determine if their current insurance will cover them out of their home area. The University offers information on a medical insurance plan for accidents and illness, which is available to all enrolled undergraduate students (and their families). The University recommends this medical coverage to cover unanticipated expenses that could otherwise interrupt educational endeavors. Enrollment, benefit summary information and applications for this voluntary plan are available in the Student Health Center and in Student Financial Services.

All international students are required to enroll in the University International Student Insurance plan. Any exceptions to this requirement are subject to the approval of the Health Center. Proof of comparable coverage meeting the following requirements is necessary for waiver approval: (1) Provisions defined in English and premium rates in U.S. dollars; (2) coverage for all preexisting conditions within a reasonable period (the University plan has only a three-month waiting period); (3) inpatient and outpatient coverage for both illness and injury; (4) the deductible must not be in excess of \$500 per person, per policy year; (5) maternity benefits. Maternity benefits should be the same as benefits for illness. If they are not the same, the maternity benefit should meet all applicable, waiver standards (i.e., deductible, maximum benefit, etc.). (6) Coverage for inpatient and outpatient treatment of mental and nervous disorders; (7) maximum benefit of not less than \$50,000 per injury or per illness; (8) payment of benefits worldwide (exemption from coverage in an international student's home country is acceptable);

(9) benefit for medical evacuation to an international student's home country must not be less than \$10,000; (10) benefit for repatriation of remains to an international student's home country must not be less than \$7,500; (11) coverage for HIV, including acquired immune deficiency syndrome (AIDS), AIDS-related complex and positive HIV test; and (12) coverage effective dates matching the University's international student health insurance plan. Waivers may be obtained in the Student Health Center only and must be completed prior to the 10th day of the quarter to ensure appropriate coverage enrollment. Any changes in coverage (i.e., addition or deletion of spouse or child) must be submitted prior to the 10th day of the quarter.

### Student Services Fees

**Education placement files:** Teacher, school counseling and administrative placement file fees are paid every placement year (November-October) in which a file is actively used. Initial registration fee waived for interns the year they become certified.

Mailing credits for prepayment of first-class file mailings are as follows:

Teaching/school counseling placement files ..... \$6 per mailing (Excludes fax or special handling, which will incur additional costs.)  
Administrative placement files ..... \$11 per mailing (Excludes fax or special handling, which will incur additional costs.)

Re-activation fee: If a placement fee is not used during any given placement year(s), a reactivation fee of \$5 will be charged.

**Psychological testing** (administration, interpretation and counseling with regard to aptitude, skills, personality analysis and placement) based on actual costs of materials and scoring.

**Career testing** ..... variable

**Counseling Center services** (per session) ..... variable

### Student Health Center services

Residential students ..... fees included in room and meal plan charges  
Commuter students ..... \$15 per quarter on first visit  
Tests and pharmaceuticals ..... based on actual costs of materials, special procedures and equipment

### Senior Citizen Program

In keeping with the goal of service, SPU has a program that offers tuition-free courses to persons 65 years of age or older. Senior adults of this age bracket may attend on-campus undergraduate classes as auditors or for academic credit. They may take courses in special interest areas and/or complete a bachelor's degree. The only limitation to the program is the availability of space in particular classes. Registration for senior citizens who use this program commences on the second day of the quarter.

Those wishing to apply work toward a degree must formally apply to the Office of Admissions. Non-matriculated students need only register at Student Academic Services. The Senior Citizen Program does not cover course-related fees.

### Special Study Programs

Students enrolled in special study programs (e.g., European Quarter, Latin American Studies and American Studies) need to make special financial arrangements. As soon as students receive their study-tour packets from the faculty tour organizer, they should consult the study tour representative in Student Financial Services. The representative will work with the student to establish an appropriate payment schedule and determine if financial aid is in order so those students may meet the tour departure date. Study tours must be paid in full prior to departure.

### Room Charges, Per Year

#### Ashton, Hill and Moyer Residence Halls

(Requires purchase of Platinum, Gold, Silver, Bronze or Copper meal plan each quarter.)  
Double Room ..... \$3,516  
Triple Room ..... \$2,916

#### Emerson Residence Hall

(Requires purchase of Platinum, Gold, Silver, Bronze or Copper meal plan each quarter.)  
Single room - private bath ..... \$5,427  
Single room - shared bath ..... \$5,103  
Double room - private bath ..... \$4,779  
Double room - shared bath ..... \$4,455  
Triple/quad room - shared/private bath ..... \$4,131

#### Robbins Hall

(Requires minimum purchase of Robbins meal plan each quarter.)  
Two-person unit ..... \$4,605  
Four-person unit ..... \$3,882

### Campus Houses and Apartments (including Theme Housing)

(No meal plan requirement except for one Block 25 in Theme Housing.)  
One- or two-person unit ..... \$5,118  
Three- or more-person unit ..... \$4,200

### Meal Plan Charges, Per Year

Platinum ..... \$3,144  
Gold and copper ..... \$3,063  
Silver ..... \$2,883  
Bronze ..... \$2,826  
Robbins Meal Plan ..... \$600  
Block 50 (per block) ..... \$933  
Block 25 (per block) ..... \$516  
Advantage Points ..... Minimum \$25 purchase

\*Additional blocks and points may be purchased as needed.

Detailed descriptions of meal plans are mailed with both the housing application and contract, or call University Services at (206) 281-2188 for more information.

The dining hall, Crossroads at Gwinn Commons, provides service beginning with the evening meal the day residence halls open and ending with the evening meal of the last day of examinations. Access is dependent on the meal plan you select. There will be no refund or adjustment for meals missed during the week or on weekends. Meal service is not available during the Thanksgiving, Christmas, or Spring Break periods.

For more information regarding residence hall closures, refer to the *Residence Life Guidebook* (mailed with your housing contract), or call Residence Life at (206) 281-2043.

### Estimated University Expenses for 2002-2003 Undergraduate Full Time

	Per Quarter	Per Year
Tuition	\$5,864	\$17,592
Room and Board (traditional dormitories)	\$2,220	\$ 6,660
Textbooks, supplies and transportation, average cost	\$ 934	\$ 2,802
TOTAL	\$9,018	\$27,054

## Financial Arrangements and Services

### Registration

SPU uses the BANNER Information System to process registration materials and complete financial arrangements. After a student registers for classes via the Web or in Student Academic Services, the student is obligated to pay for the contracted services in accordance with the University's current schedule of charges. The registration contract between SPU and the student remains binding to both parties unless either party provides proper written notification (see also Refunds and Account Adjustments).

### Student Account System

A statement reflecting tuition and fee charges, payments and amounts due will be sent to the student's local address (in the Seattle area or on campus) each month. Student Financial Services will also mail a copy of the account statement to an additional address (such as the student's parent) at the student's written request. Due to federal regulations governing the disbursement dates of financial aid, some financial aid amounts may not be applied to student accounts prior to statement production. Therefore, students may need to use their Offer of Financial Assistance to determine the proper amount due on their student account. It remains the student's responsibility, however, to see that proper payment reaches Student Financial Services by the payment due date. If students need assistance determining the proper amount due they should contact Student Financial Services to talk with a representative.

Checks for the correct amount due should be made payable in U.S. dollars (\$US) to SEATTLE PACIFIC UNIVERSITY, and should include the student's name and student identification number. Such checks may be mailed to Seattle Pacific University, Student Financial Services, 3307 Third Ave. W, Seattle, WA 98119, or delivered in person. Students may phone, mail or fax their Visa or MasterCard payment, noting account number and expiration date.

## Payment Policies

Students may choose to meet their financial obligations in two ways: (1) payment in full by the payment in full due dates; or (2) the two-month payment option. **The student account must be paid in full to be able to register for subsequent quarters.**

### Payment in Full

Students may meet their financial obligations each quarter by paying in full by October 10 for Autumn Quarter, January 10 for Winter Quarter and April 10 for Spring Quarter. If payment in full is not received by these dates, the account will be subject to late charges.

### Two-Month Payment Option

Students who are not able to pay in full on the quarterly payment-in-full due dates may participate in the two-month payment option. If students choose this option, (students participating in study tours are not eligible for extended payment options), the total charges, after all financial aid\* is applied to the account, will be divided into two equal payments. The first payment is due on the payment-in-full due date listed above and the second payment is due the 10th of the following month. There is no formal application or application fee. However, a 1.25 percent monthly late charge will be assessed on the balanced owed after the payment-in-full due dates.

### Example of Payment Alternatives for Families

A student registers for a full course load (12-18 credits) for Autumn Quarter and lives in a University residence hall. The total balance is:

	Per Quarter
Tuition	\$5,864
Room and Meal Plan	\$2,220
Subtotal	\$8,084
Financial Aid*	-\$2,000
Balance Owed	\$6,084

### Payment Alternatives:

Payment in full ..... \$6,084 due October 10, 2001  
**OR**

Two-month payment option:  
\$6,084 ÷ 2 = \$3,042 due Oct. 10, 2002  
\$3,042 + \$38.03 (1.25% late charge for 30 days) = \$3,080.03 due November 11, 2002

\*Aid includes SPU scholarships and grants, Pell, SEOG grants and student loans. All other financial aid (e.g., work-study and Washington State Need Grants) cannot be used in the calculation of payments.

### Reimbursement Program/Third Party Billing

Students whose tuition is reimbursed by their employer or a third party (such as an embassy) may be eligible for this program. Documentation confirming enrollment in an employer reimbursement program is required annually and allows deferment of tuition up to approximately 30 days after the quarter ends. If a third party is involved, the University will bill the third party directly, provided Student Financial Services has been given the appropriate documents. All other fees and

charges are due when billed. Call Student Financial Services for more details.

Students participating in the Boeing Tuition Voucher Program are subject to approval by the Boeing Company. Once the employee is approved, Boeing will send a list of all approved students to Student Financial Services. This information authorizes Seattle Pacific University to bill the company for the student's tuition and tuition related fees only. Until the student is approved by the Boeing Co. for participation in their employee reimbursement program, the student will receive monthly account statements and be responsible for all charges. Once the process has been completed the tuition charges will be paid on the student's account. The student will continue to receive a monthly statement if he or she has incurred fees not covered by Boeing. Fees not covered include, but are not limited to, late registration, add/drop, entrance exams, room and/or board, parking, books, tools, software and activity fees. For more information about this program, contact Student Financial Services at (206) 281-2061

### Late Charges

A late charge (15 percent per annum, 1.25 percent per month) will be assessed against any owing balance shown on the student's last statement of account.

### Unpaid Student Charges

A student who has delinquent financial obligations will not be permitted to register or attend classes for subsequent quarters, or order official transcripts until such obligations have been satisfied. The University reserves the right to deny enrollment, including advance registration or extension of credit, to any student who does not meet past-due obligations or fulfill financial commitments to the University.

A continued failure to meet financial obligations may result in the referral of the delinquent account to an outside agency for collection of the total amount due, plus all applicable collection costs.

### Late Registration Charges

A late registration fee of \$50 is charged if a student adds a course to his or her schedule of classes in Student Academic Services after the first week of the quarter (refer to the University Calendar for specific dates). Students may register for evening courses (courses beginning 4:30 p.m. and later) through 5 p.m. on the fifth day of the quarter.

### Registration Petitions

Registration petitions are requests for exceptions to regular policies and procedures. Exceptions are not granted to supercede policies and procedures because of an inconvenience. The petition process provides students and faculty with the possibility of a response outside the normal bounds of policy when extenuating circumstances are judged to warrant such a response. Extenuating circumstances include illness, injury, death in the family and problems with immigration. The petition must not only voice the request, but must also substantiate the validity of the request.

Petition forms are available on the forms rack in the Demaray lobby (first floor). Instructions for completing this

process are listed on the back of the petition. A student seeking late registration must seek permission from the instructor to sit in the class while the petition is pending. In all cases, the final decision to approve or deny a petition will be made by Student Academic Services. Each approved petition will incur a \$50 late registration fee.

### Credit Balances

The student, along with the presentation of an SPU ID card or other picture ID, must request withdrawals of credit balances from his or her account in writing. To allow adequate processing time, withdrawal of credit balances will take 24 hours from date of request. Credit Balance Check Request forms are available in Student Financial Services or on the Web at [www.spu.edu/sfs](http://www.spu.edu/sfs). Mail credit balance withdrawal requests to Seattle Pacific University, Student Financial Services, 3307 Third Ave. W, Seattle, WA 98119, or fax request to (206) 281-2835. The request must include the student identification number and signature.

### Banking Services

Commercial banking services are conveniently available to students. Credit Union Northwest is located across from First Free Methodist Church, and US Bank is located on campus adjacent to the University's bookstore. There are also three cash machines available on campus. One is located outside of the US Bank, another in the Student Union Building and the third is located in the Weter Hall Foyer.

## Refunds and Account Adjustments

If a student decides to add or drop courses, withdraw from school or delete other contracted services, an official change of registration must be processed. This may be handled by filing the change of registration form in Student Academic Services or on the SPU home page using the BANNER Information System via the Web. If a complete withdrawal is contemplated, and/or if the student plans to cancel the Room and Meal Plan contract, proper notification must also be provided to the Office of University Services.

If a student does not provide proper written notification to the University or on the SPU home page using the BANNER Information System via the Web, financial obligations will remain binding, regardless of whether classes were attended or whether or not any of the contracted services were utilized.

Refunds or additional charges for courses are posted to a student's account when the official change of registration form is received and processed or the transaction is completed using the BANNER Information System via the Web. Charges for added courses are made at the full quarter's rate, regardless of when the course is added.

In the event that enrollment changes result in a refund, tuition will be refunded according to the schedule that follows. If the refund results in a credit balance on the account, the student may obtain a check by submitting a written request to Student Financial Services. If there is an owing balance on the account, the refund will first be applied against the owing balance. Any questions regarding tuition refunds should be referred to Student Financial Services.

## Schedule of Tuition Refunds for Day and Evening Classes

(A week is defined as five business days beginning on the first day of each quarter.)

First week of the quarter .....	100%
Second week of the quarter .....	75%
Third week of the quarter .....	50%
Fourth and fifth week of the quarter .....	25%
Sixth and following weeks of the quarter .....	-0-

### Examples: Tuition Refunds and Adjustments

- A student who was originally enrolled for 15 credits drops one 3-credit course the third week of class. There is no tuition adjustment, since the fee for 12 credits is the same as 15.
- A student who was originally enrolled for 13 credits drops one 3-credit course the second week of class. The refund is as follows:
 

Full tuition (13 credits) .....	\$5,864
Tuition for 10 credits (\$489 x 10) .....	\$4,890
Difference .....	\$974
75 percent refund .....	\$730.50
Tuition due on dropped course .....	\$243.50
- Assume the above student drops a 5-credit course the second week of class. The refund is as follows:
 

Full tuition (13 credits) .....	\$5,864
Tuition for 8 credits (\$489 x 8) .....	\$3,912
Difference .....	\$1,952
75 percent refund .....	\$1,464
Tuition due on dropped course .....	\$488
- A student who was originally enrolled for 11 credits drops 2 credits and at the same time adds 3 credits during the second week of class. The result is as follows:
 

Old level - 11 credits (\$489 x 11) .....	\$5,379
New level - 12 credits .....	\$5,864
Additional due .....	\$485
- Assume the same facts as in (4) above, but done on separate days:
 

Drop 2 credits (from 11 to 9)	
Refund = 75 percent of \$489 x 2 .....	\$733
Add 3 credits (from 9 to 12)	
12 credits = .....	\$5,864
9 x \$489 = .....	\$4,401
Additional due .....	\$1,463
- A student completely withdraws from all courses in the second week:
 

(Full tuition 13 credits) .....	\$5,864
75 percent refund .....	\$4,398
Student owes .....	\$1,466

### Effect on Financial Aid

Dropping courses may affect a student's current and continued eligibility for financial aid. Please refer to the Satisfactory Progress section under Financial Aid. It is recommended that a student discuss the impact of dropping below 12 credits with their Student Financial Services counselor prior to completing the drop or withdrawal process.

## Complete Withdrawal

If, during a quarter, a student who receives financial aid completely withdraws from the University, the tuition refund is calculated as described above. However, if the student received, or was entitled to receive, any Title IV funds, the return of the Title IV funds will be calculated by determining the percentage earned and applying this percentage to the total amount of Title IV assistance disbursed (and that could have been disbursed) to the student for the period of enrollment as of the student's withdrawal date. The percentage of Title IV funds earned is equal to the percentage of the period of enrollment that the student completed as of the withdrawal date if it occurs on or before the completion of 60 percent of the period of enrollment. The percentage of Title IV funds that have not been earned by the student is determined by taking the complement of the percentage of Title IV funds earned. The unearned Title IV funds will be returned to financial aid sources based on federal guidelines in the following order: unsubsidized federal Stafford loan; subsidized federal Stafford loan; federal Perkins loan; federal PLUS loan; federal Pell grant; federal SEOG; other Title IV Aid programs; other federal, state, private or institutional aid; the student.

### Drop in Credits

If a student who receives financial aid drops courses to below a 12-credit load during a given quarter, a reassessment of the financial aid award will be made for that quarter. This may affect the amount actually credited to the student account. Contact a student financial services counselor for further information.

### Room and Meal Plan Cancellation Charges

New students who cancel their housing application will forfeit their room deposit after July 1 for Autumn Quarter, after December 1 for Winter Quarter and after March 1 for Spring Quarter.

Continuing students who reserve Autumn Quarter housing during the spring sign-up process will forfeit their deposit if they cancel their reservation. For Winter and Spring Quarters, continuing students must cancel their contract 30 days prior to the beginning of the quarter to avoid a cancellation charge.

### Room and Meal Plan Refunds

Students who withdraw from University housing will forfeit their room deposit and will receive a refund of their room and meal plan charges based on the date they sign their check-out form, according to the following schedule:

Withdrawal prior to midnight on the <b>first day</b> of classes .....	100%
Withdrawal during the <b>first</b> week of the quarter* .....	90%
Withdrawal during the <b>second</b> week of the quarter .....	75%
Withdrawal during the <b>third</b> week of the quarter .....	50%
Withdrawal during the <b>fourth</b> and <b>fifth</b> week of the quarter .....	25%
Withdrawal during and following the <b>sixth</b> week of the quarter .....	0%

\*The first week of the quarter begins after the first day of classes and ends at midnight on the following Monday.



## Financial Aid

Seattle Pacific University is pleased to work with students and parents in meeting educational costs. Scholarship programs, grants, loans and employment opportunities are available at SPU to supplement families' financial resources for students who could not otherwise attend.

### Guidelines

For need-based financial assistance, the contribution toward college costs expected from the student and his or her parents is calculated according to a federally mandated system called federal need analysis, which takes into account many factors representing the family's financial situation. To the extent funds are available, the University will supplement the amount expected from the family with scholarships, grants, loans or employment (singly or in various combinations) up to the amount of the student's documented financial need. (Please note: Only federal funds are available for the Organizational Behavior Degree Completion Program). The amount and source of assistance will be determined on the basis of available funding, the type of degree and eligibility criteria for the various financial aid programs. To receive financial aid, a student must be enrolled for a minimum of 6 credits (courses numbered 0100-4999) per term in a program leading to an undergraduate degree or teacher certification from SPU. Media courses and courses numbered 5000-5999 are not eligible. Full-time enrollment (12 credits per quarter) is required for scholarship eligibility.

### Application Process

To apply for need-based financial aid through SPU, the student must:

1. Complete the admissions process and be admitted to the University.
2. Complete the Free Application for Student Aid (FAFSA) and mail it to the central processor. The FAFSA may be completed via paper (a form can be obtained at a secondary school or a college financial aid office), or via the Web at [www.fafsa.ed.gov](http://www.fafsa.ed.gov).

If requested to do so, the student and his or her family must also provide additional documentation required to verify eligibility. The student must reapply for financial aid by completing a FAFSA each year.

To apply for scholarships through SPU, the student must complete the admissions process, as the admission application also serves as the scholarship application.

### Application Deadlines

SPU does not have a deadline for the financial aid application. However, since funding for most programs is limited and applications are processed in the order of their completion, it is to the student's advantage to apply as early as possible. It is recommended that the FAFSA be processed as soon as possible after January 1 and that the student complete the admission process as soon after October 1 as possible.

To be considered for SPU Merit Scholarships, all application materials must be received by March 1 for high school students and by April 15 for transfer students.

### The Financial Aid Offer

Generally, students qualifying for financial aid receive a financial aid package containing one or more of the following types of aid: grants, scholarships, loans and student employment. (Please note: Only federal funds are available for the Organizational Behavior Degree Completion Program). The proportion of each type of aid varies from student to student and year to year depending upon student eligibility, the amount of funds available in the various programs, and the type of degree. The student must validate acceptance of the financial aid offer by returning the signed Offer of Financial Assistance by the specified deadline.

### Disbursement of Financial Aid

Once a student has completed the financial aid application/award process, has fulfilled all the requirements listed on the student's Offer of Financial Assistance, and is enrolled for the required number of credits, grants and loans are disbursed by Student Financial Services 10 days prior to the start of the term. Financial aid, with the exception of earnings from employment, and grants and scholarships funded by the state, will be applied to the student's tuition and room and board account in four ways:

1. SPU grants and scholarships, federal Pell grant, and federal SEOG: This aid is automatically applied to the student's account.
2. Federal Perkins loans, nursing loans and SPU undergraduate loans: Once the student has filled out the necessary papers and signed the promissory note, the loans may be applied to his or her account.
3. Federal Stafford loan (subsidized and unsubsidized): Once the student has notified Student Financial Services of his or her choice of a lender, the lender will be contacted to send the student a master promissory note. Upon completion and return of the master promissory note to the lender, the bank will send the funds to SPU in one of two ways. If the bank participates in electronic funds transfer, the funds will be automatically applied to the student's account. If the bank does not participate in electronic funds transfer, it will send a check each quarter that the student will need to endorse in Student Financial Services. Continuing students who have already signed a master promissory note in a previous year will not need to complete another loan application. Instead, loan information will be automatically sent to the lender the student used previously. Loan funds will either be applied to the student's account via electronic funds or a check will need to be endorsed by the student, depending on which process the student's lender uses.
4. Washington State Need Grant, Educational Opportunity Grant (EOG), Washington Promise Scholarships and Washington Award for Vocational Excellence (WAVE) scholarships are disbursed via check, and are available for the student to pick up in Student Financial Services on or after the first day of the quarter.

The remaining balance due on a student's account can be paid from student employment, summer savings, parent contribution (if a dependent) and other resources.

## Satisfactory Progress

To remain eligible for financial assistance, a student is expected to complete his or her degree within a specified period of time and maintain a minimum GPA. In addition, the student must complete a minimum number of credits each academic term.

### Minimum Grade Point Average

A financial aid recipient must be in good academic standing at the University. At the completion of the second year of study the student must have a cumulative 2.0 GPA to remain eligible for Title IV funding. (Please note: A higher minimum GPA may be required for scholarship recipients. Please refer to the Scholarship/Grant section of the *Catalog* for specific renewal criteria). Students who do not achieve a 2.0 cumulative GPA will be ineligible for further financial assistance until the cumulative GPA is achieved.

### Minimum Credit Requirement

First-time financial aid applicants will have their previous academic record measured for satisfactory completion of 80 percent of the credit hours attempted at SPU. Students averaging 80 percent satisfactory completion of credits attempted will be eligible to be considered for financial aid. Current financial aid recipients must satisfactorily complete a minimum of 80 percent of all attempted credit hours each academic year. For normal academic progress, full-time undergraduate students are expected to complete an average 12 credits per quarter. At this rate, a student is expected to complete an undergraduate degree in five years. Part-time students enrolled in an undergraduate degree or certificate granting program must complete a minimum of 6 credits per quarter or 80 percent of attempted credits, whichever is greater. The calculated percentage will be rounded up to the nearest full credit hour. Completed credits are defined as coursework that has received a grade of A, B, C, D or P at the end of the academic term.

### Maximum Time Frame

A student receiving financial aid must complete a degree within a reasonable period of time. Financial aid will be awarded to students in an eligible undergraduate program for a maximum of 270 total attempted credit hours, including transfer credits accepted toward the degree.

### Consequences of Unsatisfactory Progress

A student who completed 6 or more credits each quarter, but less than 80 percent of attempted credits each academic year, will be placed on financial-aid probation during the subsequent quarter of attendance. During the quarter of probation, the student will be eligible to receive financial aid and must complete all attempted credits to have the probation status removed. If the student does not complete all attempted credits, the student will be ineligible for further financial assistance until enough credits have been completed to bring the student back into compliance with SPU's satisfactory progress requirements.

A student who completes less than 6 credits in any quarter will be ineligible for further financial assistance. To regain eligibility for financial assistance the student must

complete a minimum of 6 credits in a term. These credits may be taken at another institution and transferred to SPU or may be taken at SPU without receiving aid.

### Petitions for Reinstatement of Eligibility

Students have the right to appeal their eligibility for financial aid. Written appeals due to extenuating circumstances should be submitted to the student's financial services counselor. Please note that some financial aid programs may have criteria that vary from the above-stated progress standards. Detailed information about these programs is included in the Financial Aid Guide provided to all students along with the Offer of Financial Assistance.

### Return of Funds

In the event that students leave school during a quarter for which they have received financial aid, all or part of the funds that have been disbursed may have to be repaid. The amount of the repayment will be determined according to the length of time the student was in school. See the Refunds and Account Adjustments section of the *Catalog* for details.

### Veterans' Benefits

Seattle Pacific University's academic programs of study are approved by the Higher Education Coordinating Board's State Approving Agency (HECB/SAA) for enrollment of persons eligible to receive educational benefits under Title 38 and Title 10, U.S. Code. To obtain information on these benefits, contact the veteran's coordinator in Student Academic Services.

## Kinds of Aid

University funded scholarships and grants are not available during Summer Quarter. In some cases federal programs are available.

### Scholarships/Grants

Unless otherwise stated, scholarships and grants are available only to students pursuing a first undergraduate degree (Please note: Students enrolled in the Organizational Behavior Degree Completion Program are eligible for only federal funds). Full-time enrollment (12 credits per quarter) is required for scholarship eligibility. Complete information about these programs is available in Student Financial Services.

**Seattle Pacific University Merit Fellowships** are awarded to entering freshmen selected on the basis of demonstrated exceptional academic ability and have been identified as National Merit semi-finalists or finalists. Renewable for consecutive years through fourth-year senior status based on maintaining a 3.25 cumulative GPA and full-time, continuous enrollment. Recipients are required to live in University housing.

**Seattle Pacific University Free Methodist Scholar Awards** are awarded to entering freshman based on demonstrated church, school and community involvement; and affiliation with the Free Methodist Church from one of the supporting conferences. Renewable for consecutive years through fourth-year senior status based on maintaining a 3.0 cumulative GPA and full-time, continuous enrollment.

**Trustee's Scholar Awards** are awarded to entering freshmen on the basis of academic excellence and leadership potential demonstrated through school, church and community involvement. Renewable for consecutive years through fourth-year senior status based on maintaining a 3.0 cumulative GPA and full-time, continuous enrollment.

**ROTC Academic Achievement Awards** are awarded to selected students who are awarded an Air Force or Army ROTC academic scholarship. Contact Student Financial Services for application procedures. Renewable for consecutive years through fourth-year senior status based on maintaining a 3.0 cumulative GPA and full-time, continuous enrollment. Recipients are required to live in University housing.

**President's Scholar Awards** are awarded to entering freshmen and transfer students based on academic excellence and leadership potential demonstrated through school, church and community involvement. Renewable for consecutive years through fourth-year senior status based on maintaining a 3.0 cumulative GPA and full-time, continuous enrollment.

**Provost's Scholar Awards** are awarded to entering freshmen and transfers based on outstanding academic achievement and leadership potential demonstrated through school, church and community involvement. Renewable for consecutive years through fourth-year senior status based on maintaining a 3.0 cumulative GPA and full-time, continuous enrollment.

**Phi Theta Kappa Transfer Scholarship** is awarded for academic excellence to an entering transfer student who has earned an associate of arts degree. Only one new award is given per year. Renewable for one additional year based on maintenance of a 3.0 cumulative GPA and full-time, continuous enrollment.

**Dean's Scholar Awards** are awarded to entering freshmen and transfers based on academic achievement and leadership potential demonstrated through school, church and community involvement. Renewable for consecutive years through fourth-year senior status based on maintaining a 2.6 cumulative GPA and full-time, continuous enrollment.

**Valedictorian Scholarships** are awarded to entering freshmen. To receive this award Student Financial Services must receive a letter from the student's secondary school confirming valedictorian status. Letters must be received by the first day of Autumn Quarter. Not renewable.

**Washington Scholar Awards** are available to students who have been designated as Washington scholars by the Washington State Higher Education Coordinating Board. Renewable.

**Washington Promise Scholarships** are available to students who have been designated as Washington Promise recipients by the Washington State Higher Education Coordinating Board. Renewable. For more information, please see [www.hecb.wa.gov](http://www.hecb.wa.gov).

**Faculty/Staff Scholarships** are funded by donations from employees of SPU and are awarded to continuing students. The fund supports school scholarships and recognizes outstanding students in each of the academic disciplines.

**Fine and Performing Arts Scholarships** are awarded on a competitive basis to students who have demonstrated outstanding musical, dramatic and artistic talent. Contact the Fine Arts Department for further information.

**Peer Adviser Scholarships** are awarded to continuing students selected through a competitive selection process. Application is made through the Office of Residence Life.

**Performing Ministries Scholarships** are awarded to students who participate in the SPU Unlimited or University Players. Auditions are presented before the fine arts faculty and University Advancement.

**Athletic Scholarships** are awarded to students who have demonstrated outstanding ability in men's and women's soccer, women's gymnastics and volleyball, women's and men's basketball, cross country and track. Contact the Athletic Office for further information.

**Ministerial Scholarships** are awarded to full-time, undergraduate dependents of full-time, ordained practicing pastors or missionaries from the United States or Canada. Renewable through fourth-year senior status based on the student continuing to be classified as dependent.

**SPU Alumni Scholarships** are awarded to full-time, dependent, undergraduate children of Seattle Pacific University graduates. Renewable through fourth year senior status based on the student continuing to be classified as dependent.

**Ministerial Tuition Discounts** are available to full-time, ordained, practicing pastors or missionaries who are pursuing studies to enhance their ministry. Contact Student Financial Services for application information.

**Health Professional Scholars.** This state-funded program provides scholarships for students who have declared their intent to serve in a nursing shortage area in the state of Washington. Applications are available in the School of Health Sciences.

**SPU-Church Matching Scholarships** are awarded to students who are chosen by a scholarship committee within an organized Christian church in the United States or Canada. Churches must be approved by Student Financial Services and must provide that office with a letter of confirmation for each scholarship awarded by October 11. Contact Student Financial Services for further information.

**Minority Church Partnership Awards** provide matching scholarships to students who receive a scholarship from selected minority churches in the greater Seattle area. Complete information about this program is available in the Intercultural Programs Office.

**International Student Scholarships** are available in limited amounts. Contact the Intercultural Programs Office for further information.

**Seattle Pacific University Grants** are awarded to undergraduate students on the basis of financial need, as established by a processed FAFSA.

**Federal Pell Grants** provide grants to qualified undergraduate students from moderate-to-low income families, as determined by a processed FAFSA.

**Federal Supplemental Educational Opportunity Grant (SEOG)** provides funds to the University for grants to students with financial need as determined by a processed FAFSA.

**Washington State Need Grant (WSNG)** provides financial assistance to students enrolled at least half-time who are Washington residents and have high financial need. Student Financial Services will nominate eligible students to the Washington State Higher Education Coordinating Board and will notify those who qualify. School of Theology majors or minors are not eligible. A processed FAFSA is required and awards are made as funds are available.

### Other Scholarship Funds

A number of scholarship funds have been established by interested individuals and groups for use by the University in its financial aid program. Unless otherwise noted, for priority consideration new students must be admitted to the University by March 1 and have filed all necessary application materials by that date. Continuing students must file scholarship applications by December 1. Questions regarding specific application deadlines and details can be directed to Student Financial Services.

Arthur Andersen and Company Merit Award  
Sophie Anderson Trust Fund  
Katherine Ansart Scholarship  
Harry and Lois Ansted Scholarship  
Philip Ashton Scholarship  
Burton Beegle Scholarship  
Lowell Berry Memorial Scholarship  
Harold and Lois Best Scholarship  
Tony and Thelma Bettencourt Scholarships  
Ned Bohrer Memorial Scholarship  
Laura R. Boye Memorial Scholarship  
Blair Missions Scholarship  
Laura R. Boye Memorial Scholarship  
Brohamer Nursing Scholarship  
Robert W. Burwell Engineering Scholarships  
Callen Missions Scholarship  
Carpenter Scholarship  
Cascade College Alumni Scholarship  
Robert L. and Dorothy L. Crane Nursing Scholarship  
Causey Biology Scholarship  
Causey Theatre Scholarship  
Chapman-Stewart Scholarship  
James and Joyce Chapman Theatre Scholarship  
Ben Cheney Scholarship  
Chevron, USA Merit Award  
Chinn Memorial Scholarship  
Cochrane Scholarship  
Custom Business Systems, Inc., Scholarship  
Deffenbaugh Electrical Engineering Scholarship  
Trina Marie Deffenbaugh Nursing Scholarship  
C. Dorr Demaray Scholarship  
Deshazer Scholarship  
Dietzman Scholarship  
Kim Drone Scholarship  
Winifred Rhoades Emmanuel Music Scholarship  
Ethnic Diversity Scholarship  
Falcon Athletic Scholarship  
Farmers Insurance Group Scholarship  
Charles Fogg Scholarship  
C. Melvin Foreman Scholarship  
Charles and Pearl Foster Scholarship  
Clayton E. Gibson Scholarship  
Bertha Gilbertson Music Scholarship  
Gjerding Scholarship  
Roy Glancy Athletic Scholarship  
Glaser Foundation Disabled Student Scholarship

Lydia Green Nursing Scholarship  
Dennis Guernsey Scholarship  
Crete Hammersla Scholarship  
Habegger Basketball Scholarship  
Jean Allen Hanawalt Scholarship  
Mitsuko Hara Nursing Scholarship  
Haslam Family Christian Ministry Scholarship  
Robert Hayes Memorial Ministerial Fund  
Hearst Scholarship  
Walter and Esther Hiesel Free Methodist Ministry Scholarship  
James A. Hemry Memorial Scholarship  
Doris Heritage Cross Country/Track Scholarships  
Higbee-Whitaker Scholarship  
Home Economics Alumni Scholarship  
Hughes-Ets Memorial Scholarship  
James Hurd Scholarship  
Hutchinson Memorial Scholarship  
Irwin Engineering Scholarship  
Larry Issak Scholarship  
Dora E. Jensen Scholarship  
Dorothy Kennedy Scholarship  
Kirkpatrick Scholarship  
Sarah Louise Knight-Wimpy Scholarship  
Kreider Home Economics Scholarship  
Michael K. Lake Classical Guitar Scholarship  
Arthur and Gloria E. Langer Scholarships  
Harriet and Winifred Leighton Music Scholarships  
Le Master Nursing Scholarship  
Lemcio-Philipchuk Scholarship  
Lesser Nursing Scholarship  
Lindstrom Scholarship  
Catherine Loomis Scholarship  
Dorothy Lucas Scholarship  
Margaret McCarty Scholarship  
McClurg Vocal Performance Scholarship  
David L. McKenna Scholarship  
McNeese Athletic Scholarship  
Donald and Lydia McNichols Humanities Scholarship  
Alice C. Marston Scholarship  
Merrick Scholarships  
Otto M. Miller Physics Scholarship  
Philip Mack Music Scholarship  
Milliken Teachers Scholarship  
Ross D. and Adeline S. Mills Scholarship  
Minority Student Leadership Scholarship  
Morgan Engineering Scholarship  
Burton Moyer Scholarship  
Mu Phi Epsilon Scholarship  
Native American Youth Scholarship  
Lloyd E. Northrup Jewish Student Scholarships  
Northrup Scholarship  
Nursing Leadership Scholarship  
Professional Nurses Traineeship Grants  
Harold and Alba Overland Scholarship  
Peat-Marwick Scholarship  
Earl Phillips Scholarship  
Ellen Joyce Pinnt Religion Scholarship  
QFC Coca Cola Scholarship  
Anabelle Ansar and Rapp Scholarship  
Rearick Theatre Scholarship  
Registered Nurses Scholarship  
Catherine M. Richey Memorial Scholarship  
Richards Teacher Education Scholarship  
Robichaud Scholarship  
Clifford E. Roloff History Scholarships  
Rosser-Danielson Speech Scholarship  
Lawrence R. Schoenhals Music Scholarship  
Mildred M. Schoenhals Music Scholarship  
Seattle Federation of Women Scholarship

Sigma Rho Scholarship  
 Sheard Alumni Falconette Scholarship  
 Ken Smith, Sr. Computer Science Scholarship  
 Marge Snyder Memorial Nursing Scholarships  
 Sternberg Athletic Scholarship  
 Stundon Memorial Fund  
 Margaret Sutton Scholarships  
 Roy Swanstrom Centurion Scholarship  
 Robert L. Taylor Memorial Scholarship  
 Alfred A. Thorn World Missions Scholarship  
 V.W. Thuesen Trust Fund  
 Tollefson Minority Scholarship  
 Vereide Memorial Scholarship  
 Walters Nursing Scholarship  
 Washington Auto Dealer Scholarship  
 Washington Mutual Scholarship  
 Robert L. and Buelah N. Whitlow Scholarship  
 Wimpy Scholarship  
 Howard M. Winegarden Engineering Scholarship

## Loans

**Federal Perkins Loan.** This program combines funds from the U.S. Department of Education and SPU. The loan fund is limited and targets the neediest students. The borrower must satisfy eligibility requirements as established by the U.S. Department of Education, and demonstrate financial need. Perkins Loans carry a simple interest rate of 5 percent and are repayable over a period of 10 years following graduation or dropping below a half-time credit load, or withdrawing from school. No interest is charged while students are in school and during a nine-month grace period thereafter.

**Nursing Student Loan Program.** Nursing students with at least sophomore standing may be eligible for loans to assist in meeting their educational expenses. Loans carry a simple interest rate of 5 percent and are repayable over a 10-year period, beginning nine months after completion of the course of study, or dropping below half-time credit load or withdrawing from school. No interest is charged while students are in school and during a nine-month grace period thereafter.

**Federal Stafford Loans** (subsidized and unsubsidized). These loans are made through banks, savings and loan associations, and credit unions. Any student is eligible to apply who satisfies the eligibility requirements as established by the U.S. Department of Education. The federal Stafford loan interest rate varies depending on when the student borrows the funds and when he or she enters repayment. Payment terms may also vary; students are encouraged to check with their lenders. No interest is charged while students are in school and during a six-month grace period thereafter for subsidized loans. Interest begins accruing immediately on the unsubsidized loans. Students may also obtain deferment of payment for service under the Peace Corp Act, service under the Domestic Volunteer Service Act of 1973 or comparable service as a volunteer for a tax-exempt organization of demonstrated effectiveness in the field of community service. For further information regarding these types of deferments, students must contact their lenders.

**Parent Loan for Undergraduate Students (PLUS).** Parents of dependent undergraduates can borrow money through lenders to help supplement educational costs. The

PLUS Loan has a variable interest rate not to exceed 9 percent annually. Arrangements can be made with some lenders to have payments deferred. Contact Student Financial Services for more information.

**SPU Undergraduate Student Loan Program.** This program, sponsored by SPU, was created to provide assistance to needy students. Specific information about the program, student eligibility criteria, and application forms are available in Student Financial Services.

**Emergency Short Term Loan Funds.** Loan funds exist from which, under emergency conditions, limited amounts of money may be borrowed for up to 30 days. Application forms are available in Student Financial Services.

## Employment Opportunities

The University supports a strong student employment program through which it provides information regarding part-time employment opportunities. This job service is available to all SPU students, regardless of financial aid eligibility.

All part-time employment opportunities are posted outside Student Financial Services. On-campus, community service and state work-study jobs are posted on the SPU Web page at [www.spu.edu/studentjobs](http://www.spu.edu/studentjobs). Once employed, students will complete time sheets and receive payment from the Student Payroll Office if they work on campus or directly from their employer if they work off campus. It is the student's responsibility to make payment on his or her student account from these funds if needed.

There are four different types of student employment:

**On-Campus Employment.** There are several hundred jobs available on campus for SPU students. All of these positions are available for students enrolled in 6 credits or more, regardless of their financial aid eligibility. For those students who have been awarded work-study, they will be paid out of work-study funds. For those students who have not applied for financial aid, or who have not been awarded work-study, they will be paid from non-work-study funds. Therefore, any on campus job is available to any student and Student Financial Services will determine, after the student is hired, if the job should be classified as a work-study or as a non-work-study job.

**Community Service Employment, Off Campus.** These jobs are designed to assist our local community. Current positions are targeted to help at-risk youth, the homeless and the elderly. There are a limited number of positions available through this program and the student must have applied for financial aid and been awarded work-study.

**State Work-Study Employment, Off Campus.** Students must have applied for financial aid and been awarded work-study to be employed in the state work-study program. This program is sponsored by the state of Washington, and the participating employers are reimbursed by the state for a portion of the wages they pay for employing work-study students. Please note theology majors and minors are not eligible for the state work-study program.

**Off-Campus Employment, Regular Part-Time Jobs.** There are many part-time jobs from local employers posted on the Job Board outside Student Financial Services. These jobs are available for any SPU student regardless of financial aid eligibility.

# Student Life



# Student Life

A complete understanding of education recognizes that learning occurs both in and out of the classroom. Seattle Pacific University seeks to graduate people of competence and character who can lead the way for meaningful change in our world. Together with students, faculty and staff, the Office of Student Life (OSL) strives to unite learning and living in a grace-filled community as we seek the uncommon path to a good life as described below:

- A life that harmonizes mind with heart, reflection with action, scholarship with celebration, and our own needs with the welfare of others.
- A life of wisdom that transforms ourselves, our students, our neighbors and our world.
- A life restored to wholeness by the grace of a loving God.

## Administrative Structure

### Associate Vice President of Academic Affairs/Dean of Student Life

The Office of Student Life is dedicated to enhancing a vital campus community through dynamic curricular and co-curricular opportunities. To unite these functions, Student Life oversees the co-curricular education of students in partnership with academic life and reports directly to the Office of Academic Affairs. To further strengthen this relationship, the dean of student life serves as associate vice president of academic affairs, providing a liaison between academic work under the vice president of academic affairs and various campus life programs. In addition to managing all the units that comprise Student Life, the dean of student life acts as ombudsperson to all students to assist in resolving problems. The dean also works with the University's chief judicial officer in the matter of community standards and expectations, discipline issues and appeals.

## Ombudsperson

The service of an ombudsperson is available to all students to assist in the resolution of problems and to enable the Seattle Pacific University community to better meet students' needs. Working together with University staff and the student, the

ombudsperson seeks to expedite communication to solve problems. The individuals serving in this role at the University are the associate vice president of academic affairs/dean of student life and the dean of enrollment management.

Upon request, the student is apprised of the appropriate process to appeal within any office or area of the University. To appeal a decision to an ombudsperson, a student must first complete the office or area process of appeal. This process is typically a written appeal to the department head, the director or an appeals committee within the office or area.

If the student is not satisfied that his or her interests were properly served by the area appeal process, an appeal may be brought to an ombudsperson for final review. The appeal should include all information that was submitted through the area appeal process. The ombudsperson will review the written materials and discuss the appeal with the director or department head involved with the student.

The decision of an ombudsperson will be communicated in writing to the student within two working days. A copy of the letter will be sent to the department head or area director. The decision of an ombudsperson is final.

## Student Programs

Becoming involved as a student is an essential element for success in college. Student Programs is committed to helping Seattle Pacific University students maximize their educational experience through a full spectrum of opportunities and programs.

### Student Leadership

Seattle Pacific University is recognized for its quality of student leaders and leadership programs. Our programs help students identify personal abilities and foster a supportive environment in which they can be utilized. Working in close coordination with the Associated Students of Seattle Pacific (ASSP), we offer classes and a diversity of leadership activities. Specific programs include various clubs and organizations, leadership practicum, the Student Activities Board (STUB), student publications and the Student Senate. Student Programs desires to contribute to the leadership skills of all students, whether you are in a specific position of leadership or simply want to develop your leadership potential.

### Intercultural Programs

In the 21st century, a new kind of global, urban, multicultural world is coming into being in which people from increasingly diverse cultures and faiths must learn to work together to thrive in peace. The diversity of the church is also being recognized, as Christians from developing countries now outnumber those from the Western world. To prepare students to lead and serve in this new world, Intercultural Programs seeks to do the following:

- Provide support services for ethnic minority and international students.

- Promote and facilitate student opportunities for off-campus study in other cultural settings.
- Create experiences designed to build community between students from a variety of backgrounds.

### New Student Orientation

Student Programs plans and implements each year's New Student Orientation. Orientation is designed to welcome new students, both first-year and transfer students, to the SPU community and help them make a successful transition into Seattle Pacific's learning community.

### Information Services

Uni-Com is a campus information and service desk located on the first floor of the Student Union Building (the "SUB"). SPU students are employed to provide various services including directing phone calls; welcoming visitors; assisting with vending machines; issuing bus, swim and Seattle Art Museum passes; and managing the lost-and-found.

Student Programs also assists in the coordination of the University Master Calendar to ensure concerted programming across campus. Current campus events and programs are also regularly communicated through *To The Point*, a weekly e-mail informational publication.

### Events and Programs

Student Programs is committed to enrich the overall SPU learning experience through advising and coordinating events and programs such as Family Weekend, commuter programming or the Student Leadership Celebration. Whether planning general campus events, advising ASSP and STUB initiatives, or collaborating with other offices in developing new programs, Student Programs assists Seattle Pacific reach its educational goals.

## Student Life Activities

Student activities abound at Seattle Pacific University. There are many opportunities to pursue personal interests, challenge creativity and leadership skills, and to meet new people. It can be difficult to balance academics with extra-curricular involvement, but by carefully identifying priorities, students are able to make the most of their time at SPU.

### Associated Students of Seattle Pacific University (ASSP)

All undergraduate students are members of the Associated Students of Seattle Pacific (ASSP), and volunteers are always needed in each area of the association. If you are interested in participating, please contact the ASSP office on the first floor of the Student Union Building, or call (206) 281-2126.

The ASSP office sells tickets to campus and community events; it also offers Metro bus and Seattle Art Museum passes for five-hour checkout to any undergraduate student.

The ASSP executive officers are elected during Spring Quarter to serve a one-year term during the following year. Office positions include president, executive vice president, vice president of campus activities, vice president of campus ministries and vice president of finance.

More information about most ASSP services and programs can be found at [www.spu.edu/depts/assp](http://www.spu.edu/depts/assp).

**Student Senate.** Student Senate is the governing body of students, which represents students to the University administration and provides a voice in many University affairs. ASSP senators are elected each spring to serve a one-year term during the following year.

The Senate consists of five residence hall vice presidents, five residence hall senators, two nontraditional housing senators, three commuter senators, one off-campus adult-student senator, one graduate/post-baccalaureate senator, two at-large senators, one intercultural senator and the five ASSP executive officers. The body is advised by one representative each from the faculty and Office of Student Life.

ASSP includes the following major areas of service to students:

**Activities and Events.** Student activities are programmed by the Student Union Board (STUB). This organization plans all-campus events such as major concerts, the annual Talent Show and our Christmas Tradition celebration. The board consists of an executive director, concert coordinator, publicist and five main-event programmers. Team activities personnel (TAPS) serve as volunteers and work on specific programs and projects that are part of ASSP campus programming.

**Campus Ministries.** Ministry opportunities supported by ASSP include GROUP, Seattle Pacific Reachout International (SPRINT), Urban Involvement, Chapel Worship Team, Latreia (a service opportunity referral service) and the student ministry coordinator (SMC) program in the residence halls. For more information, contact the Office of Campus Ministries at (206) 281-2966, or visit the Campus Ministries Web site at [www.spu.edu/depts/campmin](http://www.spu.edu/depts/campmin).

**Leadership Services.** Leadership Services offered through ASSP involves programs such as the Fall Leadership Retreat and other leadership development opportunities throughout the year.

### Clubs and Organizations

There are numerous activities and clubs in which students participate. For a complete, up-to-date listing, please visit [www.spu.edu/depts/assp](http://www.spu.edu/depts/assp) and click "Activities & Clubs."

### Student Publications and Media

**Cascade.** SPU's student-published yearbook, subsidized by ASSP. Copies may be purchased during autumn registration. The yearbooks arrive near the end of Spring Quarter.

**The Falcon.** SPU's weekly student newspaper. Free copies are available in the SUB, Library, MSLC, Demaray Hall and Gwinn Commons each Wednesday. The Web site is [www.thefalcononline.com](http://www.thefalcononline.com).

**KSPU.** SPU's student-run radio station. A variety of shows are aired, including news, music and commentary over the television and Internet. Listen at [radio.spu.edu](http://radio.spu.edu).

**Second Essence.** An annual student arts journal publishing poetry, short stories, graphics and photography. Also includes a CD of musical selections.

**SPU Directory (SPUD).** A pictorial listing of students, faculty, staff and administration published by ASSP during Autumn Quarter. A copy is distributed to each currently enrolled student. The directory is not to be distributed to anyone who may use it for solicitation purposes, including insurance companies, military recruiters and churches. Students may request that personal information be unlisted (such as phone numbers and addresses). Requests are made to staff in Student Academic Services.

### University Publications and Publicity

Sources of information about campus events, people and policies include:

**Campus Master Calendar.** Provides a centralized collection of campus events and deadlines. If you are interested in submitting an event or simply want to know what's happening on campus, check out the Web site at [www.spu.edu](http://www.spu.edu).

**Undergraduate Catalog.** Produced by University Relations and the Office of the Academic Affairs, it contains information about the policies and procedures of the University, as well as listings of all curricular offerings. Also, the names of all faculty and governing personnel of SPU are listed with their appropriate positions.

**Faculty/Staff Bulletin.** Contains weekly news published by the Office of the Academic Affairs. Articles must be submitted by noon Thursdays, or e-mailed to [bulletin@spu.edu](mailto:bulletin@spu.edu).

**Hot Jobs.** Published by the Career Development Center and distributed on campus once a week during the academic year. *Hot Jobs* highlights career events, on-campus interviews as well as internship and job opportunities. The publication is available on campus, by subscription and on our Web site at [www.spu.edu/depts/cdc](http://www.spu.edu/depts/cdc).

**Response.** Published four times a year by the Office of University Communications. It is the primary means of communication between SPU and 35,000 of its constituents. *Response* readership consists of alumni, friends of SPU, donors, churches, corporations and the parents of current and newly admitted students. *Response* is also published online at [www.spu.edu/onlineresponse](http://www.spu.edu/onlineresponse).

**SPU Web Site.** Located at [www.spu.edu](http://www.spu.edu), the SPU Web site provides visitors with access to all types of information about the University, including academics, admissions, athletics, registration, directory of personnel, housing and food services, student and faculty home pages, and many other campus programs and events.

**Time Schedule.** Lists the times, places and professors for each class. One edition is published for each academic year. For the most up-to-date information, please check the Web.

**To the Point.** An all-campus news sheet published by the Office of Student Life each Wednesday. Information must be submitted through [www.spu.edu/news/submit-digest](http://www.spu.edu/news/submit-digest) no later than noon on Mondays.

**Uni-Com.** The campus information and service desk located on the first floor of the SUB.

## Residence Life and Housing

### Living on Campus

The educational mission of Seattle Pacific University is not limited to the classroom experience. Faculty and staff members realize that the collegiate years are a period of significant developmental change for most students. It is in the context of community that the University can best fulfill its educational mission to the "whole person." Living on campus is an integral part of a student's educational experience.

Living in community offers many opportunities for fulfillment and growth. You will meet many different people and have the chance to form lasting friendships. You will also have the opportunity to nurture your faith as you consider viewpoints other than your own. Our hope is that you will develop an appreciation and respect for your peers as you find your own unique way to contribute to the group. Living on campus also carries with it the responsibility to uphold community standards that are designed to provide a positive learning environment for all students. (Please refer to your *Residence Life Guidebook*, which you will receive when you contract for campus housing.)

The Campus Living Policy is evaluated yearly to support the residential experiences, as well as respond to housing demand. For the 2002-2003 academic year, students are permitted to live off campus if they are 20 years old or have attained junior status (completed 90 SPU or transferable credits). Exceptions are given to students enrolled for 8 or fewer credits, or who live at home with parents or a legal guardian. Any student living out of compliance with this policy will not be permitted to register until the situation is resolved.

Infrequent exceptions to this policy are made if unusual circumstances warrant such a decision. Students who believe they have situations warranting special consideration to live off campus must gain approval from the Office of Residence Life by completing an Off-Campus Petition form, which provides the opportunity to describe the situation and reason for the request. The office must receive petitions for off-campus housing no later than June 1 for the subsequent academic year. Further information is available at the Office of Residence Life at (206) 281-2043.

### Campus Housing

SPU provides housing for more than 1,700 undergraduate students in residence halls, apartments and houses. The residence halls vary in size from approximately 120 to 400 residents. Ashton, Hill and Moyer are "traditional" residence halls, consisting of two- and three-person rooms and common bathroom facilities. The recently constructed Emerson Hall features suite-style rooms. The typical configuration is a double room on either side of a connecting bathroom. All rooms are supplied with single beds, mattresses, desks, dressers, chairs, a telephone with voice mail, cable television service and Internet access. Residence halls are closed during Christmas and Spring Breaks as indicated in the *Residence Life Guidebook*.

Campus houses and apartments offer a typical setting of kitchen, living room, bathroom and bedroom(s) and accommodate two or more residents, depending on house or apartment size. Returning students are given priority for these units.

Single undergraduate students 25 years of age and older, graduate students, and students with families may also apply for a limited number of houses, duplexes and apartments on campus. These unfurnished units (except for major appliances) have cable television service but no Internet access. The University assumes responsibility for water, sewer and garbage; the occupant is responsible for heating, electricity and telephone service. Occupancy is limited to the full-time student, his or her spouse and/or legal dependents.

New students requesting to live on campus must complete and mail the Campus Housing Information card included in their admissions packet. The appropriate application will be sent to you. Assignments are made in the order in which we receive your application and \$300 room deposit. Additional information regarding housing is available from the Office of University Services, (206) 281-2188.

### Housing Accommodations for Students With Disabilities

Students requesting special housing accommodations due to a documented disability should contact the Disabled Student Service Program Coordinator in the Center for Learning. Returning students should submit their requests by April 1. Incoming students should submit requests by June 1 for Autumn Quarter or six weeks before the beginning of Winter or Spring Quarters. For more information on services and accommodations for disabled students see the Disabled Student Services section under the Center for Learning (see page 38).

### Leadership

Seattle Pacific has staff to help you adapt to your living community on campus. Peer advisors (PAs) live on each residence hall floor and in the campus apartments. PAs are trained to provide leadership to the residents and plan activities and programs. Residence life coordinators (RLCs) are professional staff members who live in each residence hall. They train and work with the PAs and oversee the administration of the building. Student ministry coordinators (SMCs) live in the halls and focus specifically on meeting students' spiritual needs.

Residence hall students elect a hall council each year to oversee the hall budget, plan activities and represent them at the Student Senate. You may choose to become a hall council member and represent your floor at the meetings.

### Campus Dining

All students who reside in Aston, Hill, Emerson and Moyer are required to choose one of five "metal" meal plans: Platinum, Gold, Copper, Silver or Bronze. Each plan allows students access to SPU's restaurant-style dining facility, Crossroads at Gwinn Commons, during different times of the day. The plans also provide SPU Points, which are worth 1 cent per point at any campus dining location and save the bearer sales tax. Unused SPU Points will roll from quarter to quarter but not from year to year.

Robbins Hall residents are required to choose a minimum of the Robbins Plan (\$200 in Advantage points) each quarter. Advantage points are used in the same manner as SPU Points but are not linked to a metal meal plan. Unused Advantage Points will roll from quarter to quarter and from year to year.

Theme housing residents much choose one Block 25 plan per year. A Block 25 plan allows the students 25 entrances into Crossroads to be used at their discretion. A Block 50 (50 entrances into Crossroads) is also available.

Although not required to have one, students living in campus apartments or off campus may choose from any of these plans or purchase Advantage Points with a minimum of \$25. Blocks and Advantage Point plans are nonrefundable. All meal plans are accessed with your campus identification card, available in the Office of University Services.

In addition to Crossroads at Gwinn Commons, SPU has a campus convenience store (Corner Place Market) and a retail restaurant and grill (Falcon's Landing). Espresso drinks are served at both the Corner Place Market and Academic Perks in Falcon's Landing. Food Service is not available in Crossroads on Sunday evenings or during Thanksgiving, Christmas or Spring Breaks. Meal plans are nontransferable. There is no refund or adjustments made for meals missed. Meal plan changes may be made at the end of each quarter, to be effective the following quarter. Please refer to your *Residence Life Guidebook* for specific dates.

### Room and Meal Plan Contract

A student contracts for a space on campus but *not* for a specific hall, room/apartment or roommate assignment. The University reserves the right to:

- Assign roommates unilaterally.
- Reassign students who are without roommates.
- Use a room when it is not occupied.
- Assign single rooms.
- Reassign students to different rooms or residence halls in the event such reassignments are determined necessary.

Priority for University housing is given to admitted students enrolled for 9 credits or more each quarter. Students enrolled for 3 to 8 credits may request housing as space permits. Dropping to part-time status from full-time does not automatically cancel a room and meal plan contract.

Room and meal plan costs are listed under the Tuition and Fees section of the *Catalog* (see page 22). Refund schedules and cancellation charges are outlined in the *Refund and Account Adjustments* section of the *Catalog* (see page 26).

## Career Development Center

The move from college to career or advanced education represents a transition of major importance. The Career Development Center is here to help Seattle Pacific University students make effective choices, plans and transitions based

on an understanding of their own abilities, interests, faith values and sense of vocational calling.

Career exploration assistance is offered through individual counseling, vocational testing and classroom instruction. A computerized career guidance system is available to assist students in identifying their skills, interests and options in the marketplace. Career Development Center staff teach a course on "Career Exploration and Planning." This 1-credit course assists students in identifying interests, motivations and faith commitments to make informed choices about academic major and vocational choice.

The Internship Program coordinated by the Career Development Center offers students opportunities to further clarify their career goals and to gain professional experience in positions related to their academic studies. Internships are available in a wide range of industries and organizations including accounting, advertising, banking, clothing design, computer programming, engineering, business, TV broadcasting, public relations, social service and recreation.

The Career Development Center staff also helps students, write résumés, improve interview skills and develop effective job search strategies. An on-campus recruiting program brings representatives from national and local companies, government and nonprofit agencies, and school districts to campus to interview students. Job listings are available in *JobNet*, on the Career Center Web page. Also, a comprehensive placement file service is maintained for School of Education graduates.

The Career Center maintains an extensive Web site at [www.spu.edu/depts/cdc](http://www.spu.edu/depts/cdc). It contains current information on occupations, employers, graduate schools, career planning, job and internship openings, and other career related topics.

## Student Counseling Center

The Student Counseling Center (SCC) under the Office of Student Life works in partnership with the University Counseling Center in Marston Hall to support the well-being of our students. Framed by the Christian values of our University, the mission of SCC is to serve the mental-health needs of students, helping them be successful learners through graduation. In addition to personal counseling sessions for students, the SCC offers group support, education outreach and information on prevention strategies. The staff at the SCC includes full-time counselors, as well as doctoral interns from the School of Psychology, Family and Community. Students may be referred to SCC by residence life coordinators, Center for Learning staff or faculty members. They may also stop by or call for an appointment. To schedule an appointment, call (206) 281-2016. The SCC makes every effort to serve you immediately and in most cases can schedule an appointment within 24 hours.

## Center for Learning

### Learning Support

Seattle Pacific University faculty members are committed to your success as a student and are available to support your academic achievement. The Center for Learning provides additional resources and services to support the educational success of all students through study-skills courses, individual learning consultations and learning seminars offered by the professional staff. Tutoring for a wide variety of courses and The Writing Center are also located in the Center for Learning. Information on the ACCESS program, which provides individualized support, monitoring and advising to first-year students is available on request. The Center for Learning is open from 8 a.m.-7 p.m. Monday through Thursday, and 8 a.m.-5 p.m. on Fridays. For more information, call (206) 281-2475.

### Disabled Students Services

Center for Learning staff coordinates services for students with learning, psychological, medical and physical disabilities to promote curricular and co-curricular program support and accommodations. A student who wishes to receive services and accommodations due to a disability should do the following things:

- Provide the Disabled Student Services program coordinator with current documentation that has been prepared by a qualified professional in the relevant field (from specific guidelines for each disability contact the disabilities program coordinator).
- Meet with the Disabled Student Services program coordinator to discuss your particular needs and appropriate accommodations.
- For housing accommodations, students with disabilities should contact the Disabled Student Services program coordinator by April 1 if they are returning students and want consideration during the spring sign-up process, or by June 1 if they are new students applying for fall housing. Students applying for housing beginning Winter or Spring Quarter should contact the Disabled Student Services program coordinator at least six weeks before the start of the quarter.

For information or to schedule an intake appointment, contact the program coordinator at (206) 281-2272.

### Intercollegiate Athletics

Seattle Pacific athletics provides an arena wherein student-athletes are guided toward excellence in physical performance and leadership through the integration of Christian principles and values while participating in intercollegiate sport at the highest possible level. The University is fully committed to the academic success of each student-athlete, to his or her physical welfare and to the principles of fair play and amateurism. SPU is a member of the NCAA Division II and fields the following intercollegiate teams: men's and women's basketball; men's and women's crew; men's and women's cross country and track and field; men's and women's soccer and women's gymnastics and volleyball. For a complete overview of Falcon athletics, see [www.spu.edu/depts/athletics/](http://www.spu.edu/depts/athletics/).

### Mascot/Colors

SPU's mascot is the falcon and the school colors are maroon and white.

### Intramural-Recreational Sports Program

All SPU students are encouraged to participate in our comprehensive program of intramural competitions and recreational sport activities. Opportunities include organized tournaments, small group instruction and free play. Recreational facilities are open to students seven days a week during the academic year. Clinics run the first week of an intramural sport season. To receive University credit, a student must register for and attend all clinic sessions and participate on an intramural team. SPU has a fully equipped recreational fitness and training facility available to all students, faculty and staff. Phone (206) 281-2881. For a complete overview of the SPU intramural program, see [www.spu.edu/depts/intramurals](http://www.spu.edu/depts/intramurals).

### Athletic Facilities

**Interbay Field**, completed in the fall of 1997, is located about a mile west of the main campus at 17th Avenue West and West Dravus Street. This new 900-seat facility is the site of all home soccer games.

**Langley Tennis Courts** are located adjacent to Queen Anne Bowl.

**Queen Anne Bowl** is located a few blocks south of the main campus. Seattle Pacific has access to this facility, owned by Seattle Parks and Recreation, and it includes a soccer field and running track.

**Queen Anne Community Swimming Pool** is located one mile south of the main campus. Classes and open swim times are offered at this facility. Reduced rate passes are available for students at the Uni-Com counter in the SUB.

**Royal Brougham Pavilion** is located next to the ship canal and hosts the SPU basketball, volleyball and gymnastics home events. The Pavilion is a great place to watch a sporting event. The building also houses the crew boathouse, P.E. classes, intramurals, weightroom and fitness center (which has stair-climbers, tread mills, stationary bikes, etc.) and "The Cage," where students can check out a variety of sports equipment.

**Wallace Field**, located on the east side of Brougham Pavilion, is the primary training facility for track and field. It includes an all-weather track, areas for throws and jumps, plus an infield for intramural baseball, softball and football.

## Community Standards and Policies

### Behavioral Expectations

Seattle Pacific University's standards for behavior are representative of the University's identity and are designed to provide a positive learning environment while promoting the intellectual, social, spiritual and physical well-being of students. The expectations of the Seattle Pacific community, explained below, reflect the University's commitment to its Christian philosophy of education in the context of a Wesleyan heritage.

By enrolling at SPU, students agree to live according to the expectations outlined here. Non-matriculated students admitted to special programs are also expected to maintain these standards. Violations may result in disciplinary action. Any questions regarding these statements should be addressed to the chief judicial officer or the dean of student life in the Office of Student Life.

### Community Support and Redemptive Discipline

Seattle Pacific University seeks to follow the biblical idea of discipline as described in Matthew 18:15-18 and Galatians 6:1-2. The purpose of this kind of discipline is redemptive in nature, seeking to reconcile the person to God and to his or her neighbor. It is also progressive, normally beginning with a private conversation between two people (student to student). If those two people cannot resolve the problem, the next level would include consultation with a staff member such as a peer advisor, residence life coordinator or faculty/staff member. If it then cannot be resolved, it will be referred to counseling and/or judicial action by the chief judicial officer or the dean of student life.

When a situation involving a student or student organization appears to violate University policies, rules, regulations or standards, it becomes the responsibility of the dean of student life, the chief judicial officer or their designees to implement the University's behavioral and disciplinary process. Because the primary goal of the disciplinary process is educational and redemptive, the process is nonadversarial and should not be considered analogous to court proceedings. Review meetings are not courtroom dramas. They are meetings among community members to give all parties the opportunity to identify concerns, explain perceptions, explore behavior and hear suggestions. The emphasis is placed on student behavior, and the relationship of behavior to commitments and responsibilities inherent in accepting membership into the University community.

Students who have been alleged to have violated the University's behavioral standards or expectations will be advised of the alleged violation or conduct concern and will be given the opportunity to provide oral and written statements and other relevant information to the chief judicial officer or the dean of student life or their designee(s) as determined by the dean of student life. Students will receive written notice of the outcome of any conduct review meeting or proceeding, including a description of any disciplinary action or sanction. The University may suspend a student immediately if, in the

judgment of the University, the student's continued presence on campus or participation in an activity or program presents a threat to the health or safety of the student or to a member of the University community or is otherwise incompatible with the orderly operation of the University.

The University expects students to assume responsibility by fully participating in the disciplinary review process. Students are expected to appear for review meetings or proceedings. If a student fails to appear, the matter may still proceed. Sanctions may be imposed on a student refusing to appear or cooperate. Throughout the conduct process students have the responsibility to present truthful information and conduct themselves courteously.

The sanctions imposed depend upon the particular circumstances of each situation. Sanctions may be imposed singly or in combination, as appropriate to the circumstances of each situation. A student's conduct history will be considered in determining a sanction, as will the nature of the violation. Repeated violations of policy may result in more severe sanctions and may eventually result in the removal of the student from the University. A student's failure to fulfill the terms of an imposed sanction may result in the imposition of more severe sanctions. The types of disciplinary action or sanctions that may be implemented include, but are not limited to, warning, written reprimand, disciplinary probation, suspension (termination of student status for a specified period of time and with specific conditions) or dismissal (termination of student status). In some circumstances the student may also be required to participate in an educational activity; attend counseling; pay restitution or fines; provide community service; transfer to a different residence hall or housing unit; be suspended from housing; lose privileges; be excluded from activities; or be excluded from areas on campus.

**Appeals.** Students have the opportunity for a self-initiated appeal of a disciplinary action. Appeals may be addressed in writing to the appropriate University official within 48 hours of receipt by the student of the written notice of disciplinary action. If the University official instituting the discipline is a member of the Residence Life staff, then the appeal should be directed to the chief judicial officer. If the official instituting the discipline is the chief judicial officer, then the appeal should be directed to the dean of student life. If the dean of student life instituted the discipline, then the appeal should be directed to the vice president for academic affairs. Except in the case of dismissal, a student may appeal a decision once. Grounds for appeal are limited to four categories: (1) There is new information that is material and that was unobtainable at the time of the original review; (2) the sanctions imposed are not appropriate to the violation(s); (3) procedural irregularities or errors; and (4) lack of a fair review.

The University attempts to provide ample information about community structures, expectations and practices to all members, especially to those who are new each year. If you would like more information about behavioral standards or the disciplinary process, contact the chief judicial officer or the office of the dean of student life.

### Seeking Help to Grow and Change

It is our hope that each member of the SPU community is fully aware of his or her own behavior and the effects – positive or negative – that it may have upon the rest of the community. If you know that your behavior is outside of the limits established by the University and wish to get assistance in order to change this behavior, you may take the initiative to discuss this concern with a peer advisor, residence life coordinator or faculty/staff member without the threat of disciplinary action.

A problem of this nature is defined as a personal issue, and the faculty or staff member will seek to work with you toward the goal of restoration. (Exceptions to this approach may be where behavior is repetitive, self-destructive, hazardous to others or involves a significant legal issue in which the University is obligated to uphold the law.)

If a faculty or staff member knows about the incident or situation from another member of the community, it can no longer be defined only as a personal issue. It may be considered a community issue and therefore may be subject to disciplinary actions. Any community that ignores problem behavior in effect condones it. Ignoring problem behavior in others not only gives tacit approval to the behavior in question, but also (biblically speaking) is the withholding of love from that individual.

In this light, if you believe a student is behaving in an unacceptable manner, you are encouraged to go directly to that person and express your concern about the behavior and about the consequences it may bring to the community and/or to the individual. Community expectations should be clarified and the student should be asked if he or she is willing to agree to change the offending behavior. If there is a positive response and the behavior changes, the problem is resolved. If your confrontation does not solve the problem, or there is a continuing pattern of adverse behavior, encourage the student to seek assistance from a faculty or staff member.

If a student takes the initiative to seek help, it will be handled as personal issue as described previously unless there is continued complaint from the community.

This written attempt to clarify the University's position on discipline is intended to call members of the SPU community to responsibility for their own behavior, and not to shift this responsibility to a select few leaders who are expected to maintain the standards. In sharing a more specific understanding of redemptive discipline, University officials recognize that each disciplinary issue has its own set of circumstances. Because of this, *the disciplinary response may not be the same in every situation*, but the desired outcome will always be the same: the reconciliation of the individual to himself or herself, to the SPU community and to God.

### Context for Community Standards

As the University develops and implements its policies relative to lifestyle expectations, the standards are shaped and informed by four sources: legal authority (local, state and federal law), Scripture, historic Christian tradition and the mission of the University.

**Legal Authority.** Local, state and federal laws address matters that directly influence University policy. Theft,

possession or use of illegal substances, under-age use or possession of alcohol, any kind of harassment, physical abuse against persons or property (rape, assault, vandalism), possession of firearms on campus and violations of copyright laws are examples of the way laws interface with policy.

**Scripture.** Scripture addresses issues relating to matters of character and integrity that impact the community and the relationships of those who are a part of the community. We affirm that all persons are of sacred worth and affirm that God's grace is available to all. The University provides counseling services for those who need help in clarifying personal character issues, relational and behavioral, or those struggling with issues of morality and moral behavior.

### Historic Christian Tradition and the University

**Mission.** This area is the most difficult to define because our community is diverse in its concerns over certain issues. Nonetheless, our roots and values are deeply connected to the Free Methodist and other evangelical Christian churches. Evangelical churches are those that find their authority in God's word and stress the need for a personal, redemptive faith in Jesus Christ.

### Lifestyle Expectations

Lifestyle expectations are the general standards that govern the personal conduct of all students and student organizations at SPU. Behaviors for which students or student organizations are subject to disciplinary action include, but are not limited to the following:

1. Actions that constitute violations of municipal, state or federal law. The University reserves the right to follow its normal conduct process whenever a student is accused of a criminal act, regardless of the location of its occurrence and regardless of whether civil or criminal proceedings have been instituted against the student.
2. Actions that interfere with the educational process or the administration of the University, including those that obstruct or disrupt the use of University premises, buildings, rooms or passages, or which incite a disturbance.
3. Cohabitation and related forms of premarital, extramarital or homosexual sexual activities. For more information on the subject of sexuality, refer to SPU's Statement on Human Sexuality, available in the Office of Student Life.
4. The possession, use, distribution or sale of alcohol or illegal drugs, or the illicit use of prescription drugs. The University does not permit students to smoke or to use or possess alcohol or tobacco products on or off University property or as part of any of its activities. In keeping with our heritage, we require that students refrain from the use of alcohol while they are members of the SPU community. However, SPU makes no attempt to preempt the customs of the family, which may include the use of alcohol at a family meal or family event (see statement on Drug-Free Schools and Communities).
5. Dishonesty such as cheating or plagiarism; knowingly furnishing false information; alteration or unauthorized use of University documents, records or property, or

the misuse of student identification.

6. Participation in any actions that involve discrimination or harassment based on race, color, national origin, religion, disability or gender (see statement on Racial/Ethnic and Sexual Harassment).
7. Any form of coercive or unwelcome sexual behavior, including sexual assault, rape, acquaintance rape, indecent liberties or related actions.
8. Activities that cause or threaten emotional, mental or physical harm or suffering; that demean the dignity of any individual; or that interfere with one's academic process. Examples of such actions are verbal threats or abuse, harassment, intimidation, threatened or actual physical assault, or consistent disregard for the rights and welfare of others.
9. Conduct or activities that are lewd, indecent or obscene, whether demonstrative, visual, verbal, written or electronic (see Computer Usage Policy Statement at [www.spu.edu/help/policies/accountpolicy.html](http://www.spu.edu/help/policies/accountpolicy.html)).
10. Failure to comply with the directions of authorized University officials in the performance of their duties, including the failure to comply with the terms of disciplinary sanction. This also includes the failure to identify oneself when requested to do so.
11. False reporting or warning of an impending fire, bombing, crime or emergency, or tampering with safety equipment.
12. Unauthorized possession of, or damage to, University property or services, or property belonging to others. Unauthorized presence in, or unauthorized use of or duplication of keys to, University premises or property.
13. Possession, use or display on University property of any firearms, weapons, fireworks, live ammunition, incendiary devices or other items that are potentially hazardous to members of the campus community.
14. Activities that may cause damage or constitute a safety or health hazard or interfere with the academic process. Such activities include, but are not limited to, entering or exiting buildings through the windows; throwing, projecting or dropping items that may cause injury or damage; and "pranks" that create safety and health hazards for others and/or cause damage to University or personal property.
15. Any violation of other University policies, regulations or rules.

### Other University Policies

#### Church- or Parachurch-Related Activities on Campus.

Christian parachurch and Christian church-related groups must obtain permission to be a registered campus group from the Office of Campus Ministries. They must provide, upon request, a doctrinal/purpose statement and are required to have a faculty sponsor and student contact person. Regular meeting times and events must be cleared with the Office of Campus Ministries, so as not to conflict with existing University programs.

**Distribution of Literature.** University departments and recognized campus organizations may distribute handbills or program announcements through the campus postal system.

Materials not distributed by a faculty or staff office must be approved by the Uni-Com information desk or the Office of Student Life. A copy of the item to be distributed must be filed with the Uni-Com desk at the time approval is requested.

University departments and organizations may also distribute information by hand, but must make provisions for collecting all discarded material to prevent campus littering. On-campus groups mailing printed material to 25 or more off-campus individuals should seek clearance for their mailing from the Office of University Communications. Off-campus groups may distribute literature on campus only with the written approval of Uni-Com (or Office of Academic Affairs in Demaray Hall). Normally, approval will be granted only to organizations that are noncommercial in nature and consistent with the University's mission. Information presented must be in conformity with the philosophy and policies of SPU.

#### Acceptable Use Policy and Campus Computer-Network Use.

The purpose of the Computer Usage Policy is to outline faculty, staff and student responsibilities in the legal, ethical and appropriate use of University computers to maintain confidentiality of stored data, files and networks, to protect the proprietary rights of third parties and of the University in commercial software, and to provide the highest educational use of campus computer resources.

- The University encourages the sharing of information, comprehensive access to local and national facilities to create and disseminate information, and the free expression of ideas. There is an obligation on the part of all those who use these facilities to respect the intellectual and access rights of others who use the resources. It is critical that computer use be performed in an ethical manner, which ensures that the use of these resources fosters the goals and objectives of Seattle Pacific University.
- Computer and network resources and user accounts are owned by the University and are to be used for University-related activities only. Computer equipment and accounts at SPU should be used for legitimate instructional, research, administrative or other approved purposes. User accounts are for your individual and personal use. They are NOT to be shared with anyone.
- Electronic-mail facilities, Web pages, newsgroups and other electronic resources are for University-related activities. Fraudulent, harassing or slanderous messages and/or materials are not to be sent or stored. E-mail should not be used for advertising, broadcasting unsolicited messages or annoying other users. Obscene, pornographic, sexually explicit or offensive material is not allowed to be sent or stored on University resources. It is a violation policy to use campus computers or network resources for access, storage or transfer of objectionable or inappropriate material.
- No one should deliberately attempt to degrade the performance of any of the University computer systems. Be considerate in your use of shared resources. Refrain from monopolizing systems, overloading networks with excessive data, wasting computer time, connect time, disk space, printed paper or other resources.

- Individuals should not use any network access provided by the University to affect other computers or the network in any harmful or malicious way.
- No one should create, modify, execute or retransmit any computer program or instructions intended to gain unauthorized access to, or make unauthorized use of, any computer facilities or software.
- All computer and electronic files belong to somebody. Assume them to be private and confidential unless the owner has explicitly made them available to others.
- Check e-mail messages daily and remain within your limited disk quota. Delete unwanted messages immediately, because they take up disk space. Never send any messages or keep anything that you would not mind seeing on the evening news. Users of e-mail systems should be aware that e-mail in its present form may not be secure and is vulnerable to unauthorized access and modification.

**Computer System User Responsibilities.** All faculty, staff and students are to participate in assuring legal and ethical use of University computer and user accounts. Specific responsibilities include the following:

- Limit user access to computers, data and programs for which the individual user is authorized. Abide by existing channels and security provisions.
- Prohibit unauthorized access to other's data or programs with the intent to read, browse, modify or delete files and directories.
- Prohibit illegal copying of commercial software on or off campus.
- Prohibit use of University computers or networks to compromise other computers or networks, or to commit crimes or other unethical acts.
- Keep passwords and accounts confidential. Taking the appropriate safety measures with regard to account access, including the following:
  - Choose difficult-to-guess passwords.
  - Change passwords often.
  - Do not leave terminals unattended without logging out.
  - Handle confidential data responsibility in an effort to protect the privacy of individuals.

Any violation of the stated responsibilities regarding system access, security or use should be reported to Computer and Information Systems. All faculty, staff and students are to participate in assuring legal and ethical use of University computers and user accounts. Violations of this policy may result in disciplinary action.

**Facilities Usage.** In accordance with University policies and procedures regarding scheduling and fees, student groups may use University facilities on a space-available basis. Compliance with institutional policies as set forth in this publication, and the mission and educational goals statement of the University, is required for authorized facility use. Students found in buildings after closing hours must have in their possession a note signed by the appropriate departmental chairman or the dean of student life. Safety and

security patrols routinely check late occupants of buildings. Students are expected to comply with the security officers' requests, which may include vacating buildings or producing proper identification.

All signs, posters and handbills for distribution in and around the SUB and campus kiosks must be approved at the Uni-Com desk and may be posted only in designated areas. A copy of items to be posted must be filed with the Uni-Com desk when approval is requested. Items may not be affixed to walls, light poles, trees or other non-designated areas such as windows and doors. Individuals and organizations are held responsible for costs incurred in removing improperly posted items and are liable for damages caused by improper posting. Posting on departmental boards or on boards designated for specific offices requires the additional approval of the person responsible for the board. The department director or his or her administrative assistant will determine where you may post approved materials in their area. Posters larger than 24" by 35", banners and other non-traditional items require special approval by the Office of Student Programs. Student election posters must conform with the ASSP Student Elections Task Force policies and procedures. Violations of those posting procedures are reviewed by the Elections Task Force. Approved notices from local churches may be displayed only on the designated board in Gwinn Commons. Materials from commercial organizations will normally not be approved for posting. Materials posted in residence halls require the approval of a residence life coordinator.

**Solicitation.** Recognized on-campus groups or organizations are permitted to solicit in approved campus locations provided they have:

1. A completed and approved Reservation Form (available at the Uni-Com desk)
2. Payment of appropriate vending fee, if required

The time, place and manner of solicitation is subject to regulation by the University. Recognized SPU organizations may solicit door-to-door in residence halls for selected projects only. Door-to-door solicitations require approval from the director of residence life. Students, student groups and off-campus persons selling commercial products or services are not permitted to sell door-to-door in the residence halls under any circumstances. They may sell at other campus locations only with the written approval of the Office of Student Life.

The University will not assist commercial agents (such as insurance agents or other salespersons) in contacting students. They may not have access to student directories or campus postal facilities. Private parties may inform students of items for sale through an ad in the campus newspaper or by posting a notice on designated bulletin boards in the SUB or Gwinn Commons. Standardized posting cards are available for this purpose at Uni-Com.

**Speaker Policy.** As a Christian institution of higher learning, SPU values the sharing of knowledge, the search for truth and the social, intellectual and spiritual development of students. The University recognizes that free inquiry and free expression are essential to learning. Therefore, SPU promotes the development of an atmosphere in which one can ask questions and evaluate divergent points of view.

Please see the Office of Student Life Web site for information on speaker policy, or for more information, contact the director of student programs at (206) 281-2483, SUB, second floor.

#### Drug-Free Workplace and Drug-Free Schools and Communities

SPU is subject to the requirements of the federal Drug-Free Workplace Act of 1988 and the Drug-Free Schools and Communities Act of 1989. The University strongly supports the 1988 and 1989 acts and consistently ensures compliance with them. SPU annually distributes information regarding the restrictions and consequences of violations of each act. Any student who has not received copies of the statements should contact the Office of Student Life in SUB, second floor, or Human Resources, 330 W. Nickerson.

The purpose of SPU's Alcohol, Tobacco and Drug Use Policy is to support the educational mission of the University with standards of personal health, moral integrity and social consciousness. The policy is also intended to provide guidelines for members of the University community who are sensitive to the varieties of Christian perspectives represented on campus, the Free Methodist Church and the community at large. For some, this represents an area of personal liberty, but for others it is a stumbling block. In keeping with our heritage, we expect undergraduate students to refrain from the use of alcohol on and off campus while they are members of the Seattle Pacific community.

The use of alcohol or tobacco on or off campus or at any of its activities will be grounds for disciplinary action, up to and including dismissal. An undergraduate student who is found to be exhibiting specific, objective signs of having consumed intoxicating beverages or illicit drugs, or of abusing prescription medications, will be placed on disciplinary contract.

If the abnormal behavior resulted from prescription drug use in compliance with a physician's instructions, then the policy may be waived. If the behavior is a result of drug abuse or alcohol use, the student will be subject to further disciplinary action, up to and including dismissal and referral for prosecution. If the behavior results in a conviction of a violation of criminal drug or alcohol laws, the disciplinary actions will be dictated by the Drug-Free Workplace regulations.

If a student is required to complete a drug treatment and rehabilitation program as part of the disciplinary action resulting from a violation of this policy, official records of the diagnosis or treatment will be kept for three years in the student's records. The file will be held in the strictest confidence and will only be used as evidence to governmental and granting agencies that the University did in fact take steps toward correcting the problem.

#### Motor Vehicles

**Parking Assignments.** Residential parking lot assignments are assigned based on the student's living area, year in school and the date that the application is turned in. Residents of Ashton, Emerson, Hill, Falcon, Davis and Robbins are eligible for assignments in the parking areas of their respective buildings. Any



on-campus resident is eligible to apply for a space in the Dravus lot, which is located next to the Library. Level 2 is designated as on-campus resident spaces. Levels 1, 3, 4 and 5 are designated for commuter students, faculty and staff. Commuting students may also apply for a parking permit in one of the designated commuter parking lots. These spaces are also assigned on a priority basis. A quarterly fee is charged to the student's account when an assignment is made. Students who do not receive a parking space in a lot will be put on the waiting list for the lot they prefer.

Each lot has at its entry points a sign stating which decal designation is allowed to park within. Vehicles of students who have received a residence hall lot assignment are designated "Resident" on their parking decals. For other students, a "Commuter" designated decal will determine which parking lot may be used.

During evenings after 4:00 p.m., weekends and summers, parking permits are not required. You may park in any of the available spaces that are not numbered or reserved, with the exception of the small administrative lot next to Demaray Hall.

**Parking Regulations.** Anyone operating a motor vehicle on campus is required to be familiar with the University parking regulations. Regulation booklets are available in the Office of Safety and Security.

**Vehicle Registration.** Every motorized vehicle brought to campus, either for temporary or for year-long use, must be registered with the Office of Safety and Security.

*Students:* Vehicles may be registered at any time during the year by applying in person at the Office of Safety and Security.

*Visitors:* Visitors may obtain daily guest parking permits at the Office of Safety and Security or at the Uni-Com desk in the SUB. A guest-parking permit will allow a visitor to park in any commuter lot.

Proper vehicle identification allows the University to contact students in case of an emergency. The registration decal must be placed so that it is clearly visible at a distance of 30 feet from your vehicle.

There is no cost to register a vehicle. However, failure to register any vehicle brought to campus, or failure to properly display the decal issued for a vehicle, will result in a fine. Any vehicle changes or changes in registration must be reported to the Office of Safety and Security within 10 days of the change.

**Towing and Ticketing.** Students parking in a space not assigned to them are subject to immediate towing or ticketing by Safety and Security patrols. Complaints by assigned owners of parking spaces should be directed to the Office of Safety and Security (on campus, dial x2922).

The Seattle Police Department tickets all cars violating city regulations, including cars parked on restricted parking strips or too near driveways.

**Traffic Fines.** The owner of a vehicle brought to campus is accountable for the vehicle at all times, regardless of who is driving when a violation occurs. Traffic fines are automatically charged to a student's account. A schedule of fines is included in the parking regulations booklet available in the Office of Safety and Security.

Should a vehicle owner wish to protest a traffic fine, a complete petition must be filed in the Office of Safety and Security within 30 days of the date and time the violation was cited. Petition forms are available in the Office of Safety and Security.

**Liability.** SPU does not assume liability or responsibility for motor vehicles parked on University property or adjacent streets, nor for the contents of these vehicles.

### Petitions for Exceptions to Policies

Occasionally a need arises for an exception to established University policy. Examples include chapel attendance and on-campus housing. In this event, students must secure a petition form from the appropriate department in the Office of Student Life. Requests should be stated in a concise, logical manner. Discussion of the request may be scheduled with the designated staff member.

Changes in academic policy are considered by the Academic Policies Committee and approved by the Faculty Senate. Requests for variations from current standards must be submitted to Student Academic Services, where the petition forms are available. Petitions should be submitted at least two quarters before desired action is needed.

### Racial/Ethnic Harassment

The University believes that all persons are created in the image of God and possess intrinsic dignity and worth. Likewise, the University respects and values the uniqueness of each racial or ethnic group, and all University employees and students enrolled in the University assume the obligations to observe this same conduct.

Violation of, or questions regarding, this policy should be immediately reported or directed to the dean of student life (or designate); the director of human resources; the vice president for academic affairs or their designate for corrective action or clarification. The University strictly prohibits any retaliation against any student or employee who, in good faith, has registered a complaint under this procedure. If anyone believes he or she has been retaliated against for registering a complaint, he or she should use the above complaint procedure.

Any students or employees who violate the University's racial harassment policy are subject to disciplinary action up to and including expulsion or dismissal.

### Representing the University

No individual or group of students may represent the University outside the campus without the explicit sponsorship of a University department or the written permission of the dean of student life.

### Sexual Harassment

Seattle Pacific University is committed to maintaining an academic and social environment free of sexual harassment and assault. Members of our community have the right to work, study and communicate with each other in an atmosphere free from unsolicited and unwelcome communication of a sexual nature.

Sexual harassment is a form of misconduct that violates the integrity and trust in human relationships. Sexual harassment does not refer to occasional appropriate compliments.

Rather, it is behavior that is personally intrusive, offensive, debilitating to morale, and insulting to human worth and dignity. Sexual harassment of students is marked by inappropriate sexually oriented attention by anyone (faculty member, staff member or student) who is in a position to determine a student's grade or to adversely affect the student's academic performance, job performance, professional future, participation in campus activities, use of campus services and facilities, or ability to function comfortably in the SPU community.

Students who believe they have been sexually harassed or who have concerns about the appropriateness of faculty, staff or student behavior may seek support and counsel from among a variety of helpful campus resources and people trained in the prevention of sexual harassment. The consultation will remain confidential if the student wishes. Formal complaints of sexual harassment may be addressed to the dean of student life (on campus, dial x2481), the director of human resources (on campus, dial x2678) or the Office of Academic Affairs (on campus, dial x2125).

Further information and SPU's complete statement concerning sexual harassment is available from the Office of Student Life (on campus, dial x2481), Human Resources (on campus, dial x2809), or Safety and Security (on campus, dial x2922).

### Student Records and Confidentiality

Certain items of information about individual students are fundamental to the educational process and must be recorded. This recorded data concerning students is used only for clearly defined purposes and is safeguarded and controlled to avoid violations of personal privacy.

SPU has the responsibility to effectively supervise any access to and/or release of official information about its students. In this regard, the University is committed to protecting the right of privacy of all individuals about whom it holds information, records and files. Access to such records is restricted to the student concerned, to parents of a dependent student, to others with the student's written consent, to officials within the University, and to a court of competent legal jurisdiction.

The following policies have been established to comply with the Family Educational Rights and Privacy Act of 1974 (hereafter referred to as the "Act"):

**Public Information.** The Act provides that public "directory information" about a student may be made available to third parties without permission of the student. However, public notices must be given of intent to publish the information, so that those students wishing to withhold information from public access (such as an unlisted telephone number) may do so.

**Release of Information.** With the exception of directory information, no information in any student file may be released to any individual or organization without prior written consent of the student. When disclosure of information is mandated by court order or subpoena, the staff member receiving such orders must immediately notify in writing the student concerned, prior to compliance with the legal order.

Information from University records about students is released for approved research purposes only if the identity of

the student involved is fully protected.

**Student Access.** With certain exceptions, official student information collected and maintained by the University is available for inspection and review at the written request of the student. Clarification of exceptions may be obtained by contacting the University registrar.

A request for general access to all official records maintained by the University must be made in writing to the University registrar. A request for access to information maintained by a particular office may be addressed to the administrative head of that office. When making such a request, the student must provide proper identification. The designated staff person must supervise the review of the contents of the record with the student. The student is free to make notes concerning the contents, but no material may be removed from the record. Student requests for access to appropriate information must be granted within 45 days of the written request.

If health reasons or extreme distance from the University prevent the student from inspecting the education record, then copies of specific education records will be made. The student must pay all copying expenses in advance of release of the record. Unless stipulated otherwise in the University's current *Undergraduate Catalog*, all copies are 25 cents per page.

### Student Correction of Education Records

Students who believe that information contained in their education records is inaccurate, misleading or violates privacy or other rights, may request that the University amend the records. The first step is to contact the University registrar or records custodian.

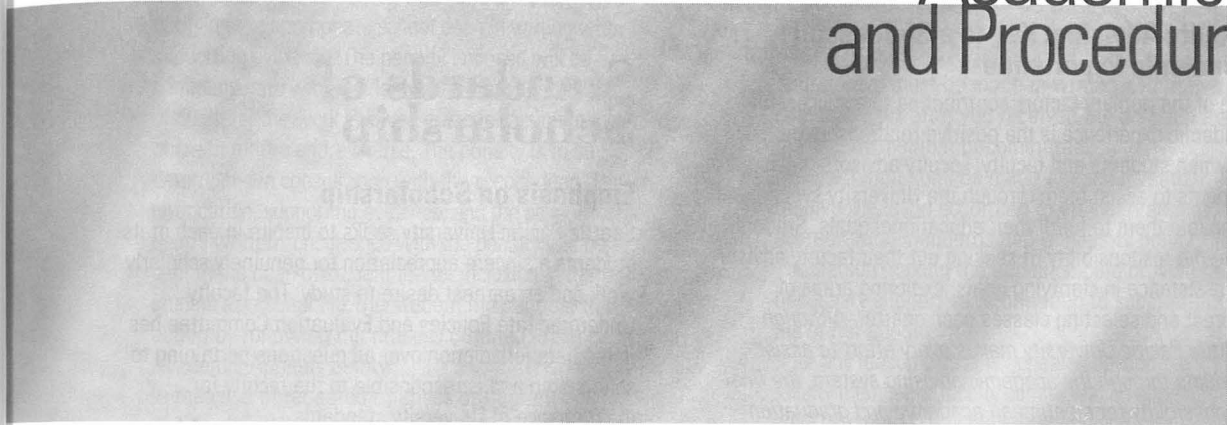
The University will decide within a reasonable period of time whether or not to do so. If the University declines to amend the student's records, it will inform him or her of the right to a hearing. Upon written request, the University will provide an opportunity for a hearing to deliberate the student's case. However, a hearing may not be requested by a student to contest the assignment of a grade.

If the hearing panel determines that the student's challenge is without merit, the student may place in his/her record a statement commenting upon the information and setting forth reasons for disagreeing with the University's decision. A complete copy of the University's FERPA policy may be obtained by contacting the dean of student life or Student Academic Services.

Students have the right to file complaints concerning alleged failures by the University to comply with the requirements of the Act. Such complaints should be addressed to the Family Educational Rights and Privacy Act Office (FERPA), Department of Education, 300 Independent Ave. SW, Washington, D.C. 20201.

*For a complete listing of student policies and procedures, please refer to the SPU Web site at [www.spu.edu/depts/studentlife/](http://www.spu.edu/depts/studentlife/).*

# Academic Policies and Procedures



# Academic Policies and Procedures

## Advising

### Faculty Advising: Key to a Successful Academic Experience

One of the primary factors contributing to a successful academic experience is the positive relationship built between students and faculty. Faculty advisors reach out to students to assist them through the University system and to enable them to fulfill their educational goals. Students have the responsibility of seeking out their faculty advisor for assistance in clarifying goals, exploring areas of interest and selecting classes each quarter. *Although Seattle Pacific University makes every effort to assist students through the academic advising system, the final responsibility for meeting all academic and graduation requirements rests with each individual student.*

### Assignment of Faculty Advisors

The director of faculty advising assigns faculty advisors for all new undergraduate students. Freshmen are advised by their University Seminar professor during their first year and are assigned to an advisor in their area of academic interest during Academic April. Transfer students are assigned to faculty in their designated area of interest. New students are notified of their advisor assignment before they register for their second quarter of classes at SPU. Students may request a change in advisor, particularly if they have decided to pursue a major or have developed different interests. Advisor Change Forms are available in the Demaray Hall lobby (first floor) and department offices. They are to be turned in at Alexander Hall.

### Advisor Approvals for Registration

To obtain guidance in the timely completion of a baccalaureate degree, undergraduate students who have not been accepted into a major are required to see a faculty advisor each quarter to receive permission to register. Students participating in the ACCESS program will need to meet with staff in the Center for Learning prior to being granted permission to register. Entering freshman and sophomore transfers are required to apply for a major and request a major advisor no later than April of their sophomore year. Transfer students who enter as juniors or seniors are required to apply before they have completed 30 SPU credits. Once students have been accepted into a major, they are encouraged to continue to meet with their faculty advisor on a consistent basis.

## Undergraduate Academic Counselors

Every student is assigned a counselor in Student Academic Services who follows the student's progress from admission through graduation. The undergraduate academic counselors assist students and provide support for faculty by planning and facilitating the Premiere program for incoming students, advising students during their initial quarter at SPU, evaluating transcripts for transfer students, completing graduation checklists, and awarding honors and degrees. The academic counselors are also responsible for assisting students on academic probation.

## Standards of Scholarship

### Emphasis on Scholarship

Seattle Pacific University seeks to inspire in each of its students a sincere appreciation for genuinely scholarly work and an earnest desire to study. The faculty Undergraduate Policies and Evaluation Committee has immediate jurisdiction over all questions pertaining to scholarship and is responsible to the faculty for maintenance of University standards.

### Academic Integrity

#### Definitions

A breach of academic integrity occurs when you receive academic benefits you did not earn through your own work by cheating or by plagiarism. In its more blatant forms, academic dishonesty includes copying another's work on an exam; preparing for an exam by using test questions from a stolen exam; bringing concealed answers to an exam; turning in another person's work as your own; or committing plagiarism (i.e., copying portions of another's words from a published or electronic source without acknowledging that source).

It is not dishonest to discuss possible answers to an exam question as part of a study group, to discuss ideas for a paper with other members of the class, or to ask a friend to read a draft of your paper for suggestions to improve it, unless the professor has prohibited these activities.

It is not dishonest to summarize, paraphrase or quote the words of others in a paper so long as you acknowledge the sources with appropriate citations.

#### Dishonesty in Academics

The penalties for breaches of academic integrity shall be clearly spelled out in a course syllabus. They may range from no credit for the work in question to no credit for the course. Both the students and the instructor have obligations to report and to prevent cheating, plagiarism or other academic misconduct.

If the instructor suspects academic dishonesty, the following guidelines apply:

1. The instructor arranges a conference with the student to discuss the incident.
2. If, following the conference, the instructor is convinced that the student violated academic integrity, the instructor may propose appropriate action. If the student accepts such action as appropriate, both student and instructor will verify this in writing and no further penalty will be necessary.
3. In instances where agreement is not reached between the instructor and the student, the instructor may initiate a grade penalty against the student by notifying the appropriate school dean in writing with supporting evidence. The penalty imposed will be commensurate with the degree of offense, from loss of credit for the work involved in the infraction to loss of credit for the entire course. The penalty is to be determined in consultation with the school dean. The notification, supporting evidence, and the school dean's written concurrence with the penalty will be sent to the dean of student life for inclusion in the student's personal file. The student may appeal this action by following the process outlined under Academic Appeals below.
4. In the case of repeated offenses or flagrant dishonesty that warrant probation or dismissal from the University, charges will be made in writing by the instructor through the appropriate school dean to the chief judicial officer and then to the dean of students.
5. If the act of dishonesty is associated with a criminal act (e.g., breaking into a faculty office) or with concerted group effort (all or part of a class), such cases will be immediately referred to the chief judicial officer and the dean of student life.

### Academic Appeals

The section that follows provides a formal statement of policies and procedures if you wish to appeal an academic decision affecting you with which you do not agree. There may be instances where you disagree with an instructor's actions but do not wish to lodge a formal complaint. In such instances, always speak to the instructor first. It's best to make an appointment to meet the instructor in his or her office rather than trying to handle an important issue after class or in a casual meeting on the sidewalk. Present the reasons for your complaint to the instructor in a clear manner and listen to the instructor's response. This may eliminate any misunderstanding or miscommunication. If your grievance is not resolved after this conversation and you wish to continue to pursue the matter, follow the process outlined in the following section.

### Appeal Process

Seattle Pacific University provides a process whereby a student may appeal an academic decision, including, but not limited to, grades on course activities; evaluations; course grades; decisions on program admissions; and

decisions on fulfillment of program and graduation requirements.

Academic appeals may be made only on grounds of unfair treatment against the stated standards, not against the professional judgment of the faculty member(s). The intent is always to resolve the appeal at the most immediate level. Only in extraordinary circumstances, when a resolution cannot be obtained at the first level, is the process moved to the next level.

In each case, the student shall bring the appeal in writing to the person or committee who made the original decision. If a resolution is not obtained at that level, the student may appeal to the next level in the school or University administrative structure.

### Guidelines for Academic Appeals

1. Your appeal must be made in writing within five calendar days after you received the decision from the faculty member or committee.
2. Every attempt shall be made at each level to resolve the issue according to ethical practices, accreditation standards and University policy.
3. The person making the appeal should provide the necessary supportive information to substantiate his or her appeal.
4. If for any reason a case is appealed beyond the faculty member or faculty committee, an appeal file shall be created. This file will contain written documentation related to the case including, but not limited to, the student's written appeal and the faculty response. The appeal file shall be open to all principals in the case, including the student appellant.

### Levels of Appeals

For appeals on academic decisions such as grades on course activities, evaluations, course grades and decisions on program admissions, the levels to be followed in order are the following:

1. Course instructor or ad hoc faculty committee appointed by department chair
2. Department chair
3. School dean
4. Vice president for academic affairs
5. President

Academic petitions regarding general University matters such as decisions on graduation requirements or other *Catalog* academic regulations may be made in the following order:

1. Student Academic Services
2. Undergraduate Policies and Evaluation Committee
3. Vice president for academic affairs
4. President

The decision of the president in any student appeal is final.

## Student Class Status

Matriculated students are classified at the beginning of each quarter according to the following designations:

### Undergraduate Students

<i>Freshmen</i>	1-44 earned credits; includes SPU and transfer work accepted
<i>Sophomores</i>	45-89 earned credits; includes SPU and transfer work accepted
<i>Juniors</i>	90-134 earned credits; includes SPU and transfer work accepted
<i>Seniors</i>	Minimum 135 earned credits; includes SPU and transfer work accepted (senior status does not necessarily ensure graduation with that class)

### Post-Baccalaureate Students

Students who have received the baccalaureate degree and are seeking a second bachelor's degree or initial teacher certification. Admission to this classification is by application only.

### Graduate Students

Master's or doctoral candidates. Admission to this classification is by application only.

*Note: Undergraduate, post-baccalaureate and graduate definitions assume that students have been admitted to the University.*

### Matriculated Students

Students who have fully met the requirements for admission and have registered for courses in the quarter for which they were admitted (designated as undergraduate, post-baccalaureate, graduate or doctoral students). A limited number of students who do not meet all the admission requirements may be admitted to the ACCESS program, which is designed to provide additional support to students endeavoring to develop the competencies necessary for academic success. These students will work closely with a special advisor and may take no more than 14 hours per quarter while adjusting to the academic expectations of SPU.

### Non-Matriculated Students

Students who are not seeking a degree who are allowed to attend SPU without submitting the credentials required for admission with regular status. The maximum credit load per quarter is 20 credits. No more than 45 credits taken as a non-matriculated student may apply toward an undergraduate degree, and no more than 15 such credits may be applied to a post-baccalaureate degree, nor can more than 9 such credits apply toward some graduate degrees. A later decision to work on a degree or certificate program will necessitate formal application and admission to the University as a matriculated student.

### Auditors

A person who wishes to attend class but who does not desire credit is an auditor. With approval from the instructor concerned, auditors may register for audit in all undergraduate courses and most 6000-level courses. Students may change from audit to credit or vice versa during the quarterly add period published in the University Calendar. They may neither participate in class discussions nor take examinations. If they do daily assignments, the instructor is under no obligation to read or correct them. Students who are unable to remain at the University because of low grades and new applicants who do not qualify for admission may not register as auditors. A student may receive credit for an audited course only by enrolling in it as a regular student in a subsequent quarter. Tuition rates for auditors will be equal to the tuition credit rate.

## The Academic Schedule and Load

### Academic Schedule

Seattle Pacific University uses a quarter calendar that runs over three quarters (Autumn, Winter, Spring Quarters), each consisting of 10 weeks of instruction. Classes are arranged in a block schedule format: 5-credit courses are generally offered in either 50-minute periods five days a week or 90-minute periods three days a week. Except during summer sessions, there is an interval of 10 minutes between periods, and a chapel assembly is scheduled at 9:30 a.m. on Tuesdays. Forums are at 9:30 a.m. on Thursdays. SPU also offers a variety of evening, weekend and summer classes, as well as distance-learning opportunities. Most summer courses take place over two four-week sessions and vary from traditional classes in length and structure.

### Final Examinations

A special two-hour class meeting is scheduled for most courses during the last three days of every quarter. The final exam period is considered an instructional period; classes are expected to meet during the scheduled time whether or not a final exam is given.

If a student has more than two exams on any day, he or she may reschedule one of the exams with the instructor at a mutually convenient time. An instructor may refuse a student's request to reschedule a final examination. However, instructors may schedule an early final exam for a student under the following conditions:

1. The student is able to demonstrate appropriate mitigating circumstances that, in the judgment of the instructor, warrant rescheduling the final exam.
2. A rescheduled final exam is given no earlier than four working days prior to the last day of the final examination period.
3. The student's request to reschedule a final exam is made at least two weeks before the regularly scheduled final exam period.

### Definition of Credit

One "credit" signifies the value towards graduation of a class meeting one period of 50 minutes each week for a quarter of approximately 10 weeks together with satisfactory completion of the assigned out-of-class work. Two (and sometimes three) 50-minute periods of laboratory work are regarded as equivalent to one such period of regular class work. The SPU "credit" is a "quarter" credit and is equal to two-thirds of the "semester" credit in use at some institutions. (For instance, 45 quarter credits are equivalent to 30 semester credits.) It is expected that students will spend at least two 50-minute periods of work outside the classroom for each 50 minutes in class.

**Enrollment Status.** Enrollment status for undergraduate and post-baccalaureate students is determined by the following:

12-18 credits	Full-time
9-11 credits	Three-quarter-time
6-8 credits	Half-time
1-5 credits	Less than half-time

### Permissible Academic Load

The term "academic load" refers to the schedule of studies for which the student is registered. Twelve to 18 credits are considered a regular academic load for undergraduate and post-baccalaureate students. Although Summer Quarter consists of more than one session, to be considered full-time a student must be registered for at least 12 credits within the entire Summer Quarter. To assist in their academic success, and aid in the transition from high school to college, freshmen are not allowed to register for more than 18 credits.

By special permission from the University registrar, undergraduate and post-baccalaureate students who maintain a high scholarship standard may be permitted to register for as many as 20 credits. Under no circumstances will any student be allowed to register for more than 20 credits including music, physical education and all fractional credits. It should be noted that there is an additional tuition charge for 19 or more credits.

Courses taken concurrently by media, correspondence, or extension in another institution, and non-credit courses count as part of the academic load. These courses do not count in regular undergraduate tuition and may not count in financial aid.

### Reduction or Limitation of Load

An undergraduate student's academic load is subject to reduction or limitation from the University registrar for low scholarship. Experience suggests that most students should limit academic load in proportion to hours of employment outside of school hours. The following schedule suggests a relationship between the student's academic load and outside work:

<u>Outside Work Per Week</u>	<u>Load Recommended</u>
14 hours or less	15-18 credits
20 hours or less	12-14 credits
30 hours or less	10-12 credits
More than 30 hours	6-10 credits

### Eligibility for Honors and Activities

Students who are registered for less than a full-time academic load are not eligible to be rated for scholarship honors. To participate in extra curricular activities, students must maintain a satisfactory cumulative grade point average. Consult the Office of Student Life for specific requirements.

### Specific Intercollegiate Athletic Eligibility

All student athletes in an intercollegiate sport must be enrolled in a minimum of 12 credits to be eligible for practice and competition. In addition, by the beginning of the student-athlete's second academic year, the student must achieve a cumulative GPA of 2.0 ("C") or higher to be eligible for competition. All other NCAA bylaws regarding eligibility must also be met.

## Registration

### Registration on the Web

Seattle Pacific University offers students the opportunity to register for classes on the SPU Web site. Registration for the quarter begins with advance registration and ends on the fifth day of the quarter at 5 p.m. Once Web registration has ended, students must come to Student Academic Services (SAS), or mail or fax in their registration forms to withdraw from classes.

Registration for internships, independent study, distance learning and travel study courses must be processed in SAS and cannot be accomplished over the Web. Students must come to SAS, or mail or fax in their registration forms to register for these classes.

### Changes in Registration

Though choices made during the registration period are considered permanent, students are permitted to change their registration through the fifth day of the quarter (refer to the University Calendar for specific dates). The deadline for withdrawing from courses is the sixth week of the quarter. Specific dates for these registration deadlines are printed in the University Calendar located at the back of the *Undergraduate Catalog* and in the *Time Schedule*. Students who are receiving financial assistance are encouraged to speak to a Student Financial Services representative before making a change in course load.

### Extended Registration Deadlines

Some courses require extra time to get special paperwork completed (independent study, internship), work on a special assignment (newspaper), audition (choirs, performance practicum), or set up an individual instruction. For these types of courses, students are allowed to register through the 10th day of the quarter. To see if this extended registration deadline applies to a specific course, please contact Student Academic Services.

### Adding Classes

Students are permitted to change their registration as long as the change is submitted by the fifth day of the quarter (refer to the University Calendar for specific dates). Students may not attend or sit in classes unless officially registered by the fifth day of the quarter. Day and evening classes (classes beginning after 4:30 p.m.) must also adhere to this deadline. Any class addition after this date will be considered a late registration and will be subject to a \$50 fee; these are handled via a registration petition.

### Registration Petitions

Registration petitions are requests for exceptions to regular policies and procedures. Exceptions are not granted to supercede policies and procedures because of an inconvenience. The petition process provides students and faculty with the possibility of a response outside the normal bounds of policy when extenuating circumstances are judged to warrant such a response. Extenuating circumstances include illness, injury, death in the family or problems with immigration. The petition must not only voice the request, but must also substantiate the validity of the request.

Petition forms are available on the forms rack in the Demaray Hall lobby (first floor). Instructions for completing this process are listed on the back of the petition. A student seeking late registration must seek permission from the instructor to sit in the class while the petition is pending. In all cases, the final decision to approve or deny a petition will be made by Student Academic Services. Each approved petition will incur a \$50 "Late Registration" fee.

### Waitlisting Closed Classes

Students have the option of waitlisting any classes that are closed. As space becomes available in closed classes, waitlisted students will be registered on a first-come basis. Students may waitlist only two classes per quarter. Students will be notified in writing when they are entered into a class via the waitlist. If the waitlisted class creates a time conflict or exceeds the maximum credit load for the student, it will not be added to the student's schedule and the student will be dropped from the waitlist. Waitlist forms may be obtained from the Demaray Hall lobby (first floor), or students may waitlist a class via the Web. Directions are provided in these forms, which outline the process students need to follow to waitlist a class.

Students may choose to withdraw from a waitlisted course by filling out an Add/Drop form in Student Academic Services or by dropping via the Web.

The waitlist program is effective through 11:59 p.m. on the second day of the quarter. All schedules will be final at that time. Refer to the University Calendar for these dates.

The waitlist is not in effect after the second day of the quarter. Should space open up before the registration deadline passes, priority will not be given to those left on the waitlist.

## Withdrawals

### Withdrawal From Classes

The policy for withdrawing from a class is as follows:

- A withdrawal from a course during the second week of the quarter will not appear on the transcript.
- A withdrawal from a course during the third through sixth week of the quarter will be noted with a "W" on the transcript.
- No withdrawals are accepted after the sixth week of the quarter.
- If a student does not provide proper written notification to Student Academic Services, financial obligations will remain binding, regardless of whether classes were attended or whether any contracted services were utilized.
- If a student does not withdraw from a course by the end of the sixth week of the quarter, but stops attending the course, the student will receive the grade earned.
- Should the student desire to complete the course during a future quarter, the student will be required to register and pay the current tuition for the course.

### Complete Withdrawal From School

A student who desires to withdraw from school must obtain an official Add/Drop form from Student Academic Services, submit a letter requesting a complete withdrawal, or withdraw via the Web. The Web withdrawal is available only until 5 p.m. on through the fifth day of the quarter. Refunds and adjustments to the student's account are governed by the financial policies printed in the Costs and Financial Aid section.

A student who registers but does not attend classes must notify Student Academic Services in writing in order to cancel his or her registration and related charges. The date this notice is received will determine the amount of refund where applicable.

To be eligible for a refund of parking fees, the student must inform the Office of Safety and Security. Parking refunds are calculated in accordance with the tuition refund policy.

If a student fails to withdraw through Student Academic Services by the end of the sixth week of the quarter, the student will receive the grade earned.

### Administrative Withdrawals Requested by Instructors

If the instructor or advisor receives notification that a student will not be attending, the instructor may contact Student Academic Services and request that the student be administratively withdrawn from the course. Also, if a student does not attend class within the first two days of the quarter, an instructor may ask Student Academic Services to administratively withdraw a student from the class. If a student knows that he or she will miss the first class, it is best to notify the instructor to avoid being withdrawn from the class.

### Administrative Withdrawals Requested by Student Financial Services

Student Financial Services has the right to have a student completely withdrawn from classes due to an unpaid balance.

## Special Programs and Courses

### Credit by Examination

Currently enrolled matriculated students may take special examinations in approved academic subject matter offered by Seattle Pacific University to gain credit without being enrolled in specific courses. The procedures for obtaining permission and filing the request are to be obtained in Student Academic Services. The following limitations pertain to credit by examination:

1. A student may receive credit by examination for any coursework that has been completed following high school graduation for which he or she has no formal record.
2. A student may be tutored by a private instructor and challenge a course for credit by examination.
3. A student may not take credit by examination for a course in which he or she has been registered for credit at SPU and received a "D," "E," "NC," "Audit" or "Incomplete."
4. A student may earn a maximum of 45 quarter credits by examination, including SPU Challenge Examinations, Advanced Placement (AP) and College Level Examination Program (CLEP), and the Proficiency Examination Program (PEP), none of which will apply to the 45-hour resident requirement.
5. Within a given major, no student may receive credit by examination in subject matter more elementary, as determined by the dean of the school, than that for which credit has been received previously.
6. A student may not repeat an examination for credit.
7. A student may not receive credit by examination for lower-division language courses in the student's native language, if that language is other than English.
8. A student is entitled to only one consultation with the professor administering the test.
9. A student must pay for all special exam fees prior to scheduling and taking the exam.

### Independent Study

Independent Study agreements are courses where a student does specific work independently with the instructor, as outlined in the official Independent Study Agreement. Work for an independent study occurs outside of the classroom setting. An independent study should be created only when a needed class is not available for a particular quarter, or when a student cannot accommodate a class in his or her schedule. Students should not attend a

class being offered and use that as part of the independent study credits. Only matriculated students at Seattle Pacific University may register for Independent Study. Independent studies are permitted for work within Seattle Pacific University's Educational Service District, which lies within a 50-mile radius of the campus. The form must be completed by the student and signed by the instructor and the dean or department chair. The instructor and student must meet on a regular basis for the number of consultations noted in the agreement.

Registration for an independent study must be submitted to Student Academic Services no later than the 10th day of the quarter (see University Calendar for specific dates). Student Academic Services will create the course as noted on the agreement. Copies of the agreement will be forwarded to the instructor and the student.

### Travel Studies Program

Throughout the academic year and summer there are several programs that Seattle Pacific University offers or participates in that allow students to study in other geographic locations. These study opportunities are divided into three categories: SPU credit, transfer credit and individual travel studies credit. They are as follows:

**SPU Credit.** Classes that offer Seattle Pacific University credit are scheduled and listed in the *Time Schedule* and *Undergraduate Catalog*. In order to receive credit students are expected to register for the courses no later than 30 days prior to leaving for the tour. Students may be eligible for financial aid while participating in the SPU Travel Studies program; however, students should check with Student Financial Services for complete details. An SPU faculty member is responsible for coordinating and grading the students in the program. To obtain more information on the travel studies program through SPU, contact Student Academic Services or the appropriate department.

**Transfer Credit.** There are also programs outside of Seattle Pacific University that are offered for credit through other institutions. Students may take a leave of absence from SPU for the duration of the travel study program. Limited financial aid may be available. Check with Student Financial Services for complete details. For further information, check with the department that is sponsoring the program.

**Individual Travel Studies.** This program allows travel study for educators at the 5000 level. For more information, contact the School of Education.

### Veterans' Benefits

Seattle Pacific academic programs of study are approved by the Higher Education Coordinating Board's State Approving Agency (HECB/SAA) for enrollment of persons eligible to receive educational benefits under Title 38 and Title 10, U.S. Code. For information on education benefits, contact the veterans' coordinator in Student Academic Services.

# Grading

## Grades and Points

Except in cases of clerical error, no instructor may change a grade that he or she has submitted to Student Academic Services. The quality of a student's performance in a course is recognized by a letter mark or grade, that is counted in points. Grade points (or quality points) are the numerical equivalent of letter grades and are assigned for each credit earned with a given grade according to the scale indicated below. For example, an "A" in a 5-credit course would give the student 20 grade points. These points express the quality of a student's performance in terms of numbers for the purpose of determining scholastic achievement and individual and graduation honors.

## Grade Point Average

A student's grade point average (GPA) is determined by dividing the total number of grade points earned during a given period by the number of credits for which the student was enrolled and for which he or she received a regular grade during the same period. For example, if a student earns 45 grade points during a quarter in which he or she is enrolled for 15 credits, his or her GPA for the quarter will be 3.00.

Grade	Points	Explanation
A	4.0	Excellent Attainment
A-	3.7	
B+	3.3	
B	3.0	Highly Satisfactory Attainment
B-	2.7	
C+	2.3	
C	2.0	Satisfactory Attainment
C-	1.7	
D+	1.3	
D	1.0	Insufficient Attainment with credit allowed
E	0.0	Insufficient Attainment with no credit allowed
Au		Audit
P		Pass (used only with the Pass/ No Credit option)
NC		No Credit (used only with the Pass/No Credit option)
I		Incomplete
N		In Progress
W		Withdrawal with official approval

## Use of I, N, W Grades

The "I" grade (incomplete) indicates that the student did not complete the work assigned for a course because of absence from school during the quarter due to illness or an acceptable emergency. Work must be completed within one calendar year or the "I" becomes an "E." The "I" grade can be given only with the approval of the school dean upon written recommendation of the instructor. The authorization form must be presented to the instructor before the final examination. The student must initiate the request for the "I" grade as well as for its removal.

The "N" grade is used only in specified courses in which a "final" grade is dependent upon additional work. The "N" grade indicates that work is satisfactory to date,

but carries with it no credit or "final" grade until all work is completed. Work must be completed within one calendar year or the "N" becomes permanent.

Withdrawal from a course with official approval during weeks three through six of the quarter will result in a "W" appearing on the transcript.

## Audit

Any SPU course may be audited, with the exception of some graduate courses. Please refer to the *Graduate Catalog* for additional information. Students may change from audit to credit or vice versa during the quarterly registration period as published in the University Calendar. For more information regarding auditing a course, please refer to the Student Class Status section.

## Pass/No Credit Option

1. A "P" grade in this option must be at least equivalent to a "C" grade (2.0).
2. Students may elect the P/NC option for the number of courses specified in the schedule below to apply toward a bachelor's degree. Limitations in item 3 below apply. Classification at entrance:  
Freshman - 30 credits  
Sophomore - 20 credits  
Junior - 15 credits  
Senior - 5 credits
3. No more than one course per quarter; no courses in major or minor; no Foundations courses; no courses in general education, University Seminar, University Foundations or University Core.
4. 6000 level courses may not be taken for P/NC credit, with the exception of thesis, dissertation, research and projects, to be determined at the discretion of the schools.
5. For those students who transfer to SPU, no "Pass" credits will be accepted for major or general education requirements (except within the College Transfer Program with the associate degree).
6. P/NC form must be on file in Student Academic Services by the 10th day of the quarter.

## Repeat/Substitute Courses

Students may repeat any course for the purpose of changing a grade unless the course is designed to be repeated for additional credit. Courses noted as being "equivalent" may be substituted for one another. The latest grade received in a course will apply both to the GPA for graduation and for honors at graduation. The original course will still appear on the transcript; however, the grade and credits will be excluded from the overall GPA and credit total. Only courses taken at SPU will be used to change course grades.

## Academic Probation

An undergraduate student attempting 6 credits or more at SPU will be placed on first quarter academic probation when his or her cumulative grade point average first falls below a 2.00. Once on probation, any student who earns a quarterly

GPA of 2.40 or higher, yet fails to raise the cumulative GPA to 2.00 or above, will be put on probation hold. Once placed on probation hold, the student retains the same probation status as held the previous quarter, but does not move toward dismissal. The second consecutive quarter the cumulative GPA remains below 2.00 and the quarterly GPA is below 2.40, the student will be placed on second-quarter academic probation; the third consecutive quarter the cumulative GPA remains below 2.00 and the quarterly GPA is below 2.40, the student will be dismissed from the University. The academic dismissal will be noted on the student's academic record.

Students on first-quarter probation are required to meet with their counselor in Student Academic Services to develop a contract that outlines goals and appropriate means to meet those goals toward achieving academic success. This meeting must occur before the fifth day of the quarter. Students on second-quarter probation may not enroll in more than 13 credits and must meet with their counselor before the fifth day of the quarter to make appropriate changes in their class schedule. Such changes may include enrolling in study-skills classes.

A student dismissed from the University may appeal to the Academic Probation Committee for reinstatement through the University registrar. If an appeal is denied, a student may appeal again after the lapse of one year. Once reinstated, the student's GPA is the same as when dismissed; the student may not use grades from other colleges and universities to raise the SPU GPA. A reinstated student may not enroll for more than 13 credits in the quarter in which the student is reinstated. A reinstated student will be dismissed if he or she fails to attain either a quarterly GPA of 2.40 or higher or a cumulative GPA of 2.00 or above by the end of the first quarter that person returns.

If a student on academic probation leaves the University, that person resumes the same probation status upon returning as when leaving. The student is removed from probation at the end of the quarter in which a cumulative GPA of 2.00 or better is achieved. A senior will not receive a degree until he or she is removed from academic probation.

# Graduation

Graduation application forms for undergraduate or second baccalaureate degrees are available in Student Academic Services. Students are expected to apply for graduation during Academic April of their junior year (when approximately 120 credits have been earned). Graduation application deadlines are:

Intending to Graduate	Deadline
Spring/Summer	September 1
Autumn	March 1
Winter	June 1

Students who meet the graduation application deadlines will receive information on their academic progress prior to their anticipated quarter of graduation. Students who do not meet the application deadline may not receive academic progress reports or have their name appear in the Commencement brochure.

## Academic Honors

### Dean's List or Quarterly Honors

Quarterly honors are awarded to those undergraduate and post-baccalaureate students in good standing who have completed at least 12 hours of work and attained a 3.50 or higher grade point average. Students who have earned any of the following grades will not qualify for honors: E, NC, I or N. However, once the temporary grade of N or I has been replaced by the grade earned, honors may be awarded to qualified students.

### Graduation Honors

Baccalaureate degrees will be conferred with honors for undergraduate students based on the following criteria:

1. The student must have completed 75 quarter hours in residence with junior and senior standing at SPU.
2. Honors are based on the SPU GPA only.
3. All courses taken at SPU (except ESL and other courses numbered below 1000) are included in the GPA for honors and must meet the minimum grade point average required for the honor.

Honors for post-baccalaureate students require the minimum GPA in the entire work necessary for the degree including the 45 credits required in residence.

Students must meet the graduation application deadlines to have honors appear in the Commencement program. Graduation honors are computed for the Commencement program on the basis of work completed through Winter Quarter for Spring Quarter graduates. Students who complete degrees during Summer Quarter are not eligible for recognition until completion of all degree requirements.

Honor	Grade Point Average
Cum Laude	3.50-3.74
Magna Cum Laude	3.75-3.89
Summa Cum Laude	3.90-4.00

### The President's Citation

The President's Citation is awarded each year to the graduating senior who has demonstrated distinguished academic achievement in the context of a Christian liberal arts program. To be eligible for this award, the student must have taken all of his or her university work at SPU and must have adhered consistently to the ideals of the University. The president will make the selection.

### Alpha Kappa Sigma

Undergraduate students who have earned 90 credits at SPU and who are in the top 10 percent of the graduating class are eligible for election to the honor society Alpha Kappa Sigma. This honor society has chapters in all the colleges of SPU's sponsoring denomination. During their

senior year, candidates are recommended by an academic policies committee and elected by vote of the faculty.

### Honoraries

The Ivy Honorary, a chapter of National Mortarboard, Inc., selects students for membership at the end of their junior year who have distinguished themselves through scholarship, leadership and service. Other SPU honoraries include Centurions (men's service honorary), Falconettes (women's service honorary), Order of the S (athletics), Sigma Beta Delta (business), Pi Kappa Delta (speech), Alpha Psi Omega (drama), Mu Phi Epsilon (music), Lambda Iota Tau (English), and the Servant Scholar of the Year (Student Life).

### Who's Who in American Colleges and Universities

A number of seniors are elected to Who's Who in American Colleges and Universities each year. This honor is awarded to students who will graduate from SPU, have a cumulative GPA of 2.75 or above, uphold the ideals of SPU and demonstrate leadership in co-curricular activities. Candidates are recommended during their senior year by the faculty.

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Academic Policies  
and Procedures

## Transcripts

Official transcripts are released only on written authorization of the student whose records are requested. Seattle Pacific University reserves the right to deny official transcript services for indebtedness to the institution. Official transcripts may be released to students. Students may view an unofficial copy of their transcript on the SPU Web site. If the student has an account, official transcripts are released only if the account is paid in full. A \$3 fee for each official transcript is charged. Students may request an unofficial copy of their transcript at no charge. Unofficial transcripts may be viewed and printed by accessing the BANNER Information system on SPU's home page.

Transcripts contain the student's entire academic history while at SPU. Undergraduate, graduate, doctoral work and CEUs are segregated on separate pages of the SPU transcript. Although a copy of the transcript may be requested at any time, updated transcripts will be available after final grades have been submitted and recorded.

To receive a copy of the transcript, students must send a written request to Student Academic Services. The letter needs to include the name under which the student attended; social security number; the last quarter and year the student attended; whether the student is enrolled in a current quarter of instruction and the number of classes enrolled in for that quarter; destination of the transcript; student signature; and the number of official or unofficial copies required.

SPU will resend a transcript to the originally requested institution provided the University made an error in processing. We must, however, be contacted within three

months of the original request. After the three-month grace period, a separate written request must be submitted. The University reserves the right to approve or deny any request for resending a transcript for any reason other than University error.

### Changes in Personal Information

It is the student's responsibility to notify the University of any changes to their permanent or mailing addresses. This will enable the University to forward important quarterly materials to students. Change of Address forms are available in the following offices: Student Academic Services, Student Financial Services and Residence Life.

Students who wish to change their name (e.g., due to change in marital status) or student identification number, need to provide Student Academic Services with the official documentation for the change (e.g., copy of marriage license, copy of social security card).

## Transportation Policy

Academic courses usually do not require the transportation of Seattle Pacific University students from campus to another location unless so stated in the course syllabi. If the course or event is to be convened at the remote location, students will be required to provide their own transportation to the site. Unless specifically stated, the University normally assumes no responsibility for determining transportation of students to the site of a course.

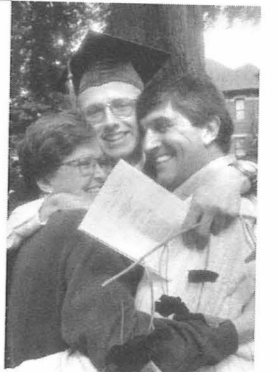
Unless specifically stated, the University is not responsible for transportation of students to non-academic activities, whether such activities occur on or off campus. Students will be responsible for their own transportation to such activities.

If transportation of SPU students is in University-owned or sponsored vehicles, drivers must have passed a defensive driving course, possess a current driver's license and have authorized a check of their driving records. Safety and Security need not be notified of all officially sponsored travel.

Any exception to this policy must be approved in advance and in writing by the vice president for business and planning.

# Baccalaureate Degree Requirements

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# Baccalaureate Degree Requirements

Though Seattle Pacific University makes every effort to provide students with effective academic advising, the final responsibility for meeting all academic and graduation requirements rests with each individual student. The *Undergraduate Catalog* under which the student enters serves as the official record of admission, general academic and general graduation requirements, with the exception of standards governing the completion of a major and/or minor. The quarter in which a student is accepted by the school or department offering the major or minor will determine the *Undergraduate Catalog* from which the major and/or minor requirements will be applied. Advising by University personnel inconsistent with published statements is not binding. Reasonable substitutions for specific requirements may be requested through petition to the University registrar. Degrees are awarded and posted to transcripts based on the date all degree requirements have been fulfilled. Degrees are posted within one quarter after the last quarter of enrollment. (For processing of student appeals and exceptions of all types, see the Student Life section for details.)

## Degree Requirements

All undergraduate students entering Seattle Pacific University Autumn Quarter 2002 follow the same general education curriculum to complete their undergraduate degrees. This curriculum, called "Degree Path One" in previous SPU catalogs, includes the Common Curriculum (including the University Seminar, University Core and University Foundations courses) and the Exploratory Curriculum.

## Graduation Requirements

For Common Curriculum Program and University Scholars Program

### Specific Requirements and Policies

1. A minimum of 180 college-level credits.
2. A cumulative grade point average of at least 2.0 in all courses applicable to the degree.
3. A cumulative grade point average of at least 2.0 in all courses taken at Seattle Pacific University.
4. At least 60 credits earned in courses numbered 3000-4999.
5. At least 45 college-level credits earned in residence as a matriculated student. Credits earned by examination do not satisfy the residence requirement. If only one year is taken at Seattle Pacific University, it must be the senior year.
6. "Pass" grades do not count for courses in the major or minor; no Foundation courses; no courses in the Exploratory Curriculum; University Seminar, University Foundations or University Core.
7. The last 15 credits prior to degree completion must be earned in residence.
8. Achievement of satisfactory scores on required proficiency test in mathematics and placement test in English or completion of required remedial coursework.
9. Satisfactory completion of an academic major.
10. Incoming freshmen and sophomores are required to complete 8 credits in writing courses; incoming juniors are required to complete 5 credits; and incoming seniors are required to complete 3 credits. (See section on Writing Courses.)
11. Students are expected to apply to a major at the start of their junior year. Application for major forms are available in the school or division office. Students will be notified by Student Academic Services if they have not been accepted to a major but have completed 120 or more credits at SPU. All degree requirements for a major or minor are based on the *Undergraduate Catalog* year of acceptance to the major or minor. For example, a student declaring a major in Autumn Quarter 2002 is subject to all major requirements listed in the 2002-2003 *Undergraduate Catalog*.

12. Policies and procedures for baccalaureate degree completion are as follows:
  - a. Students must be accepted into a major prior to applying for graduation. Students are responsible for applying for graduation. Applications are available in Student Academic Services. Application deadlines appear under the Graduation section of the *Catalog* (page 55).
  - b. A transfer student with junior or senior status must apply for acceptance into a major after completing 15 SPU credits.
  - c. Students may change their application for graduation and should notify their undergraduate academic counselor of the change at least one quarter in advance of the previous intended quarter.
  - d. Degrees will not be posted to student academic transcripts nor diplomas ordered until all requirements are completed, including any outstanding "I" and "N" grades.
  - e. The official record of degree completion is the official SPU academic transcript.

There are four areas of competency students must meet to receive a bachelor's degree from Seattle Pacific University. These competencies may be fulfilled in a variety of ways. All undergraduate students at Seattle Pacific must demonstrate math and English competency early in their career at SPU and as a condition of graduation. In order to determine competency and assign any necessary remedial coursework, proficiency tests are administered to incoming students. Math exams are to be taken before the first week of study at the University. They are administered during Premiere, Orientation 2002 (Autumn Quarter student orientation) and at other times throughout the year. The English Placement Test is taken in the University Seminar (USEM 1000), during the first quarter of the student's freshman year. Transfer students who are required to take the test may do so at Premiere, at Orientation 2002 or at other times throughout the year. Students will not be permitted to register for their second quarter until these tests have been taken or the student registers for all necessary remedial coursework. Math and English competencies must be completed within the first three quarters of attendance at SPU. Foreign language competency and writing requirements must be met before a degree is awarded. Unless stipulated by their major, post-baccalaureate students are not required to take the proficiency or placement tests.

### Math Skills Competency

Competency in basic mathematics is essential in our technologically oriented society. Students may demonstrate competency in basic mathematics in one of the following ways:

1. By scoring 500 or more on the math portion of the SAT-I exam, if taken prior to April 1995.
2. By scoring 580 or more on the math portion of the SAT-I exam, if taken April 1995 or later.
3. By scoring 25 or more on the math portion of the ACT test.
4. By receiving a grade of "C" (2.0) or better in a transferable college-level calculus course, or its equivalent. (Survey of calculus classes do not meet this requirement.)

5. By passing the University's Mathematics Proficiency Examination.
6. By completing all 5 credits of work in MAT 0121-MAT 0125 at the required level of proficiency during the first year of enrollment. If after taking the University's Mathematics Proficiency Examination, 5 credits are required, a student may take MAT 0131 (2 credits) and MAT 0132 (3 credits) to meet this competency.

The mathematics proficiency test covers pre-high school mathematics and emphasizes problem-solving. An analysis of errors is done and areas of weakness are determined. Any student whose score on this test falls below accepted college entrance level norms will be required to strengthen these areas of weakness through work in arithmetic review courses during the first year of registration. Before students are permitted to take any mathematics courses (other than arithmetic review) or any courses using mathematics, they must either pass the Mathematics Proficiency Exam or complete the required work in MAT 0121-MAT 0125, or if 5 credits are required a student may take MAT 0131 (2 credits) and MAT 0132 (3 credits).

Arithmetic review courses are not considered college-level courses. Credits earned in MAT 0121-MAT 0125 do not count toward the 180 minimum credits required for graduation.

### Writing Skills Competency

The ability to write well in English is essential to becoming a liberally educated person and an able Christian communicator. During their first quarter, students who have not already taken and passed, with a grade of "C" or better, a college-level writing (composition) course on a college or university campus are required to take the English Placement Test, which samples their writing. (AP credit in English composition does not substitute, in this context, for a college-level writing course. Nor does any composition course taken as part of "Running Start" or other "college in the high schools" program.) Any student who wishes to enter Professional Quarter 1 of teacher certification must take the English Placement Test prior to entering Professional Quarter I, regardless of any writing coursework he or she has taken.

Students whose score on this test indicates they do not yet write on the college level will be required during their first year of registration to enroll in a designated section of Intermediate College Writing (ENG 2201) and simultaneously ENG 0102, a writing tutorial attached to this section of ENG 2201. Taken in tandem, these courses are intended to raise students' writing ability to the college level. (Credits earned in ENG 0102 do not count toward the 180 minimum credits required for graduation.) Students whose scores indicate that they can write minimally at the college level but need the intermediate course in writing (ENG 2201) in order to succeed in college will be required to take that course.

All required coursework in writing must be completed by the end of a student's fifth quarter at SPU.



**Foreign Language Competency**

For many students, the general education foreign language competency requirement will be met by taking a one-year course. However, there are several alternative ways of meeting this requirement listed below:

1. Show by your high school transcript that you have completed a third-year course in a foreign language (grades 9-12) with a minimum grade of "C" (2.0) in the final year or a minimum grade of "C" (2.0) in the final course.
2. Be a native speaker of a language other than English.
3. Attain a grade of "C" (2.0) or better in the third quarter or above of an SPU course in a language other than modern English.
4. Obtain a professional reference attesting to proficiency in a language other than English. For example, a student who has lived for years in another culture might request a reference from a professional who has lived among or worked with the same language/culture group.
5. Transfer a course equivalent to, or more advanced than, 1103 (the third quarter in an elementary-level SPU course) in a language other than English. The course must have been taken at an accredited post-secondary institution whose credits are accepted for transfer by SPU. The grade in the transferred course must be "C" (2.0) or better.
6. Take a proficiency test and achieve a "passing" rating in a language other than English. The test should be administered by a qualified testing center such as a college or university and the results sent to Student Academic Services. If the test is not administered by SPU, a description of the test with the criteria for achieving a "passing" rating should accompany the results.
7. Enter SPU with advanced placement test credits in a language other than English.
8. Take a CLEP test in a language other than English. A score in the 50th percentile on a CLEP test is the minimum accepted by SPU.
9. American Sign Language (ASL) that has been taken at the college or university level may be used to fulfill the SPU foreign language requirement if the time spent in classroom instruction is equal to the 15-credit requirement. No other forms of sign language satisfy the requirement.

*Note: The languages offered through the regular curriculum at SPU are French, German, Latin, Russian and Spanish. Other languages are offered through the College of Arts and Sciences in affiliation with the Washington Academy of Languages (WAL). Students wishing to meet the requirement with WAL courses should see an academic counselor regarding the level that must be reached at WAL to meet the SPU requirement. A student wishing to meet the general education language requirement by a competency test in a language other than one that is part of the regular curriculum will be assessed a fee if SPU arranges for the test.*

**Foreign Language Substitution Policy for Documented Disability**

Qualified students with current professional documentation of less than five years, which specifically certifies that the student possesses a disability, and clearly indicates the inability to successfully complete a study of a foreign language, may be able to utilize the Foreign Language Substitution Policy as the means to satisfy the general education foreign language requirement. Contact the Center for Learning for more information.

**Writing ("W") Courses**

Courses designated as writing courses (3000- and 4000-level) offer a substantial component of writing designed to reinforce students' earlier work in writing. At the same time, they provide instruction in the technical and stylistic requirements of writing appropriate to a particular discipline. In these courses, students are expected to write at least two papers and a minimum of 3000 words or about 12 pages of final draft prose. Faculty members spend at least one class period providing instruction in writing, and they evaluate written work for both content and form — not only for what is said, but also for how it is said. These courses normally provide opportunities for revision as well.

**The Common Curriculum**

(35 credits)

**University Seminar**

University Seminar (USEM) 1000 - University Seminar (5)

**University Core**

University Core (UCOR) 1000 - Character and Community (5)  
University Core (UCOR) 2000 - The West and the World (5)  
University Core (UCOR) 3000 - Belief, Morality and the Modern Mind (5)

**University Foundations**

University Foundations (UFDN) 1000 - Christian Formation (5)  
University Foundations (UFDN) 2000/3001 - Christian Scriptures (5)  
University Foundations (UFDN) 3100 - Christian Theology (5)

**The Exploratory Curriculum**

(40 credits)

**Arts and Humanities (AH)**

(10 credits B.S., 15 credits B.A.)

**A. Arts (Art, Music, Theatre) ..... 3-6 credits**

Choose from among the following courses:

ART 1102 Drawing Studio (3)  
ART 1103 Drawing Studio (3)  
ART 1104 Drawing Studio (3)  
ART 1180 The Visual Arts (3)\*  
ART 1181 The Visual Arts Lab (2)\*  
ART 2302 Painting Studio-Oil or Acrylic (3)

ART 2422 Metals Studio (3)  
ART 2428, ART 3428, ART 4428 Media Studio-Ceramics (3 each)  
ART 3602 History of Ancient Art (5)  
ART 3603 History of Christian Art (5)  
ART 3604 History of Renaissance Art (5)  
ART 3605 History of Modern Art (5)  
ART 3606 History of Asian Art (5)  
ART 3607 History of American Art (5) [Writing course]  
EUR 3100 Foundations of European Art (2)  
FCS 1710 Design Fundamentals (5)  
FCS 2870 Seeing History Through Clothes (5)  
FCS 3870 History of Costume (5) [Writing course]  
FPA 4100 Arts and Religious Experience (5) [Writing course]  
MUS 1600 Exploring and Understanding Music (5)  
MUS 1250, 1251 Keyboard Class (2)  
MUS 1260, 1261 Class Instruction: Voice (2)  
MUS 2305 or MUS 4305 Women's Choir (2)\*\*  
MUS 2311 or MUS 4311 Jazz Ensemble (1) \*\*  
MUS 2312 or 4312 Men's Choir (2)\*\*  
MUS 2313 or MUS 4313 Vocal Jazz Ensemble (1)\*\*  
MUS 2350 or MUS 4350 Concert Choir (2)\*\*  
MUS 2351 or MUS 4351 Symphonic Wind Ensemble (2)\*\*  
MUS 2353 or MUS 4353 Symphony Orchestra (2)\*\*  
MUS 2604 Soundscape (5)  
MUS 2605 Survey of Popular Music (5)  
MUS 2654 World Music (3)\*  
MUS 2655 World Music Lab (2)\*  
MUS 3401 Music and Worship (2)  
MUS 3602 Magic of Opera (5)  
MUS 4401 Song of the Church (3)  
MUS 4402 History and Appreciation of Jazz (5)  
TRE 1110 The Theatre Experience (5)  
TRE 2780 (COM 2780) Introduction to Film (5)  
TRE 3780 (COM 3780) Introduction to Film (5)  
TRE 1310 The Actor's Art (5)  
TRE 1340 Acting I: Fundamentals (5)  
TRE 1930, 3930 Performance Practicum (2)\*\*  
TRE 1931, 3931 Production Practicum (2)\*\*  
TRE 2420 Theatre and Drama: Tragedy (5)  
TRE 2421 Theatre and Drama: Comedy (5)  
*\*Must take both lecture and lab simultaneously to fulfill category requirements.  
\*\*May be repeated for up to 6 credits toward Exploratory Curriculum requirements.*

Elementary education certification students may take MUS 3500 Fundamentals of Music for Future Teachers (2) and MUS 3501 Elementary Methods and Materials (3), or MUS 3502 Music in Special Education (3) toward arts credit.

**B. Humanities (Classics, Communication, English, European Studies, Philosophy) ..... 3-6 credits**

Choose from among the following courses:

CLA 3100 Ancient Civilization (HIS 3100) (5)  
CLA 3104 Survey of Ancient Greek Literature (5)  
CLA 3170 Classical Civilization (HIS 3170) (5)  
CLA 3204 Survey of Classical Latin Literature (5)  
[Writing course]  
CLA 3304 Latin Literature Pre-Modern Christian (3)  
COM 1101 Intro to Interpersonal Communication (5)  
COM 1321 Public Speaking (5)

ENG 1110 Literature and Faith (5)  
ENG 2230 Literature of the American West (5)  
ENG 2234 Literature by Women (5)  
ENG 2248 New International Fiction (5)  
ENG 3334 American Ethnic Literature (5)  
EUR 1110 Heritage of Europe (5)  
EUR 3287 Mythology in Literature (5) [Writing course]  
FRE 2101, 2102, 2103 Niveau Intermediaire (5 each)  
FRE 3105 Composition Conversation (3)  
FRE 3205 Topics in French Literature (5)  
GER 2101, 2102, 2103 Das Zweite Jahr (5 each)  
GER 3206 Topics in German Language and Literature (5)  
GRK 4920 Readings in Classical Greek (3-6)  
HUM 3000 Other Peoples, Other Faiths (5)  
LAT 4920 Readings in Classical Latin (3-6)  
LIN 2100 Foundations of Language Study (3)  
PHI 1001 Power of Logic (5)  
PHI 1002 History of Ethics (5)  
PHI 1003 Knowledge of Truth and Reality (5)  
PHI 1004 Survey of Western Philosophy (5)  
PHI 1100 Faith and Philosophy (5)  
PHI 2999 Aesthetics (3)  
SPN 2101, 2102, 2103 Intermediate Spanish (5 each)  
SPN 4401 Topics in Spanish Literature (3)  
SPN 4501 Topics in Latin American Literature (3-5)  
*For education certification students only: EdRd 4516 (3)  
Children's Books may be taken toward credit in category B.*

**C. One Additional Course in a Third Arts or Humanities Subject ..... 3-6 credits**

Choose an additional course from either category A or B since a course in at least three disciplines is required to complete the 15-credit arts and humanities requirements. B.S. degree students who have earned 10 credits in categories A and B are not required to choose an additional course.

**Social Sciences (SS)**

(10 credits)

**A. Anthropology, Psychology, Sociology ..... 5 credits**

Choose from among the following courses:

ANT 1110 General Anthropology (5)  
ANT 2250 Cultural Anthropology (5)  
PSY 1180 General Psychology (5)  
SOC 1110 Introduction to Sociology (5)  
SOC 2310 or SOC 4310 Foundations of Social Service (5)

**B. Economics, Geography, History, Political Science ..... 5 credits**

Choose from among the following courses:

ECN 1100 Fundamentals of Economics (5)  
ECN 2101 Microeconomics (5)  
ECN 2102 Macroeconomics (5)  
GEO 1110 World Regional Geography (5)  
GEO 3170 Geopolitics (POL 3170) (5)  
GEO 3500 Geography of Natural Resources (5)  
HIS 1200 Ancient and Medieval Worlds (5)  
HIS 1201 Medieval Europe (5)  
HIS 1202 Modern Europe (5)  
HIS 2502 The U.S. to 1876 (5)  
HIS 2503 The U.S. Since 1876 (5)

- HIS 3345 Modern Russia (POL 3345) (5) [Writing course]  
 HIS 3440 International Peace and World Order (POL 3440) (5)  
 HIS 3501 Colonial and Revolutionary America (5)  
 [Writing course]  
 HIS 3670 American Foreign Relations (POL 3670) (5)  
 [Writing course]  
 HIS 3710 Comparative Non-Western History (5)  
 [Writing course]  
 HIS 3720 Rise of Islamic Civilization (5) [Writing course]  
 HIS 3730 Modern Middle East (5) [Writing course]  
 HIS 3765 Traditional East Asia (5)  
 HIS 3785 Modern East Asia (5)  
 POL 1110 Introduction to Politics (5)  
 POL 1120 American Government and Politics (5)  
 POL 2330 International Relations (5)  
 POL 2641 Christianity and American Politics (5)

### Natural Sciences (NS)

(10 credits B.A., 15 credits B.S.)

#### A. Biological Science ..... 5 credits

Choose from among the following courses:

- BIO 1100 Biological Science (5) Specific topics offered  
 BIO 1100 Biological Science: Human Nutrition (5)  
 BIO 1100 Biological Science: Human Biology (5)  
 BIO 1100 Biological Science: Biological Diversity (5)  
 BIO 1100 Biological Science: Marine Biology (5)  
 BIO 1100 Biological Science: Environment (5)

BIO 2101, BIO 2102, BIO 2103 General Biology (5 each)  
 BIO 2129, BIO 2130 Anatomy and Physiology (5 each)

#### B. Physical Sciences ..... 5 credits

Choose from among the following courses:

- CHM 1100 Introduction to Chemistry (5)  
 CHM 1110 Introduction to Nature of Science (PHY 1110) (5)  
 CHM 1211 General Chemistry (5)  
 CHM 1330 Organic and Biological Chemistry (5)  
 PHY 1101, PHY 1102, PHY 1103 General Physics (5 each)  
 PHY 1121, PHY 1122, PHY 1123 Physics for Science and  
 Engineering (5 each)  
 PHY 1135 Astronomy (5)  
 PHY 1142 Earth Systems Sciences (5)  
 PHY 1150 Introduction to Geology (5)

### Mathematics (MA)

(5 credits)

Choose from among the following courses:

- BUS 2700 Statistics for Business and Economics (5)  
 HSC 4044 Biomedical Tests, Measurements and Statistics (5)  
 MAT 1221 Survey of Calculus (5)  
 MAT 1225 Calculus I (5)  
 MAT 1360 Introduction to Statistics (5)  
 MAT 1521 Introduction to Contemporary Math (5)  
 MAT 2530 Survey of Mathematics I (3)\*\*  
 MAT 2531 Survey of Mathematics II (2)\*\*  
 SOC 2360 Introduction to Statistics in SBS (PSY 2360) (5)

\*\*For education certification students only: Taken prior to or concurrently with Professional Quarter 2

## University Scholars Program

(51 credits)

University Scholars program is for students who have been invited into this special program.

### UScholars Courses

(36-38 credits)

- USCH 1000 University Scholars Seminar (5)  
 USCH 1111 Texts and Contexts I (5)  
 USCH 1112 Texts and Contexts II (5)  
 USCH 1113 Texts and Contexts III (5)  
 USCH 3910 Faith and Science I (5)  
 USCH 4910 Faith and Science II (5)  
 USCH 4950 Christianity and Scholarship (2)  
 USCH 4960 Honors Project I (2)  
 USCH 4965 Honors Project II (2-4)

### Foundations

(15 credits)

- UFDN 1000 Christian Formation (5)  
 UFDN 2000 Christian Scriptures (5)  
 UFDN 3100 Christian Theology (5)

## The Major Curriculum

### Specific Standards Governing Completion of a Major

1. A major requires a minimum of 45 credits. A minimum of 23 credits is required in courses numbered 3000-4999, although some programs require more. No more than 75 credits may be required or controlled by a school in designating requirements for a major without review and approval of the Undergraduate Policies and Evaluation Committee.
2. A major is required for completion of either the bachelor of arts or bachelor of science degree.
3. A transfer student must earn a minimum of 15 upper-division credits in a major at Seattle Pacific University.
4. Major requirements must be met in full. These requirements of proficiency in depth and breadth are specified in the sections of the *Undergraduate Catalog* assigned to the various schools or departments of the University. These requirements state total credits, upper-division credits, prescribed courses and supporting courses. For a list of approved majors, see the section titled "Areas of Instruction."
5. Coursework with a "P" or a grade below "C-" (1.7) may not be applied to a major.
6. The student must apply for a major and be accepted by the school or department in which he or she plans to complete a major. The acceptance date determines the *Undergraduate Catalog* under which major requirements will be applied.
7. The school or department in which a student completes a major must certify to Student Academic Services that he or she has satisfactorily met the evaluative and proficiency standards for such a major.

8. A student may simultaneously complete a double major. Both majors may be in a B.A. category, or two majors in a B.S. category, or one in a B.A. category and one in a B.S. category. All requirements for each major must be completed prior to the granting of the bachelor's degree.

### Specific Standards Governing Completion of a Minor

1. Students are not obligated to specify a minor area of study in order to receive the B.A. or B.S. degree. However, a student must be working toward a major in order to earn a minor.
2. A minor requires a minimum of 30 credits but may not require more than 45 credits. A minimum of 15 credits is required in courses numbered 3000-4999. Requirements for specific minors may be found in the school or department sections of this *Undergraduate Catalog*. For a list of approved minors, see the *Undergraduate Catalog* section titled Areas of Instruction.
3. Coursework with a "P" or a grade below "C-" (1.7) will not be applied to a minor.
4. A transfer student must earn a minimum of 15 credits in a minor at SPU, 10 credits of which must be in upper-division courses.
5. In all cases it is necessary to apply for and be accepted for the minor field. This determines the *Undergraduate Catalog* under which minor requirements will be applied.
6. The school or department in which a student completes a minor must certify to Student Academic Services that he or she has satisfactorily met all requirements for the minor.

### Limitations on Credit Applicable Toward a Degree

1. No more than 30 resident or transfer credits earned via correspondence and/or distance learning courses (i.e., courses marked "-M" at SPU) may be applied to a bachelor's degree.
2. Seattle Pacific University may accept up to 90 credits combined total from community colleges, junior colleges, unaccredited Bible colleges or institutes and AP/CLEP/PEP exams toward a baccalaureate degree. See limits under Credit by Exam.
3. A student may earn up to 10 credits toward a baccalaureate degree in skills courses approved by the Undergraduate Policies and Evaluation Committee.
4. Students may enroll in 5000-level courses but they will not apply to undergraduate degree program requirements at SPU.
5. Credits in excess of 45 taken as a non-matriculated student will not apply toward an undergraduate degree.
6. Credits in excess of 15 credits taken as a non-matriculated student may not be applied to a post-baccalaureate degree.

### Standards Governing Completion of a Second Bachelor's Degree

A second bachelor's degree may be earned upon completion of a minimum of 45 credits as a matriculated student at Seattle Pacific University subsequent to the granting of the first degree. The student must be accepted into a major; the date of acceptance determines the *Undergraduate Catalog* under which major requirements will be applied. A second degree is subject to the following conditions:

If the first degree was earned at SPU:

1. At least 15 of the 45 credits for the second degree must be taken at SPU.
2. At least 15 upper-division credits in the major must be earned at SPU.
3. Of the 45 credits required for the second degree, up to 15 credits may be earned prior to the granting of the first degree, provided the credits are in excess of the minimum required for the first degree (usually 180 credits).

If the first degree was earned at another institution:

1. A student who at some prior point matriculated at SPU must have at least 30 of the required 45 credits earned at SPU.
2. No more than 15 credits taken as a non-matriculated student may apply toward the additional bachelor's degree.
3. A student who has not previously matriculated at SPU must earn at least 45 credits toward the second degree at SPU.
4. At least 15 upper-division credits in the major must be earned at SPU.
5. 5 credits in Christian Scriptures or Christian Theology must be completed at SPU.
6. All specified requirements for the second degree must be fulfilled, including all requirements in the major.

An additional degree is distinguished from multiple majors within a single degree. For information regarding completion of multiple majors within a first bachelor's degree, see item 8 under Specific Standards Governing the Completion of a Major.

### Graduation Checklist

Students may wish to track their progress toward graduation by taking their quarterly grade reports, along with the Common Curriculum and Exploratory Curriculum sections of the *Undergraduate Catalog* and filling out the appropriate completed courses on the graduation requirements checklist on the following page.

## Former Foundation and General Education Requirements

Former Foundation and General Education requirements are available in previous *Undergraduate Catalogs* or in Student Academic Services.

# Seattle Pacific University 2002-2003 Graduation Requirements Checklist

NAME \_\_\_\_\_ SSN \_\_\_\_\_ CLASS AT ADMISSION / RE-ADMISSION \_\_\_\_\_  
 MAJOR \_\_\_\_\_ MINOR \_\_\_\_\_ FACULTY ADVISOR(S) \_\_\_\_\_  
 Checklist prepared by \_\_\_\_\_ Date \_\_\_\_\_ Reflects coursework completed through \_\_\_\_\_

Check off each box when requirement is completed.

## DEGREE REQUIREMENTS

**Minimum 180 total credits**

- Courses numbered 1000-4999
- At least 45 credits must be completed at SPU, including the last 15 credits

Date: \_\_\_\_\_/\_\_\_\_\_/180

Date: \_\_\_\_\_/\_\_\_\_\_/180

Date: \_\_\_\_\_/\_\_\_\_\_/180

**Minimum 60 upper division credits**

- Courses numbered 3000-4999

Date: \_\_\_\_\_/\_\_\_\_\_/60

Date: \_\_\_\_\_/\_\_\_\_\_/60

Date: \_\_\_\_\_/\_\_\_\_\_/60

**All classes in Major\* complete**

**All classes in Minor\* complete**  
 Minor not required for graduation

\*See specific requirements in the Baccalaureate Degree Requirements section of the 2002-2003 Catalog.

## MATH & WRITING COMPETENCIES

**Math Proficiency Test** passed, exempt or ALL required credits completed  
 Date: \_\_\_\_\_ Credits remaining \_\_\_\_\_

**Writing Placement Test** passed, exempt or ALL required credits completed  
 Date: \_\_\_\_\_ Credits remaining \_\_\_\_\_

## FOREIGN LANGUAGE COMPETENCY

See page 60 in 2002-2003 Catalog

Complete  Incomplete

## "W" WRITING REQUIREMENTS

Entry Status:  
 Freshman or Sophomore - 8 credits  
 Junior - 5 credits, Senior - 3 credits  
 (These credits are 3000-4999 level)

_____	_____
_____	_____

## COMMON CURRICULUM

### I. University Seminar (5 credits)

**USEM 1000** \_\_\_\_\_

### II. University Core I, II, III (15 credits)

**UCOR 1000** \_\_\_\_\_

**UCOR 2000** \_\_\_\_\_

**UCOR 3000** \_\_\_\_\_

### III. University Foundations I, II, III (10-15 credits)

**Status at Entry to SPU:**  
 Freshman or Sophomore - UFDN I, II, & III  
 Junior or Senior - UFDN II\* and III.

**UFDN 1000** \_\_\_\_\_

**UFDN 2000\*** \_\_\_\_\_

**UFDN 3100** \_\_\_\_\_

\*Students admitted as juniors or seniors should take the upper division version of UFDN 2000, numbered 3001.

## EXPLORATORY CURRICULUM

Refer to the Baccalaureate Degree Requirements section of the 2002-2003 Catalog for lists of acceptable courses.

### Arts and Humanities (AH)

15 credits required if pursuing a Bachelor of Arts degree.  
 10 credits required if pursuing a Bachelor of Science degree.

**A. Arts: Art, Music, Theatre - 3-6 credits**

\_\_\_\_\_

**B. Humanities: Classics, Communication, English, European Studies, Philosophy - 3-6 credits**

\_\_\_\_\_

**C. One Additional Course in a Different Discipline - 3-6 credits**  
 (for students pursuing a B.A. degree)

\_\_\_\_\_

### Social Sciences (SS)

(10 credits)  
**A. Anthropology, Psychology, Sociology - 5 credits**

\_\_\_\_\_

**B. Economics, Geography, History, Political Science - 5 credits**

\_\_\_\_\_

### Natural Sciences (NS)

15 credits required if pursuing a Bachelor of Science degree  
 10 credits required if pursuing a Bachelor of Arts degree

**A. Biological Sciences - 5 credits**

\_\_\_\_\_

**B. Physical Sciences - 5 credits**

\_\_\_\_\_

**C. One Additional Science Course - 5 credits**  
 (for students pursuing a B.S. degree)

\_\_\_\_\_

### Mathematics (MA)

(5 credits)

\_\_\_\_\_

## NOTES TO STUDENT:

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# Seattle Pacific University 2002-2003 Graduation Requirements Checklist: University Scholars

Name \_\_\_\_\_ SSN \_\_\_\_\_ Class at admission \_\_\_\_\_  
 Major(s) \_\_\_\_\_ Major Advisor(s) \_\_\_\_\_  
 Minor(s) \_\_\_\_\_ Minor Advisor(s) \_\_\_\_\_  
 Includes courses completed through \_\_\_\_\_ Checklist completed by \_\_\_\_\_ Date \_\_\_\_\_

Check off each box when requirement is completed.

## GENERAL DEGREE REQUIREMENTS

**Minimum 180 total credits**

Date: \_\_\_\_\_/\_\_\_\_\_/180

Date: \_\_\_\_\_/\_\_\_\_\_/180

Date: \_\_\_\_\_/\_\_\_\_\_/180

**Minimum 60 upper division credits**

Date: \_\_\_\_\_/\_\_\_\_\_/60

Date: \_\_\_\_\_/\_\_\_\_\_/60

Date: \_\_\_\_\_/\_\_\_\_\_/60

**"W" credits** (8 credits required)

\_\_\_\_\_

\_\_\_\_\_

## Foreign Language Competency

Complete

Incomplete

## FOUNDATIONS (15 credits required)

**UFDN 1000** \_\_\_\_\_

**UFDN 2000** \_\_\_\_\_

**UFDN 3100** \_\_\_\_\_

## HONORS COURSES (36-38)

### Seminar (5)

**USCH 1000** \_\_\_\_\_

### Core (25)

**USCH 1111** \_\_\_\_\_

**USCH 1112** \_\_\_\_\_

**USCH 1113** \_\_\_\_\_

**USCH 3910** \_\_\_\_\_

**USCH 4910** \_\_\_\_\_

### Project (6)

**USCH 4950 (2)** \_\_\_\_\_

**USCH 4960 (2)** \_\_\_\_\_

**USCH 4965 (2-4)** \_\_\_\_\_

Maximum 4 credits total

### Additional Requirement: Lab Science Course (5)\*

**PHY 1101, PHY 1111 or PHY 1121** \_\_\_\_\_

\*This requirement is waived for students who take the first-year sequence for the biology or chemistry major and for nursing majors who take anatomy and physiology and microbiology.

## NOTES TO STUDENT:

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# Academic Program



# The Academic Program

## Scholarship Informed by Faith

The clear Christian commitment of Seattle Pacific University has remained the same for more than a century. The institution continues to believe that the finest education is informed by Christian faith. As a university, Seattle Pacific's mission is one of intellectual inquiry. Believing that the Christian faith calls it to excellence – both intellectually and spiritually – the University actively strives to provide the highest quality education available. In keeping with this, academic freedom and integrity are highly prized.

What does this mean to students? It means that they are taught by professors who approach their discipline from a Christian perspective. But students are not told what to believe. Instead, through the educational process of inquiry, discussion and experience, they are encouraged to develop a mature, personal faith. Students are challenged at Seattle Pacific. But the University seeks to create an environment that balances freedom and support as they grapple with difficult questions. The goal is to help students emerge with an even deeper Christian conviction and a desire for Christian leadership and service.

## Academic Structure

### College of Arts and Sciences

#### Division of Fine Arts

Art  
Music  
Theatre

#### Division of Humanities

Communication and Journalism  
English  
Foreign Languages and Literatures  
Philosophy

#### Division of Science and Engineering

Biology  
Chemistry  
Computer Science  
Engineering  
Mathematics  
Physics  
Pre-Professional Programs

#### Division of Social and Behavioral Sciences

Family and Consumer Sciences  
History

Physical Education  
Political Science  
Sociology  
**Interdisciplinary**  
General Studies Major  
Interdisciplinary Courses  
Professional Studies Major  
Student-Designed Majors  
University Scholars Program

### School of Business and Economics

Accounting  
Business Administration  
Economics  
Professional Development

### School of Education

Elementary Certification  
Secondary Certification  
Special Education  
SPIRAL – Education Professional Development

### School of Health Sciences

Nursing

### School of Psychology, Family and Community

Psychology

### School of Theology

Christian Theology  
Educational Ministries

### Special Programs

Summer School  
Evening/Weekend School  
Distance Learning

### Graduate Studies

Graduate studies at Seattle Pacific University emphasize three principal aims: scholarship, research and professional competence. Responsibility for graduate studies is vested in the Graduate Policy and Evaluation Committee by the Faculty Senate.

### Degrees Offered

#### Master of Arts

Sport and Exercise Leadership (M.A.)  
Teaching (M.A.)  
Teaching English to Speakers of Other Languages (TESOL)

#### Master of Business Administration (M.B.A.)

#### Master of Education (M.Ed.)

Curriculum and Instruction  
Education Leadership  
School Counseling

#### Master of Science in Nursing (M.S.N.)

Leadership in Advanced Nursing

#### Master of Science (M.S.)

Marriage and Family Therapy  
Information Systems Management

#### Doctor of Education (Ed.D.)

#### Doctor of Philosophy in Clinical Family Psychology (Ph.D.)

### Other Programs

Advanced R.N. Practitioner (School of Health Sciences)  
Nurse Practitioner Pathways (School of Health Sciences)  
Superintendent Certification (School of Education)

For further information on graduate programs, contact the school or department that administers the specific program.

## AREAS OF INSTRUCTION

	B.A.	B.S.	Master	Minor	Elementary Cert.	Secondary Cert.	Area of Study	Refer to Page Number
<b>COLLEGE OF ARTS AND SCIENCES</b>								
<b>Division of Fine Arts</b>								
Art	•			•	•			82
Fine and Applied Arts Educ.	•				•			116
Music	•			•	•			161
Music Education							•	116
Theatre	•			•				189
<b>Division of Humanities</b>								
Classics	•			•				103
Communication	•			•				103
English	•				•			129
Literature				•				129
Writing				•				129
European Studies: Europe	•							151
European Studies: French	•			•	•			153
European Studies: German	•			•	•			154
European Studies: Latin	•			•				155
European Studies: Russian	•			•				155
European Studies: Spanish	•			•	•			156
Journalism				•				103
Language Arts	•			•				116
Latin American Studies	•			•				151
Linguistics				•				157
Philosophy	•			•				168
Teaching Eng. As Second Lang.			•					GC
<b>Division of Science and Engineering</b>								
Biology	•	•		•	•			85
Marine Biology							•	76
Pre-Medical							•	181
Pre-Physical Therapy							•	182
Pre-Professional							•	180
Teaching					•	•	•	117
Biochemistry		•						85
Biotechnology							•	89
Chemistry	•	•		•		•		99
Computer Engineering		•						106
Computer Science		•		•				106
Systems	•							106
Business	•							106
Computational Mathematics	•							107
Electrical Engineering		•						124
Engineering and Applied Science	•			•				124
Bio-Engineering							•	125
Environmental Engineering							•	125
Engineering Physics							•	125
Mission Applications							•	125
Science General	•				•			117
Mathematics	•	•		•	•			158
Mathematics Education	•				•			117
Physics	•			•	•			173
<b>Division of Social and Behavioral Sciences</b>								
Exercise Science		•						170
Geopolitics				•				177
Health				•				170
History	•			•	•			146
Family and Consumer Sciences	•			•	•	•		133
Food and Nutritional Sciences		•		•				134
Dietetics							•	135
Sports and Exercise							•	135

GC: See Graduate Catalog

	B.A.	B.S.	Master	Minor	Elementary Cert.	Secondary Cert.	Area of Study	Refer to Page Number
Physical Education	•		•	•				170
Political Science	•			•				175
Pre-Law							•	180
Social Science Education	•				•			117
Sociology	•			•				186
Sociology - Social Service							•	186
Textiles, Clothing and Interiors	•			•				135
Apparel Design							•	135
Interior Design							•	136
<b>BUSINESS AND ECONOMICS</b>								
Accounting	•							92
Administration (M.B.A.)			•					GC
Business Administration	•			•				93
Economics							•	96
Finance							•	94
Information Systems							•	94
Management							•	94
Marketing							•	94
Economics	•			•				96
Information Systems Management			•					GC
<b>EDUCATION</b>								
Curriculum and Instruction			•					GC
Educational Leadership			•					GC
School Counseling			•					GC
Special Education	•				•	•		118
Teaching Secondary			•					GC
<b>HEALTH SCIENCES</b>								
Nursing		•						142
Nursing Leadership			•					GC
Nurse Practitioner							•	GC
<b>PSYCHOLOGY, FAMILY AND COMMUNITY</b>								
Marriage and Family Therapy			•					GC
Psychology	•	•		•				183
<b>THEOLOGY</b>								
Christian Scriptures				•				194
Christian Theology	•							193
Educational Ministries	•			•				194
Global and Urban Ministries				•				194
Youth Ministries				•				194
<b>OTHER PROGRAMS</b>								
<b>Interdisciplinary</b>								
General Studies	•	•						140
Professional Studies	•	•						182
Student-Designed	•	•						189
Women's Studies				•				198
<b>Pre-Professional Programs</b>								
Pre-Physical Therapy							•	182
Pre-Dentistry							•	181
Pre-Law (see Political Science)							•	180
Pre-Optometry							•	182
Pre-Medicine							•	181
<b>Doctoral Programs</b>								
Clinical Psychology (Ph.D.)								GC
Educational Leadership (Ed.D.)								GC

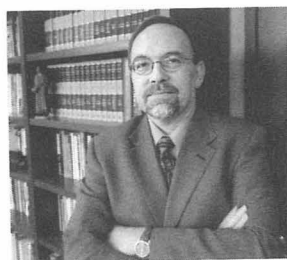
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### Academic Program

"At Seattle Pacific, we believe nothing is more valuable than an education grounded in the Christian faith, deepened by the liberal arts, expressed in the professions and engaged in the culture in order to change the world."

Les Steele

Vice President for Academic Affairs



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### Academic Program

## How to Read Catalog Course Information

The following information is provided to help you understand course listings:

**Subject Code:** This contains the abbreviation of the discipline of the class, (e.g., MAT for mathematics).

**Subject Number:** This is the course number that accompanies the discipline. Courses numbered 0001-0999 are used to designate continuing education units or courses offered for credit that are not applicable toward a degree. Courses numbered 1000-2999 are designed primarily for freshmen and sophomores and courses numbered 3000-3999 primarily for juniors. Courses numbered 4000-4999 are primarily for seniors, but may also be suitable for fifth-year and other post-baccalaureate students. Courses numbered 5000-5999 are considered primarily for professional development and cannot be applied toward fulfillment of an undergraduate degree requirement. Courses numbered 6000-6999 are designed for master's degree programs and 7000-7999 for doctoral degree programs. Note: 3000- and 4000-level courses fulfill upper-division degree requirements.

**Title:** Title of the course. In the *Undergraduate Catalog*, a title that has a "-M" means this course is only taught via media.

**Credit:** Lists the number of quarter credit hours granted for the class. Variable credit classes will be listed with a hyphen or comma, e.g., 3-5 (3 to 5); 3,5 (3 or 5). Students need to determine the number of credits they wish to earn for the class at the time of registration.

**Description:** A statement that provides information about the course. Some courses will contain additional information related to prerequisites, course fees or distance-learning options known as media (e.g., cassette, videocassette, television). Prerequisites need to be fulfilled prior to registering for the listed course.

**Repeat Limits:** Courses that may be repeated for credit state the number of times the course may be repeated or the maximum number of repeatable credits. Courses that have been identified as repeatable will appear multiple times on a transcript and will have the credits and GPAs calculated into the quarterly and cumulative grade point information, until the limit has been reached. Once reached, the repeat rules on page 54 will be applied.

**Corequisite:** Classes noted as corequisites require concurrent registration with the original listing. Students must enroll during the same quarter for all courses listed as corequisites.

**Course Equivalent:** Classes noted as equivalent mean the courses are the same and that students will not receive credit toward graduation if they enroll in both courses. However, equivalent courses may substitute for one another during the degree audit process or when repeating a class (see repeat rules, page 54).

**Attributes:** This information details how the course will be applied when conducting a graduation evaluation (degree audit). Attributes include writing courses or courses that may be taken via media.

**Registration Restrictions:** Registration restrictions have been designated for certain courses. The phrase "Class open to" identifies who *may register* for the course. The phrase "Class not open to" identifies who *may not enroll* in the course. The registration restrictions may be based on student level, student classification or declared major.

## Sample Course Description

(For illustration purposes only.)

Credits	Subject Code and Number	Title	Description
3	ENG 4940	COOP EDUCATION: ENGLISH INTERNSHIP (1-5)	Registration Approval: Intern Learning Contract Required. Applies writing skills in varied employment settings; possibilities include public relations offices, newspapers and other informational services. Students may suggest their own internships in consultation with the faculty supervisor, as long as writing skills are used and other internship criteria are met. <u>May be repeated</u> for credit up to 6 credits. <u>Course Equivalent:</u> JRN 4940 <u>Class not open to</u> freshmen and sophomores. <u>Attributes:</u> Writing Course.
Course Equivalent	Repeat Limit	Attributes	Registration Restriction

## College of Arts and Sciences

Joyce Quiring Erickson, Dean

The College of Arts and Sciences at Seattle Pacific University provides a foundation of liberal learning, as well as skills in reasoning, judgment and communication that can be applied directly in many areas of employment and used as a springboard for advanced education. The disciplines of the arts and sciences are truly foundational, providing the broad basis for a well-educated person. Central to our mission is the formation of a mature Christian faith and the development of the whole person, including cultural and artistic sensitivity, growth in self-expression and an appreciation for the importance of personal fitness. Graduates of the College of Arts and Sciences are prepared for lives of continuing learning and responsiveness to a changing world and are highly regarded by employers in many fields of challenging and productive work.

## The Common Curriculum

Cynthia Price, Associate Vice President for Curriculum and Assessment

The Common Curriculum, which includes eight required courses spread out over four years, is at the heart of a liberal arts education at Seattle Pacific University. SPU students begin the Common Curriculum in the first quarter of their freshman year with University Seminar, an intensive exploration of a special interdisciplinary topic. The maximum of 20 students enrolled in each course form a "cohort" and attend other freshman classes in the Common Curriculum together. Their University Seminar professor serves as their academic advisor. In their freshman, sophomore and junior years at Seattle Pacific, students participate in two parallel sequences of required courses. As students move through the three University Core courses, they address key questions that pervade human life: "Who am I?" "From where have I come?" and "How do I know and act?" As they confront these perennial human questions through the study of human culture, history and thought, students are challenged to understand themselves, their heritage and traditions, and the world from the perspective of the Christian faith. The three University Foundations courses are centered in the foundations of faith: Christian formation, which explores the lived experience of faith; Christian Scriptures, which provides a way of conceptualizing, reading and practicing the truth of Scripture as the authority for Christian formation; and Christian theology, which reflects upon the relationship between God and humankind as expressed in the Scriptures and experienced in a life of faith. Each

course in the University Core and University Foundations sequences includes common texts and objectives in order to ensure common learning. All members of the community are encouraged to join in the common conversations around these works through chapel programs, lectures, concerts and other community events. Through shared experiences in a committed community of learners, the liberal arts at Seattle Pacific University has as its aim the formation of Christian character, which is evident in qualities of heart, mind and action.

**UCOR 1000 CHARACTER AND COMMUNITY (5)** This course considers the question "Who am I and for what have I been created?" Through examining literary and artistic works that have shaped cultures past and present, it explores how we are created to be unique persons and to be in community with others. Key themes are artistic ways of knowing individualism and conformity, and faith as a formative virtue. Attribute: University Core. Class open to freshmen. (Arts and Humanities)

**UCOR 2000 THE WEST AND THE WORLD (5)** Prerequisites: UFDN 1000 and UCOR 1000. This course considers the question "From where have we come and where are we going?" It explores the history of interaction between the West and the World from the dawn of the modern global age (about 1500) to the present. How has Western civilization been influenced by and has influenced other cultures? Key themes are ideas, inventions and systems of interaction. The virtue of hope motivates service as the Christian response to a constantly changing world. Attribute: University Core. Class not open to seniors. (History)

**UCOR 3000 BELIEF, MORALITY AND MODERN MIND (5)** Prerequisites: UFDN 2000 and UCOR 2000. This course considers the question "How do I know what is true and how should I act on that knowledge?" It explores questions about Christian faith and practice that arise from modern developments in philosophy and science. Key themes are authority, reason, personal meaning, ethics and love as the Christian response to God's creation and humankind. Attributes: University Core and Upper Division. Class not open to freshmen. (Science and Philosophy)

**UFDN 1000 CHRISTIAN FORMATION (5)** This course introduces the processes and practices of Christian formation as reflected throughout the history of the Christian Church. Christian life is formed by distinctive beliefs, practices, attitudes and virtues. Every student, regardless of religious background, will engage texts, written and non-written, ancient and modern, that foster these characteristics of the Christian life. Attribute: Foundation. Class open to freshmen.

**UFDN 2000 CHRISTIAN SCRIPTURES (5)** Prerequisite: UFDN 1000. This course explores the formative role that Christian Scriptures perform within the community of believers. It seeks to introduce students to the literature and theology of both Old and New Testaments and to provide them with the necessary skills to make responsible use of Scripture as the church's principal authority in nurturing a Christian's faith and witness. Course Equivalent: UFDN 3001. Attribute: Foundation. Class not open to freshmen and seniors.

**UFDN 3001 CHRISTIAN SCRIPTURES (5)** This course explores the formative role that Christian Scriptures perform within the community of believers. It seeks to introduce students to the literature and theology of both Old and New Testaments and to provide them with the necessary skills to make responsible use of Scripture as the church's principal authority in nurturing a Christian's faith and witness. Course Equivalent: UFDN 2000. Attributes: Foundation and Upper Division.

**UFDN 3100 CHRISTIAN THEOLOGY (5)** Prerequisites: UFDN 1000 and UFDN 2000 or 3001. This course studies the basic doctrines and practices of historic Christianity, such as the being, attributes and workings of the Triune God; the nature, fallenness and redemption of human beings; the character and mission of the church; the disciplines and duties of personal faith; and the hope for "last things." Attention will be given to major formative events and key persons in the history of the church who have helped to shape what Christians believe and how they live. Attributes: Foundation and Upper Division. Class not open to freshmen.

**USEM 1000 UNIVERSITY SEMINAR (5)** This seminar introduces first-year college students to the liberal arts at a Christian university through the investigation of a special topic. Students will write, speak and practice critical thinking, participate in group projects, and use electronic and print learning resources. As an introduction to university life, the seminar helps students explore the meaning of Christian vocation and develop a love of learning. Seminar instructors will serve as faculty advisor to students in their seminar through the freshman year. Descriptions of particular seminars are available in the yearly class schedule. Attribute: University Seminar. Class open to freshmen.

**USEM 3000 UNIVERSITY SEMINAR (5)** Registration Approval: Instructor. This seminar introduces professional studies program students to the liberal arts at a Christian university through the investigation of a special topic. Students will write, speak and practice critical thinking, participate in group projects, and use electronic and print learning resources. As an introduction to university life, the seminar helps students explore the meaning of Christian vocation and develop a love of learning.

**USEM 4930 PRACTICUM: MENTORING FRESHMEN (1-5)** Registration Approval: Instructor. Serve as a mentor to freshmen in a University seminar class under the direction of faculty. May be repeated for credit two times. Attribute: Upper Division. Class not open to freshmen and sophomores.

## University Scholars

(The Honors Program)

[www.spu.edu/acad/univ-scholars/](http://www.spu.edu/acad/univ-scholars/) (public site)

[chalk.spu.edu/courses/USCH](http://chalk.spu.edu/courses/USCH) (for registered students)

**Susan VanZanten Gallagher, Director**

The University Scholars program at Seattle Pacific University replaces the Common Curriculum and the Exploratory Curriculum for selected students who are highly motivated to pursue an intense academic program studying great works of art, literature, philosophy, social science and natural science in their historical contexts. University Scholars courses are rigorously interdisciplinary and offer intensive peer discussion. The program's goal is to create a community of self-motivated scholars engaged in thoughtful cross-disciplinary conversation, writing and action on issues facing the church and the world. Based on test scores and high school GPAs, a limited number of high school seniors are invited to apply to become a University Scholar by submitting an application essay. Students who are highly motivated to participate in the program but who do not receive an initial invitation at admission should contact the director to apply directly for entry. A few students may be admitted into the program during their first year of study.

### Requirements for the University Scholars Program

University Scholars must meet the same competency requirements in math, writing and foreign language required of all undergraduates. Also, like all students, University Scholars must complete a major and have 180 credits to graduate, including 60 credits in courses numbered 3000 or above, 8 credits of which must be "W" credits. University Scholars are required to take a special sequence of USCH courses (listed below) in place of the Common Curriculum and Exploratory Curriculum, and to take three Foundations courses.

### University Scholars Courses

(36 credits)	
USCH 1000 University Scholars Seminar.....	5
USCH 1111 Texts and Contexts I.....	5
USCH 1112 Texts and Contexts II.....	5
USCH 1113 Texts and Contexts III.....	5
USCH 3910 Faith and Science I.....	5
USCH 4910 Faith and Science II.....	5
USCH 4950 Christianity and Scholarship.....	2
USCH 4960 Honors Project I.....	2
USCH 4965 Honors Project II.....	2-4
(A maximum of 4 credits allowed in Honors Project I and II)	

### University Foundations

(15 credits)	
UFDN 1000 Honors Christian Formation.....	5
UFDN 2000 Christian Scriptures.....	5
UFDN 3000 Christian Theology.....	5
<b>Total.....</b>	<b>51</b>

Special features and conditions of the program:

1. Prior to enrolling in USCH 3910 Faith and Science I, University Scholars must take at least one quarter of physics (PHY 1111 or 1121); or, if they have had high school physics, they may take BIO 1100, if taken at the Blakely Island Field Station. University Scholars who have taken the first-year chemistry or biology sequences are exempt from this requirement.
2. University Scholars will take a special honors section of UFDN 1000 together during their sophomore year. They will then enroll in any section of UFDN 2000 and 3000 that best fits their schedule.
3. The Honors Project involves 4 credits of individual scholarly work in a subject related to a student's major, undertaken with the assistance of a faculty mentor and completed during the senior year. Projects or papers that fulfill this requirement must meet disciplinary standards, discuss the relationship of faith and learning, be approved by the director of University Scholars and be completed prior to graduation. Honors Projects are given special recognition at Commencement.
4. University Scholars are required to maintain a minimum of a GPA of 3.2 or better to remain in the program.
5. Students wishing to leave the program must submit a letter of resignation to the director. They will immediately become subject to the Common Curriculum and Exploratory Curriculum requirements. They will not lose credit previously earned by successful completion of examinations, such as CLEP or Running Start. University Scholars courses taken in the first and second year transfer into either the Common Curriculum or the Exploratory Curriculum at Seattle Pacific.
6. Special service to the SPU community should be a high priority for University Scholars. Each year, the graduating senior who most exemplifies the high ideals of the USCH program is honored with the Wesley E. Lingren Award in honor of the founding director.

### University Scholars Courses

**USCH 1000 UNIVERSITY SCHOLARS SEMINAR (5)** Prerequisite: Admission to the University Scholars Program. This seminar introduces University Scholars to the liberal arts at a Christian University through an exploration of the motif of encounters in world history. As an introduction to the University Scholars' program, the course will encourage students to consider encounters they will experience during their educational journey. Students will write, speak, practice critical thinking, participate in group projects, and use electronic and print learning resources. Open to University Scholars only. Course Equivalent: USEM 1000. Attribute: University Seminar.

**USCH 1111 TEXTS AND CONTEXTS I (5)** Examines great works of ancient Greece and Rome in historical context, using the perspective of the problem of evil, the problem of violence, the tension between reason and revelation, and the tension between individual and society. Open to University Scholars only.

**USCH 1112 TEXTS AND CONTEXTS II (5)** Prerequisite: USCH 1111. Applies the problematic approach of USCH 1111 to great works of medieval and Renaissance Europe. Open to University Scholars only.

**USCH 1113 TEXTS AND CONTEXTS III (5)** Prerequisite: USCH 1112. Continues the problematic approach using great works of Western modernity from the 17th-19th centuries. Open to University Scholars only.

**USCH 3910 FAITH AND SCIENCE I (5)** An in-depth exploration of science, faith and theology that builds on the Western history and texts of the first two years of the University Scholars Program.

Moves from the Greeks through the Copernican Revolution to contemporary issues, such as quantum mechanics and chaos theory. Open to University Scholars only. Attribute: Upper Division. Class not open to freshmen.

**USCH 4900 INDEPENDENT STUDY (1-5)** Registration Approval: Independent Study Agreement. May be repeated for credit up to 15 credits. Attribute: Upper Division.

**USCH 4910 FAITH AND SCIENCE II (5)** Prerequisite: USCH 3910. A continuation of the study of science, faith and theology begun in the Science Survey, with guest speakers and the presentation of seminar papers dealing with the impact of science on the West, the Western church and the non-Western world. Open to University Scholars only. Attributes: Upper Division and Writing Course. Class not open to freshmen.

**USCH 4950 CHRISTIANITY AND SCHOLARSHIP (2)** An exploration of several paradigms used to understand the relationship of Christian faith and scholarship, such as those articulated by Arthur Holmes, Mark Noll and George Marsden. Includes writing a personal statement on the relationship of faith and scholarship and producing an approved prospectus for the Honors Project. Open to University Scholars only. Attribute: Upper Division.

**USCH 4960 HONORS PROJECT I (2)** Prerequisite: USCH 4950. Students will be required to produce an undergraduate research paper or creative piece that is oriented within their relationship of faith and scholarship. Open to University Scholars only. Attribute: Upper Division.

**USCH 4965 HONORS PROJECT II (2-4)** Students will be required to produce an undergraduate research paper or creative piece that is oriented within their relationship of faith and scholarship. A maximum of 4 credits is allowed in Honors Project I and II. Open to the University Scholars only. Attribute: Upper Division.

## Special Programs

**English As a Second Language, Internships, ROTC, Senior Citizen Program, Special Studies, Study Abroad, Study Programs, Visit/Transfer Programs**

### English As a Second Language (ESL)

**The A.C.E. Language Institute (A.L.I.)**

The Language Institute offers English as a second language classes to foreign students and American non-native speakers of English. Completion of level 6 with grades of "A" or "B" enables applicants to meet SPU's English proficiency requirement. Both SPU and non-SPU students may take Language Institute courses. The Language Institute was established on the SPU campus in 1977 and is administered by the American Cultural Exchange. The Language Institute's curriculum is an intensive, five-week, multilevel program that is designed to prepare foreign students for admission to American colleges and universities.

### English As a Second Language (ESL)

Nonnative speakers of English who need assistance in developing their English skills or in orientation to American culture may register for courses through the Language Institute. The courses ESL 1000, ESL 1030 and COM 1000, are applicable toward a degree at SPU. Placement in other courses is determined by testing through the Language Institute.

**ESL 1000 ESL CONFERENCE WRITING (4)** Registration Approval: IELI Director. Helps non-native speakers of English to improve their writing through group instruction and one-on-one conferencing. Emphasis is placed on standard English structure, sophistication of vocabulary and writing style, and self-editing skills. May be repeated for credit up to 10 credits.

**ESL 1020 ORAL COMMUNICATION FOR NON-NATIVE SPEAKERS (1-4)** Registration Approval: IELI Director. Develops presentation, listening, interpersonal and pronunciation skills necessary for active participation in the college classroom. Credit in this course is not applicable to the major specialty in communication.

**ESL 1030 ESL SKILLS DEVELOPMENT (1-5)** Registration Approval: IELI Director. Prerequisite: ESL 0041 and 0042 or equivalent. May be repeated for credit up to 10 credits.

### Internship Program

Internships seek to integrate academic theory with practical work experience. Designed to be an integral part of students' academic programs, the Internship Program allows students to earn credits for learning gained in a work setting. Careful supervision of students' progress toward learning objectives is a key component of an internship, and a successful experience is built on a partnership between the student, faculty sponsor and employer. Students participate in internships for career exploration as well as to gain essential professional experience. Internship experiences facilitate students' growth in skills such as communication, problem solving and analysis, as well as in skills specific to

professional disciplines. Internships may be paid or unpaid. In either case, it is the quality of the placement and supervision and the emphasis on students' development of critical thinking and other skills that distinguish internships from other part-time or volunteer work programs. Minimum requirements for participating in the Internship Program include matriculation at the University and completion of one quarter of coursework. Each school sets specific prerequisites for participation in internships. Internship opportunities may be at accounting firms, advertising agencies, banks, high-tech companies, medical research labs, performing arts organizations, retail stores, schools, human service agencies and many other types of organizations. Postings of internship opportunities and information about how students can be involved are available in the Career Development Center. Interested students should address inquiries to the Career Development Center, Student Union Building, second floor, Seattle Pacific University, 3307 Third Ave. W., Seattle, WA 98119; or call (206) 281-2485, or visit its Web page at [www.spu.edu/depts/cdc](http://www.spu.edu/depts/cdc).

## ROTC Programs

ROTC programs are offered to SPU students via cross-town agreements with the University of Washington. SPU accepts 20-24 quarter credits from an approved ROTC program toward the 180 required to graduate – up to 3 credits each from the freshmen and sophomore sequences, and up to 9 credits each from the junior and senior sequences. If a student drops out of the program, the ROTC credits do not apply toward graduation. Upon completion of a ROTC program, the student is responsible for requesting official transcripts for the SPU registrar's office.

### ROTC Academic Achievement Award

Students who are awarded ROTC scholarships by the programs described in this section of the *Catalog* may qualify for an ROTC Academic Achievement Award at Seattle Pacific. The award, which covers room and board costs, is offered to qualified top scholars who present a combination of high school grade point average and SAT Combined Math/Verbal Score, which meets University guidelines for this award and who demonstrate commitment to the Christian ideals of Seattle Pacific, including involvement in a local church. The award is renewable for a total of four consecutive years. To apply, contact the SPU Financial Aid Office.

## AIR FORCE Aerospace Studies

Air Force Reserve Officer Training Corps (AFROTC) is offered to SPU students through an agreement with the University of Washington. All classes are taught at UW, Clark Hall #220. The Air Force ROTC program is designed to motivate, educate and commission highly qualified students for active duty as officers in the U.S. Air Force. The curriculum develops the professional knowledge, in both theory and application, that an Air Force officer needs to be an effective manager and leader in the aerospace environment.

### General Program Requirements

The freshman- and sophomore-level classes (general military courses) are open to all students attending any two- or four-year college full time. Any male or female student may enroll in these classes. The junior- and senior-level classes (Professional Officer Courses) are open to qualified students who have been competitively selected for entry. For further information contact the Unit Admissions Officer at (206) 543-2360 or write: Unit Admissions Officer, AFROTC Det 910, University of Washington, Box 353830, Seattle, WA 98195-3530. You can also visit the UW AFROTC Web page at [depts.washington.edu/afrotc/](http://depts.washington.edu/afrotc/), or e-mail UW AFROTC at [afrotc@u.washington.edu](mailto:afrotc@u.washington.edu).

### Commissioning Requirements

Students who successfully complete the AFROTC program and receive an academic degree from the University are offered commissions as second lieutenants in the U.S. Air Force. They will serve at least four years in the military.

### General Military Course

The basic courses consist of one classroom hour, 1.5 hours of physical training and 1.5 hours of leadership laboratory per week during the freshman and sophomore years. Uniforms and textbooks are provided. Students may enter at the start of Autumn, Winter or Spring Quarter. A four- or five-week field-training course, taken during the summer between the sophomore and junior years, is required for entry into the Professional Officer Course. Students receive pay and travel costs for field training. Except for sophomore cadets on AFROTC scholarship, students incur no active-duty service commitment from enrollment in the GMC, and students may drop the courses at any time.

### Professional Officer Course (POC)

Cadets selected for enrollment in POC are enlisted in the Air Force Reserve and receive tax-free monthly subsistence pay of at least \$300. They are furnished texts and uniforms. Junior and senior-level classes consist of three hours of academic classes, 1.5 hours of physical training and 1.5 hours of leadership laboratory per week, in addition to a position within the cadet corps.

## Financial Assistance

The Air Force offers two- and three-year scholarships to students with a GPA of at least 2.5. Students awarded scholarships from the Air Force ROTC Scholarship Board are eligible for a supplemental room grant. To take advantage of these scholarships, students should apply directly to AFROTC UW (address noted under General Program Requirements).

### Two-Year Program

The two-year program is open to graduate students and other students who have two years remaining until graduation. Students in this program are required to attend a five-week field-training course at an air force base during the summer preceding program entry. The student is paid during the period. Upon return to the campus, students pursue the professional officer course. Uniform, texts and at least \$300 monthly subsistence are provided. Two-year scholarships are available for qualified students. Students interested in this program should contact the AFROTC department during October-December prior to the Autumn Quarter they desire to enter.

### Course Descriptions

**AS 101, 102, 103 AEROSPACE STUDIES 100 (1,1,1)** Survey of air force life and ROTC opportunities; U.S. Air Force mission and organization; functions of U.S. aerospace support forces; officership/professionalism and an introduction to communicative skills.

**AS 211, 212, 213 AEROSPACE STUDIES 200 (1,1,1)** Examines factors contributing to the development of air power from its beginnings to the present and the evolution of air-power concepts and doctrine; history of air-power employment in military and nonmilitary operations in support of national objectives. Assessment of communicative skills.

**AS 331, 332, 333 AEROSPACE STUDIES 300 (3,3,3)** Emphasis on leadership and management fundamentals, professional knowledge, leadership ethics and communicative skills required of an air force junior officer. Case studies are used to examine leadership and management situations. Additional leadership laboratory provides advanced leadership experiences in officer-type activities, giving students the opportunity to apply learned principles.

**AS 431, 432, 433 AEROSPACE STUDIES 400 (3,3,3)** Examines need for national security, evolution of American defense strategy and policy, methods for managing conflict, alliances and regional security to preserve American interests. Arms control and terrorism. Looks at the military as a profession, officership, the military justice system, current military issues and refinement of communication skills. The leadership laboratory is mandatory for credits.

## MILITARY SCIENCE

### The Program

Army ROTC is offered to SPU students through an agreement with the University of Washington. The program offers the student several elective options for the attainment of an army officer's commission in the reserve or active forces while pursuing the academic degree of his or her choice. Normally, all students participate in one to two classes per week (two-three hours), physical training one to three times per week, three leadership laboratories per quarter and one overnight field exercise per quarter. The program allows for scholarship assistance for selected students, a monthly stipend for all scholarship and third- and fourth-year students, and attendance at optional

summer courses. For further information on the University of Washington program, call (206) 543-9010 or write: Professor of Military Science, University of Washington, Box 353820, Seattle, WA 98195, or send e-mail to [ROO@milsci.washington.edu](mailto:ROO@milsci.washington.edu).

## Financial Aid

Cadets receive financial aid in two forms: (1) Two-, three- and four-year scholarships are awarded annually to cover school expenses. The scholarships pay up to \$16,000 per year toward tuition and fees, and provide a book allowance, as well as a monthly allowance that ranges from \$250 for freshman up to \$450 for seniors; and (2) assistance of a \$350 to \$450 per month allowance to all non-scholarship cadets enrolled in the advanced course. In addition to this aid, students may apply for an SPU ROTC Academic Achievement Award through Student Financial Services.

## Commissioning Requirements

To be commissioned in the U.S. Army, a student must graduate with a minimum of a bachelor's degree and complete the military science curriculum, including successful completion of the five-week advanced camp during the summer prior to the senior year.

## SENIOR CITIZEN PROGRAM

In keeping with the goal of service, SPU has a program that offers tuition-free courses to persons 65 years of age or older. Senior adults of this age bracket may attend on-campus undergraduate classes as auditors or for academic credit. They may take courses in special interest areas and/or complete a bachelor's degree. The only limitation to the program is the availability of space in particular classes. Registration for senior citizens who use this program commences on the second day of the quarter. Those wishing to apply work toward a degree must formally apply to the Office of Admissions. Non-matriculating students need only register at Student Academic Services.

## Special Studies

**Center for Relationship Development, Tropical Marine Biology, Blakely Island Field Station (marine biology/ecology)**

These programs are registered at Seattle Pacific University and taken with SPU faculty.

### Center for Relationship Development

**Les Parrott and Leslie Parrott, Directors**

Even more than academic standing, career prospects and earnings potential, students are concerned about establishing healthy relational roots. They want to break the cycle of soured relationships they have frequently witnessed and experienced among family or friends. In what may be a first for an American educational institution, Seattle Pacific University has established the



Center for Relationship Development (CRD) to help students learn to build healthy, lasting relationships. Initially funded by grants from the Murdock Charitable Trust, the Center is dedicated to fostering positive relationships, whether they be with classmates, roommates, parents, teammates, siblings, bosses or potential marriage partners. The Center aims to solve relationship problems before they begin. Its efforts focus on three major areas: education, outreach and research.

**Education.** Along with Seattle Pacific's School of Psychology, Family and Community, the Center for Relationship Development annually sponsors two academic courses in relationship development. Relationship Development I focuses on practical principles for building healthy relationships. The class addresses such issues as the meaning of friendship, gender differences, family of origin concerns, unconscious relationship needs and the dating process. Relationship Development II is an advanced course presenting a practical basis for making healthy relational commitments. It focuses on such topics as love, intimacy, mate selection and the meaning of covenant relationships.

**Outreach.** The Center for Relationship Development also sponsors special programs designed to meet specific relationship needs. These include the following:

1. **Saving Your Marriage Before It Starts (SYMBIS).** This marriage preparation workshop is offered each spring for engaged and newlywed couples. Topics include "The Myths of Marriage," "Sexuality and Marriage," "Fighting the Good Fight" and "Money Matters."
2. **The Marriage Mentor Club.** A unique feature of the SYMBIS program links participants to married couples who serve as mentors during the newlywed's first married year.
3. **Relationship Emphasis Week.** Each spring, the Center invites a nationally recognized speaker to campus for a series of presentations on relationship issues. Featured guests have included Stephen Arterburn, author of *Addicted to Love*, and Lewis Smedes, author of *Caring and Commitment*. Activities that focus on relationships during this week include Chapel, GROUP, leadership forums and faculty luncheons.

**Research and Evaluation.** The Center conducts ongoing scholarly research on relationship issues and puts that information to work in its education and outreach efforts. It also continuously evaluates its programs to ensure their effectiveness.

*Note: Both PSY 1250 and PSY 2250 must be successfully completed for grades if the student desires to apply these courses toward a psychology major or minor.*

### Tropical Marine Biology

**Tim Nelson, Coordinator,** Biology Department  
This 10-day to two-week study takes place annually between the end of Autumn Quarter and Christmas Eve. Destinations vary – either the Caribbean, Hawaii or a site in the Pacific. (For example, the December 2000 tour was

to the Galapagos Islands). The tour typically emphasizes fish, corals and seaweeds typical of coral reef ecosystems although terrestrial natural history may also be considered. This study is open to all students; General Education or Exploratory Curriculum credit may be earned in BIO 1100. Students with biology experience may take BIO 4950 for credit. Snorkeling and scuba diving are optional. The course includes a cultural component. In Belize, for example, the Mayan ruins are part of the tour.

**BIO 1100 BIOLOGICAL SCIENCE (5)** Intended for non-biology majors. Emphasis varies quarterly: human nutrition, human biology, environmental biology, biological diversity or marine biology. Basic concepts include the chemistry of living things, their structure and function, and their interactions with the environment. Applications to current issues are considered from a Christian perspective. No credit will be given for students who have taken BIO 2101, 2102, 2103, 2129, 2130 or have advanced placement biology credit. Also offered at Blakely Island Field Station and as a study tour. Attributes: Biological Sciences and Natural Science A.

**BIO 4950 SPECIAL STUDIES IN BIOLOGY (3)** Registration Approval: Travel Studies Form. Provides selected field study topics offered at Biology Department's discretion: Hawaiian marine biology; Caribbean marine biology; Sonoran Desert biology; or alpine flora. May be repeated for credit up to 6 credits. Attribute: Upper Division.

### Blakely Island Field Station

**Bruce Congdon, Director,** Biology Department  
In 1977, the University was given 900 acres of land and granted an open-space conservation easement on another 3,000 acres on Blakely Island, which is in the San Juan archipelago of northwestern Washington. The Blakely Island Field Station serves as the teaching site for upper-division biology courses in marine, aquatic and terrestrial ecology, and natural history, introductory biology and astronomy for non-science majors. Research conducted by faculty and students has included baseline surveys of major island habitats, and the ecology of lakes, marine bays and eelgrass beds. See information about the biology major for further information and course descriptions.

### Study Abroad

**British Isles, Costa Rica Nursing, European Studies, Normandy, Salamanca**

These programs are registered at Seattle Pacific University and taken with SPU faculty.

#### British Isles Program

**Luke Reinsma, Coordinator,** English Department  
The British Isles Quarter (BIQ) is a biennial study-abroad program that offers students an opportunity to take regular English courses from an SPU professor while residing and traveling in Great Britain. Professors, courses and locations vary. For details about upcoming BIQs, visit the English Department Web site at [www.spu.edu/depts/eng/](http://www.spu.edu/depts/eng/).

#### Costa Rica Nursing Program

**Anne Stevens, Coordinator,** School of Health Sciences  
The nursing program offers transcultural experiences for students, both on campus and abroad. Selected Nursing II

students may opt to take Family and Community Practicum in Costa Rica during their senior year. This experience requires proficiency in Spanish; however, a course in medical Spanish is offered with this experience.

### European Studies

**Program Coordinator,** Foreign Language Department  
European Quarter is a SPU sponsored study-abroad program held Autumn or Spring Quarter. Sites vary, depending on faculty leadership, but participants meet the expectations of a quarter's study in Europe both academically, earning a minimum of 12 credits, and culturally, through in-depth contact with the language/culture connection.

### German Studies Program

**Michael Ziemann, Coordinator,** Foreign Language Department  
The German Studies Program is a seven-week summer program that offers students on-site study of the German language, culture, history and literature for a minimum of 10 credits. Sites are chosen for their cultural and historical significance and have included Berlin, Bad Homburg and Heppenheim. Excursions to nearby locations are also part of the program.

### Normandy Studies Program (France)

**Reed Davis, Coordinator,** Political Science Department  
The Normandy Studies Program is a one-month summer program that offers students the opportunity to study French and early modern French political thought for 10 credits. There are approximately eight major excursions offered as well.

### Salamanca Program (Spain)

**Alberto Ferreira, Coordinator,** History Department  
Seattle Pacific University and the University of Salamanca is a 10-credit program in history and language. The language program allows students to study Spanish at their own level at the University of Salamanca. It also offers a rich opportunity for travel on weekends to Toledo, Segovia and other cities, and also to concerts, art exhibits and visits to numerous monuments.

### Study Programs

**American Studies (Washington, D.C.), China Studies, Latin American Studies, Film Studies (Los Angeles), Middle East Studies, Oxford Honors Program, Russian Studies. Summer programs include Oxford Summer School and Summer Institute of Journalism**

(These programs are semester-based and registered at Seattle Pacific University through the Council for Christian Colleges and Universities program.)

Seattle Pacific University is a member of the Council for Christian Colleges and Universities and the Christian College Consortium. The purpose of these organizations is to promote Christian higher education, and to provide programs for students and professional development opportunities for faculty and administration.

### American Studies Washington, D.C.

**Reed Davis, Coordinator,** Political Science Department  
Founded in 1976, the American Studies Program (ASP) has served hundreds of students from council-member institutions as a "Washington, D.C., campus." The ASP uses Washington as a stimulating educational laboratory where collegians gain hands-on experience with an internship in their chosen field and explore pressing national and international issues in public policy seminars that are issue-oriented, interdisciplinary and led by ASP faculty and Washington professionals. Internships are tailored to fit the student's talents and aspirations and are available in a wide range of fields. The ASP bridges classroom and marketplace, combining biblical reflection, policy analysis and real-world experience. Students are exposed to on-the-job learning that helps them build for their future and gain perspective on the calling of God for their lives. They are challenged in a rigorous course of study to discover for themselves the meaning of Christ's lordship in putting their beliefs into practice. The aim of the program is to help council schools prepare their students to live faithfully in contemporary society as followers of Christ. Students earn 24 quarter hours of credit.

**SBS 4915 PUBLIC POLICY SEMINAR (12)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance in the American Studies Program. Taught through semester-long program of the Council for Christian Colleges and Universities in Washington, D.C. An interdisciplinary examination of selected topics in the American political, historical and cultural context. Reviews both domestic and international issues. Attribute: Upper Division. Class not open to freshmen and non-matriculated students.

**SBS 4945 INTERNSHIP (12)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the American Studies Program. Taught through semester-long program of the Council for Christian Colleges and Universities in Washington, D.C. Students may select part-time placements in Washington, D.C., in agencies or programs associated with communication, arts, urban ministries, marketing and corporate enterprise, legal matters, trade associations or federal policy formation. Attribute: Upper Division. Class not open to freshmen and non-matriculated students.

### China Studies Program (Xiamen)

**Donald Holsinger, Coordinator,** History Department  
The China Studies Program (CSP), which began in the spring of 1999, allows students to engage this large and intriguing country from the inside. While living and experiencing Chinese civilization firsthand, students participate in seminar courses on the historical, cultural, religious, geographical and economic realities of this strategic and populous nation. In addition to the study of standard Chinese, students will assist Chinese students learning English, allowing for one-on-one interaction. The China Studies Program is hosted by Xiamen University located on the beautiful "garden island" of Xiamen in southeastern China. The program introduces students to the diversity of China, with trips to Beijing, Shanghai, Hong Kong and Xi'an. This interdisciplinary, cross-cultural program of study enables Christian students to deal with this increasingly important part of the world in an informed, Christ-centered way. Students earn 24 quarter hours of credit.

**CHN 2000 CHINA STUDIES: CONVERSATIONAL CHINESE (4)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the China Studies Program. This course is designed to help students gain an appreciation for the richness of the spoken national language of China. After a brief survey of the historical development of Mandarin, emphasis is placed upon acquiring a basic facility in the dialect. Emphasis is on the spoken form. Chinese language background is not required. Students come to China with varying degrees of fluency in standard (Mandarin) Chinese, so CSP places students in the Chinese language class that corresponds to their level of proficiency. Class not open to freshmen and non-matriculated students.

**SBS 4902 CHINA STUDIES: HISTORY, CULTURE AND GEOGRAPHY (5)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the CCCU China Studies Program. The CSP participants begin with this introductory seminar, which covers the history of China through 1949, making use of historic sites in the Xi'an area. Topics include Chinese philosophy, classics, history, geography, cultural customs and traditions, as well as religious traditions and life in rural China. Spring semester students spend a traditional Chinese New Year in households of area peasants, experiencing traditions and customs of this special holiday. Attribute: Upper Division. Class not open to freshmen and non-matriculated students.

**SBS 4904 CHINA STUDIES: CONTEMPORARY SOCIETY AND PUBLIC POLICY (5)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the CCCU China Studies Program. An examination of China from 1949 onward, this course focuses on changes that have transformed society since the Reform Policies of 1979. Topics include changes in the educational system, religious policy, women's issues, population control, rights of ethnic minorities, legal reforms, Taiwan and Tibet, and Sino-U.S. diplomacy. Attribute: Upper Division. Class not open to freshmen and non-matriculated students.

**SBS 4905 CHINA STUDIES: MODERNIZATION AND ECONOMIC DEVELOPMENT (4)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the CCCU China Studies Program. This course focuses on the economic changes in China since the late 1970s. Various areas such as foreign exchange, private enterprise, stock market, rural development and economic policies are covered. Attribute: Upper Division. Class not open to freshmen and non-matriculated students.

**SBS 4906 CHINA STUDIES: LOCAL CUSTOMS (2)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the CCCU China Studies Program. Attribute: Upper Division. Class not open to freshmen and non-matriculated students.

**SBS 4907 CHINA STUDIES: TAI CHI (2)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the CCCU China Studies Program. Tai chi, a gentle and stylized form of self-defense, tones the body and concentrates the mind. Students learn techniques, postures and routines. Attribute: Upper Division.

**SBS 4908 CHINA STUDIES: INTERCULTURAL COMMUNICATION (4)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the CCCU China Studies Program. This seminar introduces the fundamentals of language, communications and culture. Emphasis is on the bridges and barriers to cross-cultural communication, particularly between Chinese and Americans. Attribute: Upper Division.

### Film Studies Program (Los Angeles)

**Kim Gilnett**, *Coordinator*, Theatre Department  
The Los Angeles Film Studies Center (LAFSC), a program of the Council for Christian Colleges and Universities, offers a semester-long liberal arts exposure to the workings of the film industry, exploring the ethical considerations and cultural influences that arise from the industry's operations and product. Enrollment in the program is competitive and limited to upper-division undergraduates. For those accepted into the program, a block of 24 SPU credits may be earned. Consult the film studies coordinator for details. The Los Angeles Film Studies Center, located in Burbank, California, provides students a unique opportunity to study

the film industry in an "on location" intensified experience. Participants have opportunity to meet working professionals from all aspects of the film industry, to visit facilities found only in Southern California, and to utilize film research libraries unique to the area. The curriculum is intended to appeal to students from a variety of academic disciplines with the intent of providing an interdisciplinary study of film and the film industry, and with a secondary goal of providing opportunity to investigate future academic and/or vocational opportunities.

**FLM 4110 INSIDE HOLLYWOOD (1-5)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into Los Angeles Film Studies Center. Taught through semester-long program of the coalition for Christian Colleges and Universities in Los Angeles. An overview of the creative and operational aspects of the Hollywood film business, including the Christian's role in working within the entertainment business. Attribute: Upper Division.

**FLM 4120 INTRODUCTION TO FILMMAKING (4-5)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the Los Angeles Film Studies Center. Taught through semester-long program of the Coalition for Christian Colleges and Universities in Los Angeles. An introduction to the theory and practice of motion picture filmmaking. Topics include familiarity with filmmaking equipment; basic motion picture techniques; converting idea to image; the use of lighting, editing and sound in film; and the role of acting, directing and good storytelling in the filmmaking process. Students make several short super 8 mm films that manifest their faith in content and process. Attribute: Upper Division.

**FLM 4130 FILM IN CULTURE (4-5)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the Los Angeles Film Studies Center. Taught through semester-long program of the Coalition for Christian Colleges and Universities in Los Angeles. A study of the relationship between film and popular culture, with emphasis on Christianity's role in these arenas. The course examines how faith, film and culture mutually influence one another. It includes an overview of the historical relationship between the church and the movies, an understanding of a theology of the arts, a cultural studies approach to the nature of the arts in popular culture, and the Christian's role in identifying, discerning and ultimately influencing movie content. Attribute: Upper Division.

**FLM 4140 SCREENWRITING (4-5)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into Los Angeles Film Studies Center. Taught through semester-long program of the coalition for Christian Colleges and Universities in Los Angeles. An introduction to contemporary screenwriting, including an understanding of dramatic structure, character and dialogue development, and the writing process. Students complete a full-length screenplay for a feature film or "movie-of-the-week." Emphasis is given to the role of Christian faith and values as they relate to script content. Attribute: Upper Division.

**FLM 4910 SEMINAR: PRODUCING INDEPENDENT FILM (4-5)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into Los Angeles Film Studies Center. Taught through semester-long program of the coalition for Christian Colleges and Universities in Los Angeles. An introduction to the process of producing an independent feature film. Topics include legal structures, business plans, pre-production activities such as scheduling and budgeting, and an overview of the producer's role in production, post-production and distribution. Attention is given to the Christian's unique contribution to producing. Attribute: Upper Division.

**FLM 4943 INTERNSHIP (8)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the Los Angeles Film Studies Center. Taught through semester-long program of the Coalition for Christian Colleges and Universities in Los Angeles. Students participate in an internship experience in some aspect of the Hollywood film or television industry. These are non-paying positions primarily in an office setting such as development companies, agencies, personal management companies, production offices, etc. Students work 20 to 24 hours a week throughout the length of the semester. The internships do not include positions on actual filmmaking locations. Instead, students work in offices as support personnel to producers, writers, directors, agents, post-production personnel and others involved in the total

process of producing and distributing a major motion picture. The LAFSC provides interns to many of the major companies within Hollywood. Attribute: Upper Division.

### Latin American Studies Program (Costa Rica)

**Robert Baah**, *Coordinator*, Foreign Language Department  
Students of Council member colleges have the opportunity to live and learn in Latin America through the Latin American Studies Program (LASP), based in San Jose, Costa Rica. The program seeks to introduce students to as wide a range of Latin American experiences as possible through the study of language, literature, culture, politics, history, economics, ecology and religion of the region. Living with a Costa Rican family, students experience and become a part of the day-to-day lives of typical Latin Americans. Students also participate in a service opportunity and travel for three weeks to nearby Latin American nations. In addition to the regular program of interdisciplinary offerings, three specialized academic tracks are available to qualified students: Advance Language and Literature studies (limited to Spanish majors and offered both Autumn and Spring Quarters), International Business and Management (offered in only Autumn Quarter) and Tropical Sciences (offered only in Spring Quarter). Students in all tracks earn 24 quarter hours of credit.

**BIO 4917 LATIN AMERICAN STUDIES PROGRAM: SCIENCE SEMINAR (6)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into Latin American Studies Program. Taught through the semester-long program of the Council for Christian Colleges and Universities in Costa Rica. This seminar introduces students to biological field studies in a tropical location. May be taken as an alternative to SBS 4919, but it is not recommended for the LAS major. Part of the Tropical Science track. Attribute: Upper Division. Class not open to freshmen and non-matriculated students.

**BIO 4918 LATIN AMERICAN STUDIES PROGRAM: FIELD RESEARCH (3)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the Latin American Studies Program. Taught through semester-long program of the Council for Christian Colleges and Universities in Costa Rica. Part of the Tropical Science Track. Attribute: Upper Division.

**SBS 4911 LATIN AMERICAN STUDIES PROGRAM: BUSINESS SEMINAR (5)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into Latin American Studies Program. Taught through semester-long program of the Council of Christian Colleges and Universities in Costa Rica. Students investigate management and marketing in Latin America. Businesses explored include export commodities and multinationals marketing in Latin America. Special emphasis given to sources of information for planning. Part of the international business track. Attribute: Upper Division. Class not open to freshmen and non-matriculated students.

**SBS 4918 LATIN AMERICAN STUDIES PROGRAM: SEMINAR IN LATIN AMERICAN CULTURE I: HISTORY, CONTEMPORARY ISSUES AND PERSPECTIVES (5)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance in the Latin American Studies Program. Taught through semester-long program of Council for Christian Colleges and Universities in Costa Rica. This seminar introduces students to the historical development of Latin America, the variety of analytical perspectives from which Latin American reality is explained, the character, past and present, of U.S. policy in the region, and the nature and impact of the economic crisis in the region. Attribute: Upper Division. Class not open to freshmen and non-matriculated students.

**SBS 4919 LATIN AMERICAN STUDIES PROGRAM: SEMINAR IN LATIN AMERICAN CULTURE II: UNITING FAITH AND PRACTICE (4)** Registration Approval: Travel Studies Form.

Prerequisite: Acceptance in the Latin American Studies Program. Taught through semester-long program of Council for Christian Colleges and Universities in Costa Rica. This course introduces students to several perspectives on faith and practice in the context of Latin America, considers the historical development and current character of the church in Latin America, helps students gain an understanding of approaches to Third World development, and enables students to reflect biblically on these topics. Attribute: Upper Division. Class not open to freshmen and non-matriculated students.

**SBS 4920 LATIN AMERICAN STUDIES PROGRAM: CASE STUDY/PROJECT (4)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the Latin American Studies Program. Taught through semester-long program of the Council for Christian Colleges and Universities in Costa Rica. Part of the international business track. Attribute: Upper Division.

**SBS 4921 LATIN AMERICAN STUDIES PROGRAM: TRAVEL PRACTICUM (1)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the Latin American Studies Program. Taught through semester-long program of the Council for Christian Colleges and Universities in Costa Rica. Part of the tropical science track, advanced language and literature track and international business track. Attribute: Upper Division.

**SBS 4922 LATIN AMERICAN STUDIES PROGRAM: LITERATURE AND LANGUAGE (5)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the Latin American Studies Program. Taught through semester-long program of the Council for Christian Colleges and Universities in Costa Rica. Part of the advanced language and literature track. Attribute: Upper Division.

**SBS 4923 LATIN AMERICAN STUDIES PROGRAM: WORK/SERVICE OPPORTUNITY (4)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the Latin American Studies Program. Taught through semester-long program of the Council for Christian Colleges and Universities in Costa Rica. Part of the advanced language and literature track. Attribute: Upper Division.

**SBS 4937 INTERNATIONAL PRACTICUM (6)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the Latin American Studies Program. Taught through semester-long program of the Council for Christian Colleges and Universities in Costa Rica. Opportunity to participate in a two-week, hands-on service project will be offered midway through the semester. Attribute: Upper Division. Class not open to freshmen and non-matriculated students.

**SPN 4000 LATIN AMERICAN STUDIES PROGRAM: SPANISH LANGUAGE STUDY (9)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the Latin American Studies Program. As a Latin American Studies participant, you study Spanish not only in the classroom, but also on the street, in your home, in your service opportunity and during travel throughout Latin America. Students come to Costa Rica with varying degrees of fluency in Spanish, so LASP places you in the Spanish class that corresponds to your level of oral and written proficiency based on the placement exam and interview you will receive during orientation. You will study grammar, conversation and/or literature, based on the results of your tests. Attribute: Upper Division.

### Middle East Studies Program (Cairo)

**Donald Holsinger**, *Coordinator*, History Department  
The Middle East Studies Program (MESP), based in Cairo, Egypt, allows Council students to explore and interact with the complex and strategic world of the modern Middle East. The interdisciplinary seminars give student the opportunity to explore the diverse religious, social, cultural and literary traditions of Middle Eastern people. In addition to seminars, students study the Arabic language and work as volunteers with various organizations in Cairo. Through travel to Israel, Palestine, Jordan and Turkey, students are exposed to the diversity and dynamism of the region. The MESP encourages and equips students to relate to Muslim world in an informed, constructive and Christ-centered manner in a time of tension and change. Students earn 24 quarter hours of credit.

**ARAB 2000 MIDDLE EAST: INTRODUCTION TO ARABIC LANGUAGE (6)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the Middle East Studies Program. After a brief survey of the historical development of Arabic in the Middle East, both oral and written exercises form an integral part of the classroom program. This course incorporates the concept of communicative language acquisition to maximize the interaction of students with speakers of Arabic. Focusing on spoken Arabic, students are given a solid introduction to Egyptian colloquial grammar and substantial amount of vocabulary. Students involvement in weekly service opportunities further facilitates language acquisition. Attribute: Upper Division.

**SBS 4912 MIDDLE EAST SEMINAR: PEOPLE AND CULTURES (6)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the Middle East Studies Program. Autumn or spring semester study in Cairo, Egypt with the Middle East Studies Program of the Council for Christian Colleges and Universities. Interdisciplinary introduction to the cultural, political and religious characteristics of Middle Eastern peoples. Attribute: Upper Division. Class not open to freshmen and non-matriculated students.

**SBS 4913 MIDDLE EAST SEMINAR: ISLAMIC THOUGHT AND PRACTICE (6)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the Middle East Studies Program. Taught through semester-long program of the Council for Christian Colleges and Universities in Cairo, Egypt. This course examines the doctrines, rituals, jurisprudence and historical vision of Islam, with an emphasis on contemporary expressions of Islam in the Middle East. Special attention given to the historical origins of religious traditions that are still alive today, namely Sunni, Shi'ite (Zaydi, Isma'ili and Twelver) and Sufi Islam, as well as the central features of Islamic theology and jurisprudence: the Qur'an, the Hadith, Kalaam and legal reasoning. Attribute: Upper Division. Class not open to freshmen and non-matriculated students.

**SBS 4914 MIDDLE EAST SEMINAR: CONFLICT AND CHANGE (6)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the Middle East Studies Program. Taught through semester-long program of the Council for Christian Colleges and Universities in Cairo, Egypt. Interdisciplinary exploration of political, economic and cultural origins of conflict, in particular, the Arab-Israeli conflict. May include two-week study trip to Israel and the West Bank. Attribute: Upper Division. Class not open to freshmen and non-matriculated students.

### Oxford Honors Program (England)

**Susan VanZanten Gallagher**, *Coordinator*, English Department

Honors students from the Council for Christian Colleges and Universities have the opportunity to study in England in an interdisciplinary semester at Oxford University. The rigorous academic program, aimed at increasing critical-thinking skills and scholarship from a Christian perspective, allows participants to choose from a wide variety of tutorial study programs in numerous disciplines, including the arts, religion, history, literature and philosophy. In addition to two Oxford tutorials, students participate in a seminar and an integrative course through which they produce a scholarly project or term paper. Fieldtrips provide opportunities for experiential learning in England's rich historical setting. Students earn 24 quarter hours of credit.

**FPA 4951 OXFORD ARTS TUTORIAL (6)** Prerequisite: Admission to Oxford Honors. Taught through the historic one-to-one learning experience characteristic of the Oxford and Cambridge systems in England, this tutorial may include art, architecture, art history, drama and classics from the Medieval and Renaissance era and beyond in the framework of liberal arts exploration. Attribute: Upper Division. Class not open to freshmen or graduate-level students.

**SBS 4951 OXFORD HISTORY TUTORIAL (6)** Prerequisite: Admission to Oxford Honors. Taught through the historic one-to-one learning experience characteristic of the Oxford and Cambridge

systems in England, this tutorial may include European history, languages, law, philosophy, political science, history of science, and biblical and religious studies in the context of liberal arts exploration. Attribute: Upper Division. Class not open to freshmen or graduate-level students.

**SBS 4952 OXFORD SPECIAL TOPICS SEMINAR (6)** Wide range of subjects is available. Students select a topic and are expected to make presentations during the seminar, engage in discussions and write substantial essays. Class not open to freshmen or graduate-level students.

**SBS 4953 OXFORD INTEGRATIVE STUDIES (6)** Students take a selected course and focus on the integration of faith, learning and living. Requires a major scholarly project or term paper for presentation at a closing symposium. A required weekly colloquium meeting and several fieldtrips are part of this course. Attribute: Upper Division. Class not open to freshmen or graduate-level students.

**SBS 4979 INDEPENDENT RESEARCH (2-12)** Registration Approval: Instructor. By arrangement with the coordinator in conjunction with off-campus study. May be repeated for credit up to 12 credits. Attribute: Upper Division. Class not open to freshmen.

### Oxford Summer School (England)

**Susan VanZanten Gallagher**, *Coordinator*, English Department

The summer equivalent of the Oxford Honors Program allows students of CCCU member institutions to spend a summer term studying at the Centre for Medieval and Renaissance Studies (CMRS) of Keble College at Oxford University. The program includes multidisciplinary study of the Renaissance and Reformation through examination of philosophy, art, literature, science, music, politics and religion of early modern Europe in a choice of lectures, seminars and fieldtrips. Students earn 9 to 13.5 quarter credits, which are administered directly to member institutions by CMRS credits.

### Russian Studies Program

**Katya Nemtchinova**, *Coordinator*, Foreign Language Department

Russian Studies Program (RSP) students are exposed to the depth and diversity of Russian culture during a semester spent in Russia's three largest cities: Moscow, St. Petersburg and Nizhni Novgorod. In addition to three seminar courses entitled History and Sociology of Religion in Russia, Russian Peoples, Cultures and Literature, and Russia in Transition, students receive instruction in the Russian language, choosing either four or six semester hours of language coursework. For those opting for four hours of Russian, a seminar course entitled International Relations and Business in Russia is available. The RSP strives to give students as wide an experience as possible in this complex nation, beginning with time in Moscow, the heart of both medieval and modern Russia. Students then spend 12 weeks in Nizhni Novgorod, a strategic city on the Volga River. After six weeks of language instruction, students live with a Russian family for the remainder of their stay in this city. Students also participate in a service opportunity in Nizhni Novgorod. The program concludes with a week spent in the complex and intriguing city of St. Petersburg, the Russian "window to the West." Students generally earn 24 quarter hours of credit.

**EUR 4911 RUSSIAN STUDIES SEMINAR I: HISTORY AND SOCIOLOGY OF RELIGION IN RUSSIA (5)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the Russian Studies Program. Taught through semester-long program of the Council for Christian Colleges and Universities in Russia. This seminar delves into the history of religion in Russia dating from the beginnings of Christianity in the 10th century to the present day, with emphasis on Orthodoxy and Protestantism, including study of the persecution during the Soviet era and the flourishing of religious activity in post-Soviet years. The course also looks at the current government regulations from various points of view. Attribute: Upper Division. Class not open to freshmen or graduate-level students.

**EUR 4912 RUSSIAN STUDIES SEMINAR II: RUSSIAN PEOPLES, CULTURE AND LITERATURE (6)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the Russian Studies Program. Taught through semester-long program of the Council for Christian Colleges and Universities in Russia. This seminar continues the study of Russian people and culture throughout history using well-known works of Russian literature to examine changes in Russia and their impact on her citizens from ancient times, through the czarist and Soviet eras, and in Russia today. Attribute: Upper Division. Class not open to freshmen or graduate-level students.

**EUR 4913 RUSSIAN STUDIES SEMINAR III: RUSSIA IN TRANSITION (5)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the Russian Studies Program. Taught through semester-long program of the Council for Christian Colleges and Universities in Russia. This seminar takes an in-depth look at Russia since 1991. A compendium of background and current journal, magazine and newspaper articles is utilized, as well as guest lecturers and public policy representatives. Students are introduced to the complexities of transition from a centrally planned economy to a free market system and establishment of democratic institutions. Attribute: Upper Division. Class not open to freshmen or graduate-level students.

**EUR 4914 INTERNATIONAL RELATIONS AND BUSINESS (3)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the Russian Studies Program. Taught through semester-long program of the Council for Christian Colleges and Universities in Russia. This class will explore issues related to the newly arising world of business in Russia. Cultural differences, economic potential, ethics and government policy will be examined. Attribute: Upper Division. Class not open to freshmen and non-matriculated students.

**RUS 2000 RUSSIAN LANGUAGE STUDY: ELEMENTARY (6,9)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the Russian Studies Program. Taught through semester-long program of the Council for Christian Colleges and Universities in Russia. Class not open to freshmen or graduate-level students.

**RUS 3000 RUSSIAN LANGUAGE STUDY: INTERMEDIATE (6,9)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the Russian Studies Program. Taught through a semester-long program of the Council for Christian Colleges and Universities in Russia. Attribute: Upper Division. Class not open to freshmen or graduate-level students.

**RUS 4000 RUSSIAN LANGUAGE STUDY: ADVANCED (6,9)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the Russian Studies Program. Taught through semester-long program of the Council for Christian Colleges and Universities in Russia. Attribute: Upper Division. Class not open to freshmen or graduate-level students.

### Summer Institute of Journalism

**Rick Jackson**, *Coordinator*, Communication Department  
Council campuses are invited to choose two student journalists to apply for this four-week, all-expenses-paid experience in Washington, D.C. Fifteen students are selected to participate in the institute, which lasts from mid-May to mid-June. The institute blends classroom experience with hands-on work and is an excellent opportunity to learn through lectures and panels with leading journalists who share a strong Christian

commitment. Participants also participate in seminars taught by communications professors from Council member institutions, take part in fieldtrips and complete workshop projects for local newspapers. The course provides valuable insight and training in gathering and writing news, editing copy and designing layout. The institute seeks to develop students as Christian journalists – exhibiting both professionalism and legal/ethical integrity. Students generally earn 6 quarter hours of credit.

## Visit/Transfer Programs

**Clark Atlanta, Consortium Visitor Program, Daystar, FIT, FIDM**

These programs are registered at the institution through SPU agreements:

1. Clark Atlanta College (Atlanta, Georgia)
2. Student Life Consortium Student Visitor Program Student Academic Services
3. Daystar University (Nairobi, Kenya)  
Donald Holsinger, History Department
4. Fashion Institute of Design and Marketing FIDM (LA)  
Sandra Hartje, Family Consumer Sciences Department
5. Fashion Institute of Technology FIT (New York)  
Sharleen Kato, Family Consumer Sciences Department
6. Soongsil University, Seoul Korea  
Kevin McMahan, Educational Services

### Clark Atlanta College

Seattle Pacific University and Clark Atlanta College are sister schools. Students are able to study at each institution with the permission of the vice president for academic affairs. Information is available from the Office of Student Life.

### Consortium Visitor Program

Students may elect to attend one of the other 12 Christian College Consortium schools on a visitor basis for one or two quarters on the Student Visitor Program. In addition to SPU, Consortium schools include Asbury College, Bethel College (St. Paul), George Fox University, Gordon College, Greenville College, Houghton College, Malone College, Messiah College, Taylor University, Trinity International University, Westmont College and Wheaton College. Applications should be filed through Student Academic Services. The deadline for Autumn Quarter is March 1; for Winter and Spring Quarters, the deadline is October 1.

### Daystar Program

The Christian College Consortium also sponsors a study program at Daystar University in Nairobi, Kenya. Programs of study include communications, business administration and management, education, community development, and Bible and Christian ministries. All instruction is in the English language, offered by a faculty composed primarily of African nationals. Admission to Daystar is limited to Consortium students in their junior or senior years.

### Fashion Institute of Design and Merchandising (FIDM) Program

Students have an option of pursuing a concentrated year of training in interior design by participating in the liaison program with the Fashion Institute of Design and Merchandising (FIDM) in Los Angeles. The interior design program at FIDM is accredited by the Foundation for Interior Design Education Research. Students electing to participate in the FIDM liaison should apply in their junior year and attend during their senior year. Students considering this option should seek advisement early in their academic careers in order to meet the requirements of both FIDM and SPU.

### Fashion Institute of Technology (FIT) Program

Students in the textiles and clothing program who have major status and have maintained a satisfactory grade point may select from nine additional specializations if they are accepted into the liaison program with the Fashion Institute of Technology in New York City. Those students who choose the FIT option must be accepted into the major and work closely with their advisor in selecting courses that best prepare them for their chosen major. Specializations offered through the liaison program with FIT include accessories design, advertising and communication, advertising design, manufacturing management, fashion design, fashion buying and merchandising, jewelry design, textile/surface design, or textile development and marketing.

### Soongsil University, Seoul Korea

Seattle Pacific University and Soongsil University are sister schools. Students are able to study at each institution. Information is available from the Office of Student Life.

## Accounting

See Business and Economics, School of

## Anthropology

See Sociology

## Art

Art Center  
3 West Cremona  
(206) 281-2205 or (206) 281-2079  
[www.spu.edu/depts/fpa/art/art\\_homepage.html](http://www.spu.edu/depts/fpa/art/art_homepage.html)

**Michael Caldwell, Chair, Roger Feldman, Virginia Causey, Susan Haas, Larry Halvorsen, Liza Halvorsen, Karen Wilson, Adjunct Faculty**

The purpose of the art program is to (1) acquaint students with the fundamental elements and principles of the visual

arts and their use in either studio or visual communication arts; (2) to introduce students to the techniques of various traditional and technological media; (3) to create an awareness in students of the value of art by presenting the proper historical and cultural background; and (4) to assist students in their exploration of the spiritual nature of art as an expression of their faith. The curriculum provides training in studio arts or visual communication that prepares students to pursue advanced study, begin work professionally or enter the field of art education. Formal application for admission to a major or minor in art should be made upon completion of the specified freshman drawing and design course sequences (see below). In the case of a transfer student with class status beyond the sophomore level, application to the art major or art minor can be made after confirmation of successful completion of equivalent drawing and design course sequences. At the time of application the student must (1) designate her or his intention to pursue studies as an art major in either studio arts or visual communication, or as an art minor in studio arts; (2) submit a portfolio for review; and (3) must have a minimum 2.5 GPA in art courses. All senior art majors, as a condition of graduation, are required to participate in the Senior Exhibition. The exhibition is held during the last four weeks of Spring Quarter. Senior art majors must also, as a condition of graduation, provide the Art Department with a comprehensive photographic portfolio of work completed during their studies. The slides will be retained by the Art Department as part of the department slide library.

### Requirements for the Art Major

Emphasis in Studio Arts  
(68 credits; 34 upper division)

#### Core Courses

Art 1102, 1103, 1104 Drawing Studio .....	9
Art 1202, 1203, 1204 Design Studio .....	9
Art 2302 Painting Studio, Oil or Acrylic .....	3
Art 2722 Sculpture Studio .....	3
Art 2421 Printmaking Studio .....	3

#### Studio Arts Emphasis Courses

Art 3112 Figure Drawing <i>or</i> .....	3
Art 4112 Figure Drawing - Advanced .....	3
Art 2428 Ceramics Studio .....	3
Art 2422 Metals Studio .....	3
Art History (3 quarters of study required) .....	15
Art 4236 Portfolio .....	1
Art 4910 Senior Seminar and Exhibition .....	1
Art 4966 Senior Studio Project .....	3

#### Art Electives

(4 quarters of study in areas of student choice; must be upper division)..... 12

**Total Credits .....** 68

### Requirements for the Art Major Emphasis in Visual Communication

(71 credits; 44 upper division)

### Core Courses

Art 1102, 1103, Drawing Studio .....	6
Art 1202, 1203 Design Studio .....	6
Art 2201 Introduction to Computer Art .....	3
Art 2302 Painting Studio, Oil or Acrylic .....	3
Art 3112 Figure Drawing .....	3
Art 3604 History of Renaissance Art .....	5
Art 3605 History of Modern Art .....	5

#### Visual Communication Emphasis Courses

Art 2202 Image Capture .....	3
Art 2208 Typography .....	3
Art 2502 Illustration .....	3
Art 3302 Visual Communication (Beginning Print) .....	3
Art 3304 Visual Communication (Advanced Print) .....	3
Art 3306 Information Architecture (Beginning Web) .....	3
Art 3502 Illustration, Advanced .....	3
Art 3609 History of Graphic Design .....	5
Art 4208 Interactive Media 1 .....	3
Art 4210 Interactive Media 2 .....	3
Art 4236 Portfolio .....	1
Art 4910 Senior Seminar and Exhibition .....	1
Art 4943 Art Internship .....	3

**Total Credits .....** 71

### Requirements for the Art Minor in Studio Arts

(43 credits; 15 upper division)

#### Core Courses

Art 1102, 1103, 1104 Drawing Studio .....	9
Art 1202, 1203, 1204 Design Studio .....	9

#### Studio Arts Emphasis Courses

Art 2302 Painting Studio, Oil or Acrylic .....	3
Art 2722 Sculpture Studio .....	3
Art 2421 Printmaking Studio .....	3
Art History (two quarters of study required) .....	10

#### Art Electives

(Two quarters of study in areas of student choice; must be upper division)..... 6

**Total Credits .....** 43

Art 1180 may not be used to meet a requirement for either the art major or art minor in Studio Arts. Information concerning concentrations for teacher preparation is available from the School of Education.

### Art Courses

**ART 1102 DRAWING STUDIO (3)** Studies the use of line, perspective, value and composition in the context of drawing as visual description based on observation and analysis of various motifs. Emphasizes linear drawing. Extra fee. Attributes: Arts and Humanities A and Fine Arts Option. Class not open to juniors and seniors.

**ART 1103 DRAWING STUDIO (3)** Studies the use of line, perspective, value and composition in the context of drawing as visual description based on observation and analysis of various motifs. Emphasizes tonal drawing. Extra fee. Attribute: Fine Arts Option. Class not open to juniors and seniors.

**ART 1104 DRAWING STUDIO (3)** Studies the use of line, perspective, value and composition in the context of drawing as visual description based on observation and analysis of various motifs. Emphasizes composition of the pictorial space. Extra fee. Attribute: Fine Arts Option. Class not open to juniors and seniors.

**ART 1180 THE VISUAL ARTS (3)** Introduces and analyzes visual forms through lecture, observation and discussion. The nature of the visual arts is explored from the vantage points of the artist and viewer/critic. Co requisite: ART 1181. Attributes: Arts and Humanities A and Fine Arts Core.

**ART 1181 THE VISUAL ARTS LAB (2)** Studio-oriented experience consisting of a series of basic exercises using visual elements and principles of art to create works of art. Corequisite: ART 1180. Attributes: Arts and Humanities A and Fine Arts Core.

**ART 1202 DESIGN STUDIO (3)** Applies the elements and principles of visual arts and design to projects in a variety of media emphasizing practical design problems. Emphasizes two-dimensional design. Extra fee.

**ART 1203 DESIGN STUDIO (3)** Applies the elements and principles of visual arts and design to projects in a variety of media emphasizing practical design problems. Emphasizes three-dimensional design. Extra fee.

**ART 1204 DESIGN STUDIO (3)** Applies the elements and principles of visual art and design to projects utilizing digital imaging and manipulation. Emphasis placed on digital media as tools for creating works of art. Extra fee. Class open to art majors. Class open to freshmen and sophomores.

**ART 2201 INTRODUCTION TO COMPUTER ART (3)** Prerequisites: ART 1102, 1103, 1202, 1203 and 1204. Overview and exploration of the rudimentary use of digital media as it relates to the production of visual communications. Extra fee. Registration Approval: Instructor.

**ART 2208 TYPOGRAPHY (3)** Registration Approval: Instructor. Prerequisite: ART 2201. Introduction to the communicative symbolic, and associative aspects of typography. Emphasis is placed upon the strategic use of typography as a primary design element. Extra fee. Class not open to freshmen.

**ART 2302 PAINTING STUDIO - WATER SOLUBLE OIL (3)** Analyzes problems in two-dimensional composition and the expression of volume on the two-dimensional plane emphasizing materials and techniques of water-soluble oil painting. Extra fee. Attributes: Arts and Humanities A and Fine Arts Option.

**ART 2421 PRINTMAKING STUDIO (3)** Studies graphic art with projects in several printing media, including relief and intaglio processes in woodcut, linocut, drypoint and etching and monoprint. Extra fee. Class not open to freshmen.

**ART 2422 METALS STUDIO (3)** Teaches the raising, soldering and forging of metals into utensils and decorative forms such as jewelry. Emphasizes fabrication. Extra fee. Attributes: Arts and Humanities A and Fine Arts Option.

**ART 2428 CERAMICS STUDIO (3)** Explores the design and construction of pottery. Projects include several hand-building processes of construction, glazing and loading and firing the kiln. Emphasizes hand building. Extra fee. Attributes: Arts and Humanities A and Fine Arts Option. Class not open to freshmen.

**ART 2502 ILLUSTRATION (3)** Prerequisites: ART 1102, 1103 and 1104. Introduction to the various problems, materials and techniques and processes utilized in professional illustration. Extra fee.

**ART 2722 SCULPTURE STUDIO (3)** Prerequisite: ART 1203. Studies of three-dimensional form and composition with the several media typically used in sculpture. Emphasizes additive and subtractive sculpture techniques. Extra fee. Class not open to freshmen.

**ART 3112 DRAWING STUDIO - FIGURE (3)** Registration Approval: Instructor. Prerequisites: ART 1102, 1103, 1104. Studies the problems of anatomical structure with sketching and drawing from the draped model. Extra fee. Attribute: Upper Division. Class open to art majors. Class not open to freshmen.

**ART 3202 VISUAL COMMUNICATION I (3)** Registration Approval: Instructor. Prerequisites: ART 2201, 2205, 2208. Exploration of creative ideas, resources, digital processes, media and terminology in the development of visual communication solutions. Extra fee. Attribute: Upper Division. Class open to art majors. Class not open to freshmen and sophomores.

**ART 3204 VISUAL COMMUNICATION II (3)** Registration Approval: Instructor. Prerequisite: ART 3202. Continues exploration of terminology, processes and theory in the development of design solutions for various forms of visual communication. Extra fee. Attribute: Upper Division. Class open to art majors. Class not open to freshmen and sophomores.

**ART 3207 INFORMATION ARCHITECTURE - BEGINNING WEB (3)** Registration Approval: Instructor. Prerequisites: ART 2208, 3204. Exploration of theoretical, practical and developmental aspects of information design. Focus on systematic aspects of commutativity and interactivity in preparation for designing in the electronic environment. Extra fee. Attribute: Upper Division. Class open to art majors. Class not open to freshmen and sophomores.

**ART 3302 PAINTING STUDIO ADVANCED I - WATER SOLUBLE OIL (3)** Prerequisite: ART 2302 or permission of instructor. Emphasizes individual expression and the study of styles in various subject matter. Extra fee. Attribute: Upper Division. Class not open to freshmen.

**ART 3315 PAINTING STUDIO - WATERCOLOR (3)** Investigates a range of technical skills in the use of traditional watercolor. Attribute: Upper Division.

**ART 3421 PRINTMAKING STUDIO - ADVANCED I (3)** Prerequisite: ART 2421 or permission of instructor. Studies graphic art with projects in several of the printmaking media, including serigraph, collograph and monograph. Extra fee. Attribute: Upper Division. Class not open to freshmen and sophomores.

**ART 3422 METALS STUDIO - ADVANCED I (3)** Prerequisite: ART 2422 or permission of instructor. Teaches the raising, soldering and forging of metals into utensils and decorative forms such as jewelry. Emphasizes forming. Extra fee. Attribute: Upper Division. Class not open to freshmen and sophomores.

**ART 3428 CERAMICS STUDIO - WHEEL I (3)** Prerequisite: ART 2428. Explores the design and construction of pottery. Projects include wheel processes of throwing, glazing, packing and firing the kiln. Emphasizes beginning wheel. Extra fee. Attributes: Arts and Humanities A, Fine Arts Option and Upper Division. Class not open to freshmen and sophomores.

**ART 3502 ILLUSTRATION - ADVANCED (3)** Prerequisite: ART 2502. Continued work in illustration as a form of graphic communication with emphasis on advanced media techniques and conceptual development. Extra fee. May be repeated for credit one time. Attribute: Upper Division. Class not open to freshmen and sophomores.

**ART 3546 ART EDUCATION - ELEMENTARY (3)** Discusses the principles and elements of art as related to a variety of media with direct application to use in the elementary classroom. Special emphasis on the role of art in the curriculum and understanding the perceptual development of children. Studio periods will be augmented with lectures and discussion. Attribute: Upper Division. Class not open to freshmen and sophomores.

**ART 3547 ART EDUCATION - SECONDARY (3)** Studies the teaching of art in the secondary school with investigation of several appropriate media and emphasizing development of an art curriculum. Studio periods will be combined with lectures and discussions. Offered alternate years. Course Equivalent: EDU 3358. Attribute: Upper Division. Class not open to freshmen and sophomores.

**ART 3602 HISTORY OF ANCIENT ART (5)** Explores the pictorial and plastic expression of the ancient Mediterranean cultures to the end of the Roman Empire. Offered alternate years. Attributes: Arts and Humanities A, Fine Arts Option and Upper Division. Class not open to freshmen and sophomores.

**ART 3603 HISTORY OF EARLY CHRISTIAN AND MEDIEVAL ART (5)** Explores the symbolic, pictorial and plastic expressions of the Early Christian and Medieval periods. Offered alternate years. Attributes: Arts and Humanities A, Fine Arts Option and Upper Division. Class not open to freshmen and sophomores.

**ART 3604 HISTORY OF RENAISSANCE AND BAROQUE ART (5)** Explores the symbolic, pictorial and plastic expression of the Renaissance and Baroque periods. Offered alternate years. Attributes: Arts and Humanities A, Fine Arts Option and Upper Division. Class not open to freshmen and sophomores.

**ART 3605 HISTORY OF MODERN ART (5)** Explores the plastic and pictorial expression of Europe and America from the 18th century to the present particularly emphasizing 20th century development. Offered alternate years. Attributes: Arts and Humanities A, Fine Arts Option and Upper Division. Class not open to freshmen and sophomores.

**ART 3606 HISTORY OF ASIAN ART (5)** Examines the art forms of Japan, Korea, China, India and Indian Asia. Offered alternate years. Attributes: Arts and Humanities A, Fine Arts Option and Upper Division. Class not open to freshmen and sophomores.

**ART 3607 HISTORY OF AMERICAN ART (5)** Provides a survey of American art from Colonial times to the present, covering ar-

chitecture, painting and sculpture. Offered alternate years. Attributes: Arts and Humanities A, Fine Arts Option and Upper Division. Class not open to freshmen and sophomores.

**ART 3610 HISTORY OF GRAPHIC DESIGN (5)** Registration Approval: Instructor. Survey of historical roots of typography, illustration and graphic design to the present. Issues, ideas and designer/artists act as vehicles for investigation. Attributes: Upper Division and Writing Course. Class open to art majors. Class not open to freshmen and sophomores.

**ART 3722 SCULPTURE STUDIO - ADVANCED I (3)** Prerequisite: ART 2722 or permission of instructor. Studies in development of composition and process with emphasis on refining media appropriate to conceptual development. Extra fee. Attribute: Upper Division. Class not open to freshmen and sophomores.

**ART 4112 FIGURE DRAWING - ADVANCED (3)** Registration Approval: Instructor. Prerequisites: ART 1102, 1103, 1104 and 3112. Advanced studies of sketching and drawing from the draped model. Extra fee. May be repeated for credit up to 6 credits. Attribute: Upper Division. Class not open to freshmen and sophomores.

**ART 4208 INTERACTIVE MEDIA I (3)** Registration Approval: Instructor. Prerequisite: ART 3204. Introduction to the tools, processes and strategies for Internet design. Concentration on fundamental properties of the electronic environment, along with development of appropriate skill base. Extra fee. Attribute: Upper Division. Class open to art majors. Class not open to freshmen and sophomores.

**ART 4210 INTERACTIVE MEDIA II (3)** Registration Approval: Instructor. Prerequisite: ART 4208. Continued development of design aspects related to the Internet and interactive media. Emphasis placed on strategic use of theory, methodology and refinement in the development of electronic interactive Web sites. Extra fee. Attribute: Upper Division. Class open to art majors. Class not open to freshmen and sophomores.

**ART 4212 MOTION GRAPHICS (3)** Registration Approval: Instructor. Prerequisite: ART 4210. Exploration and focus upon utilization of movement as a design element in the interactive electronic environment. Investigation of primitive to sophisticated uses of animation as a communicative instrument. Extra fee. Attribute: Upper Division. Class open to art majors. Class not open to freshmen and sophomores.

**ART 4236 PORTFOLIO (2)** Instruction in the development of a professional portfolio including résumé and cover-letter writing and presentation of samples of creative work. Attribute: Upper Division. Class open to visual arts majors.

**ART 4302 PAINTING STUDIO - ADVANCED II (3)** Registration Approval: Instructor. Prerequisites: ART 2302, 3302. Extra fee. May be repeated for credit two times. Attribute: Upper Division. Class open to visual arts majors. Class open to juniors and seniors.

**ART 4421 PRINTMAKING STUDIO - ADVANCED II (3)** Prerequisites: ART 2421, 3421 or permission of instructor. Studies graphic art with projects in several of the printing media, including woodcut, serigraph and collograph. Extra fee. May be repeated for credit one time. Attribute: Upper Division. Class not open to freshmen and sophomores.

**ART 4422 METALS STUDIO - ADVANCED II (3)** Prerequisites: ART 2422, 3422 or permission of instructor. Teaches the raising, soldering and forging of metals into utensils and decorative forms such as jewelry. Emphasizes casting. Extra fee. May be repeated for credit two times. Attribute: Upper Division. Class not open to freshmen and sophomores.

**ART 4428 CERAMICS STUDIO - WHEEL II (3)** Prerequisite: ART 3428 or permission of instructor. Explores the design and construction of pottery. Projects include wheel processes of construction, glazing and loading and firing the kiln. Emphasizes advanced wheel. Extra fee. May be repeated for credit two times. Attributes: Arts and Humanities A, Fine Arts Option and Upper Division. Class not open to freshmen.

**ART 4608 ISSUES IN CONTEMPORARY ART (3)** A study of art produced since 1970 focusing on current art movements and their relationship to changing societal values. May be repeated for credit one time. Attributes: Upper Division and Writing Course. Class not open to freshmen and sophomores.

**ART 4722 SCULPTURE STUDIO - ADVANCED II (3)** Prerequisite: ART 3722 or permission of instructor. Studies of three-dimensional form and composition with emphasis on site-specific sculpture, installation art and art in the public place. Extra fee.

May be repeated for credit two times. Attribute: Upper Division. Class not open to freshmen and sophomores.

**ART 4900 INDEPENDENT STUDY (1-5)** Registration Approval: Independent Study Agreement. Student works independently with a faculty member on a mutually agreed upon topic. May be repeated for credit up to 15 credits. Attribute: Upper Division.

**ART 4910 SENIOR SEMINAR AND EXHIBITION (1)** Prerequisite: Senior standing with a major in art or permission of instructor. Deals with preparation of the senior exhibition and explores the problems of setting up a studio and working professionally. Attribute: Upper Division. Class open to fine and applied arts and visual arts majors. Class not open to freshmen, sophomores and juniors.

**ART 4920 READINGS IN ART (1-5)** Registration Approval: Independent Study Agreement. May be repeated for credit up to 15 credits. Attributes: Upper Division and Writing Course. Class open to visual arts majors. Class not open to freshmen, sophomores and juniors.

**ART 4943 ART INTERNSHIP (1-5)** Registration Approval: Intern Learning Contract Req. An opportunity for art students to gain additional proficiency and experience in an approved project of the student's own design. May be repeated for credit up to 20 credits. Attribute: Upper Division. Class not open to freshmen and sophomores.

**ART 4950 SPECIAL TOPICS IN ART (1-5)** Registration Approval: Instructor. May be repeated for credit up to 15 credits. Attribute: Upper Division. Class open to visual arts majors. Class not open to freshmen, sophomores and juniors.

**ART 4966 SENIOR STUDIO PROJECT (1)** Senior self designs and completes over the academic year a visual arts project that will form the core of the work they display in the Senior Exhibition. Students must register for this course for each quarter of their senior year. May be repeated for credit up to 5 credits. Attribute: Upper Division. Class open to fine and applied arts and visual arts majors. Class not open to freshmen, sophomores and juniors.

## Faculty

**Michael Caldwell**, *Professor of Art*, B.S., University of Oregon, 1968; M.F.A., 1970. At SPU since 1970.

**Roger Feldman**, *Professor of Art*, B.A., University of Washington 1972; M.F.A., Claremont Graduate University, 1977. At SPU since 2000

## Biochemistry

See Chemistry

## Biology

Miller Science Learning Center (MSLC)

(206) 281-2140

[www.spu.edu/depts/biology/](http://www.spu.edu/depts/biology/)

**Richard L. Ridgway**, *Chair*, **Cindy Bishop**, **Bruce Congdon**, **Cynthia L. Fitch**, **A. Kenneth Moore**, **Timothy Nelson**

The Department of Biology has four primary goals: (1) We seek to promote the scientific study of life; (2) we work to improve communication and critical thinking in issues related to biology; (3) we strive for excellence in scientific training for those who pursue careers in scientific fields; and (4) we are committed to the development of personal integrity and wholeness in our community of faculty and students.

## Admission to the Major

The application for major status should be made by the beginning of the junior year, after completion of the sequence in general biology. Transfer students are eligible to apply after successful completion of one 5-credit upper-division biology course at SPU. Applications are considered individually by the biology faculty, but the normal minimum requirement for admission will be a GPA of 2.5 in biology courses.

## Requirements for the Biology Major

(Refer to page 64 for a summary of degree requirements.)

### B.S. in Biology Option I

(100 credits; 35 upper division in biology)

This major provides preparation for graduate studies or professional careers in biology. It places special emphasis on undergraduate research. Depending upon interests and professional goals, a student may choose the core and elective coursework to emphasize botany, cellular and molecular biology, ecology, marine biology, physiology or zoology. In addition to the core and supporting requirements indicated below, 14 credits of biology elective courses are also required. Elective courses should be discussed with biology faculty advisors. General physics is also strongly recommended. As a part of either core requirements or electives, students are required to take a minimum of 3 credits of field biology, taught primarily in the field and emphasizing field methods. Seattle Pacific field biology courses are BIO 4117, BIO 4735, BIO 4740, BIO 4744, BIO 4815, BIO 4820, BIO 4825, BIO 4980, BIO 4981 and BIO 4950. An undergraduate research project is required for graduation. Each student will collaborate with a faculty member on an investigation that requires a formal proposal (BIO 4978 Biological Research Proposal), and original research and presentation of results (BIO 4979).

### Option II

(108 credits)

This program is designed primarily for those students planning to enter a master's degree program in physical therapy. This highly interdisciplinary curriculum will satisfy the basic requirements for entry into physical therapy as outlined by the American Association of Physical Therapists. In addition to the requirements listed below, 10 elective credits are required from the following: BIO 3325, 3434, 4256, 4413 and 4418. Other recommended courses include CHM 3225 and 3400, FCS 3340, HSC 3395, MAT 1112/1114 or 1221, PE 3590 and SOC 1110.

Required Courses	BS I	BS II
BIO 2101 General Biology	5	5
BIO 2102 General Biology	5	5
BIO 2103 General Biology	5	5
BIO 2129 Anatomy and Physiology		5
BIO 2130 Anatomy and Physiology		5
BIO 3325 Genetics	5	
BIO 3351 General Microbiology		5
BIO 4352 Cell Biology	5	
BIO 4330 Evolutionary Mechanisms	3	
<b>Physiology Core</b> (BIO 4413 or BIO 4415)	5	
<b>Comparative Biology Core</b> (BIO 3320, BIO 3432, BIO 3453, BIO 3456, BIO 4435, BIO 4740, or BIO 4744)	5	
<b>Ecology Core</b> (BIO 3310, BIO 4815, BIO 4825, or BIO 4981)	5	
<b>Field Biology Requirement</b> (A minimum of 3 credits)	See above	
<b>Undergraduate Research</b> (A minimum of 3 credits) BIO 4978 (1) and BIO 4979 (2)	3	
<b>Electives</b>	<b>14</b>	<b>10</b>
<b>Required supporting course</b>		
CHM 1211 General Chemistry	5	5
CHM 2371 Organic Chemistry	5	5
CHM 2372 Organic Chemistry	5	5
CHM 2373 Organic Chemistry	5	5
CHM 3225 Chemical Equilibrium and Analysis	5	
CHM 3226 Quantitative and Instrumental Analysis or CHM 3400 Physical Chemistry for the Life Sciences or CHM 3540 Introductory Inorganic Chemistry or BIO 4360 Statistical Inference in Biological Research	5	
MAT 1221 Survey of Calculus or MAT 1225 and 1226 Calculus		5
MAT 1360 Statistics or HSC 4044 Biomed Tests, Measurements and Stats	5	5
<b>CSC 1121 and two of the following: CSC 1122, CSC 1123, CSC 1124, and CSC 1126</b>		3
PE 3570 Biomechanics		5
PE 3580 Exercise Physiology		5

PHY 1101, 1102 and 1103 General Physics or PHY 1121, 1122, and 1123 Physics for Sci. and Eng.		15
PSY 1180 General Psychology		5
PSY 2470 Life Span Developmental Psych. or PSY 4420 Adolescent Developmental Psych.		5
PSY 4460 Abnormal Behavior		5
<b>Total</b>	<b>100</b>	<b>108</b>

No more than 6 credits of BIO 4950 or 5 credits in BIO 4900, 4930, 4940, 4978 or 4979 may be applied to a B.S. degree in biology.

### B.A. in Biology Option I

(85 credits; 25 upper division in biology)

The program provides a sound foundation for pre-professional training for medicine, dentistry, optometry, veterinary sciences, as well as certain other health related and applied biology fields. Other courses in chemistry, physics and mathematics should be taken to meet the demand of the student's individual plans or career goals. See additional information under "Pre-Professional Health Programs."

### Option II

(78 credits; 30 upper division in biology)

This program is designed to provide a broad foundation in biology for liberal arts students and those preparing for the teaching profession at the junior high school or secondary level. Students preparing for teaching careers are strongly advised to take BIO 4330, CHM 3225 and CMH 3400.

Required Courses	BA I	BA II
BIO 2101 General Biology	5	5
BIO 2102 General Biology	5	5
BIO 2103 General Biology	5	5
BIO 3325 Genetics	5	5
BIO 4352 Cell Biology	5	
BIO 4615 Issues and Values in Biology		3
<b>Ecology Core</b> (BIO 3310, BIO 4815, BIO 4825 or BIO 4981)		5
<b>Comparative Biology Core</b> (BIO 3320, BIO 3432, BIO 3453, BIO 3456, BIO 4435, BIO 4740 or BIO 4744)		5
<b>Physiology Core</b> (BIO 4413 or BIO 4415)		5
<b>Electives</b>	<b>25</b>	<b>15</b>
<b>Required supporting courses</b>		
CHM 1211 General Chemistry	5	5

CHM 2371 Organic Chemistry	5	5
CHM 2372 Organic Chemistry	5	5
CHM 2373 Organic Chemistry	5	5
CHM 3225 Chemical Equilibrium and Analysis	5	
CHM 3226 Quantitative and Instrumental Analysis or CHM 3400 Physical Chemistry for the Life Sciences or CHM 3540 Introductory Inorganic Chemistry	5	
MAT 1360 Statistics or HSC 4044 Biomed Tests, Measurements and Stats	5	5
<b>Total</b>	<b>85</b>	<b>78</b>

\*No more than 6 credits of BIO 4950 and no more than 5 credits in BIO 4900, 4930, 4940 or 4979 may be applied to a B.A. degree in biology.

### Requirements for the Biology Minor

(34-38 credits; 15 upper division)

Note: Some of the courses in elective categories have prerequisites in chemistry.

### Required courses

BIO 2101, BIO 2102 and BIO 2103 General Biology ..... 15  
BIO 4615 Issues and Values in Biology ..... 3

A minimum of 8 credits each from two of the following four categories:

#### Molecular and Cellular Biology

BIO 3325 Genetics (5)  
BIO 3350 Immunology (3)  
BIO 3351 General Microbiology (5)  
BIO 4352 Cell Biology (5)  
BIO 4325 Molecular Biology (5)

#### Anatomy and Physiology

BIO 2129 Human Anatomy and Physiology (5)  
BIO 2130 Human Anatomy and Physiology (5)  
BIO 4413 Animal Physiology (5)  
BIO 4415 Plant Physiology (5)  
BIO 4418 Neurobiology (5)  
BIO 4420 Histology and Microscopic Technology (5)  
BIO 4256 Environmental Physiology (5)

#### Organismal Biology

BIO 3432 Biodiversity: Vertebrate Biology (5)  
BIO 3434 Animal Behavior (5)  
BIO 3453 Biodiversity: Plant Identification and Taxonomy (5)  
BIO 3456 Biodiversity: Protista (5)  
BIO 4117 Birds of the Pacific Northwest (3)  
BIO 4435 Biodiversity: Parasites and Pests (5)  
BIO 4735 Marine Biology (5)  
BIO 4740 Marine Invertebrate Zoology (5)  
BIO 4744 Marine Botany (5)

#### Ecology and Evolution

BIO 3310 Ecology (5)  
BIO 4330 Evolutionary Mechanisms (3)  
BIO 4815 Aquatic Ecology (5)  
BIO 4820 Ecomorphology (5)

BIO 4825 Forest Ecology (5)  
BIO 4950 Special Studies in Biology (3)  
BIO 4981 Marine Ecology (5) ..... 120  
**Total** ..... **34-38**

### BIOLOGY Courses

**BIO 1100 BIOLOGICAL SCIENCE (5)** Intended for non-biology majors. Emphasis varies quarterly: human nutrition, human biology, environmental biology, biological diversity or marine biology. Basic concepts include the chemistry of living things, their structure and function, and their interactions with the environment. Applications to current issues are considered from a Christian perspective. No credit will be given for students who have taken BIO 2101, 2102, 2103, 2129, 2130 or who have advanced placement biology credit. Also offered at Blakely Island Field Station and as a study tour. Attributes: Biological Sciences and Natural Science A.

**BIO 2101 GENERAL BIOLOGY (5)** Prerequisites: One year of high school chemistry, CHM 1100 or equivalent. Intended for students majoring in biology. Surveys scientific method, chemistry of living organisms, organization of cells, and foundations of genetics and molecular biology. Includes laboratory. Attributes: Biological Sciences and Natural Science A.

**BIO 2102 GENERAL BIOLOGY (5)** Prerequisite: BIO 2101 or permission of instructor. Intended for students majoring in biology. Surveys animal classification, structure, function, development and behavior. Includes laboratory. Attributes: Biological Sciences and Natural Science A.

**BIO 2103 GENERAL BIOLOGY (5)** Prerequisite: BIO 2101 or permission of instructor. Intended for students majoring in biology. Surveys the non-animal kingdoms. Also covers plant structure and function, evolutionary mechanisms and ecology. Includes laboratory. Attributes: Biological Sciences and Natural Science A.

**BIO 2129 HUMAN ANATOMY AND PHYSIOLOGY (5)** Studies the structure and function of the human organism. Includes cells and membranes, skeletal, integumentary, muscular and nervous systems. Includes laboratory. Attributes: Biological Sciences and Natural Science A.

**BIO 2130 HUMAN ANATOMY AND PHYSIOLOGY (5)** Studies the structure and function of the human organism. Emphasizes the circulatory, immune, respiratory, digestive, endocrine, renal and reproductive systems. Includes laboratory. Attributes: Biological Sciences and Natural Science A.

**BIO 3310 ECOLOGY (5)** Prerequisites: BIO 2103 and MAT 1360 or HSC 4044. Explores the factors and mechanisms responsible for population dynamics, community structure and the function of ecosystems. Includes laboratory. Attributes: Upper Division and Writing Course.

**BIO 3320 PRINCIPLES OF DEVELOPMENT (5)** Prerequisites: BIO 2102 or equivalent, and MAT 1360 or HSC 4044. Surveys principles of developmental biology in vertebrates and representative invertebrate models. Required laboratory is devoted to experimental and descriptive approaches to the study of development. Attribute: Upper Division.

**BIO 3325 GENETICS (5)** Prerequisites: BIO 2101, and MAT 1360 or HSC 4044. Introduces inheritance of specific traits through the study of transmission genetics. Focuses on the biology of genes and chromosomes, including DNA replication, transcription and translation. Biotechnology and its applications are also presented. Biological statistics are emphasized throughout the course. Includes laboratory. Attributes: Upper Division and Writing Course.

**BIO 3350 IMMUNOLOGY (3)** Prerequisites: BIO 2101 or 2130. Surveys specific and non-specific immune responses, the body's response to infection by viruses, bacteria and other foreign material, and current topics in immunological research. No laboratory. Offered alternate years. Attribute: Upper Division.

**BIO 3351 GENERAL MICROBIOLOGY (5)** Prerequisite: BIO 2101 or 2130. Explores the nature of microorganisms and their activities, the relationship of microbes to other living organisms, the biology of viruses, immunity and topics in microbiological research. Required laboratory focuses on culturing microbes and sterile technique. Attribute: Upper Division.

**BIO 3432 BIODIVERSITY: VERTEBRATE BIOLOGY (5)** Prerequisites: BIO 2102, 2103. Examines vertebrate life in an evolutionary context through the study of adaptations, comparative anatomy, paleontology and natural history. Includes laboratory. Offered alternate years. Attribute: Upper Division.

**BIO 3434 ANIMAL BEHAVIOR (5)** Prerequisites: BIO 2102, 2103. Examines the mechanisms and evolution of behavior in the major animal groups, exploring the application of scientific thinking and methodology to the study of animal behavior. Includes laboratory/discussion. Offered alternate years. Attributes: Upper Division and Writing Course.

**BIO 3453 BIODIVERSITY: PLANT IDENTIFICATION AND TAXONOMY (5)** Prerequisite: BIO 2103. Explores sampling, identification and systematics of the major plant families with special emphasis on the flora of the Pacific Northwest. Includes laboratory/field studies. Offered alternate years. Attribute: Upper Division.

**BIO 3456 MYCOLOGY (3)** Prerequisite: BIO 2103. Considers the members of the kingdom fungi and some pseudofungal organisms. We will consider the taxonomy, identification, morphology, ultrastructure, ecology, environmental importance and commercial value of fungi. Blakely Campus. Attribute: Upper Division.

**BIO 4256 ENVIRONMENTAL PHYSIOLOGY (5)** Prerequisites: BIO 2102 and CHM 2372. Studies organisms in relation to the physical factors of the environment. Examines physiological and biochemical aspects of adaptation. Includes laboratory. Offered alternate years. Attributes: Upper Division and Writing Course.

**BIO 4325 MOLECULAR BIOLOGY (5)** Registration Approval: Instructor. Prerequisites: BIO 2101, 3325. Explores gene regulation and expression in several organisms including bacteria, viruses, yeast, plants and animals. Principles of molecular genetics and genetic engineering, including gene mapping, DNA isolation and amplification, gene cloning, gel electrophoresis, PCR and sequencing. Advanced topics in molecular biological research will be presented. Includes laboratory. Offered alternate years. Attribute: Upper Division.

**BIO 4330 EVOLUTIONARY MECHANISMS (3)** Prerequisites: BIO 3310, 3325. Explores population genetics as a mechanism of evolutionary change, emphasizing mutation, recombination and selection. Considers speciation, quantitative genetics, neutral theory, phylogenetic systematics, history and extinction. Includes discussion of microevolutionary and macroevolutionary changes. Attribute: Upper Division. Class not open to non-matriculated students.

**BIO 4352 CELL BIOLOGY (5)** Prerequisites: BIO 3325 and CHM 2371. Examines structure and functions of bacteria, plants and animals emphasizing cellular specialization, organelle models and chemical dynamics. Includes laboratory. Course Equivalent: EGR 4352. Attributes: Upper Division and Writing Course.

**BIO 4360 STATISTICAL INFERENCE IN BIOLOGICAL RESEARCH (5)** Prerequisites: MAT 1360 and BIO 2103. Explores the nature and use of measurement and evaluation and standardized testing. Develops concepts and skills in the development, selection, administration and interpretation of statistical tests. Specific topics covered may include analysis of variance and covariance; chi square tests; nonparametric procedure multiple and curvilinear regression; experimental design power of tests; and use of computer programs in standard statistical problems. Attribute: Upper Division.

**BIO 4361 BIOCHEMISTRY (5)** Prerequisite: CHM 2373. (CHM 3226 and CHM 3403 are recommended.) Studies chemical properties of biological compounds: carbohydrates, lipids, amino acids, and proteins and nucleic acids. Metabolism: biochemical energetics, enzymes, electron transport and oxidative phosphorylation. Integration of metabolism: biochemical genetics, metabolic regulation. Includes laboratory. Course Equivalent: CHM 4361. Attribute: Upper Division.

**BIO 4362 BIOCHEMISTRY (5)** Prerequisite: BIO 4361. Continuation of BIO 4361. Studies chemical properties of biological compounds: carbohydrates, lipids, amino acids, proteins and nucleic acids. Metabolism: biochemical energetics, enzymes, electron transport and oxidative phosphorylation. Integration of metabolism: biochemical genetics, metabolic regulation. Includes laboratory. Course Equivalent: CHM 4362. Attribute: Upper Division.

**BIO 4363 BIOCHEMISTRY (3)** Prerequisite: BIO 4362 or permission of instructor. Explores selected topics including: immunoglobulins and the immune system; bacterial cell walls; membrane transport; hormone action; control of expression; genetic code; muscle contraction; cell physiology; drug action; protein folding; HIV mechanisms; and mechanisms of infectious disease. Seminar format with leading researchers presenting current work. No laboratory. Course Equivalent: CHM 4363. Attribute: Upper Division.

**BIO 4413 ANIMAL PHYSIOLOGY (5)** Prerequisites: BIO 2102 and CHM 2372. Investigates physiology of higher animals, emphasizing endocrine and neuro-coordinating systems, cardiovascular, muscular, renal and reproductive physiology of higher vertebrate organisms. Includes laboratory. Offered alternate years. Attribute: Upper Division.

**BIO 4415 PLANT PHYSIOLOGY (5)** Prerequisite: BIO 2103. Considers photosynthesis, material transport, seed germination, growth and development, flowering and fruiting, and hormones of plants. The relationship of structure and function will be emphasized. Includes laboratory. Corequisite: CHM 2371. Attribute: Upper Division.

**BIO 4418 NEUROBIOLOGY (5)** Prerequisites: BIO 2102 or 2129 and CHM 2372. An introduction to the neurosciences, focusing on fundamental concepts and comparative aspects of nervous system structure and function. Laboratory makes extensive use of invertebrate models to examine the cellular basis of behavior, including neuronal morphology, electrophysiology and transmitter chemistry. Includes laboratory. Offered alternate years. Attribute: Upper Division.

**BIO 4420 HISTOLOGY AND MICROSCOPIC TECHNOLOGY (5)** Prerequisites: BIO 2102, CHM 2372. Examines microscopic anatomy of cells, tissues and organ/systems, examining their structure and the morphological evidences of their function. Emphasizes human histology. Includes laboratory. Offered alternate years. Attribute: Upper Division.

**BIO 4435 BIODIVERSITY: PARASITES AND PESTS (5)** Prerequisite: BIO 2102. Explores the biology and classification of medically and economically important organisms, with emphasis on protozoa, parasitic worms, insects and mites. Provides a survey of parasitic disease, vector biology and animal pests of livestock and crops. Includes laboratory. Offered alternate years. Attribute: Upper Division.

**BIO 4615 ISSUES AND VALUES IN BIOLOGY (3)** Examines ethical aspects of current issues in biology that help shape a Christian worldview and value system. Offered alternate years. Attributes: Upper Division and Writing Course. Class not open to freshmen and sophomores.

**BIO 4930 BIOLOGY PRACTICUM (1-5)** Registration Approval: Instructor. Provides opportunity for applied biology. Selected students are assigned teaching, grading, lab preparation and/or tutoring responsibilities. May be repeated for credit up to 5 credits. Attribute: Upper Division.

**BIO 4940 INTERNSHIP IN BIOLOGY (1-5)** Registration Approval: Intern Learning Contract Req. Provides a significant learning experience under faculty supervision in a work-study environment either on or off campus. May be repeated for credit up to 5 credits. Attribute: Upper Division.

**BIO 4950 SPECIAL STUDIES IN BIOLOGY (1-5)** Registration Approval: Travel Studies Form. Provides selected field study topics offered at Biology Department's discretion: Hawaiian marine biology; Caribbean marine biology; Sonoran desert biology; alpine flora. May be repeated for credit up to 6 credits. Attribute: Upper Division.

**BIO 4978 BIOLOGICAL RESEARCH PROPOSAL (1-5)** Registration Approval: Instructor. The student will prepare a proposal including a literature review and methods description for a biological research project. Attribute: Upper Division.

**BIO 4979 BIOLOGICAL RESEARCH (1-5)** Registration Approval: Instructor. Prerequisite: BIO 4978. The student will conduct research based on a proposal prepared prior to registering for this course. Results of the research will be presented at undergraduate or professional symposia. May be repeated for credit up to 4 credits. Attribute: Upper Division.

## Faculty

**Cindy R. Bishop**, *Assistant Professor of Biology*; B.S., Seattle Pacific University, 1980; D.V.M. Washington State University, 1984. At SPU since 2000.

**Bruce D. Congdon**, *Professor of Biology; Director of Blakely Program*; B.S., College of the Ozarks, 1979; M.S., Colorado State University, 1981; Ph.D., University of California, Riverside, 1985. At SPU since 1985.

**Cynthia Fitch**, *Associate Professor of Biology*, B.S., McMurry College, 1985; Ph.D., Iowa State University, 1990; Post-doctoral Fellow Howard Hughes Medical Institute, University of Washington, 1990-93; Research Scientist, University of Washington Medical School, 1993-94. At SPU since 1994.

**A. Kenneth Moore**, *Professor of Biology, Coordinator, Pre-Professional Health Sciences Program*; B.A., Evangel College, 1960; M.A., University of Missouri, 1963; Ph.D., University of New Mexico, 1975. At SPU since 1975.

**Timothy Nelson**, *Associate Professor of Biology*, B.S., Seattle Pacific University, 1987; Ph.D., University of Washington, 1995. At SPU since 1991.

**Richard L. Ridgway**, *Associate Professor of Biology, Chair of Biology*, B.S., Seattle Pacific University, 1977; M.S., Washington State University, 1983; Ph.D., 1988. Post-Doctoral Fellow, Alberta Heritage Foundation for Medical Research, University of Calgary, Canada, 1988-91. Post-Doctoral Fellow, Canadian Centres of Excellence in Neural Regeneration and Functional Recovery, 1990-91. At SPU 1978-80 and since 1991.

## Biotechnology

Miller Science Learning Center (MSLC)  
Voice Mail: (206) 281-2002

**Rick Ridgway**, *Director*, **Cynthia Fitch**

One of the pillars of entrepreneurial growth in science is biotechnology. It has been identified as one of the most important applied sciences of the 21st century. This emergent discipline embraces the disciplines of biochemistry, molecular biology, genetics, cell biology and computer science/mathematical modeling. It has been argued that this will lead to a new discipline where technology and biology are driving each other. A dramatic example of this is the Human Genome Project, genetic manipulation for medical therapy. This knowledge can eventually lead to extended and expansive practice of what is termed preventative medicine (i.e., identification of genes predisposing to disease and the use of therapies to avoid or lessen disease).

The Seattle area is one of the leaders in biotechnology, with nearly 100 biotechnology firms in operation. This industry exerts a major economic force and provides a rapidly growing employment opportunity for research and administrative positions. The influence of this biotechnology industry is felt in educational institutions, including science education enhancement in the K-12 classrooms, as well as for college and university students who find many opportunities for undergraduate research projects.

To maximize benefits for students at SPU, a biotechnology program is being designed. The program uses existing courses in biology and chemistry but with some special emphases. The initial phase of this program was introduced in 1997-1998. One of the ways to enable students in this professional quest is to have them develop a portfolio. The portfolio will include the following: (1) Evaluation forms that reflect development of both theory content and laboratory skills (done with the use of a pre-

test/post-test instrument to see if the curriculum leads to desired skills); (2) an assessment of the practicals done in lab (each designated student will have a report filed during each course); (3) a student-volunteer teaching report (each student will do volunteer work in a K-12 classroom over a period of one or two terms); and (4) internship evaluation at a local biotechnology firm (each student will engage in a one- or two-term working internship at a local research lab. This work may be extended to a senior thesis project). This portfolio then becomes an asset that students can carry forward to their professional activities.

## Course Requirements

The biotechnology program is framed within existing majors in biology, biochemistry and chemistry. The core courses for the program are as follows:

BIO 3325 Genetics (5)  
BIO 4325 Molecular Biology (5)  
BIO 4352 Cell Biology (5)  
CHM (BIO) 4361, 4362 Biochemistry (5 each)  
CHM/BIO 4363 (3)

## Recommended Courses

CHM 3226 Quantitative and Instrumental Analysis (5)  
BIO 3350 Immunology (3)

The internship component of the program is satisfied by the following:

CHM 4940 Internship in Chemistry (1-5)  
BIO 4940 Internship in Biology (1-5)

## Blakely Island Field Station

Blakely Island, Washington  
(206) 281-2899  
[www.spu.edu/depts/biology/blakely](http://www.spu.edu/depts/biology/blakely)

**Bruce Congdon**, *Director*

In 1977, the University was given 900 acres of land and granted an open space conservation easement on another 3,000 acres on Blakely Island, in the San Juan archipelago of northwestern Washington. The Blakely Island Field Station serves as the teaching site for upper-division biology courses in marine, aquatic and terrestrial ecology, as well as in natural history, introductory biology and astronomy for non-science majors. Research conducted by faculty and students has included baseline surveys of major island habitats, and the ecology of lakes, marine bays and eelgrass beds. The field station campus is located near Spencer Lake, one of the island's two freshwater lakes.

Although only a few miles from the mainland, the island is isolated and home to only a few year-round residents. Facilities include a dining hall-library-classroom building that accommodates 24 students and staff, a residence hall with 10 double-occupancy rooms and a dive shop. The island is surrounded by lush kelp forests, eelgrass meadows and spectacular rock walls. These subtidal and intertidal habitats support a diversity of seaweeds, invertebrates, fish and marine mammals. In the

island interior, the lakes provide habitat for river otters, herons, kingfishers, bald eagles and ospreys, as well as a diverse invertebrate fauna. The terrain is rugged, rising sharply from sea level to more than 1,000 feet, and it supports several distinctive forest types. For more information, contact the field station director.

### Blakely Island Courses

**BIO 4117 BIRDS OF THE PACIFIC NORTHWEST (3)** Prerequisite: BIO 2102. Study of birds of the San Juan Islands and surrounding waters. Class activities include field observations, lectures, library research and laboratory study. Offered alternate years at the Blakely campus. Extra fee. Attribute: Upper Division.

**BIO 4735 MARINE BIOLOGY (5)** Prerequisites: BIO 2102, 2103. Study of the marine environment and the identification, unique features and natural history of the organisms inhabiting it. Extra fee. Attribute: Upper Division.

**BIO 4740 MARINE INVERTEBRATE ZOOLOGY (5)** Prerequisite: BIO 2102. Provides a field and laboratory course emphasizing identification, life histories, habitats and interrelationships of marine invertebrates from Puget Sound. Includes laboratory. Offered in summer at Blakely Island. Extra fee. Attribute: Upper Division.

**BIO 4744 MARINE BOTANY (5)** Prerequisite: BIO 2103. Provides a field and laboratory course emphasizing identification, life histories, habitats and interrelationships of marine plants with emphasis on local flora and Blakely Island. Includes laboratory. Normally taught in summer at Blakely Island. Extra fee. Attribute: Upper Division.

**BIO 4815 AQUATIC ECOLOGY (5)** Prerequisite: BIO 2102. Introduces students to the biology of freshwater organisms. The physical, chemical and biological characteristics of flowing and standing-water habitats will be studied. The field and laboratory work will focus on lakes, streams and marshes found on Blakely Island. Extra fee. Attribute: Upper Division. Class open to non-matriculated and undergraduate levels.

**BIO 4820 ECOMORPHOLOGY (5)** Prerequisite: BIO 2102. A field course providing an introduction to the study of ecological morphology. Relationships between the environment and the structure, functional design and behavior of organisms are examined through a combination of lectures, laboratory work and field observations at Crowley Laboratory on Blakely Island. Attribute: Upper Division.

**BIO 4825 FOREST ECOLOGY (5)** Prerequisite: BIO 2103. Examines the organisms that comprise the forest ecosystem and their interaction with the physical environment. Emphasis will be placed on field study of forest community composition, and the forest as a biologically modified habitat. Attribute: Upper Division.

**BIO 4830 ECOLOGICAL RESTORATION WORKSHOP (2)** A workshop providing practical experience in restoring damaged forest or wetland sites on Blakely Island, combined with readings and discussions of technical, social and spiritual issues related to the emerging interdisciplinary area of ecological restoration. Attribute: Upper Division.

**BIO 4980 BLAKELY FIELD STUDIES (1-5)** Provides a field learning experience focusing on a single aspect of the Blakely Island environment, such as fresh water, marine or terrestrial habitats. May be repeated for credit up to 5 credits. Attribute: Upper Division.

**BIO 4981 MARINE ECOLOGY (1-5)** Prerequisites: BIO 2102, 2103. Considers recent advances in marine ecology. Symbioses, predation, herbivory and interactions with the physical environment will be emphasized. Laboratory and fieldwork will include the application of ecological techniques to a specific problem and will include the writing of reports describing the results. Offered during the Summer Quarter at Blakely Island. Extra fee. Attribute: Upper Division. Class open to non-matriculated and undergraduate levels.

## Business and Economics, School of

David L. McKenna Hall  
(206) 281-2970  
www.spu.edu/depts/sbe

**Jeffrey Van Duzer, Dean, Jonathan Deming, Denise Daniels, Douglas Downing, Al Erisman, Randal Franz, Loren Gustafson, Dan Hess, Gary Karns, Herbert Kierulff, Kenneth Knight, Joanna Poznanska, James Rand, Regina Schlee, Richard Sleight, Gerhard Steinke, Ian Stewart, Ross Stewart, Lisa Surdyk, Kenman Wong**

*"We prepare students for service and leadership in business and society by developing their professional competence and integrity in the context of Christian faith and values. We are a learning community that prizes educational excellence and effective teaching, supported by scholarship and service."*

School of Business and Economics Mission Statement

### SBE Distinctives

While the programs of the School of Business and Economic (SBE) are appropriately similar to those offered by other universities in the coverage of the basic business knowledge and skills, at Seattle Pacific University, they reflect three mission-driven distinctives:

1. Christian faith, ethics and character
2. Applied learning
3. Collaborative learning community

First, SBE seeks to provide a business education that is permeated by the influence of historic Christian faith, ethics and character. The University is committed to an expression of Christian faith that is both evangelical and ecumenical. Graduates should gain a basic grasp of the Christian faith and understand how it applies to business situations. We are committed to the promotion of integrity and strong character in the marketplace.

Second, SBE seeks to be a superior provider of applied learning. Several factors contribute to this distinctive including small class sizes, location and connection with the Seattle business community. All courses are taught by faculty; no teaching assistants are utilized in the classroom. The curriculum stresses both active, applied learning activities (e.g., problems, cases, simulations, role playing, field-based projects), as well as extensive interaction with business executives (e.g., required internships for business administration majors, mentors, service learning opportunities and guest speakers).

Third, SBE is committed to a collaborative learning community. Collaborative activities promote active learning, bridging the gulf between students and teachers, creating a sense of a learning community and ensuring that knowledge is created, not just presented.

In light of SBE's mission and distinctives, each graduate should be able to do the following:

1. Analyze business situations through the lens of Christian faith and ethics.

2. Work effectively in teams.
3. Facilitate the completion of group projects.
4. Communicate effectively orally (including presentations) and in writing.
5. Use quantitative analysis to aid decision making.
6. Utilize information technology.
7. Apply critical-thinking skills to business problems.
8. Self-assess personal abilities, strengths and weaknesses.

In addition, business administration graduates should be able to do the following:

1. Apply the principles of servant leadership developed through interacting with role models and provide service and leadership to business, professional, community and church organizations.
2. Apply in-depth knowledge in one of the following areas: management, marketing, finance, economics, international business, e-commerce or information systems.

Accounting graduates should also be able to do the following:

1. Apply the principles of servant-leadership developed through interacting with role models and provide service and leadership to business, professional, community and church organizations.
2. Apply knowledge of accounting history, concepts, reporting, regulations, professional responsibility, financial analysis and ethics to real-world business situations.
3. Have in-depth knowledge in specialized accounting areas – financial, managerial, taxation, information systems, auditing and/or international.

### Admission to Majors in the School of Business and Economics

Majors offered by the School of Business and Economics are accounting, business administration and economics. The business administration major offers concentrations in the following areas: (1) e-commerce; (2) economics; (3) finance; (4) information systems; (5) international business; (6) management; and (7) marketing.

Students who are interested in a business major are encouraged to indicate their interest upon arrival at SPU. This indication is made with the Office of Admissions. It does not commit the student to a major within the school, but assures that an advisor from within the school will be assigned and information about the school and its various activities will be received.

For matriculated students, formal application and admission to a major is required prior to enrollment in certain upper-division business or economics courses. Admission is selective and based upon prior academic performance. Admission applications should be submitted to the School of Business and Economics when all admission requirements are satisfied. If you have been admitted to another SPU major, or are a new junior or senior transfer student, contact the SBE office for permission to enroll in upper-division courses. All course

prerequisites must be completed before a student may enroll in an SBE course. To be awarded a degree from the School of Business and Economics, students must meet the major and any concentration requirements in effect at the time declaration of a major was made. They must have a minimum of 45 credit hours in the major at SPU.

### Admission Requirements for Majors in Accounting, Business Administration and Economics

Consistent with its mission, the School of Business and Economics admits students to its majors on the basis of academic achievement, personal character, leadership potential and record of service. To meet the minimum requirements for admission to a major, the student must have attained at least sophomore standing; completed at least 15 credits (10 credits for junior transfer students) in School of Business and Economics courses (ACCT, BUS, ECN); have demonstrated computer competency by passing BUS 1700, or by passing a competency exam covering the equivalent; and have achieved a minimum of 2.70 cumulative GPA from all institutions and a minimum of 2.70 cumulative GPA in all SBE courses. Attainment of the minimum GPA standards does not guarantee admission to a major as the total number of admissions may be limited by capacity. Application forms may be obtained in McKenna Hall or students may use the online application on the SBE home page at [www.spu.edu/depts/sbe](http://www.spu.edu/depts/sbe).

### Admission Requirements for Minors in Business Administration and Economics

To be accepted to a minor in the School of Business and Economics, the student must have attained at least sophomore standing and have achieved a minimum 2.70 cumulative GPA from all institutions. Application forms may be obtained in McKenna Hall or students may use the online application on the SBE home page at [www.spu.edu/depts/sbe](http://www.spu.edu/depts/sbe).

### Scholarship Program

The School of Business and Economics has, through the generous donations of corporations and individuals, several separate scholarships for School of Business and Economics majors. All students interested in these business scholarships should contact the School of Business and Economics. The application deadline for these scholarships is March 1.

### Internships

Internships give students an opportunity to gain practical work experience and to apply their academic background in a professional business environment. (See BUS/ECN 4940.)

### Interdisciplinary Program B.A. Program in Computer Science (Business Emphasis)

Students planning to major in computer science for the B.A. degree with a business application emphasis should see the Requirements for the Major in the Computer Science section of this *Catalog*.

*"Business professionals must evaluate the ethical and social impact of changes due to information technology. Our goal, therefore, is to give students a solid academic as well as spiritual foundation with which they can engage the culture and make a difference through their service and leadership."*

**Gerhard Steinke**  
Information Systems  
Management





**Master's Programs in the School of Business and Economics**

See the *SPU Graduate Catalog* for details about the M.B.A. and M.S. in information systems management degree programs, or call (206) 281-2753 to request information.

**Accounting**

Ross E. Stewart, *Contact Person*

Graduates with majors in accounting have careers in private industry, not-for-profit organizations and in public accounting. The program balances sound theoretical foundations with relevant applications. This provides the necessary current knowledge for the student to launch a career, and it also prepares the student to respond to the changing future environment and needs for accounting information. Students who successfully complete the program will be eligible to take both the certified public accountant (CPA) and the certified management accountant (CMA) examinations.

**Requirements for the Major**

(104 credits)

(Refer to page 64 for a summary of degree requirements.)

Students desiring to major in accounting must follow the application process described above. To be awarded a degree with a major in accounting, students must meet the major requirements in effect at the time declaration of a major was made and have a minimum of 45 credit hours in the major at SPU. Students who plan to obtain any of the professional designations such as certified public accountant (CPA), certified management accountant (CMA) or certified internal auditor (CIA) should contact an accounting faculty member for advising. Students who plan to take the CPA exam must have completed 225 quarter hours (equivalent to five years) of college coursework. Students may meet this requirement by earning a second bachelor's degree, or by taking 45 additional undergraduate credits (which may be in any discipline and do not necessarily lead to a degree). However, CPA-bound students are encouraged to apply for admission to a graduate program in the School of Business and Economics, either the master of business administration (M.B.A.) or the master of science in information systems management (I.S.M.). Students interested in this program should do the following:

1. Participate in a cooperative education program with an accounting firm for at least one year.
2. Take the GMAT exam (for the M.B.A.) or the GRE exam (for the I.S.M.) in Autumn Quarter of their senior year.
3. Apply for admission to the graduate program in the Winter Quarter of their senior year.
4. Commence taking three graduate courses per quarter in the summer following completion of their senior year, and thereafter for four more quarters (five quarters in total).

**General Core**

Demonstration of computer competency is required. This is documented by passing BUS 1700, or by passing a competency exam covering the equivalent.

**Core requirements to be completed by first quarter sophomore year:**

ECN 2101 Principles of Microeconomics .....	5
ECN 2102 Principles of Macroeconomics .....	5
BUS 2414 Legal Environment of Business .....	5

**Core requirements to be completed during the sophomore year:**

ACCT 2361 Financial Accounting .....	5
ACCT 2362 Managerial Accounting .....	5
BUS 3250 Business Finance .....	5
BUS 2600 Managerial Communication .....	2
BUS 2700 Statistics For Business and Economics .....	5

**These six courses are recommended to be completed in the junior and senior years in this order:**

BUS 3400 Business Ethics .....	5
BUS 3614 Organizational Behavior .....	5
BUS 3541 Marketing and Society .....	5
BUS 3700 Quantitative Methods for Decision Making or BUS 3710 Optimization and Statistics .....	3
BUS 4644 Operations Management .....	5
BUS 4690 Strategic Management .....	5

**These requirements should be completed during the junior or senior year:**

BUS 3620 Management Information Systems .....	5
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**Accounting Core Courses**

ACCT 3327 Cost Accounting .....	5
ACCT 3351 Intermediate Accounting I .....	5
ACCT 3352 Intermediate Accounting II .....	5
ACCT 3353 Intermediate Accounting III .....	5
ACCT 4362 Accounting Theory and Problems .....	5
ACCT 3324 Federal Income Taxation .....	3
ACCT 3328 Auditing .....	3
ACCT 4351 International Accounting .....	3
<b>Total .....</b>	<b>104</b>

**Accounting Courses**

**Business and Economics**

**ACCT 2361 FINANCIAL ACCOUNTING (5)** Makes clear the ways in which accounting is an information development and communication function that supports economic decision making, and prepares students for subsequent learning. Not recommended for first-quarter freshmen.

**ACCT 2362 MANAGERIAL ACCOUNTING (5)** Registration Approval: SBE Coordinator. Prerequisites: ACCT 2361, BUS 1700 or competency exam. Develops basic concepts and skills for preparing accounting information for managerial decision-making purposes. Computer spreadsheet skills are required.

**ACCT 3324 FEDERAL INCOME TAXATION (3)** Registration Approval: SBE Coordinator. Prerequisite: ACCT 2361. Provides an introduction to the income-tax structure and basic concepts of tax law relating to individual, corporate, partnership and estate-income taxation. Attribute: Upper Division. Class not open to freshmen.

**ACCT 3325 FEDERAL INCOME TAX II (5)** Registration Approval: SBE Coordinator. This is a continuation of ACCT 3324. Attribute: Upper Division. Class not open to freshmen.

**ACCT 3327 COST ACCOUNTING (5)** Registration Approval: SBE Coordinator. Prerequisite: ACCT 2362. Introduces basic principles of cost accounting as applied to materials, labor and manufacturing overhead. Attribute: Upper Division. Class not open to freshmen.

**ACCT 3328 AUDITING (3)** Registration Approval: SBE Coordinator. Prerequisite: ACCT 3352. Teaches auditing theory and concepts to gather and evaluate evidence supporting an entity's financial statements. Attribute: Upper Division. Class not open to freshmen and sophomores.

**ACCT 3351 INTERMEDIATE ACCOUNTING I (5)** Registration Approval: SBE Coordinator. Prerequisite: ACCT 2362. Studies the concepts and principles of accounting related to recognition, valuation and classification of economic events. Includes issues related to the measurement of income. Attribute: Upper Division. Class open to accounting, business administration, computer science, economics, family and consumer sciences, food and nutritional sciences and textiles, clothing and interiors majors. Class not open to freshmen.

**ACCT 3352 INTERMEDIATE ACCOUNTING II (5)** Registration Approval: SBE Coordinator. Prerequisite: ACCT 3351. Continuation of 3351. Attribute: Upper Division. Class open to accounting, business administration, computer science, economics, family and consumer sciences, food and nutritional sciences and textiles, clothing and interiors majors. Class not open to freshmen.

**ACCT 3353 INTERMEDIATE ACCOUNTING III (5)** Registration Approval: SBE Coordinator. Prerequisite: ACCT 3352. Continuation of 3352. Attribute: Upper Division. Class open to accounting, business administration, computer science, economics, family and consumer sciences, food and nutritional sciences and textiles, clothing and interiors majors. Class not open to freshmen.

**ACCT 4351 INTERNATIONAL ACCOUNTING (3)** Registration Approval: SBE Coordinator. Prerequisite: ACCT 3353. Considers and analyzes financial accounting concepts relating to consolidated financial statements, translation of foreign financial statements and accounting for foreign transactions, international financial reporting and accounting for special entities. Recommended for CPA examination preparation. Attribute: Upper Division. Class not open to freshmen and sophomores.

**ACCT 4362 ACCOUNTING THEORY AND PROBLEMS (5)** Registration Approval: SBE Coordinator. Prerequisite: ACCT 3353. Critically examines problem areas of current interest in financial accounting. Emphasizes investigating the "whys" behind today's generally accepted accounting principles and explores alternative approaches to the study and development of accounting theory. Several problems or contentious theoretical issues facing the accounting profession are examined in depth with the objective of having the student form a well-reasoned position on the matter. Attributes: Upper Division and Writing Course. Class not open to freshmen and sophomores.

**ACCT 4900 INDEPENDENT STUDY - ACCOUNTING (1-5)** Registration Approval: Independent Study Agreement. The student proposes a topic of current interest in business to a professor in the School of Business and Economics. The student meets with the professor to discuss a bibliography and rough drafts before turning in the final draft of a paper. In general, the number of pages of written work must be six times the number of credits, or there must be equivalent work in exams or other requirements. May be repeated for credit up to 5 credits. Attribute: Upper Division.

**ACCT 4940 INTERNSHIP (1-5)** Registration Approval: Intern Learning Contract Req. Provides field-experience opportunities for students to relate and apply principles of business, faith, service and leadership to a professional business setting. Course consists of (1) an internship in a professional business setting (minimum of 10 hours/week) and (2) an on-campus seminar. Internship placement must be arranged the quarter prior to registration. Additional information may be obtained from the Career Development Center or internship coordinator for the School of Business and Economics. May be repeated for credit up to 10 credits. Course Equivalent: BUS 4940. Attribute: Upper Division. Class not open to freshmen and sophomores.

**Business Administration**

Douglas A. Downing, *Contact Person*

The business administration major provides a broad-based education in the fundamental theories, principles and practices of modern business. The program develops a general

management outlook toward organizations and the changing environment they face. It teaches standards of professional and ethical behavior along with the technical expertise and leadership attributes necessary to attain entry-level positions in business. Students who major in business administration are expected to master a core of courses in business and economics, as well as a concentration selected from one of the following areas: e-commerce, economics, finance, information systems, international business, management and marketing. Students in all concentrations will take the following common core of classes described below under General Core.

**Requirements for the Major**

(95 credits)

(Refer to page 64 for a summary of degree requirements.)

Students desiring to major in business administration must follow the application process described above. To be awarded a degree with a major in business administration, students must meet the general core requirements and complete at least one 15-credit concentration. A business administration major may complete two concentrations, but one of the concentrations should be completed during the junior year to avoid possible schedule conflicts. Major requirements are based on those in effect at the time declaration of the major was made. Also, a minimum of 45 credit hours in the major must be completed at SPU.

**General Core**

Demonstration of computer competency is required. This is documented by passing BUS 1700 or by passing a competency exam covering the equivalent.

**Core requirements to be completed by first quarter of sophomore year:**

ECN 2101 Principles of Microeconomics .....	5
ECN 2102 Principles of Macroeconomics .....	5
BUS 2414 Legal Environment of Business .....	5

**Core requirements to be completed during the sophomore year:**

ACCT 2361 Financial Accounting .....	5
ACCT 2362 Managerial Accounting .....	5
BUS 3250 Business Finance .....	5
BUS 2600 Managerial Communication .....	2
BUS 2700 Statistics for Business and Economics .....	5

**These six courses are recommended to be completed during the junior and senior years in the order below:**

BUS 3400 Business Ethics .....	5
BUS 3614 Organizational Behavior .....	5
BUS 3541 Marketing and Society .....	5
BUS 3700 Quantitative Methods for Decision Making or BUS 3710 Optimization and Statistics .....	3
BUS 4644 Operations Management .....	5
BUS 4690 Strategic Management .....	5

**These four requirements may be completed during the junior or senior year:**

BUS 3620 Management Information Systems .....	5
BUS 3828 International Business .....	5
BUS 4940 Internship .....	2

BUS xxxx An upper-division elective of the student's choice from ACCT, BUS, or ECN) .....	3
<b>Total general core .....</b>	<b>80</b>

In addition to the general core, students must take 15 credits in one of the following concentrations:

<b>E-Commerce Concentration</b>	
BUS3631 Entrepreneurship .....	5
BUS3625 E-Commerce and the Networked World .....	5
BUS4625 The Organization's Presence on the Net .....	5
<b>Economics Concentration</b>	
ECN 3101 Intermediate Macroeconomics .....	5
ECN 3102 Applied Economics .....	5
ECN 4641 History of Economic Thought .....	5
<b>Finance Concentration</b>	
BUS 3251 Investments .....	5
BUS 4274 Problems in Corporate Finance .....	5
BUS 4275 Practice of Finance .....	5
<b>Information Systems Concentration</b>	
CSC 1230 Problem Solving and Programming	
or CSC1130 Beginning Programming .....	5
BUS 4620 Computer Networks .....	5
BUS 4622 Information and Database Systems .....	5
<b>International Business Concentration</b>	
THEO 3610: Living in Another Culture,	
or THEO 3640: Cross-Cultural Communication .....	3
BUS 3830: International Business Seminar .....	3
Approved courses at a university outside the United States, arranged through the School of Business and Economics study abroad program .....	9
<b>Management Concentration</b>	
BUS 3631 Entrepreneurship .....	5
BUS 3657 Human Resource Management .....	5
BUS 4660 Managing Systems .....	5
<b>Marketing Concentration</b>	
BUS 3542 Marketing Research .....	5
BUS 4542 Consumer Behavior .....	5
BUS 4543 Marketing Management .....	5
<b>Total .....</b>	<b>95</b>

### International Business Concentration

Students interested in the international business concentration need to contact the SBE office at (206) 281-2970 for information about the SBE study abroad program. In addition, students completing the international business concentration need at least 15 credits of foreign language study beyond the minimum 15 credits required for graduation.

### Requirements for the Minor in Business Administration

The School of Business and Economics offers a business minor for students who want to complement their major with general business coursework. Formal declaration of a minor is required. Acceptance is based upon an application to the School of Business and Economics with a minimum cumulative grade point average of at least 2.70 in a minimum of 45 quarter credits of coursework. Application to the minor may also be made online at [www.spu.edu/depts/sbe](http://www.spu.edu/depts/sbe).

ECN 1100 or ECN 2101 or ECN 2102 .....	5
ACCT 2361 Financial Accounting .....	5
BUS 3400 Business Ethics .....	5
Choose two of these three:	
BUS 3250 Finance (5)	
BUS 3541 Marketing and Society (5)	
BUS 3614 Organizational Behavior (5) .....	10
Choose one other course from ACCT, BUS, or ECN .....	5
<b>Total .....</b>	<b>30</b>

### Business Courses

#### BUS 1100 INTRODUCTION TO FINANCIAL MANAGEMENT (3)

Registration Approval: Instructor. Studies the key areas of financial management in the firm. These include financial markets, internal and external sources of funds, working capital management, capital budgeting, valuation and financial forecasting. Class open to non-matriculated students.

**BUS 1700 SPREADSHEETS (1)** What is a spreadsheet? Creating, modifying, saving and printing spreadsheet documents. Entering and using formulas and calculations. Editing and importing data. Incorporating graphs. Formatting and enhancing the appearance of a spreadsheet document. Course Equivalent: CSC 1123.

**BUS 2414 LEGAL ENVIRONMENT OF BUSINESS (5)** Studies the relationship between law and business. Includes coverage of laws that impact the employer-employee relationship, product safety, advertising, contracts, business organizations and business crimes and torts.

**BUS 2600 MANAGERIAL COMMUNICATION (2)** Prepares students for communicating effectively in organizations. Topics include writing concisely and clearly; writing effective reports and business correspondence, including e-mail and memos, delivering oral presentations and mastering presentation software.

**BUS 2700 STATISTICS FOR BUSINESS AND ECONOMICS (5)** Registration Approval: SBE Coordinator. Prerequisite: Bus 1700 or competency exam. Explores descriptive statistics, probability, random variable distributions, estimation, hypothesis testing, regression and nonparametric statistics. Course Equivalent: MAT 2700. Attributes: Quantitative Reasoning and Mathematics.

**BUS 3250 BUSINESS FINANCE (5)** Registration Approval: SBE Coordinator. Prerequisite: ACCT 2361. Studies the principles of financial markets, internal and external sources of funds and their costs to the firm. Includes management of working capital, capital budgeting, valuation issues and financial planning. Attribute: Upper Division. Class not open to freshmen.

**BUS 3251 INVESTMENTS (5)** Registration Approval: SBE Coordinator. Prerequisite: BUS 3250. Studies the basic problems and issues concerning development and implementation of a personal investment program. Includes analysis of investment risks, types of investments, securities markets and portfolio theory. Also considers securities analysis and valuation techniques. Attribute: Upper Division. Class open to business and economics majors. Class not open to freshmen.

**BUS 3400 BUSINESS ETHICS (5)** Registration Approval: SBE Coordinator. Prerequisite: UFDN 2000 or equivalent. Explores various ethical theories and their application to the practice of business. Gives particular emphasis to Christian ethics and focuses on individual ethical decision making. Attribute: Upper Division. Class open to accounting, business administration, computer science, economics, family and consumer sciences, food and nutritional sciences, and textiles, clothing and interiors majors. Class not open to freshmen.

**BUS 3414 BUSINESS LAW (5)** Studies the uniform commercial code, sales, negotiable instruments, secured transactions, estates and trusts, security, bankruptcy and insurance. Intended primarily for accounting majors. Recommended for CPA examination preparation. Attribute: Upper Division. Class not open to freshmen.

**BUS 3439 MOTIVATION AND LEADERSHIP (5)** Registration Approval: SBE Coordinator. Prerequisite: BUS 3614 or PSY 1180. Presents the theories and principles of motivation and leadership with practical application in business, church, community and educational settings. Course Equivalent: PSY 3439. Attribute: Upper Division. Class not open to organizational behavior and psychology majors.

**BUS 3541 MARKETING AND SOCIETY (5)** Studies the principles of marketing, employs a systems approach to examine the impact of marketing on the quality of life. Considers both macro and micro dimensions of marketing. Attributes: Upper Division and Writing Course. Class not open to freshmen.

**BUS 3542 MARKETING RESEARCH (5)** Registration Approval: SBE Coordinator. Prerequisites: BUS 2700, 3541. Studies the marketing research process, including preliminary steps and research design, questionnaires, secondary and primary data, sampling, processing and interpreting data, evaluation and effective presentation of findings. Attribute: Upper Division. Class open to business and economics majors. Class not open to freshmen.

**BUS 3544 ADVERTISING (5)** Registration Approval: SBE Coordinator. Prerequisite: BUS 3541. Describes the theory and practice of advertising and its role in the firm and in the socio-economic system. Discusses techniques and the management of advertising and applies them to the practice of marketing. Attribute: Upper Division. Class not open to freshmen.

**BUS 3545 SALES AND SALES MANAGEMENT (5)** Registration Approval: SBE Coordinator. Prerequisites: BUS 3541, 3614. Sales planning and organization. Management of the sales force for productivity. Personal selling techniques. Attribute: Upper Division. Class open to business and economics majors. Class not open to freshmen.

**BUS 3548 INTERNATIONAL MARKETING (5)** This course examines the theory and application of international marketing from a global, rather than a U.S.-centered viewpoint. International management issues are examined both from the perspective of small and mid-sized businesses, as well as multinational firms. The course also focuses on ethical issues concerning the global diversity of customs and morals, environmental issues and the impact of trade. This course is offered online. Attribute: Upper Division. Class not open to freshmen and sophomores.

**BUS 3614 ORGANIZATIONAL BEHAVIOR FOR MANAGERS (5)** An introduction to theory, research and practice related to the management of human behavior in an organizational context. Course topics include individual characteristics, motivation, learning, communication, leadership, decision making, group dynamics, conflict, power and politics. The course involves significant group activities and requires multiple oral presentations. Attribute: Upper Division. Class open to accounting, business administration, computer science, economics, family and consumer sciences, food and nutritional sciences, and textiles, clothing and interiors majors. Class not open to freshmen.

**BUS 3620 MANAGEMENT INFORMATION SYSTEMS (5)** Studies the processes for collecting, verifying and processing information to assist management in making decisions to achieve the organization's goals. Software, hardware, networks and electronic data interchange will be examined, with computer systems viewed as one part of the complete information system. Attribute: Upper Division. Class not open to freshmen.

#### BUS 3625 E-COMMERCE AND THE NETWORKED WORLD (5)

Registration Approval: SBE Coordinator. Prerequisite: BUS 3620. This course provides a general introduction to the World Wide Web and the networked economy. This course will explore how information technologies are bringing dramatic changes to every area of economic and personal life. It will explore the opportunities and challenges that abound such as fluid organizational structures, increased globalization, disintermediation of existing industry structures, 24 hours a day/7 days a week services, networked communities, increased availability of information and formation of supplier-producer-customer partnerships, etc. A review of the information technologies that are shaping the e-world will be provided. Attribute: Upper Division. Class open to undergraduate level. Class not open to freshmen and sophomores.

**BUS 3631 ENTREPRENEURSHIP (5)** Registration Approval: SBE Coordinator. Prerequisite: ACCT 2361. Studies the major elements of innovation and new enterprise formation and growth. Examines in-depth through lectures, guest speakers, videos and class exercises the characteristics of the entrepreneurial personality and the nature of the entrepreneurial task. Special emphasis is placed upon leadership, venture planning, time management and the transfer of technology from concept to commercialization. Attribute: Upper Division. Class open to business and economics majors. Class not open to freshmen.

**BUS 3657 HUMAN RESOURCE MANAGEMENT (5)** An introduction to the management of human resources in organizations. Theory, research and practice in the areas of human resources planning, job analysis and design, recruiting and staffing, training and development, performance appraisal, compensation, organization development, government regulation of HRM and quality of work life will be studied. Attribute: Upper Division. Class open to business and economics majors. Class not open to freshmen.

**BUS 3670 MANAGEMENT IN THE NONPROFIT SECTOR (3)** Focuses on the management of not-for-profit organizations. Includes analysis of board of directors, management responsibilities, funding requirements, coordination and direction of volunteers, legal issues and public relations. Appropriate for those interested in the management of churches, hospitals, performing groups, social service organizations. Attribute: Upper Division. Class open to business and economics majors. Class not open to freshmen.

**BUS 3700 QUANTITATIVE METHODS FOR DECISION MAKING (3)** Registration Approval: SBE Coordinator. Prerequisite: BUS 2700. Uses computers for solving quantitative management decision problems. Includes optimization with derivatives, marginal analysis, linear programming and forecasting methods. Course Equivalent: BUS 3710. Attribute: Upper Division. Class open to accounting, business administration, computer science, economics, family and consumer sciences, food and nutritional sciences, and textiles, clothing and interiors majors.

**BUS 3710 OPTIMIZATION AND STATISTICS (3)** Registration Approval: SBE Coordinator. Prerequisites: BUS 2700 and MAT 1221 or other previous study of calculus in high school or college. Use computers for solving quantitative management decision problems. Includes multivariable optimization, Lagrange multipliers, linear programming and forecasting methods. Course Equivalent: BUS 3700. Attribute: Upper Division. Class open to accounting, business administration, computer science, economics, family and consumer sciences, food and nutritional sciences, and textiles, clothing and interiors majors.

**BUS 3828 INTERNATIONAL BUSINESS (5)** Covers the major forms of international business, including problems of licensing, production, marketing, and import and export; emphasizes relationships between theory and practice regarding management, government policy and international problems. Attribute: Upper Division. Class not open to freshmen.

**BUS 3830 INTERNATIONAL BUSINESS SEMINAR (3-5)** Registration Approval: Instructor. This course will be taught by an SPU faculty member at a location outside the United States for students who are part of the SBE study abroad program. The course will cover current topics in international business; the specific topics will vary from year to year. Corequisite: completion of 15 credits of foreign language (or equivalent) beyond the minimum required for graduation from Seattle Pacific. Attribute: Upper Division. Class open to undergraduate level. Class not open to freshmen and sophomores.

**BUS 4273 SPECIAL TOPICS IN FINANCE (3)** Registration Approval: SBE Coordinator. Prerequisites: BUS 3250; junior standing. Presents lectures and case studies dealing with cash flow, cash budgets, financial forecasting and establishing and maintaining relationships with financial sources. Also considers capital budgeting, leasing and specialized funding vehicles. Attribute: Upper Division. Class open to accounting, business administration, computer science, economics, family and consumer sciences, food and nutritional sciences and textiles, clothing and interiors majors. Class not open to freshmen.

**BUS 4274 PROBLEMS IN CORPORATE FINANCE (5)** Registration Approval: SBE Coordinator. Prerequisite: BUS 3250. Gives an in-depth treatment of the more critical aspects of financial decision making introduced in BUS 3250, utilizing lectures and case studies. Topics typically include mergers and acquisitions, forecasting and cash budgeting, valuation techniques and capital structure issues. Attribute: Upper Division. Class open to business and economics majors. Class open to accounting, business administration, computer science, economics, family and consumer sciences, food and nutritional sciences, and textiles, clothing and interiors majors. Class not open to freshmen.

**BUS 4275 THE PRACTICE OF FINANCE (5)** Registration Approval: SBE Coordinator. Prerequisite: BUS 4274. Applies tools and concepts in all phases of finance to real situations through projects and case studies. Attribute: Upper Division. Class open to business and economics majors. Class open to accounting, business administration, computer science, economics, family and consumer sciences, food and nutritional sciences, and textiles, clothing and interiors majors. Class not open to freshmen.

**BUS 4542 CONSUMER BEHAVIOR (5)** Registration Approval: SBE Coordinator. Prerequisite: BUS 3541. Examines how consumers make choices about what, how and when they buy. Special emphasis will be placed on integrating cognitive, behavioral and ethical concepts in the study of consumer behavior, and the relationships of consumer behavior with marketing strategies. Attribute: Upper Division. Class open to business and economics majors. Class open to accounting, business administration, computer science, economics, family and consumer sciences, food and nutritional sciences, and textiles, clothing and interiors majors. Class not open to freshmen.

**BUS 4543 MARKETING MANAGEMENT (5)** Registration Approval: SBE Coordinator. Prerequisite: BUS 4542. Deals in depth with the planning, executing and controlling of marketing strategies and tactics. Uses a computer simulation and a case format. Attribute: Upper Division. Class open to business and economics majors. Class open to accounting, business administration, computer science, economics, family and consumer sciences, food and nutritional sciences, and textiles, clothing and interiors majors. Class not open to freshmen.

**BUS 4620 COMPUTER NETWORKS (5)** Registration Approval: SBE Coordinator. Prerequisite: BUS 3620. The components, development and management of computer networks are studied. Topics include telecommunications, installation and configuration of computer systems, network operations and management, client/server network issues, distributed systems, business applications of networks, hands-on network installation. Attribute: Upper Division. Class open to business and economics majors. Class open to accounting, business administration, computer science, economics, family and consumer sciences, food and nutritional sciences, and textiles, clothing and interiors majors. Class not open to freshmen and sophomores.

**BUS 4622 INFORMATION AND DATABASE SYSTEMS (5)** Registration Approval: SBE Coordinator. Prerequisites: BUS 3620 and CSC 1130 or CSC 1230. Database concepts and management issues are explored from information modeling to the implementation and application of a database. Topics include information modeling, database design and manipulation, query languages, integrity, reliability, distributed database, database management, design and implementation of a database application. Attribute: Upper Division. Class not open to freshmen.

**BUS 4625 THE ORGANIZATION'S PRESENCE ON THE NET (5)** Registration Approval: SBE Coordinator. Prerequisites: BUS 3620, BUS 3625. This course provides a framework for an organization to evaluate, create and implement a successful net presence through the use of e-commerce tools. The areas covered include creation of the organizations intranet, extranet and Internet; building communities with suppliers, employees, customers and other stakeholders; evaluation and design of Web sites through the use of existing Web development tools; economic analysis of an organization's e-commerce potential and marketing the net opportunities to employees, management, owners, customers, suppliers, etc. Attribute: Upper Division. Class open to undergraduate level. Class not open to freshmen and sophomores.

**BUS 4644 OPERATIONS MANAGEMENT (5)** Registration Approval: SBE Coordinator. Prerequisite: BUS 3700. Analyzes theory and application of the systems approach to production management. Provides a focus on the decision-making process, the design and control of manpower, materials and machines in several production/service environments. Attribute: Upper Division. Class open to business and economics majors. Class open to accounting, business administration, computer science, economics, family and consumer sciences, food and nutritional sciences, and textiles, clothing and interiors majors. Class not open to freshmen and sophomores.

**BUS 4645 SMALL BUSINESS CONSULTING (5)** Registration Approval: SBE Coordinator. Prerequisites: BUS 3614, 3541 and 3250. The student will write a specialized business plan in consultation with a selected small-business executive. Attribute: Upper Division. Class open to accounting, business administration, computer science, economics, family and consumer sciences, food and nutritional sciences, and textiles, clothing and interiors majors. Class not open to freshmen, sophomores and juniors.

**BUS 4660 MANAGING SYSTEMS (5)** Registration Approval: SBE Coordinator. Prerequisites: BUS 3614. This management course is a problem-focused look at organizational systems. Building upon a systems-theory model, we will explore the macro-level issues and dynamics of whole organizations. Topics will include organization structure, technology, culture, context, power and politics, effectiveness, innovation, learning and change. This is an applications-oriented course, where our analysis of companies will be informed by theory and grounded in practice. The term will culminate in a comprehensive group project and presentation. Attribute: Upper Division. Class open to accounting, business administration, computer science, economics, family and consumer sciences, food and nutritional sciences, and textiles, clothing and interiors majors. Class not open to freshmen and sophomores.

**BUS 4661 SPECIAL TOPICS IN MANAGEMENT (3)** Registration Approval: SBE Coordinator. Prerequisite: BUS 3614. Students analyze current issues in improving the effectiveness of organizations. Attribute: Upper Division. Class open to accounting, business administration, computer science, economics, family and consumer sciences, food and nutritional sciences and textiles, clothing and interiors majors. Class not open to freshmen and sophomores.

**BUS 4690 STRATEGIC MANAGEMENT (5)** Registration Approval: SBE Coordinator. Prerequisites: BUS 3250, 3541, 3614, 3700 and 4644. Explores strategy formulation and implementation processes and the measurement of performance designed to aid organizations to achieve the purpose and objectives of both small and large businesses. Attributes: Upper Division and Writing Course. Class open to accounting, business administration, computer science, economics, family and consumer sciences, food and nutritional sciences, and textiles, clothing and interiors majors. Class not open to freshmen, sophomores and juniors.

**BUS 4940 INTERNSHIP (1-5)** Registration Approval: Intern Learning Contract Req. Provides field-experience opportunities for students to relate and apply principles of business, faith, service and leadership to a professional business setting. Course consists of an internship in a professional business setting (minimum 10 hours/week) and an on-campus seminar. Internship placement must be arranged the quarter prior to registration. Additional information may be obtained from the Career Development Center or internship coordinator for the School of Business and Economics. A student's initial internship must be taken for at least 2 credits. May be repeated for credit up to 10 credits. Course Equivalent: ECN 4940. Attribute: Upper Division. Class not open to freshmen and sophomores.

## Economics

**Douglas A. Downing, Contact Person**

Economics is the study of the allocation of scarce resources among competing uses. Many vital issues that affect human welfare are studied in economics at SPU, with emphasis on a Christian perspective on society's decisions about how to organize the production and distribution of goods and services. The economics major presents the study of economics as one of the social sciences. The program is structured to provide the widest latitude for the student to select elective courses that will develop the student's economic interests. (See Business Administration section for the economics concentration in the business administration major.)

## Requirements for the Major

(70 credits)

(Refer to page 64 for a summary of degree requirements.)

Students desiring to major in economics must follow the application process described above. To be awarded a degree with a major in economics, students must meet the major requirements in effect at the time declaration of a major was made and have a minimum of 45 credit hours in the major at SPU.

### General Core

Demonstration of computer competency is required. This is documented by passing BUS 1700, or passing a competency exam covering the equivalent.

#### Core requirements to be completed by first quarter of sophomore year:

BUS 2700 Statistics for Business and Economics .....	5
ECN 2101 Principles of Microeconomics .....	5
ECN 2102 Principles of Macroeconomics .....	5

Select one course from the following:

GEO 1110 World Regional Geography (5)	
POL 1110 Introduction to Politics (5)	
POL 1120 American Government and Politics (5).....	5

#### Core requirements to be completed during the sophomore year:

ACCT 2361 Financial Accounting .....	5
BUS 2600 Managerial Communication .....	2

#### Core requirements to be completed during the junior or senior years:

ECN 3101 Intermediate Macroeconomics.....	5
ECN 3102 Managerial Economics .....	5
ECN 4310 International Political Economy (5) <i>or</i>	
POL 3320 Political and Economic	
Development of Nations (5) .....	5
BUS 3700 Quantitative Methods for Decision Making	
<i>or</i> BUS 3710 Optimization and Statistics. ....	3
BUS 3400 Business Ethics .....	5
ECN 4316 Issues in Political Economy .....	5

#### Economics electives (15 credits required)

Take at least two courses from the following list; students then may (with approval of advisor) select ECN 4900 or a course in finance or business to complete the 15 credits:

ECN 2207 Economic Geography (5)	
ECN 3231 Urban Economics (5)	
ECN 3318 Economics of the Public Sector (5)	
ECN 3321 Money and Banking (5)	
ECN 3635 Marxism: 20th Century Theory and Practice (3)	
ECN 3640 Growth of the American System (3)	
ECN 4641-4642 History of Economic Thought (3)	
GEO 3500 Geography of Natural Resources (5) .....	15
<b>Total .....</b>	<b>70</b>

For students who will seek employment immediately after graduation, an internship (ECN 4940) is recommended.

Students who plan to attend graduate school in economics are encouraged to take these courses: MAT 1225 and MAT 1226 Calculus, MAT1228 Series and Differential Equations, and BUS 3710 Optimization and Statistics. Students completing these four courses may count these as 5 credits of electives in the economics major, and they may waive the requirement for GEO1110, POL1110 or POL1120.

## Requirements for the Minor in Economics

As a complement to majors such as political science, or for those preparing for law school, the minor in economics can be a valuable addition to the degree. These requirements also satisfy the requirements for a teaching endorsement in economics. The requirements for the minor in economics include a 20-credit core of ECN 2101, ECN 2102, BUS 3400 and either ECN 3101 or ECN 3102, followed by 10 elective credits in ECN or other approved coursework. Formal declaration of the minor is required. Acceptance is based upon an application to the School of Business and Economics with a minimum cumulative GPA of at least 2.70 in a minimum of 45 quarter credits of coursework. Application to the minor may also be made online at [www.spu.edu/depts/sbe](http://www.spu.edu/depts/sbe).

### Economics Courses

**ECN 1100 FUNDAMENTALS OF ECONOMICS (5)** Introduces the principles of economics for non-majors planning to take only one course in economics. Examines demand and supply, the price system, income distribution, determination of national income, employment and prices, economics of environmental issues and the public sector, international trade, economic growth, and capitalism and socialism. Attributes: Social Science Introductions and Social Science B.

**ECN 2101 PRINCIPLES OF MICROECONOMICS (5)** Provides a foundation course for business majors. Topics include supply and demand; markets and the price system; allocation of resources; income distribution; economic power and the public sector; international trade; and comparative economic systems. Attributes: Social Science Introductions and Social Science B.

**ECN 2102 PRINCIPLES OF MACROECONOMICS (5)** Presents topics including elementary demand and supply, determination of national income, employment and prices, money and banking system, fiscal and monetary policy and economic welfare, economic growth and development and international finance. Attributes: Social Science Introductions and Social Science B.

**ECN 3101 INTERMEDIATE MACROECONOMICS (5)** Registration Approval: SBE Coordinator. Prerequisites: ECN 2101, 2102. An analysis of aggregate income, employment and price level; classical and Keynesian perspectives, and recent contributions. Attributes: Upper Division and Writing Course. Class not open to freshmen.

**ECN 3102 MANAGERIAL ECONOMICS (5)** Registration Approval: SBE Coordinator. Prerequisites: ECN 2101, 2102; BUS 2700. Examines microeconomics at the intermediate level with particular application to operations of the firm. Emphasizes the application of theory to actual situations encountered in the management of firms and explores the use of economic theory for projections and forecasting. Attribute: Upper Division. Class open to accounting, business administration, computer science, economics, family and consumer sciences, food and nutritional sciences, and textiles, clothing and interiors majors. Class not open to freshmen.

**ECN 3231 URBAN ECONOMICS (5)** Registration Approval: SBE Coordinator. Prerequisite: ECN 1100 or 2101. Examines economic and social factors influencing urban growth and land-use patterns, especially forces influencing the demand for urban land and affecting intra-urban rent, real estate values and the housing market. Examines such factors as taxation, zoning and other land-use policies as they relate to the development of urban land. Offered alternate years. Attribute: Upper Division. Class not open to freshmen.

**ECN 3318 ECONOMICS OF THE PUBLIC SECTOR (5)** Registration Approval: SBE Coordinator. Prerequisite: ECN 1100 or 2101. Presents the rationale for governmental provision of goods and services, non-market decision making, public expenditure analysis, taxation, fiscal policy and the role of the government in economic systems. Offered alternate years. Attribute: Upper Division. Class not open to freshmen.

**ECN 3321 MONEY AND BANKING (5)** Registration Approval: SBE Coordinator. Prerequisites: ECN 2101 and 2102; ACCT 2361. Surveys monetary theory and the role of major financial institutions such as commercial banks, the federal reserve system and savings institutions in the monetary system. The impact of bank operations on the quantity and flow of money in the economic system is emphasized. Attribute: Upper Division. Class not open to freshmen.

**ECN 3635 MARXISM: 20TH CENTURY THEORY AND PRACTICE (3)** Examines the development of varieties of Marxist theory and practice in the 20th century, compares the Soviet, European, Chinese and Latin American experiences with Marxist thought and practice. Offered alternate years. Course Equivalents: HIS 3435 and POL 3435. Attribute: Upper Division. Class not open to freshmen.

**ECN 3640 GROWTH OF THE AMERICAN ECONOMIC SYSTEM (3)** Registration Approval: SBE Coordinator. Prerequisites: ECN 1100, or ECN 2101, or 2102. Studies the development of the American economy, with particular attention to the rise of the modern business system and its impact on American society; gives corollary consideration of labor, agriculture, technology and the monetary system. Offered alternate years. Course Equivalent: HIS 3640. Attribute: Upper Division. Class not open to freshmen.

**ECN 4310 INTERNATIONAL POLITICAL ECONOMY (5)** Examines the nature and dynamics of the global economy in relation to the economies and political systems of nations and to theories and models of national, regional and global economic growth. International trade, business and government policy are studied in this context. Offered alternate years. Course Equivalent: POL 4310. Attribute: Upper Division. Class not open to freshmen.

**ECN 4316 ISSUES IN POLITICAL ECONOMY (5)** Registration Approval: SBE Coordinator. Prerequisites: ECN 2101, 2102. Junior standing preferred or permission of instructor. Studies the interrelationship between politics and economics and their effect on human welfare. Capstone course for economics majors. Attributes: Upper Division and Writing Course. Class open to accounting, business administration, computer science, economics, family and consumer sciences, food and nutritional sciences, and textiles, clothing and interiors majors. Class not open to freshmen.

**ECN 4641 HISTORY OF ECONOMIC THOUGHT I (1-3)** Registration Approval: SBE Coordinator. Prerequisites: ECN 2101, 2102, or permission of instructor. A study of the development of economic ideas and philosophies from Moses to mercantilism. Focus is on ethics and economics in the biblical, classical, physiocratic and mercantilist schools of economic thought. Offered alternate years. May be repeated for credit up to 3 credits. Attributes: Upper Division and Writing Course. Class not open to freshmen.

**ECN 4642 HISTORY OF ECONOMIC THOUGHT II (1-3)** Registration Approval: SBE Coordinator. Prerequisites: ECN 2101, 2102 and 4641. Continuation of ECN 4641. Attribute: Upper Division. Class not open to freshmen.

**ECN 4900 INDEPENDENT STUDY IN ECONOMICS (1-5)** Registration Approval: Independent Study Agreement. The student proposes a topic of current interest in business to an SBE professor. The student meets with the professor to discuss a bibliography and rough drafts before turning in the final draft of a paper. A 5-credit independent study requires a total of 30 pages of written work. In general, the number of pages of written work must be six times the number of credits, or there must be equivalent work in exams or other requirements. May be repeated for credit up to 5 credits. Attribute: Upper Division.

**ECN 4940 INTERNSHIP IN ECONOMICS (1-5)** Registration Approval: Intern Learning Contract Req. Provides field experience opportunities for students to relate and apply principles of business, faith, service and leadership to a professional business setting. Course consists of an internship in a professional business setting (minimum 10 hours/week) and an on-campus seminar. Internship placement must be arranged the quarter prior to registration. Additional information may be obtained from the Career Development Center or internship coordinator for the School of Business and Economics. May be repeated for credit up to 10 credits. Course Equivalent: BUS 4940. Attribute: Upper Division. Class not open to freshmen and sophomores.

## Executive Advisory Council

The purpose of the EAC is to partner with faculty and staff in providing students with the following:

- A high-quality business education
- Integration of business theory and practice
- Personal and spiritual guidance
- Preparation for productive and meaningful careers

## Executive Advisory Council Members

Charles L. Anderson, Chairman, TELTONE CORPORATION

Douglas G. Burleigh, Associate, LEADERSHIP DEVELOPMENT FOUNDATION

Nancy L. Cahill, Member-Attorney, HOLMAN CAHILL GARRETT IVES & OLIVER, PLLC

Luther J. Carr Jr., President, ENVIRONMENTAL HOUSING GROUP

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Jack J. Link, President, TRI-LAND CORPORATION

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Nancy Buffington Lucks, Director, CENTER FOR APPLIED LEARNING, SCHOOL OF BUSINESS AND ECONOMICS, EAC Emeritus

D. Douglas McKenna, Psychologist

Jack McMillan, Director-Retired, NORDSTROM, EAC Emeritus

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Robert L. Wiley, Managing Partner, FIDELITY NORTHWEST ASSOCIATES, LLC, EAC Emeritus

James G. Young, President and CEO, SEATTLE STEAM COMPANY

## Faculty

**Denise Daniels**, Associate Professor of Management; B.A., Wheaton College, 1991; Ph.D., University of Washington, 1997. At SPU since 1996.

**Jonathan C. Deming**, Associate Professor of Economics; B.A., Whitman College, 1971; M.A., University of Oregon, 1974; Ph.D., 1979. At SPU since 1977.

**Douglas A. Downing**, Associate Professor of Economics and Undergraduate Director; B.S., Yale University, 1979; M.A., 1982; Ph.D., 1987. At SPU since 1983.

**Albert M. Erisman**, Executive in Residence; B.S., Northern Illinois University, 1962; M.S., Iowa State University, 1967; Ph.D., 1969. At SPU since 2000.

**Randal S. Franz**, Associate Professor of Management; B.A., California State University-Sacramento, 1982; M.A., 1985; M.A., Stanford University, 1988; Ph.D., 1991. At SPU since 1991.

**Loren T. Gustafson**, Assistant Professor of Management; B.A., Seattle Pacific University, 1983; M.B.A., San Diego State University, 1987; Ph.D., Arizona State University, 1995. At SPU since 1995.

**Dan W. Hess**, Professor of Finance; B.A., Wheaton College, 1971; M.B.A., University of Washington, 1975; Ph.D., University of Arizona, 1982. At SPU since 1977.

**Gary L. Karns**, Associate Dean and Associate Professor of Marketing; MBA/ISM Graduate Director; B.B.A., University of Oklahoma, 1976; M.B.A., 1977; Ph.D., University of Washington, 1987. At SPU since 1979.

**Herbert E. Kierulff**, Donald Snellman Chair of Entrepreneurship; Professor of Finance, B.A., Stanford University, 1959; M.B.A., University of Southern California, 1964; D.B.A., 1967. At SPU since 1980.

**Kenneth E. Knight**, Professor of Management and Information Systems; B.S., Yale University, 1959; M.S., Carnegie-Mellon University, 1961; Ph.D., 1964. At SPU since 1989.

**Joanna K. Poznanska**, Professor of International Business and Economics; M.A., University of Warsaw, 1970; Ph.D., Technical University of Warsaw, 1976; postgraduate studies at Cornell University; Researcher, Woodrow Wilson School of Public and International Affairs, Princeton University, 1980-81. At SPU since 1988.

**James F. Rand**, Clinical Professor; B.S., Marquette University, 1963; LL.B., LaSalle University, 1972; Ph.D., California Western University, 1976. At SPU since 1993.

**Regina P. Schlee**, Associate Professor of Marketing; B.A., University of Nevada, 1976; M.A., Washington State University, 1978; Ph.D., 1981. At SPU since 1984.

**Richard L. Sleight**, Instructor; B.A., University of Washington, 1977; M.Ed., 1980; Ph.D., 1989. At SPU since 1989.

**Gerhard H. Steinke**, Professor of Management and Information Systems; B.S., University of Alberta, 1975; M.A. Rel., Anderson University, 1984; M. Div., 1985; M.B.A., Ball State University, 1984; Ph.D. University of Passau, 1992. At SPU since 1992.

**Ian C. Stewart**, Professor of Accounting; B.C.A., Victoria University of Wellington, 1968; M.Com., University of Auckland, 1970; Ph.D., University of New England, 1975; B.D., Melbourne College of Divinity, 1986. At SPU since 1991.

**Ross E. Stewart**, Professor of Accounting; B.Com., University of Auckland, 1977; M.Com., 1979; Diploma in

Christian Studies, Regent College, 1981; M.T.S., 1983; Ph.D., University of Glasgow, 1987. Chartered Accountant, 1980. At SPU since 1986.

**Lisa Klein Surdyk**, Associate Professor of Economics; B.A., Seattle Pacific University, 1987; Ph.D., University of Washington, 1991. At SPU since 1991.

**Jeffrey B. Van Duzer**, Dean; Associate Professor of Law and Ethics; B.A., University of California-Berkeley, 1976; J.D., Yale Law School, 1979. At SPU since 2001

**Kenman L. Wong**, Professor of Business Ethics; B.S., Biola University, 1986; M.B.A., University of Washington, 1987; Ph.D., University of Southern California, 1996. At SPU since 1997.

## Chemistry and Biochemistry

Miller Science Learning Center (MSLC)  
(206) 281-2140

www.spu.edu/depts/chemistry

**Lyle Peter**, Chair, **Grayson Capp**, **Greg Phelan**, **Charlotte Pratt**, **Daisy Zhang**

Chemistry is primarily concerned with matter, energy and their interactions. Chemists do a wide variety of things, including the following: They make new substances, including new materials and medicines; design new ways to make known compounds, isolating and determining chemical structures of naturally occurring substances; elucidate the chemical bases of biological processes, explaining the changes matter undergoes, developing and applying analytical techniques for criminal investigations and environmental problems; sell chemicals, teach chemistry and apply chemical knowledge to solve other societal and technological problems.

Chemists are concerned about the effect their work and technology have on society and on individuals. They are in the forefront of efforts to make sure that technology serves humankind rather than vice versa. The curriculum is designed to serve persons desiring to enter a career in chemistry, biochemistry or science education, as well as those interested in pursuing further study in medicine, dentistry, pharmacy, engineering and the other sciences. To qualify for admission to the major, a student must have a 2.5 minimum GPA.

## Requirements for the Chemistry Major

(Refer to page 64 for a summary of degree requirements.)

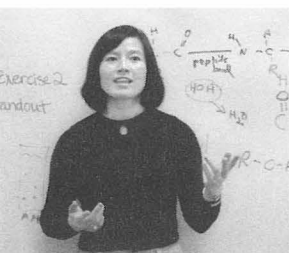
### Core Courses

CHM 2371, 2372, 2373 Organic Chemistry .....	15
CHM 3225,3226 Analytical Chemistry .....	10
CHM 3540 Inorganic Chemistry .....	5
PHY 1121, 1122, 1123 Physics for Science and Engineering or PHY 1101, 1102, 1103 General Physics .....	15
<b>Total .....</b>	<b>45</b>

The majority of students will also need to take CHM 1211 as a prerequisite to CHM 2371.

*"Acquiring knowledge should not be the ultimate goal in science. The goal should be to use knowledge to make a difference in the world. I hope to help students think more logically, gain insights into God as creator and use that knowledge to engage the culture around them."*

Daisy Zhang  
Chemistry



### Chemistry Seminars

Chemistry majors are required to attend the chemistry seminars during their junior and senior years. These seminars will be scheduled up to five times per quarter to provide a forum for undergraduate research students, faculty and visiting chemists to communicate the results of their research.

### B.S. in Chemistry

(65 credits in chemistry; 45 upper division in chemistry) This course of study is recommended for a professional degree in chemistry or for those interested in doing graduate and other advanced work in chemistry, certain aspects of molecular biology, toxicology and forensic science. It conforms with the recommendations of the American Chemical Society and should prepare the student for graduate work in chemistry or for employment as a chemist. A minimum of 65 credits in chemistry (excluding CHM 1100, 1110, 1330 and 3400) is required, including the core requirements listed above, and CHM 3226, 3401, 3402, 3403 (12 credits); CHM 3460 (3 credits); CHM 4542 (3 credits); 5 credits of Independent Project (CHM 4900), or Internship (CHM 4940) plus chemistry electives. The physics requirement and chemistry seminar requirement are described above. Also, MAT 1225, 1226 and 1228 are required. Additional mathematics (such as MAT 2228, 2375 and 2401) is recommended for students planning to go on to graduate work in certain areas of chemistry. A computer programming course is strongly recommended. A reading knowledge of German, French or Russian is desirable for those who plan to do graduate work in chemistry. The B.S. chemistry track is credit intensive. In order to complete the major in four years, a student ideally should begin with CHM 1211 or 2371 and MAT 1225 in the first quarter of his or her freshman year. A suggested curriculum is listed below, but it is important that the student meet with a chemistry advisor early to plan the specific details, especially if considering a pre-professional track.

### Suggested First Year B.S. Chemistry Curriculum

Autumn	CHM 1211 General Chemistry .....	5
	MAT 1225 Calculus .....	5
	General Education .....	5
		<b>15</b>

### Winter

CHM 2371 Organic Chemistry .....	5
MAT 1226 Calculus .....	5
General Education .....	5
	<b>15</b>

### Spring

CHM 2372 Organic Chemistry .....	5
MAT 1228 Series and Differential Equation .....	5
General Education .....	5
	<b>15</b>

### Suggested Second Year B.S. Chemistry Curriculum

Autumn	CHM 2373 Organic Chemistry .....	5
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PHY 1121 Physics for Science and Engineering .....	5
General Education .....	5
	<b>15</b>

### Winter

CHM 3225 Chemical Equilibrium and Analysis .....	5
PHY 1122 Physics for Science and Engineering .....	5
General Education .....	5
	<b>15</b>

### Spring

CHM 3540 Introductory Inorganic Chemistry .....	5
PHY 1123 Physics for Science and Engineering .....	5
General Education .....	5
	<b>15</b>

Suggested third year B.S. chemistry curriculum should include CHM 3401, 3402, 3403, 3460, general education courses, and other chemistry and general elective courses. A chemistry advisor should be consulted to tailor the schedule to the students needs.

### B.S. in Biochemistry

(63 credits in biology and chemistry; 43 upper division) The molecular aspects of the life sciences call for an interdisciplinary course of study in chemistry and biology, plus background support in physics and mathematics. This degree prepares students for graduate study in biochemistry and molecular biology. It provides a strong background for entree to medical school, dental school and the field of biotechnology. The program includes 48 credits of chemistry; 15 credits of biology; 15 credits of physics (PHY 1101, 1102 and 1103, or 1121, 1122 and 1123); 15 credits of calculus (MAT 1225, 1226, 1228). Chemistry courses should include CHM 2371, 2372, 2373, 3225, either 3400 or 3401, 3402 or 3403, 4361, 4362, 4363. Biology courses should include BIO 2101, 3325 and 4325. In addition students should take 5 credits of research, CHM 4960, in their junior and/or senior years. Ten to 20 credits of electives can be selected from the following: BIO 2102 or 2103, BIO 4352, CHM 3226, CHM 3460, CHM 3540, CHM 4374, CHM 4542. For those interested in pursuing a research career in, and/or a graduate degree in, biochemistry, it is strongly recommended that the student complete at least one year of calculus and at least two of the three physical chemistry courses, CHM 3401, 3402, 3403 and their prerequisites.

### Suggested First Year B.S. Biochemistry Curriculum

Autumn	CHM 1211 General Chemistry .....	5
	MAT 1225 Calculus .....	5
	General Education .....	5
		<b>15</b>

### Winter

CHM 2371 Organic Chemistry .....	5
MAT 1226 Calculus .....	5
General Education .....	5
	<b>15</b>

### Spring

CHM 2372 Organic Chemistry .....	5
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MAT 1228 Calculus .....	5
General Education .....	5
	<b>15</b>

### Suggested Second Year B.S. Biochemistry Curriculum

Autumn	CHM 2373 Organic Chemistry .....	5
	PHY 1121 or 1101 General Physics .....	5
	BIO 2101 General Biology .....	5
		<b>15</b>

### Winter

CHM 3225 Chemical Equilibrium and Analysis .....	5
PHY 1122 or 1102 General Physics .....	5
General Education .....	5
	<b>15</b>

### Spring

CHM 3540 or CHM 3400 Physical Chemistry for the Life Sciences .....	5
PHY 1123 or 1103 General Physics .....	5
General Education .....	5
	<b>15</b>

Ideally, the third year B.S. biochemistry curriculum should include the CHM 4361, 4362, 4363 sequence, BIO 3325 and BIO 4325, along with general education and electives. A chemistry/biochemistry advisor should be consulted to tailor the schedule to the student's goals.

### B.A. in Chemistry

(50 credits in chemistry; 30 upper division in chemistry) This option is suited for students preparing for medical or dental school, careers in medical technology, pharmacy or related fields, or to teach chemistry at the secondary level. A minimum of 50 credits in chemistry (excluding CHM 1100, 1110 and 1330) are required, including the core requirements listed above, and CHM 3400 or 3401 and 3460, plus chemistry electives. Those interested in careers in medicine, dentistry or other health related field, should choose CHM 4361 and 4362 as electives. The physics requirement and chemistry seminar requirement are described above. Also required is MAT 1225 and 1226, although generally MAT 1228 should be also taken.

### Requirements for the Chemistry Minor

(35 credits; 15 upper division)	
CHM 1211 General Chemistry .....	5
CHM 2371, 2372 Organic Chemistry .....	10
Chemistry courses chosen from at least two of these five areas: organic, inorganic, analytical, physical and biochemistry.* .....	20
<b>Total .....</b>	<b>35</b>

\*Excluding CHM 1100, 1110, 1330, 2930, 4800, 4900, 4930 and 4940.

### Chemical Education

Students preparing for the teaching profession at the elementary level should take at least CHM 1100 or CHM 1211. (For general science major requirements in elementary teaching, see School of Education listing in this *Catalog*.) For junior high level a "supporting endorsement"

provides an appropriate basis. A supporting endorsement can be obtained by completing a minor including CHM 1211, 2371, 2372, 3225, 3400 and 3540. See School of Education for a definite description of the supporting endorsement. Students preparing for a secondary certificate should complete the requirements for a B.A. in chemistry including at least two quarters of physical chemistry.

### Pre-Professional Health

Students interested in medicine, dentistry or similar professional health career should complete B.S. in biochemistry, or a B.S. or B.A. in chemistry including biochemistry courses. See Pre-Professional Health section of the *Catalog*.

### Medical Technology

Medical technology students should complete a B.A. or B.S. in chemistry with biochemistry, or the B.S. in biochemistry. See Pre-Professional Health section of the *Catalog*.

### Chemistry Courses

**CHM 1100 INTRODUCTION TO CHEMISTRY (5)** Prerequisites: 1 1/2 years of high school mathematics including algebra, or permission of instructor; passing score on the SPU Mathematics Proficiency Exam or take the required MAT 0120 credits concurrently. This course is not recommended for students who have completed one year of high school chemistry. Examines the structure of matter and the tools and methods used by the chemist. Simple reactions and some current applications are studied. Can be used as preparation for CHM 1211. Includes laboratory. Attributes: Physical Sciences and Natural Science B.

**CHM 1110 INTRODUCTION TO THE NATURE OF SCIENCE (5)** Provides a lecture, discussion, student-participation course in the physical sciences with a chemistry emphasis. Examines basic revolutions in the development of scientific views and their relationships to religious faith and human values. Also examines selected scientific concepts and theories. Provides preparation for informed decision making on some current and future societal issues. Not recommended for students with more than one high school science course. Course Equivalent: PHY 1110. Attributes: Physical Sciences and Natural Science B.

**CHM 1211 GENERAL CHEMISTRY (5)** Prerequisites: Requires two years high school mathematics (including algebra) and a passing score on the SPU Mathematics Proficiency Exam (or completion of the required MAT 0120 credits), and one year of high school chemistry or CHM 1100. Introduces properties of matter, stoichiometry, chemical reactions, thermochemistry, states of matter, chemical bonding, atomic and molecular structure. Includes laboratory. Attributes: Physical Sciences and Natural Science B.

**CHM 1330 ORGANIC AND BIOLOGICAL CHEMISTRY (5)** Prerequisite: CHM 1211. Studies simpler laws of organic chemistry including nomenclature and classification. Simple chemistry of carbohydrates, lipids and proteins, integration of metabolisms, chemistry of heredity. Includes laboratory. Attributes: Physical Sciences and Natural Science B.

**CHM 2371 ORGANIC CHEMISTRY (5)** Prerequisite: CHM 1211 or permission of instructor. This is the introductory course in organic chemistry. It reviews topics such as stoichiometry, acids and bases, structure and bonding theory, nomenclature, synthesis, thermodynamics, gas laws, functional groups and reaction mechanisms as applied to organic chemistry. Laboratory work will emphasize basic methods of separation and purification representative substances.

**CHM 2372 ORGANIC CHEMISTRY (5)** Prerequisite: CHM 2371. A continuation of CHM 2371. Continues studies of principles of nomenclature, synthesis, thermodynamics, structure and reaction mechanisms to a broadening collection of organic functional groups. Introduces spectroscopic methods. Laboratory work will emphasize basic methods of synthesis of representative compounds, and obtaining their spectra and other properties.

**CHM 2373 ORGANIC CHEMISTRY (5)** Prerequisite: CHM 2372. A continuation of CHM 2372. Completes a survey of the properties of common organic functional groups and introduces topics of bioorganic chemistry. Laboratory includes some qualitative organic analysis, identifying unknown substances using chemical, physical and instrumental techniques.

**CHM 2930 CHEMISTRY PRACTICUM (1-3)** Registration Approval: Instructor. Selected students are assigned teaching, grading, laboratory preparation and/or tutoring responsibilities. May be repeated for credit up to 3 credits.

**CHM 3225 CHEMICAL EQUILIBRIUM AND ANALYSIS (5)** Prerequisite: CHM 2372 or permission of instructor. Laboratory-oriented course dealing with chemical equilibria in solution and their applications to quantitative analysis. Some types of reactions to be studied are precipitation, acid base, complex formation and oxidation-reduction. Traditional wet chemical and instrumental methods will be used. Attribute: Upper Division.

**CHM 3226 QUANTITATIVE AND INSTRUMENTAL ANALYSIS (5)** Prerequisite: CHM 3225. Laboratory-oriented course, dealing with the theory and practice of quantitative analytical chemistry with emphasis on instrumental techniques. Instrumental analysis will include a variety of separation, spectroscopic and electrochemical methods, possibly including engineering and clinical applications. Course Equivalent: EGR 3226. Attribute: Upper Division.

**CHM 3400 PHYSICAL CHEMISTRY FOR LIFE SCIENCES (5)** Prerequisites: CHM 2373, 3225 and MAT 1226. A survey of physical chemistry topics such as thermodynamics, statistical mechanics, kinetics, quantum chemistry and spectroscopy with examples and applications from the life sciences. Attribute: Upper Division.

**CHM 3401 THERMODYNAMICS (4)** Prerequisites: CHM 1211, PHY 1103 or PHY 1123, and MAT 1228 or permission of instructor. Studies equilibrium and non-equilibrium properties of gases, liquids and solids from thermodynamic processes. Engineering applications. Includes elements of statistical thermodynamics. Course Equivalents: EGR 3401 and PHY 3401. Attribute: Upper Division.

**CHM 3402 PHYSICAL CHEMISTRY (4)** Prerequisite: CHM 3540, PHY 1103 or PHY 1123, and MAT 1228 or permission of instructor. Studies quantum theory and group theory and their applications to spectroscopy, molecular and solid-state structures and bonding. Attribute: Upper Division.

**CHM 3403 PHYSICAL CHEMISTRY (4)** Prerequisite: CHM 3225, PHY 1103 or PHY 1123, and MAT 1228 or permission of instructor. Studies statistical mechanics, chemical kinetics, physical and chemical equilibria, electrochemistry and selected related topics. Attribute: Upper Division.

**CHM 3460 PHYSICAL CHEMISTRY LABORATORY (1-2)** Prerequisites: CHM 3225 or equivalent and CHM 3401, 3402 or 3403 (may be taken concurrently with CHM 3401, 3402 or 3403). Provides opportunity for several experiments with a written report for each experiment that includes an analysis of the reliability and limits of error of the results. May include computer applications. May be repeated for credit up to 4 credits. Attributes: Upper Division and Writing Course.

**CHM 3540 INTRODUCTORY INORGANIC CHEMISTRY (5)** Prerequisites: CHM 2373, 3225. This is a systematic study of chemical principles as applied to inorganic systems. It may include inorganic nomenclature, solid state structure, thermodynamics and bonding, general bonding theory, non-protonic acid-base theory, coordination chemistry and descriptive inorganic chemistry. Includes laboratory. Attribute: Upper Division.

**CHM 4361 BIOCHEMISTRY (5)** Prerequisite: CHM 2373, 3225. Studies chemical properties of biological compounds: carbohydrates, lipids, amino acids and proteins and nucleic acids. Metabolism: biochemical energetics, enzymes, electron transport and oxidative phosphorylation. Integration of metabolism: biochemical genetics, metabolic regulation. Includes laboratory. Course Equivalent: BIO 4361. Attribute: Upper Division.

**CHM 4362 BIOCHEMISTRY (5)** Prerequisite: CHM 4361. Continuation of CHM 4361. Studies chemical properties of biological compounds: carbohydrates, lipids, amino acids and proteins and nucleic acids. Metabolism: biochemical energetics, enzymes, electron transport and oxidative phosphorylation. Integration of metabolism: biochemical genetics, metabolic regulation. Includes laboratory. Course Equivalent: BIO 4362. Attribute: Upper Division.

**CHM 4363 BIOCHEMISTRY (3)** Prerequisite: CHM 4362 or permission of instructor. Explores selected topics including immunoglobulins and the immune system; bacterial cell walls; membrane transport; hormone action; control of gene expression; muscle contraction; cell physiology; drug action; protein folding; HIV mechanisms; mechanisms of infectious disease. Seminar format with leading researchers presenting current work. No laboratory. May be repeated for credit up to 6 credits. Course Equivalent: BIO 4363. Attribute: Upper Division.

**CHM 4374 ORGANIC QUALITATIVE ANALYSIS (3)** Prerequisites: CHM 2373 and 3225. An advanced laboratory course using separation and instrumental techniques to identify unknown organic compounds, including those found in mixtures. Offered alternate years. Attribute: Upper Division.

**CHM 4542 TRANSITION METALS (3)** Prerequisites: CHM 2373 and 3540. (CHM 3402 recommended). The chemistry of the d and f block elements, with emphasis on the correlation of color, magnetic properties, structure and reactivity to fundamental theory. Topics from the current chemical literature will be included. Topics may include bioinorganic chemistry, organometallic chemistry and chemical applications of group theory. Offered alternate years. Attribute: Upper Division.

**CHM 4700 SELECTED TOPICS IN CHEMISTRY/BIOCHEMISTRY (3)** Registration Approval: Instructor. An advanced course on any area of chemical science. It is designed to deepen the student's knowledge in one area of chemistry, expose him or her to the current research literature, and give him or her experience in writing and speaking critically on examples of recent research. Offered alternate years. Attributes: Upper Division and Writing Course.

**CHM 4760 ADVANCED SYNTHESIS (1-2)** Prerequisite: CHM 2373 (CHM 4542 is recommended.) A laboratory course involving organic and/or inorganic synthesis using advanced techniques such as the handling of air-sensitive compounds, vacuum distillations and vacuum-line transfers. Recommended especially for students who plan a research project involving synthesis. To be offered on demand basis. May be repeated for credit up to 4 credits. Attribute: Upper Division.

**CHM 4900 INDEPENDENT PROJECT/DESIGN IN CHEMISTRY/BIOCHEMISTRY (1-10)** Registration Approval: Independent Study Agreement. Laboratory research, library research or other individual project. A final written report is required; also, the student must report orally on his or her results at a Chemistry Department seminar. May be repeated for credit up to 15 credits. Attributes: Upper Division and Writing Course.

**CHM 4930 CHEMISTRY/BIOCHEMISTRY PRACTICUM (1-5)** Registration Approval: Instructor. Selected students are assigned teaching, grading, laboratory preparation and/or tutoring responsibilities. May be repeated for credit up to 5 credits. Attribute: Upper Division. Class not open to freshmen and sophomores.

**CHM 4940 INTERNSHIP IN CHEMISTRY/BIOCHEMISTRY (1-5)** Registration Approval: Intern Learning Contract Req. Provides a significant learning experience through a closely supervised work-study program. A final written report is required; also, the student must report orally on his or her work experience at a Chemistry Department seminar. May be repeated for credit up to 10 credits. Attribute: Upper Division. Class open to chemistry majors. Class not open to freshmen and sophomores.

**CHM 4950 CURRENT TOPICS IN CHEMISTRY/BIOCHEMISTRY (1-5)** Registration Approval: Instructor. Deals with selected chemistry topics of general interest. No laboratory. May be repeated for credit up to 5 credits. Attribute: Upper Division.

**CHM 4960 UNDERGRADUATE RESEARCH IN CHEMISTRY/BIOCHEMISTRY (1-10)** Registration Approval: Instructor. Laboratory research done with supervision/collaboration with a faculty research advisor. A final senior thesis or journal article is required. A report at the regional conference is expected. May be repeated for credit up to 15 credits. Attributes: Upper Division and Writing Course.

## Faculty

**Grayson L. Capp**, *Professor of Chemistry*, B.S., Seattle Pacific College, 1958; M.S., University of Oregon, 1961; Ph.D., 1966; National Institute of Health Post-Doctoral Fellow, Duke University, 1966-68; At SPU since 1968.

**Lyle B. Peter**, *Professor of Chemistry, Chair of Chemistry and Biochemistry Department*, B.S., Seattle Pacific College, 1972; Ph.D., University of Washington, 1979. At SPU since 1979.

**Greg Phelan**, *Assistant Professor of Chemistry*, B.S., University of Washington, 1994; M.S., University of Albany-State University of New York, 1998. M.S., University of Washington 2001. At SPU since 2001.

**Charlotte Pratt**, *Assistant Professor of Biochemistry*, B.S., (biology), University of Notre Dame, 1982; Ph.D., (biochemistry) Duke University, 1987. At SPU since 2001.

**Daisy Y. Zhang**, *Assistant Professor of Chemistry*, B.S., Calvin College, 1989; Ph.D., The University of Chicago, 1993. At SPU since 1998.

## Classics

See Languages

## Common Curriculum

See College of Arts and Sciences

## Communication and Journalism

Marston Hall  
(206) 281-2036

[www.spu.edu/depts/commjournal](http://www.spu.edu/depts/commjournal)

**Debra Sequeira**, *Chair*, **Richard Jackson**, *Journalism contact*, **Lorelle Jabs**, **William Purcell**, **Todd Rendleman**

The Department of Communication and Journalism investigates communication as a social and intellectual process, views oral forms as shapers of history, examines speech as an art form and a tool, and studies journalism as responsible human behavior. Courses are offered to all students seeking understanding, ethical frameworks and skills to manage their conduct as communicators, in mediated and unmediated forms. Those who major in communication explore theory, history and application of human communication from ancient times to the present. Those who specialize in communication or journalism as majors or minors explore the impact of communication and communications on society, and develop ethical and theoretical understandings and skills for managing ideas and relationships.

### Admission to the Major

Applicants for a major in communication must display a cumulative GPA of 2.5 or higher (4.0=A) in all college work applicable to the degree or 3.0 in the 45 credits immediately preceding application for the major.

### Foreign Language Requirement

All students who complete the communication major must display proficiency in a foreign language. For ways of displaying proficiency, see the General Education section of

this *Catalog*, under Baccalaureate Degree Requirements. For those majoring in communication, the proficiency requirement is not satisfied as part of the community college direct transfer degree unless the transcript records completion of adequate foreign language coursework.

### Requirements for the Communication Major

(55 credits; 28 upper-division)

(Both tracks require a common communication core. Each track then adds additional credits in specialized coursework.)

(Refer to page XX for a summary of degree requirements.)

### Departmental Core

COM 1101 Introduction to Interpersonal Communication .....	5
COM 1321 Public Speaking .....	5
COM 2323 Argumentation .....	5
COM 3001 Theories of Communication .....	5
JRN 3355 The Public and the Media .....	5
<b>Total</b> .....	<b>25</b>

### Communication Studies Track

COM 3628 Foundations of Western Rhetoric or COM 3629 Modern Rhetorical Theory .....	5
COM 4142 Advanced Interpersonal Communication .....	5
COM 2227 Small Group Discussion or COM 4625 Organizational Communication .....	5
COM 4910 Communication Seminar .....	3
Electives .....	12
<b>Total</b> .....	<b>55</b>

Practical experiences such as internships, forensics practicum, journalism practicum and similar courses may be taken as part of the degree program and may be included in the major for up to 6 credits of the electives required.

### Journalism Track

JRN 2101 Introductory Newswriting .....	4
JRN 2202 Public Affairs Reporting .....	4
JRN 2203 Editing and Design .....	4
JRN 3301 Media Law .....	5
COM 4177 Communication Ethics .....	5
JRN 4910 Journalism Seminar .....	5
Student Publications/Internships .....	4-6
<b>Total</b> .....	<b>56-62</b>

### Requirements for Communication Minor

(30 credits; a minimum of 15 upper division)

COM 1101 Introduction to Interpersonal Communication .....	5
COM 1321 Public Speaking .....	5
COM 3001 Theories of Communication .....	5
Electives in communication to complete the 30 credit minimum .....	5
<b>Total</b> .....	<b>30</b>

**Requirements for the Journalism Minor**

(30 credits; a minimum of 15 upper division)

JRN 2101 News and Informational Writing .....	4
JRN 2202 Public Affairs Reporting .....	4
JRN 2203 Editing and Design .....	4
Select one of these: JRN 3301 Media Law or COM 4177 Communication Ethics .....	5
JRN 3355 The Public and the Media .....	5
Select one series of courses from the following:	
JRN 3801/02/03 Newspaper Production (6)	
JRN 3930/31/32 Publication Editor Practicum (6) .....	6
Electives to complete 30 credit minimum .....	2
<b>Total .....</b>	<b>30</b>

Electives are to be selected from among other JRN courses and Eng 2215, 3205, 3301 and 4401.

**Communication Courses****COM 1101 INTRODUCTION TO INTERPERSONAL COMMUNICATION (5)**

In this fundamental course in communication between people, class sessions incorporate lectures with discussion and examples from popular culture and media. The focus of this course is on direct application of basic communication concepts essential to our daily lives. Topics include perception, gender and culture and their effects on ourselves and others; self-expression and disclosure; friendship, family and dating; verbal and nonverbal cues and their meanings; listening; and conflict management. Attributes: Arts and Humanities B and Oral or Written Communication.

**COM 1321 PUBLIC SPEAKING (5)** Analyzes platform speaking; includes analysis, preparation and presentation of formal speeches. Includes rhetorical criticism of significant models. Recommended for students planning to major in communication; open to other students as well. Attributes: Arts and Humanities B and Oral or Written Communication.

**COM 1930 FORENSICS PRACTICUM (1-2)** Registration Approval: Instructor. Provides experience in co-curricular speech activities. Meets weekly by arrangement; individual coaching conferences. May be repeated for credit up to 12 credits. Class not open to juniors and seniors.

**COM 1931 COMMUNICATION PRACTICUM (1-2)** Registration Approval: Instructor. Provides field experience in communication activities with faculty guidance in selection, preparation and review; application to campus ministry teams, speakers' bureau and other contexts. May be repeated for credit up to 12 credits. Class not open to juniors and seniors.

**COM 2227 SMALL-GROUP DISCUSSION AND LEADERSHIP (5)**

Develops awareness of and experience in the processes of small, coaching group activity; examines and applies theories of structure, climate, roles, norms and leadership in planning and managing member participation. Explores group effort in fact-finding, problem-solving and decision making.

**COM 2323 ARGUMENTATION: ART OF INFERENCE (5)** Examines ambiguity, analysis, evidence, observation and inference; applies principles of reasoning to significant issues through extensive practice in public discourse, questioning, response to questions, refutation and negotiation.

**COM 3001 THEORIES OF COMMUNICATION (5)** Examines theories of human communication and introduces a range of research methodologies used in investigating and creating those theories. Prerequisite for COM 4142 and 4910. Attributes: Upper Division and Writing Course.

**COM 3160 CONFLICT MANAGEMENT (5)** Examines research in and techniques for conflict management. Includes theory, models and case studies in conflict in interpersonal, organizational and public contexts. Attribute: Upper Division.

**COM 3321 ADVANCED PUBLIC SPEAKING (5)** Prerequisite: COM 1301 or 1321, or permission of instructor. Advances application of speech principles to prepare public address for various contexts; provides individualized instruction in research, organization, composition, style and presentation. Attribute: Upper Division.

**COM 3322 PERSUASION: SOCIAL INFLUENCE AND RESPONSIBILITY (5)** Evaluates the role of persuasion in society; the role of symbolic persuasion; production and reception of persuasive messages; the persuasive event and the persuasive campaign; ethical questions in social influence. Attribute: Upper Division.

**COM 3628 FOUNDATIONS OF WESTERN RHETORIC (5)** Examines theories of communication and persuasion from ancient times to the fifth century A.D. Intensively studies selected Greek and Roman rhetorical treatises. Attributes: Upper Division and Writing Course.

**COM 3629 MODERN RHETORICAL THEORY (5)** Examines theories of communication and persuasion from the 15th century to the present, with special emphasis on European and American rhetorical theorists. Attributes: Upper Division and Writing Course.

**COM 3780 INTRODUCTION TO FILM (5)** The goal of this course is to develop students' abilities to view films critically and to deepen their understanding of the film experience. The course first teaches analysis of narrative strategies, shot properties, mise-en-scene, editing, acting and the use of sound in film, particularly classical Hollywood cinema. The course then focuses on the study of different genres of films and how they present ideological points of view and fulfill certain wishes of the spectator. Course Equivalent: TRE 3780. Attributes: Arts and Humanities A, Fine Arts Core and Upper Division. Class not open to freshmen.

**COM 3930 FORENSICS PRACTICUM (1-2)** Registration Approval: Instructor. Provides experience in co-curricular speech activities. Meets weekly by arrangement; individual coaching conferences. May be repeated for credit up to 12 credits. Attribute: Upper Division. Class not open to freshmen and sophomores.

**COM 3931 COMMUNICATION PRACTICUM (1-2)** Registration Approval: Instructor. Provides field experience in communication activities with faculty guidance in selection, preparation and review; application to campus ministry teams, speakers' bureau and other contexts. May be repeated for credit up to 12 credits. Attribute: Upper Division. Class not open to freshmen and sophomores.

**COM 4142 ADVANCED INTERPERSONAL COMMUNICATION (5)** Prerequisites: COM 1101 and 3001 or permission of instructor. Focuses on selected communication theories, research and application pertaining to romantic, friendship and family relationships. Attribute: Upper Division.

**COM 4177 COMMUNICATION ETHICS (5)** Uses case studies to explore ethical foundations of media practice and to test methods of moral reasoning. Case studies consider business pressures, deception, truth telling, fairness, privacy, responsibility and social justice in the news business; persuasion and truth telling in advertising and public relations; and the responsibilities of entertainment industries in areas such as taste, violence, gender and race. Attributes: Upper Division and Writing Course.

**COM 4180 CULTURAL COMMUNICATION (3)** Examines theory and literature of the ethnography of communication, with direct application in the description and analysis of language in its social context. Attribute: Upper Division.

**COM 4265 ORGANIZATIONAL COMMUNICATION (5)** Examines how communication functions within organizations and explores use of communication to improve employee relationships and organizational effectiveness. Attribute: Upper Division.

**COM 4323 PERFORMING LITERATURE (5)** Analyzes literary works for the purpose of presenting them in oral performance; provides opportunities for guided practical experience in storytelling, lyric poetry and dramatic reading. Attribute: Upper Division. Class not open to freshmen.

**COM 4607 CRITICISM OF PUBLIC ADDRESS (5)** Applies rhetorical theories to historical and contemporary political, social and religious oratory. Treats the speech as historical document, cause of social change and refiner of theory. COM 3628 or 3629 is strongly recommended before registration for COM 4607. Attributes: Upper Division and Writing Course.

**COM 4900 INDEPENDENT STUDY (1-5)** Registration Approval: Independent Study Agreement. Individual research and conferences in area of specialization. May be repeated for credit up to 15 credits. Attribute: Upper Division. Class not open to freshmen and sophomores.

**COM 4910 COMMUNICATION SEMINAR (1-5)** Prerequisites: Completion of 15 credits in communication major; and COM 3001. Senior capstone course in the communication studies track. Attribute: Upper Division. Class not open to freshmen and sophomores.

**COM 4930 INSTRUCTIONAL PRACTICUM (1-5)** Registration Approval: Instructor. Provides selected students with experience as undergraduate teaching assistants in lower-division courses. May be repeated for credit two times. Attribute: Upper Division. Class open to communication majors.

**COM 4940 COOP EDUCATION: INTERNSHIP IN COMMUNICATION (1-5)** Registration Approval: Intern Learning Contract Req. Prerequisites: 15 credits of "B" work in communication an approved internship plan and COM 3001. Provides supervised application of interpersonal and public communication skills in the marketplace. May be repeated for credit up to 5 credits. Attribute: Upper Division.

**COM 4941 COOP EDUCATION: INTERNSHIP IN COMMUNICATION (1-5)** Registration Approval: Intern Learning Contract Req. Prerequisites: 15 credits of "B" work in communication; an approved internship plan; COM 3001. Provides supervised application of interpersonal and public communication skills in the marketplace. May be repeated for credit up to 5 credits. Attribute: Upper Division.

**COM 4950 ADVANCED TOPICS IN COMMUNICATION (1-5)** Explores selected topics in communication, with emphasis on theories and research not normally examined in regular curriculum. Offered occasionally with specific topics identified in Time Schedule. May be repeated for credit up to 15 credits. Attribute: Upper Division.

**Journalism Courses**

**JRN 2101 INTRODUCTORY NEWSWRITING (4)** Develops basic writing skills essential for success in mass media. Topics include outlining basic structure of news business; writing leads; organizing stories; using Associated Press style; utilizing grammar and punctuation; developing interview techniques; covering speeches and press conferences. Class not open to freshmen.

**JRN 2202 PUBLIC AFFAIRS REPORTING (4)** Prerequisite: JRN 2101 Develops basic reporting skills while continuing instruction in news writing. Encourages students to develop their own stories through document, online and human sources. Discusses both hard-news and feature-writing styles.

**JRN 2203 EDITING AND DESIGN (4)** Develops basic skills in editing and publication design of print media. Topics include copyediting; story and page design; headline writing; photo captions; photo sizing and cropping; proper use of graphics.

**JRN 2801 NEWSPAPER PRODUCTION (2)** Registration Approval: Instructor. Laboratory for the student newspaper, the yearbook and other student publications. Students work under editors in a variety of production phases with access to a faculty advisor. Only 6 credits of JRN 2801, 2802, 2803, 3930, 3931 and 3932 total may be applied to the JRN track or minor. May be repeated for credit five times.

**JRN 2802 NEWSPAPER PRODUCTION (2)** Registration Approval: Instructor. Laboratory for the student newspaper, the yearbook and other student publications. Students work under editors in a variety of production phases with access to a faculty advisor. Only 6 credits of JRN 2801, 2802, 2803, 3930, 3931 and 3932 total may be applied to the JRN track or minor. May be repeated for credit five times.

**JRN 2803 NEWSPAPER PRODUCTION (2)** Registration Approval: Instructor. Laboratory for the student newspaper, the yearbook and other student publications. Students work under editors in a variety of production phases with access to a faculty advisor. Only 6 credits of JRN 2801, 2802, 2803, 3930, 3931 and 3932 total may be applied to the JRN track or minor. May be repeated for credit five times.

**JRN 3301 MEDIA LAW (5)** Explores all major areas of media law, their significance for society and the new challenges posed by cyberspace. Topics include First Amendment and the meaning of free expression; prior restraint; hate speech; libel; invasion of privacy; freedom of information; protection of news sources; free press/fair trial; obscenity and indecency; copyright; advertising and telecommunications regulation. Attribute: Upper Division.

**JRN 3355 THE PUBLIC AND THE MEDIA (5)** Applies relevant theories of mass communication to significant issues of media performance, informed by the historical development of industry structures, professional practices and changing technologies. Topics include journalism in the age of print, TV and cyberspace; propaganda, persuasion and media influence in the world of public relations and advertising; TV, cable, music, film and controver-

sies over race, gender, violence, obscenity and children's programming; and emerging questions about the impact of the information superhighway. Attribute: Upper Division.

**JRN 3930 PUBLICATION EDITOR PRACTICUM (1-3)** Registration Approval: Instructor. Provides opportunity for application of writing, editing and production skills in leadership roles in student publications. Open only to those officially selected for positions. No more than 6 credits of Publication Editor Practicum and Newspaper Production total may count toward the JRN track or minor. May be repeated for credit up to 6 credits. Attribute: Upper Division.

**JRN 3931 PUBLICATION EDITOR PRACTICUM (1-3)** Registration Approval: Instructor. Provides opportunity for application of writing, editing and production skills in leadership roles in student publications. Open only to those officially selected for positions. No more than 6 credits of Publication Editor Practicum and Newspaper Production total may count toward the JRN track or minor. May be repeated for credit up to 6 credits. Attribute: Upper Division.

**JRN 3932 PUBLICATION EDITOR PRACTICUM (1-3)** Registration Approval: Instructor. Provides opportunity for application of writing, editing and production skills in leadership roles in student publications. Open only to those officially selected for positions. No more than 6 credits of Publication Editor Practicum and Newspaper Production total may count toward the JRN track or minor. May be repeated for credit up to 6 credits. Attribute: Upper Division.

**JRN 4900 INDEPENDENT STUDY (1-5)** Registration Approval: Independent Study Agreement. May be repeated for credit up to 15 credits. Attribute: Upper Division. Class open to juniors and seniors.

**JRN 4910 JOURNALISM SEMINAR (4)** Senior capstone course in the journalism track. Assignments include a final journalism portfolio and papers dealing with the relationship between Christian faith and journalism ethics. Attribute: Upper Division. Class open to communication majors. Class not open to freshmen and sophomores.

**JRN 4920 DIRECTED READINGS (1-5)** Registration Approval: Independent Study Agreement. Attribute: Upper Division.

**JRN 4940 COOP EDUCATION: JOURNALISM INTERNSHIP (1-5)** Registration Approval: Intern Learning Contract Req. Applies journalism skills in various employment settings. Students may suggest their own internships in consultation with the faculty supervisor as long as journalism skills are used and other internship criteria are met. No more than 5 of such credits may apply toward a journalism minor. May be repeated for credit up to 5 credits. Course Equivalent: ENG 4940. Attribute: Upper Division. Class open to juniors and seniors.

**JRN 4941 COOP EDUCATION: JOURNALISM INTERNSHIP (1-5)** Registration Approval: Intern Learning Contract Req. Applies journalism skills in various employment settings. Students may suggest their own internships in consultation with the faculty supervisor as long as journalism skills are used and other internship criteria are met. No more than 5 such credits may apply toward a journalism minor. May be repeated for credit up to 5 credits. Course Equivalent: ENG 4941. Attribute: Upper Division. Class open to juniors and seniors.

**Faculty**

**Lorelle Jabs**, *Assistant Professor of Communication*; B.S., Oregon State University, 1986; M.S., 1988; Ph.D., University of Washington, 1997. At SPU since 2000.

**Richard Jackson**, *Instructor of Journalism*; B.A., Pennsylvania State University, 1977; M.A., University of Washington, 1995. At SPU since 1995.

**William Purcell**, *Associate Professor of Communication*; B.A., Auburn University, 1976; M.A., University of Alabama, 1983; Ph.D., Indiana University, 1986. At SPU since 1995.

**Todd D. Rendleman**, *Assistant Professor of Communication*; B.A., University of Illinois, Urbana-Champaign, 1992; M.A., 1994; Ph.D., 1999. At SPU since 1999.

**Debra L. Sequeira**, *Professor of Communication*; *Chair of Communication*; B.A., San Francisco State University, 1976; M.A., 1978; Ph.D., University of Washington, 1987. At SPU 1978-85 and since 1990.

# Computer Engineering

See Engineering

## Computer Science

Miller Science Learning Center  
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www.spu.edu/depts/csc/

**Michael H. Tindall**, Chair, **Charles Burris**, **Philip Prins**, **Elaine Weltz**

Computer science is the discipline that studies the representation, storage and transformation of information utilizing automatic computing machines. The computer scientist is interested in developing computer software and hardware to analyze data and solve problems. In addition to understanding the organization and operation of modern computer systems, knowledge of the problems and applications in a related discipline is highly recommended.

The Department of Computer Science is dedicated to educating and preparing students for a variety of careers in business, scientific and engineering computing. We seek to provide a broad program of studies in theoretical and applied computer science informed by a Christian worldview, graduating students who are equipped for continued professional development and service.

Both bachelor of science (B.S.) and more application-oriented bachelor of arts (B.A.) degree options are available. A variety of computing equipment is available to SPU to support coursework and independent study activities. A fiber-optic Ethernet network links all parts of the campus computing environment. The open student laboratory contains about 30 Pentium/Athlon Windows PC systems, each connected to the Ethernet and with access to printers and appropriate software packages.

It is recommended that students majoring in computer science obtain their own Windows-compatible machine to gain the full experience of configuring and maintaining a computer system. A suitable system would be based on a fast Pentium or Athlon processor with 256 MB memory, a 20.0 GB hard drive, modem and printer. Software should include Windows 2000 or Windows XP, Microsoft Visual C/C++ Version 6 (or later) and a word processor (such as Microsoft Word). Some courses may require other software that will be available in the student laboratory or for separate purchase. Most recommended software is available with educational pricing through the Computer and Information Systems Department or at the SPU Bookstore.

**Preliminary Prerequisites.** High school pre-calculus or math analysis is required.

**Admission and GPA Requirement.** A minimum 2.5 GPA (cumulative in all courses required for the major taken at SPU) is required for admission to the major. Additionally, a minimum 2.0 ("C" grade) must be earned in CSC 2430, and a minimum 1.7 ("C-" grade) must be earned in each other course required for the major.

**Recommended for all degree options.** Because writing and communication skills are very important for computer scientists, the following courses are recommended for all students majoring or minoring in computer science: ENG 3205 Writing in the Professions, COM 1101 Introduction to Interpersonal Communications.

### Requirements for the B.S. in Computer Science Major

(106 credits; 45 upper division)

(Refer to chart on page 108.)

(Refer to page 64 for a summary of degree requirements.)

The B.S. major is the traditional degree in computer science. It provides preparation for graduate studies or professional careers in computer science, with an emphasis on scientific and engineering applications.

### Requirements for the B.A. in Computer Science Major

(Refer to page 64 for a summary of degree requirements.)

The B.A. major is an applications-oriented degree in computer science. Each option provides preparation for professional careers in computing, with a specific emphasis on an area of applications.

#### B.A. - Business Option

(85 credits; 37-42 upper division)

(Refer to chart on page 108.)

This option combines preparation in the core areas of computer science with additional emphasis on business organizations, accounting, finance and marketing.

#### B.A. - Computer Systems Option

(83 credits; 40 upper division)

(Refer to chart on page 108.)

This option provides a thorough preparation in the topics and applications of computer science.

#### B.A. - Computer and Information Technology Option

(65 credits plus specialization; 32 upper division in core)

(Refer to chart on page 108.)

This option combines preparation in the core areas of computer science with an approved CIT specialization. See computer science advisor for details.

#### Computer Science Evening Track

Evening and late afternoon scheduling of computer science courses provides flexibility in completion of a computer science or professional studies degree. Contact the computer science evening major coordinator at (206) 281-2140 for information regarding scheduling for the coming year.

### Related Degree Programs

**B.S. in Computational Mathematics.** Combines computational and applied mathematics with a strong base in computer science. For more information, refer to the information under Mathematics.

**B.S. in Computer Engineering.** Combines strong bases in computer science, digital electronics and engineering. For more information, refer to the information in under Engineering.

### Requirements for the Computer Science Minor

(35 credits; 15 upper division)

#### Core Courses

CSC 1230 Problem Solving and Programming .....	5
CSC 2430 Data Structures and Programming .....	5
CSC 2431 Data Structures II .....	5
Electives	
CSC 3000 - CSC 4999 .....	15
Mathematics Select one of the following:	
MAT 1221 Survey of Calculus (5)	
MAT 1225 Calculus (5)	
MAT 1360 Introduction to Statistics (5)	
BUS 2700 Statistics for Business and Economics (5) .....	5
<b>Total .....</b>	<b>35</b>

### Course Descriptions

**CSC 1120 INTRODUCTION TO THE COMPUTER (1)** Explores how to use a (Window-based) computer. Description of computer hardware components; basics of the windowing environment, including the file system, running applications, editing messages and documents, and printing; also the effects of computers in society.

**CSC 1121 INTERNET AND E-MAIL (1)** Prerequisite: CSC 1120 or equivalent experience. Explores the following topics: networks, electronic mail and the Internet. How to get an e-mail account; logging onto and off of a computer; using the full capabilities of e-mail; participating in newsgroups; downloading files using FTP; and using the World Wide Web and the Internet.

**CSC 1122 WORD PROCESSING (1)** Prerequisite: CSC 1120 or equivalent. What is "Word Processing"? Creating, modifying, saving and printing documents. Formatting and enhancing a document. Using columns, tables, footnotes, pictures and drawings. Using document "proofing" tools, such as spelling and grammar checkers and a thesaurus.

**CSC 1123 SPREADSHEETS (1)** Prerequisite: CSC 1120 or equivalent. What is a "Spreadsheet"? This course covers creating, modifying, saving and printing spreadsheet documents; entering and using formulas and calculations; editing and importing data; incorporating graphs; and formatting and enhancing the appearance of a spreadsheet document. Course Equivalent: BUS 1700.

**CSC 1124 DATABASES (1)** Prerequisite: CSC 1120 or equivalent. What is a "Database" and a relational database management system? Designing a database. Defining tables. Defining and editing fields. Entering and editing data. Creating and using queries using one or more tables. Creating, formatting, and enhancing forms and reports.

**CSC 1126 PRESENTATION MANAGERS (1)** Prerequisite: CSC 1120 or equivalent. What is a "Presentation Manager"? Covers designing an effective presentation; creating and editing slides; incorporating pictures, drawings and "graphics"; rearranging topics and slides; formatting and enhancing the look of a presentation; estimating the timing and sequencing of a presentation; printing notes and handouts.

**CSC 1130 BEGINNING PROGRAMMING (5)** Prerequisite: CSC 1120 or equivalent, two years of high school algebra. Covers designing a computerized solution to a problem, the software development lifecycle, and structured programming concepts and skills. Provides an introduction to a modern programming language.

### CSC 1230 PROBLEM SOLVING AND PROGRAMMING (5)

Prerequisites: High school pre-calculus, math analysis or equivalent, demonstrable computer literacy. Introduction to computer science. Covers problem-solving methods and algorithm development, modern programming methodologies and fundamentals of a high-level block structured language.

### CSC 1800 SPECIAL TOPICS IN COMPUTER USAGE (1-3)

Prerequisite: CSC 1120 or equivalent. Presentation of a topic of current interest in computer usage. Topics may vary between offerings. May be repeated for credit up to 5 credits.

### CSC 2220 SCIENTIFIC AND ENGINEERING PROGRAMMING (3)

Prerequisites: MAT 1221 or MAT 1225, CSC 2430. Explores fundamentals of computer programming and problem solving for engineering and science students.

**CSC 2221 PROGRAMMING TECHNIQUES (3)** Prerequisite: CSC 2430. An implementation-oriented look at software development techniques used to create interactive applications, focusing on the use of object-oriented libraries to create user interfaces. Topics include event-driven programming, human-computer interaction (HCI), graphical user interfaces (GUI), database interfaces and tools for interface prototyping.

**CSC 2224 OBJECT ORIENTED PROGRAMMING (3)** Prerequisite: CSC 2430. Introduces the object-oriented programming methodology, languages and systems. Examines encapsulation, classes, inheritance and polymorphism.

**CSC 2430 DATA STRUCTURES I (5)** Prerequisite: CSC 1230 or equivalent. Develops discipline in program design, style, debugging, testing. Introduces object-oriented design, with classes, methods and encapsulation. Introduces dynamic storage allocation and pointers. Examines arrays, linked linear data structures and recursion.

**CSC 2431 DATA STRUCTURES II (5)** Continuation of CSC 2430. Linked data structures, including trees and other non-linear representations. Introduction to graphs and networks. Explores external data structures and techniques necessary for implementing different file organizations. Covers methods of organizing and accessing data on secondary storage devices (indexing, trees and hashing).

**CSC 2950 TOPICS IN COMPUTER SCIENCE (1-5)** Registration Approval: Instructor. An introductory course studying a special interest topic in computer science. Topics and credits may vary between offerings. May be repeated for credit up to 99 credits. Class open to freshmen and sophomores.

**CSC 2951 DIRECTED STUDY: C++ PROGRAMMING (2)** Prerequisite: Previous programming language experience. Presents fundamentals of the C++ programming language. Offered as a directed-study, instructor-arranged course.

**CSC 3150 SYSTEMS DESIGN (5)** Prerequisite: CSC 2431, may be taken concurrently. Surveys issues and tools used in the analysis and design of software systems. Topics include requirements gathering; feasibility, process and data analysis; and architecture, user-interface and program design. Measures for the evaluation of specifications and designs. Attributes: Upper Division and Writing Course.

**CSC 3310 CONCEPTS IN PROGRAMMING LANGUAGES (4)** Prerequisite: CSC 2431 and (CSC 2220 or CSC 2221 or CSC 2224). Explores organization and structure of programming languages; run-time behavior and requirements of programs; and programming language specification. Attribute: Upper Division.

**CSC 3350 SYSTEMS PROGRAMMING (4)** Prerequisites: CSC 2431 and either CSC 3750 or CSC 3760 or CPE 3760 or EE 3760. Introduction to operating systems and systems programming. Surveys systems software; operating system interface and functions; utilities and shell programming; linkers and loaders; translators; and processes, concurrency and concurrent programming. Course Equivalent: CPE 3350. Attribute: Upper Division.

**CSC 3430 ALGORITHM DESIGN AND ANALYSIS (4)** Prerequisites: CSC 2431 and (MAT 1360 or MAT 2376), and (MAT 1720 or MAT 2720) and (MAT 1221 or MAT 1225). Covers the design and analysis of algorithms for searching, sorting, string processing, table management and graphs. Includes principles of computational complexity and analysis. Attribute: Upper Division.

**CSC 3750 COMPUTER ARCHITECTURE AND ORGANIZATION (5)** Prerequisites: CSC 2431 (concurrent registration allowed), and MAT 1720 or 2720. Digital logic, computer structure, machine language, addressing, use and operation of assemblers, micro-architectures, instruction formats and the memory hierarchy. Attribute: Upper Division.



Required Courses	B.S.	B.A. Systems	B.A. Business	B.A. Comp and Info Tech
CSC 1230 Problem Solving and Programming	5	5	5	5
CSC 2221 Programming Techniques			3	
CSC 2220 Scientific Programming or CSC 2221 Programming Techniques or CSC 2224 Object Oriented Programming	3	3		3
CSC 2430 Data Structures I	5	5	5	5
CSC 2431 Data Structures II	5	5	5	5
CSC 3150 Systems Design	5	5	5	5
CSC 3310 Concepts in Programming Languages	4	4	4	4
CSC 3350 Systems Programming	4	4	4	4
CSC 3430 Algorithm Design and Analysis	4	4	4	4
CSC 3750 Computer Architecture		5	5	5
CSC 3760 Computer Organization	5			
CSC Electives (CSC 4000 - CSC 4899)	16	16	8	8
CSC 4990 Senior Capstone in CSC	2	2	2	2
MAT 1720 Math for Computer Science		5	5	5
MAT 1360 Introduction to Statistics		5	5	5
MAT 1221 Survey of Calculus or MAT 1225 Calculus			5	5
MAT 1225 Calculus	5	5		
MAT 1226 Calculus	5	5		
MAT 1228 Series and Differential Equations	5	5		
MAT 2375 Probability Theory	3			
MAT 2376 Applied Statistics	2			
MAT 2720 Discrete Mathematics	3			
PHY 1121, 1122, 1123 Physics	15			
EE 1210 Logic System Design	5			
EE 3280 Microcontroller System Design	5			
ECN 2101 Microeconomics			5	
ACCT 2361 Financial Accounting			5	
ACCT 2362 Managerial Accounting or BUS 3250 Business Finance			5	
BUS 3541 Marketing and Society or BUS 3614 Organizational Behavior			5	
Computer and Information Technology Specialization				Varies
Total Upper-division Credits Required	45	40	37-42	32+ specialization
<b>Total Credits Required</b>	<b>106</b>	<b>83</b>	<b>85</b>	<b>65 + specialization</b>

**CSC 3760 COMPUTER ORGANIZATION AND ASSEMBLY LANGUAGE (5)** Prerequisites: CSC 2430 and EE 1210. CSC 2431 is recommended. Study of organization and structuring of the major hardware and software components of computers. Includes mechanics of information transfer and control within a digital computer system. Introduces computer architecture, machine instruction sets and assembly language programming. Course Equivalents: CPE 3760 and EE 3760. Attribute: Upper Division.

**CSC 3900 INDEPENDENT STUDY IN COMPUTER SCIENCE (1-5)** Registration Approval: Independent Study Agreement. Independent study and research in an advanced computer science topic. May be repeated for credit up to 10 credits. Attribute: Upper Division.

**CSC 3930 PRACTICUM IN COMPUTER SCIENCE (1-5)** Registration Approval: Instructor. Studies applied computer science.

Typically involves academic systems programming, teaching, grading, lab preparation of tutoring responsibilities. Includes an assessment of Christian service issues or experiences. May be repeated for credit up to 10 credits. Attribute: Upper Division.

**CSC 3940 INTERNSHIP IN COMPUTER SCIENCE (1-5)** Registration Approval: Intern Learning Contract Req. Provides a significant learning experience to be obtained in a supervised work-study environment. Typically involves work in systems analysis and design, advanced applications or systems programming. Includes an assessment of Christian service issues or experiences. May be repeated for credit up to 10 credits. Attribute: Upper Division.

**CSC 3950 TOPICS IN COMPUTER SCIENCE (1-5)** Registration Approval: Instructor. Advanced or special interest topics in computer science. May be repeated for credit up to 10 credits. Attribute: Upper Division.

**CSC 3960 PROJECT IN COMPUTER SCIENCE (1-5)** Registration Approval: Instructor. Independent work on a significant project in computer science. May be repeated for credit up to 10 credits. Attribute: Upper Division.

**CSC 4150 SOFTWARE ENGINEERING (4)** Prerequisite: CSC 2431 and 3150. Covers topics in software engineering, including team programming, project planning and management, SDLC (software development lifecycle) and software quality assurance. Surveys automated tools for use in software engineering. Course requirements include the design and implementation of a major software project. Course Equivalent: CPE 4150. Attribute: Upper Division.

**CSC 4210 THEORY OF COMPUTATION AND ALGORITHM (4)** Prerequisites: CSC 3430 and either CSC 3750 or CSC 3760 or CPE 3760 or EE 3760. Introduction to theoretical topics in computer science. Includes formal languages, automata and parsing, computational complexity, analysis of algorithms, computability, and program correctness and verification. Attribute: Upper Division.

**CSC 4310 COMPILER DESIGN (4)** Prerequisites: CSC 3310 and 4210. Studies programming language translation and compiler design concepts; language recognition, symbol table management, semantic analysis and code generation. Attribute: Upper Division.

**CSC 4350 OPERATING SYSTEMS (4)** Prerequisite: CSC 3350 or CPE 3350. Introduces the major functions of operating systems. Covers processes and concurrency; concurrent programming; resource allocation, contention and control; scheduling, memory management and device management. Course Equivalent: CPE 4350. Attribute: Upper Division.

**CSC 4410 DATABASE MANAGEMENT (4)** Prerequisites: CSC 2431 and 3150. Introduces database concepts: data models; data description and data manipulation languages: query facilities; data security, integrity and reliability. Primary emphasis on relational data model; includes the design and implementation of database applications using a relational DBMS. Attribute: Upper Division.

**CSC 4510 GRAPHICAL USER INTERFACE DESIGN AND PROGRAMMING (4)** Prerequisite: CSC 3350 or CPE 3350. Introduction to programming in the Windows GUI environment. Comparison to other GUI environments. Attribute: Upper Division.

**CSC 4750 COMPUTER NETWORKS (4)** Prerequisites: CSC 3750 or CSC 3760 or CPE 3760 or EE 3760. Recommended: CSC 2431. Studies concepts and terminology of computer networks, equipment and protocols. Emphasis is on local area networks. A laboratory project is required. Attribute: Upper Division.

**CSC 4760 ADVANCED COMPUTER ARCHITECTURE (4)** Prerequisite: CSC 3750 or CSC 3760 or CPE 3760 or EE 3760. Recommended: CSC 2431. Studies the architecture of multiprocessor, vector, pipelined and parallel computers. Emphasis placed on principles of parallelism and their application. State-of-the-art super computers are discussed. Course Equivalent: CPE 4760. Attribute: Upper Division.

**CSC 4800 ADVANCED ISSUES IN COMPUTER SCIENCE (4)** An advanced course studying a special interest topic in computer science. Topics and credits may vary between offerings. Computer science minors may take this course with instructor approval. May be repeated for an unlimited number of credits. Attribute: Upper Division. Class open to computer science majors.

**CSC 4810 ADVANCED ISSUES IN COMPUTER SCIENCE (4)** An advanced course studying a special interest topic in computer science. Topics and credits may vary between offerings. Computer science minors may take this course with instructor approval. May be repeated for an unlimited number of credits. Attributes: Upper Division and Writing Course. Class open to computer science majors.

**CSC 4899 ETHICAL AND SOCIAL ISSUES IN COMPUTER SCIENCE (3)** Covers ethical, social and societal impact issues with which computer professionals must deal. Topics include such areas as invasion of privacy, computer crime, intellectual property, software theft, computer security, ethics in the workplace and artificial intelligence. Class format is a combination of lecture and discussion. Computer science minors may take this course with instructor approval. Attributes: Upper Division and Writing Course. Class open to computer science majors. Class not open to freshmen and sophomores.

**CSC 4900 INDEPENDENT STUDY IN COMPUTER SCIENCE (1-5)** Registration Approval: Independent Study Agreement. Independent study and research in an advanced computer science topic. May be repeated for credit up to 15 credits. Attribute: Upper Division.

**CSC 4930 PRACTICUM IN COMPUTER SCIENCE (1-5)** Registration Approval: Instructor. Studies applied computer science. Typically involves academic systems programming, teaching, grading, lab preparation or tutoring responsibilities. Includes an assessment of Christian service issues or experiences. May be repeated for credit up to 8 credits. Attribute: Upper Division.

**CSC 4940 INTERNSHIP IN COMPUTER SCIENCE (1-5)** Registration Approval: Intern Learning Contract Req. Provides a significant learning experience to be obtained in a supervised work-study environment. Typically involves work in systems analysis and design, advanced applications or systems programming. Includes an assessment of Christian service issues or experiences. May be repeated for credit up to 8 credits. Attribute: Upper Division.

**CSC 4950 TOPICS IN COMPUTER SCIENCE (1-5)** Registration Approval: Instructor. An advanced course studying a special interest topic in computer science. Topics and credits may vary between offerings. May be repeated for credit up to 5 credits. Attribute: Upper Division. Class open to computer science majors. Class not open to freshmen and sophomores.

**CSC 4960 PROJECT IN COMPUTER SCIENCE (1-5)** Registration Approval: Instructor. Independent work on a significant project in computer science. May be repeated for credit up to 8 credits. Attribute: Upper Division.

**CSC 4990 SENIOR CAPSTONE IN COMPUTER SCIENCE (2)** This senior capstone course will explore topics and frontiers in computer science. Students will write a significant paper or design and implement an experimental project that investigates a current topic within the computer science discipline. Attribute: Upper Division. Class open to computer science majors. Class open to seniors.

**Faculty**

**Charles H. Burris Jr.**, Associate Professor of Computer Science; B.S., University of Utah, 1965; M.S., 1967; Ph.D., University of New Mexico, 1974. At SPU since 1982.

**Philip R. Prins**, Associate Professor of Computer Science; B.A. (Mathematics), Humboldt State University, 1976; B.A. (Botany), 1978; M.S. (Computer Science), University of Idaho, 1984; Ph.D. (Electrical Engineering), 1993, University of Idaho. At SPU since 1992.

**Michael H. Tindall**, Professor of Computer Science; Chair of Computer Science; B.S., Seattle Pacific College, 1971; M.S., Ph.D., University of Illinois at Urbana-Champaign, 1975. At SPU since 1980.

**Elaine V. Weltz**, Assistant Professor of Computer Science; B.A., Seattle Pacific College, 1974; M.MUS., University of Southern California, 1978; B.S., Seattle Pacific University, 1984., M.S.E., Seattle University, 1989. At SPU since 1984.

# Education, School of

Peterson Hall  
(206) 281-2214  
www.spu.edu/depts/soe/

**Lisa Bjork, Arthur Ellis, Susan Franklin, Patricia Hammill, Sharon Hartnett, Janine Jones, Eletta Kennison, Frank Kline, Linda Montgomery, Raymond Myers, William Nagy, Annette Robinson, William Rowley, Christopher Sink, Peter Smith, Richard Smith, David Steele, Nicole Swedberg, Sharon Young**

The mission of the Seattle Pacific University School of Education is to prepare educators for service and leadership in schools and communities by developing their professional competence and character within a framework of Christian faith and values. The vision of the Seattle Pacific University School of Education is to influence the region, the nation and the world through the preparation of educational leaders for public and private schools.

The primary purpose of the undergraduate program in the School of Education is to prepare competent teachers who integrate academic training and Christian faith with professional practice. School of Education programs are accredited by the National Council for Accreditation of Teacher Education (NCATE). Certification programs in the School of Education are also accredited by the Washington State Board of Education and meet residential requirements for state of Washington elementary and secondary teaching certificates. The basic certification programs in the School of Education reflect an underlying philosophy and knowledge base that permeates all courses and field experiences. This knowledge base consists of two elements: (1) the theoretical and philosophical foundations of education drawn from the social and behavioral sciences, and (2) the effective teaching and schooling research of the past decade. The five professional quarters of the basic programs are built on this knowledge base and reflect recent research on effective teaching. The following categories shape the competency base for the residency certification programs at SPU. These categories contain national, state and Seattle Pacific criteria for teacher competencies:

**Category I.** Establish and maintain a positive student-focused learning environment. Demonstrate sensitivity to human diversity in teaching and relationships with students, parents and the community.

**Category II.** Design and adapt challenging curriculum that is responsive to students' cognitive, social and moral development.

**Category III.** Use effective teaching practices.

**Category IV.** Use appropriate assessments to monitor and improve instruction.

**Category V.** Use information on student performance to advise and involve students and families; inform, involve and collaborate with families to support student success.

**Category VI.** Evaluate effects of a student's teaching through feedback and reflection. Establish goals for professional improvement.

**Category VII.** Demonstrate skills, knowledge and attitudes that contribute to professional, ethical behavior.

The School of Education also offers the following graduate programs: a doctorate of education; an education specialist degree in school psychology; and master's degrees in educational leadership, school counseling, and curriculum and instruction. Curriculum and instruction specializations are available in the areas of teaching and learning, reading/language arts and instructional technology. A master of arts in teaching with a secondary emphasis is also offered. For more information on SPU's graduate education programs, contact the School of Education directly at (206) 281-2214.

## Advising

Students must have competent academic advice in order to complete the residential certificate program in a timely manner. To assure the provision of such advice, the School of Education provides group and individual sessions with the certification coordinator. As soon as a student identifies a desire to be a teacher, he or she should make arrangements to attend a group session or make an appointment for advising by calling (206) 281-2214. Out of that advising session, a tentative advising schedule can be formed. In order to follow the advising schedule, all prerequisites must be completed before class limits are reached.

## Transfer Students

1. All transfer students must meet the requirements for admission to the School of Education. (A cumulative grade point average of 3.0, including work taken at SPU and other institutions or 3.3 in the last 45 credits of college or university work is required.)
2. Transfer students who desire to transfer courses required for certification should confer with the certification coordinator regarding course substitution requirements and procedures before they begin the program.
3. All transfer students must complete at least 14 credits, including professional courses, at SPU before being considered for admission to the School of Education.
4. All students must have an acceptable undergraduate major according to state program certification guidelines.
5. All transfer students are required to take the entire certification program at SPU. Any exceptions must be approved through the regular substitution or petition process of the School of Education. If any petitions are granted, a minimum of 26 credits must be completed as a regularly enrolled student at SPU, including the internship.

## School of Education Code of Ethics

As teachers perform their duties, they serve as role models exhibiting standards of behavior that are not only observed by the students they serve, but also often observed by colleagues, parents and members of the community. As visible models, teachers must be able to demonstrate a high standard of ethical behavior. In the School of Education, teachers are prepared for their place as members of the teaching profession, and as people who will live their lives through Christian principles, which gives additional meaning to the development of moral character. As students and emerging teachers, individuals will be honest and fair, and will treat others with respect and trust. The following specific behaviors apply as related to the individual's academic conduct and as an emerging teacher who will be teaching and reinforcing these behaviors in students:

- **Academic Work.** (1) The individual's academic work (such as papers, assignments, reports and tests) submitted shall be the student's own work or appropriately attributed in part or in whole to its correct source. (2) The individual will use only his or her own information and only authorized notes or study aids on an examination (i.e., it is unacceptable to use information from another student or another student's paper during an examination unless directed by the instructor to work with another student or in cooperative groups). (3) The individual will not alter a graded paper and submit it for re-grading unless asked to do so by the instructor. The individual will submit work that is only his or her own. This means that submission of commercially prepared materials as if they are one's own is unacceptable.
- **Research Procedures.** Data in a piece of work must be gathered in accordance with guidelines defining the appropriate methods for collecting and generating data and must be accompanied by an accurate account of the method by which data were gathered or collected.
- **Aiding Honesty in Others.** The individual will encourage honesty in others by refraining from providing materials or information to another person with knowledge that these materials or information will be used improperly.
- **Authenticity of Documents.** The individual will present only authentic documents and records such as transcripts, grade reports, letters of permission or recommendation, petitions or any document designed to meet or exempt the individual from an established requirement or regulation.

Students who break this code of ethics will be subject to disciplinary action that could include expulsion from the program. The course instructor and program administrator will determine the type and degree of disciplinary action. Their decision can be appealed to the dean.

## Moral Character and Personal Fitness Policy

Teacher certification programs at SPU include a number of experiences working closely with children in public and private schools. This confirms the belief that this is an

important opportunity for potential teachers to learn and to develop the skills necessary for successful teaching. It is the responsibility of the School of Education to provide prospective teachers with meaningful experiences in school settings. At the same time, the School of Education seeks to insure that the individuals who we send into the classrooms to work with children in the classroom are adequately prepared academically, and that they possess the desirable psychological and emotional characteristics for working with children.

The protection of children from inadequately trained individuals or from individuals of questionable moral, emotional or psychological stability is a paramount concern. Consequently, the School of Education reserves the right to refuse placement of any SPU student in a practicum setting (including Professional Quarter 2) if, in the professional judgment of School of Education faculty, there is a cause for concern about the fitness of that individual to work closely with children. Any SPU student registering for any School of Education course that involves working with children does so with the following understanding:

1. Admission to the course and subsequent placement with children may be denied if fitness for such a placement is questionable in the exclusive judgment of the University.
2. The student may be required to withdraw from the course, practicum experience or the certification program should the School of Education receive information during the course of a practicum placement that raises a concern about the fitness of the person to work in a setting with children.
3. Information received about the fitness of the student for working with children may be shared with the school district to determine if a placement can and should be made or continued.
4. Ultimately, the SPU School of Education cannot override school districts, and practicum placements are dependent on school district cooperation and subject to school district approval.
5. Denial of, or removal from, a practicum setting due to lack of fitness to work with children will result in a denial of admission to the teacher education program or in being dropped from a program if the student has already been admitted.
6. In addition to satisfying the requirements of SPU, in order to receive certification, good moral character and personal fitness must be established by each student with Washington state's Office of the Superintendent of Public Instruction, Office of Professional Practice.

## Residential Certification Program

**Frank Kline, Assistant Dean for Teacher Education**

The School of Education will recommend a candidate for the residential certificate in the state of Washington when he or she has acquired the following:

*"I believe teaching is a redemptive act. I think of it as love in action. The best teachers engage their students and create possibilities for their lives. This is how I define service."*

**Sharon Hartnett**  
Education



- Met the requirements of SPU for a B.A. or B.S. degree.
- Satisfactorily completed the professional education course sequence, internship requirements and major requirements for elementary level or secondary level certification.
- Completed requirements for an acceptable major according to state approved guidelines. Please consult the certification coordinator for acceptable majors.
- Completed the methods and skills courses.
- (Optional.) Presented a teaching minor to broaden the student's teaching area (secondary certificate only). Please consult the certification coordinator.
- Met evaluation criteria necessary for earning at least a 2.0 in all education methods courses and at least a 3.0 in all field experiences and internships (and/or student teaching).
- Been recommended by the School of Education according to professional standards and personal qualifications based upon SPU's academic goals.
- Made a formal application for the certificate. Application forms are available in the School of Education. The fee required by the state of Washington is payable at the School of Education Office.
- Completed the fingerprint process and received clearance by Washington state and FBI that is less than two years old.

The professional program in education at SPU consists of several parts, including:

- The Foundations Unit.** Professional Quarters 1 and 2 provide an overview of theory, pedagogy and educational issues along with some limited field experience.
- The Methods and Skills Courses.** Provide content breadth and depth.
- The Applications Unit.** Professional Quarters 3, 4 and 5 provide in-depth training in methods courses along with field experiences that culminate in a full-time internship.

## Foundations Unit: Professional Quarters 1 and 2, Elementary and Secondary

Sharon Hartnett, Chair  
Professional Quarter 1

This quarter presents an overview of instructional technologies, historical and philosophical foundations of education, and current educational issues and trends. Students explore practical and professional aspects of teaching through service learning, class presentations and by beginning the development of a professional portfolio. EDU 2103 Foundations of Education, Instruction and Classroom Management ..... 3  
EDTC 2235 Introduction to Educational Technology ..... 2

### Prerequisites to Professional Quarter 1\*

- Grade point average (GPA) must be 2.8 cumulative or 3.00 in the last 30 credit hours, including 3.00 in one quarter of at least a 12-credit load.
- Moral Character/Personal Fitness and Code of Ethics forms, as well as the state character and fitness supplement must be completed and filed in the School of Education office.
- Complete at least 45 credit hours (sophomore standing).

\*Verification of completion of prerequisites must be done prior to registering and prior to the first day of Professional Quarter 1 classes.

### Professional Quarter 2

This quarter is designed to provide the basic foundations for beginning teaching. It introduces the student to the area of educational psychology and the social ramifications of the schooling process. Students are placed in daily public school laboratory experiences that provide them an opportunity to immediately observe and apply their learning. This involves one-fourth of the school day; then they return to campus for classes and conferences related to the laboratory assignments. Students also continue the development of their professional portfolio. Laboratory students are expected to provide their own transportation to and from the school settings. Students are continually evaluated on cognitive, effective and professional qualities in addition to coursework throughout the program. At this point, there is a formal evaluation of these elements completed by faculty. Successful completion of the Foundations Unit with a favorable evaluation is required for admission to the School of Education.

EDU 3102 Applications of Educational Psychology .....	2
EDU 3104 Foundations of Multicultural Education .....	2
EDSP 3107 Exceptionality in the Classroom .....	2-3
EDU 3105 Laboratory Experience .....	3

### Prerequisites to Professional Quarter 2\*

- Satisfactory completion of Professional Quarter 1.
- Maintenance of the GPA required for entrance to Professional Quarter 1.
- Successful completion of the English, spelling and math competency tests. (SAT or ACT test scores, as outlined under Proficiency Testing Program elsewhere in this *Catalog* will meet the math competency for School of Education purposes, but not the English competency.) All education certification students must take the English test. (Check with the School of Education for specific requirements and alternatives if score is low.)
- Successful completion of PSY 1180 General Psychology (not more than five years before Professional Quarter 2) with a grade of "C" (2.0) or better. Another developmental psychology course may be substituted with permission from the certification coordinator.

\*Verification of completion of prerequisites must be done prior to registering and prior to the first day of Professional Quarter 2 classes.

### Admission to the School of Education

A student enrolling in Professional Quarter 1 is considered a tentative candidate for admission to the School of Education. During Professional Quarter 2, the student is asked to prepare a formal application for full admission to the School of Education, which may be considered only upon satisfactory completion of Professional Quarter 2. Upon formal admission to the School of Education and completion of the appropriate prerequisites, the student may continue the sequence of applications courses (Professional Quarters 3, 4 and 5).

To achieve admission to the School of Education, a candidate must achieve the following:

- Complete the foundations unit (Professional Quarters 1 and 2) and achieve a favorable recommendation from the foundations team (the foundations experience must be no more than five years old) for admission to Professional Quarters 4 and 5.
- Achieve a "B" average (3.0) in EDU 2102, 3103, 3104, EDSP 3107 (with no grade lower than "C") and 3.0 or above in EDU 3105 (A = 4.0).
- Achieve a cumulative GPA of at least 3.0 or have achieved a 3.3 GPA in the last 45 credits of college or university work.
- Achieve a specified competency level in basic skills tests as determined by the School of Education. (Check with the School of Education for tests required, testing policy and specific competency level requirements.)
- File appropriate Moral Character/Personal Fitness and Code of Ethics forms.
- Complete and submit the application form to the School of Education.
- Successfully plan and evaluate professional goals as required by the School of Education.
- File a formal application for internship indicating projected quarters of internship (Professional Quarters 4 and 5).

Deadline for admission to the School of Education are as follows:

- For autumn/winter internship - April 1
- For winter/spring internship - September 1
- For spring/autumn internship - January 15

### Methods and Skills Courses - Elementary

The student preparing for elementary teaching will complete, in addition to the academic major, elementary content and skills courses. These courses provide breadth in several academic areas including reading, mathematics, language arts, social science, physical education, health, science, and fine and applied arts. Students must earn a grade in the "C" range or better in each of the methods and skills courses to be recommended for certification.

Students should plan to use the courses to satisfy general education requirements in order to avoid the necessity of taking an excess of credits to satisfy graduation requirements. It is recommended that as many as possible of the methods and skills courses be completed

prior to internship. History of the Pacific Northwest is required by some school districts for teachers who teach history of the Pacific Northwest in the intermediate grades, junior high and high school; it is not required by the state of Washington for certification. Required courses in these areas are as follows:

ART 3546 Art Education .....	3
EDRD 4516 Children's Literature .....	3
PE 3510 Elementary Health and PE .....	4
MUS 3500 (a prerequisite for MUS 3501 and MUS 3502) .....	2
MUS 3501 Elementary Methods and Materials (3) or MUS 3502 Music in Special Education .....	3
Any college science course (3-5) .....	3-5
†LIN 2100 Foundations of Language Study .....	3
*MAT 2530 Survey of Mathematics I .....	3
*MAT 2531 Survey of Mathematics II .....	2
†EDRD 3529 Child Language Development and the Reading Process .....	3
<b>Total .....</b>	<b>29-31</b>

\*Must be taken prior to Professional Quarter 3.

†Must be taken prior to Professional Quarter 4.

(See course listings under appropriate school or department for a course description and any additional prerequisites.)

## Elementary Applications Unit: Professional Quarters 3, 4 and 5

Susan Franklin and Frank Kline, Co-chairs

These quarters involve both methods courses and a two- or three-quarter internship in state-approved school classrooms under the direction of both University and school supervisors. The purpose of the internship is to provide an extended experience in a teaching situation in which the student has opportunity to apply learning theory through active participation. These quarters should be taken during the senior year or as a post-baccalaureate student. The internship consists of observation and teaching duties in a public or an approved private school for two or three quarters, along with work in methods classes conducted by School of Education faculty. The intern not only works under, and is responsible to, the cooperating teacher and the principal of the assigned school, but the intern is also responsible to a Seattle Pacific University coordinator who gives professional guidance and evaluation. A grade of 3.0 or above in the internship is a prerequisite to recommendation for a teaching certificate.

### Admission to Elementary Applications Unit: Professional Quarters 3, 4 and 5

To achieve admission to the Elementary Applications Unit for SPU the student must do the following:

- Be admitted to the School of Education and maintain eligibility and good standing in the School of Education. If the foundations coursework is more than five years old, there will be an additional requirement to update that experience.

- Maintain a 3.0 average following Professional Quarter 2.
- Achieve senior or post-baccalaureate standing.
- Complete MAT 2530, MAT 2531 (before Professional Quarter 3) and LIN 2100 and EDRD 3529 (before Professional Quarter 4).
- Complete at least 15 upper-division credits in an approved major.
- Participate in a placement interview with a designated member of the elementary team.
- Receive fingerprint clearance. (Complete the filing process by the beginning of Professional Quarter 3 and be cleared by the beginning of Professional Quarter 4.)

The schedule of courses for the Applications Unit is as follows:

EDU 3942 September Experience .....	1
(To be completed during the first September after Professional Quarter 2.)	

**Professional Quarter 3**

*(Must be taken concurrently.)*

EDSC 4234 Science Methods: Elementary Emphasis .....	3
EDMA 4232 Mathematics Methods:	
Elementary Emphasis .....	3
EDU 3542 Field Experience: Elementary	
Math and Science .....	2

**Internship Placement and Supervision Policy**

Students anticipating teaching internships should be aware of School of Education school-site placement policy.

- Internship sites will be selected from districts near Seattle Pacific University that have contractual internship agreements with SPU. In an effort to facilitate supervision, attempts will be made to place groups of interns near each other.
- Interns will be placed in settings that are new to them in an effort to broaden their school experience. Schools where interns have been students or parents of students, volunteers, aides or coaches will not generally be considered.
- Since internships must be arranged in cooperation with school personnel, the School of Education cannot guarantee that an internship will be provided in a certain quarter. Every attempt will be made to assign students to their preferred quarters as space permits.
- Internships not directly supervised by SPU School of Education faculty will not be provided.

**Internship Professional Expectations**

- Interns will be responsible for filing written notification of any changes in their internship plans at least three weeks prior to the first quarter of the scheduled internship. Failing to do so will result in a penalty of \$70.

- It is strongly recommended that students not be employed during Professional Quarters 4 and 5 because of the time and professional demands of the internship program. In addition, students may not enroll in courses other than the requirements of Professional Quarters 4 and 5.
- Interns are expected to provide their own transportation to the internship school sites.

**Professional Quarter 4**

*(Must be taken concurrently.)*

EDU 4230 Elementary General Methods .....	2
EDRD 4231 Reading, Language Arts Methods .....	3
EDU 4233 Social Studies Methods:	
Elementary Emphasis .....	3
EDU 4941 Internship A .....	9
	17

**Professional Quarter 5**

*(Must be taken concurrently.)*

EDU 4942 Internship B .....	15
EDU 4800 Teacher As Person .....	2
Methods and Skills Courses - Secondary	
EDU 4530 Reading and Writing	
Across the Curriculum .....	2

**Major Subject Methods Courses**

The student chooses the appropriate methods course(s) from the following according to the major or primary endorsement area. It is suggested that the appropriate methods course also be taken for supporting endorsements. Methods courses will be accompanied by a 1-credit field experience to be taken concurrently unless the student is student teaching during their methods quarter. It is strongly suggested that the methods courses be taken as close to Professional Quarter 4 as possible.

- Art: ART 3546 and 3547, Elementary and Secondary Art Methods (3 credits each)
  - \*English: EDU 3361 Secondary English Methods (3)
  - Family Consumer Science: FCS 4511 Curriculum and Evaluation in FCS Edu. (3)
  - Foreign Languages: LIN 2100 Foundations of Language Study and LIN 4365 Methods of Foreign Language Education (3 credits each)
  - \*Mathematics: EDMA 3357 Teaching Secondary Mathematics (3)
  - Music: MUS 3503 General Music Methods, MUS 3504 Choral Music Methods, and MUS 3505 Instrumental Music Methods (3 credits each)
  - Physical Education: PE 3510 and 3515 Elementary and Secondary Physical Education Methods (4 and 5 credits)
  - \*Science: EDSC 3359 Teaching Secondary Science (3)
  - \*Social Studies: EDU 4364 Teaching Secondary Social Studies (3)
- \*The prerequisite to these courses is successful completion of Professional Quarters 1 and 2.*

**Secondary Applications: Professional Quarters 3, 4 and 5**

Ray Myers, Chair

**Admission to Secondary Applications: Professional Quarters 3, 4 and 5**

To achieve admission to the Secondary Applications Program the student must complete the following:

- Be admitted to the School of Education and maintain eligibility and good standing in the School of Education. If the foundations coursework is more than five years old, there will be an additional requirement to update that experience.
- Maintain a 3.0 average following Professional Quarter 2.
- Achieve senior or post-baccalaureate standing.
- Complete at least 15 upper-division credits in the major.
- Get written recommendations from two SPU professors who teach in their major. These must be filed with the School of Education before registration for Professional Quarter 3 (form supplied by the School of Education).
- Participate in a placement interview with a designated member of the elementary team.
- Receive fingerprint clearance. (Complete the filing process by the beginning of Professional Quarter 3 and be cleared by the beginning of Professional Quarter 4.)

*Note: Students will be contacted by secondary education at the appropriate time regarding item 6.*

The schedule of courses for the Applications Unit is as follows: It is strongly recommended that Professional Quarter 3 be taken as close to Professional Quarters 4 and 5 as possible; Professional Quarters 4 and 5 must be taken in consecutive quarters.

EDU 3942 September Experience .....	1
<i>(To be taken the first September after Professional Quarter 2.)</i>	

**Professional Quarter 3**

*(Must be taken concurrently.)*

EDU 4240 General Methods: Teaching Secondary .....	3
EDU 4530 Topics in Secondary Education .....	2

**Internship Placement and Supervision Policy**

Students anticipating teaching internships should be aware of School of Education school-site placement policy.

- Internship sites will be selected from districts near Seattle Pacific University that have contractual internship agreements with SPU. In an effort to facilitate supervision, attempts will be made to place groups of interns near each other.

- Interns will be placed in settings that are new to them in an effort to broaden their school experience. Schools where interns have been students or parents of students, volunteers, aides or coaches will not generally be considered.
- Since internships must be arranged in cooperation with school personnel, the School of Education cannot guarantee that an internship will be provided in a certain quarter. Every attempt will be made to assign students to their preferred quarters as space permits.
- Internships not directly supervised by SPU School of Education faculty will not be provided.

**Internship Professional Expectations**

- Interns will be responsible for filing written notification of any changes in their internship plans at least three weeks prior to the first quarter of the scheduled internship. Failing to do so will result in a penalty of \$70.
- It is strongly recommended that students not be employed during Professional Quarters 4 and 5 because of the time and professional demands of the internship program. In addition, students may not enroll in courses other than the requirements of Professional Quarters 4 and 5.
- Interns are expected to provide their own transportation to the internship school sites.

Students are placed in a classroom setting for the entire two quarters, for a total of 17 credits each. Any student wishing to register for less than 17 credits per quarter must receive approval in writing from the chair of secondary education.

**Professional Quarter 4**

*(Must be taken concurrently.)*

EDU 4945 Secondary School Internship A .....	16
EDU 4845 Secondary Student Teaching Seminar .....	1

**Professional Quarter 5**

*(Must be taken concurrently.)*

EDU 4946 Secondary School Internship B .....	15
EDU 4800 Teacher as Person .....	2

Physical education, art, foreign language, music and special education majors seeking K-12 certification should check with the certification coordinator in the School of Education for specific requirements.

At the time students apply for admission to the School of Education they will indicate their preferred quarters for Professional Quarters 3, 4 and 5. While student preferences will be considered, class limits and quarters of course offerings will influence assignments.

Once a student has been assigned to a particular quarter to begin the application unit, Professional Quarters 3, 4 and 5, it is expected that the student will enter at that time. Requests for changes in the quarters will be handled on a space-available basis determined by class enrollment limits.

## Majors Majors for Elementary Teachers

An academic major is required for all elementary teachers in addition to the elementary certification requirements. Students may select their major from the majors stated under the Areas of Instruction section of the *Catalog* (e.g., English, family and consumer sciences, history, math, music, psychology, etc.). They also may select special education as their academic major or one of the broad field majors listed below. To be admitted to these broad field majors, students must meet the admission requirements of both the School of Education and the appropriate school or department in which the courses are offered. For initial advising, contact the School of Education certification coordinator. The majors listed below are designed for students who are seeking elementary certification:

### Fine and Applied Arts

**Andrew Ryder, Advisor,** Theatre Department  
(66 credits, 23 upper division)

#### Visual Arts (22 credits)

ART 1180 The Visual Arts .....	5
ART 1102 Drawing Studio (3)	
or ART 1103 Drawing Studio (3) .....	3
ART 1202 Design Studio .....	3
ART 3604 History of Renaissance Art (5)	
or ART 3605 History of Modern Art (5) .....	5
Select two courses from the following:	
ART 2422 Metal Studio (3)	
ART 2428 Ceramics Studio (3)	
ART 3315 Painting Studio - Watercolor (3) .....	6

#### Communication/Integration (10 credits)

COM 4323 Performing Literature .....	5
FCS 1710 Design Fundamentals .....	5

#### Music (15 credits)

MUS 1101 Musicianship .....	5
Select two courses from the following to total .....	4
MUS 1250 Beginning Keyboard (2)	
or MUS 1251 Intermediate Keyboard (2)	
MUS 1260 Beginning Voice (2)	
or MUS 1261 Advanced Voice (2)	
MUS 1270 Beginning Folk Guitar (1)	
or MUS 1271 Intermediate Folk Guitar (1)	

#### Music Electives (see electives below) to total .....

<b>Theatre</b> (18-19 credits)	
TRE 1110 The Theatre Experience (5) .....	5
TRE 1310 The Actor's Art (5) (TRE 1340 Acting One (5)	
may be substituted if absolutely necessary) .....	5
Select one course from the following to Total .....	3
TRE 2320 Stage Movement (3)	
TRE 3321 Elements of Mime (3)	
TRE 3720 Stage Makeup (3)	
TRE 4770 Creative Dramatics (3)	

Choose either 5 or 6: .....

- a) Two more of the 3-credit courses listed above (6) or  
b) TRE 3710 Play Directing (5)

### Approved Electives to Complete 66 Credits

(including 23 upper division):

MUS 1102 and 1103 Musicianship (5 each)	
MUS 2605 Popular Music (5)	
MUS 3502 Music for Special Ed. (3)	
MUS 3602 Magic of Opera (5)	
MUS 4401 The Song of the Church (3)	
MUS 4402 History and Appreciation of Jazz (5) W	
MUS 4654/4655/4656 Context Studies (3 ea)	
Any upper-division SPU Ensemble (1 ea)	
ART 2203 Painting Studio - Oil (3)	
ART 3421 Printmaking Studio - Advanced 1 (3)	
FCS 3870 History of Costume (5) W	

Approved electives to complete 66 credits include those listed above, or other approved electives in art, music, theatre and family consumer sciences.

*Note: Fine and Applied Arts majors need to plan carefully so as to meet the University "W" requirement for graduation.*

### Language Arts

**Luke Reinsma, Advisor,** English Department  
(50-53 credits, 23 upper division)

COM 1101 Introduction to Interpersonal	
Communication .....	5
COM 4323 Performing Literature .....	5
EDRD 4516 Children's Literature .....	3
EDRD 4517 Young Adult Literature .....	3
ENG 2253 American Literature: Beginnings to 1900 .....	5
ENG 3180 Advanced Grammar .....	3
ENG 3334 American Ethnic Literature .....	5
Select two courses from the following:	
ENG 2248 New International Fiction (5)	
ENG 2251 English Literature: Beginnings	
Through Milton (5)	
ENG 2252 English Literature: Restoration	
Through Victorian (5)	
ENG 3246 World Literature (5)	
ENG 3248 New International Fiction (5)	
EUR 3287 Mythology in Literature (5) .....	10
Select two courses from the following:	
ENG 2201 Research for Writing (3)	
ENG 2215 Imaginative Writing (3)	
ENG 3301 Advanced Expository Writing (3)	
ENG 3318 Creative Nonfiction (3) .....	6
LIN 2100 Foundations of Language Study .....	3

Select one of the following:

TRE 1340 Acting I (5)	
TRE 1720 Stagecraft (5)	
TRE 3930 Performance Practicum (2)	
TRE 3931 Production Practicum (2)	
TRE 4770 Creative Dramatics (EDU 4540) (3) .....	2-5

**Total .....** 50-53

Students choosing the language arts major must fulfill the requirement for proficiency in a second language. The requirement, equal to the completion of the third quarter of a University-level language course, may be met by the study of any modern or classical language.

### Mathematics

**Sharon Young, Advisor,** Mathematics Department  
(52 credits, 23 upper division)

MAT 1225 (5) and MAT 1226 Calculus (5) .....	10
MAT 1360 Intro to Statistics .....	5
MAT 1521 Intro to Contemporary Mathematics (5)	
or MAT 1228 Series and Differential Equations (5) .....	5
MAT 2401 Linear Algebra .....	3
MAT 2530 (3) and MAT 2531 (2)	
Survey of Mathematics I and II .....	5
MAT 2720 Discrete Mathematics .....	3
Select 3 or more credits of computer science courses .....	3
EDMA 4232 Mathematics Methods:	
Elementary Emphasis .....	3
MAT 4610W The Evolution of Mathematical Thought .....	3
MAT 4930 Practicum in Mathematics .....	1
MAT 4918W Senior Seminar .....	3
Electives (upper division) .....	8
<b>Total .....</b>	<b>49</b>

Approved electives to complete 49 credits: EDMA 3757, MAT 3401, MAT 3441, MAT 3443, MAT 3749, MAT 4402W, MAT 4910, MAT 4930; a maximum of 2 credits in MAT 4930 may be applied.

### General Science

**Ray Myers, Advisor,** School of Education  
(60 credits, 23 upper division)

10-15 credits in each of four natural science divisions: biology, chemistry, earth sciences and physics/astronomy. Recommended courses are the following:

<b>Biology</b>	
BIO 2101, 2102, 2103 .....	15
<b>Chemistry</b>	
CHM 1211 and 1330 or 2371 .....	10
Students interested in taking additional chemistry should	
take CHM 2371	
<b>Earth Science</b>	
PHY 1150 and EDSC 4566 .....	10
Physics PHY 1110 and PHY 1135 .....	10
Disciplinary emphasis (required to select one area:	
biology, chemistry or physics) .....	15
<b>Biology Emphasis</b>	
Choose 15 credits from BIO 3310, 3325, 3351 3453, 4330,	
4615, 4950	
<b>Chemistry Emphasis</b>	
Choose 15 credits from CHM 3225, 3400, 3540, 4361	
<b>Physics Emphasis</b>	
Choose 15 credits from PHY 3120, 3311, 4242, 4243	
<b>Total .....</b>	<b>60</b>

### Social Science

**Donald Holsinger, Advisor,** History Department  
(61-65 credits, 23 upper division)

HIS 2502 The United States to 1876 (5)	
or HIS 3501 Colonial and Revolutionary America (5) .....	5
HIS 2503 The United States Since 1876 .....	5
Non-American History (upper division recommended) .....	5
Upper-division History elective .....	5

HIS 3600 History of the Pacific Northwest .....	5
Select one course from the following:	
ECN 1100 Fundamentals of Economics (5)	
ECN 2101 Principles of Microeconomic (5)	
ECN 2102 Principles of Macroeconomics (5)	
GEO 2207 Economic Geography (5) .....	5
GEO 1110 World Regional Geography .....	5
POL 1120 American Government and Politics .....	5
PSY 1180 General Psychology .....	5
SOC 1110 Introduction to Sociology .....	5
One course in Cultural Anthropology .....	3-5
Two upper-division elective courses from the following	
disciplines: ANT, GEO, POL, PSY or SOC .....	8-10
<b>Total .....</b>	<b>61-65</b>

*Note: Social science majors need to plan carefully so as to meet the University "W" requirement for graduation.*

### Majors for Secondary Teachers

Students wishing to prepare to teach at the secondary level should major in a content area from the list below. They should meet the requirements for bachelor's degree candidates as listed under the various disciplines. In addition, they should establish a 3.0 cumulative GPA in all work in their major or complete at least 15 upper-division credits in the major with a grade of 3.0 or above in each course. Academic work below "C" (2.0) will apply toward total credit requirements for graduation but may not be applied toward the teaching major. The following are approved majors for secondary certification: biology, chemistry, English, family and consumer sciences, history, mathematics and physics. The following are approved majors for K-12 certification: art, French, German, music, physical education, Spanish and special education.

### Secondary Supporting Endorsement

Students who plan to teach at the secondary level are strongly encouraged to prepare in a second teaching area. This may be a minor but must meet state endorsement requirements. If there are questions concerning the supporting endorsements, please see the certification coordinator in the School of Education.

### Majors for K-12

**Teaching Art Education:** See the appropriate advisor in the Art Department.

**Foreign languages:** See the appropriate advisor for the specific language.

**Music education:** See the appropriate advisor in the Music Department.

**Physical education:** See the appropriate advisor in the Physical Education Department.

### Special Education (K-12)

**Annette Robinson, Chair**

The primary purpose of the special education major is to develop teachers who have the knowledge and skills necessary to design and implement appropriate education for students with disabilities. The emphasis in this program

is on students with special needs in the areas of learning and behavior. It is strongly recommended that the teacher candidate complete both the regular certification program (at either the elementary or secondary level), as well as the special education major. This would add an additional quarter of internship but will give the candidate experience in the regular classroom as well as the special education setting. For general requirements and admission policies, see the foundations and units in previous pages.

### Admission to the Special Education Program

Students who are interested in the special education certification program are encouraged to indicate their intent upon their arrival at SPU. This indication is made with the School of Education Advising Center in Peterson Hall. It does not commit the student to the program, but it assures advising and continuing receipt of current information about the special education program requirements. Admission to the special education program requires completion of Professional Quarters 1 and 2 and admission to the School of Education.

### Requirements for the Special Education Major

(45 credits)	
EDSP 3107 Exceptionality in the Classroom .....	3
PSY 2470 Lifespan Developmental Psychology .....	5
EDRD 3529 Child Language Development and the Reading Process .....	3
EDSP 4642 Instructional Strategies for the Exceptional Student .....	3
EDSP 4646 Severe Disabilities .....	3
EDSP 4648 Teaching Students With Behavior Disorders .....	3
EDSP 4651 Special Education Assessment .....	3
EDSP 4652 Learning Disabilities .....	3
EDSP 4653 Teaching Reading to Exceptional Students .....	3
EDSP 4657 Behavior Management: Applied Behavioral Analysis .....	3
EDSP 4658 Senior Seminar: Issues in Special Education .....	3
EDSP 4943 Elementary or EDSP 4948 Secondary Special Education Internship .....	10
<b>Total .....</b>	<b>45</b>

Requirements leading to certification in special education at SPU:

1. Certification in special education (grades K-12) is granted upon successful completion of the special education major, 30 credits in a second academic area of emphasis and specialized certificate requirements.
2. For foundations requirements for a K-12 special education certificate, see the previous School of Education foundations units of this *Catalog*. Specific applications courses are required for the K-12 special education certificate. Applications include a required internship in special education. Students will have opportunities to gain

competencies in curriculum planning with both elementary and secondary students.

3. Transfer students must complete a minimum of 15 upper-division credits in special education course work prior to the internship. In order for the School of Education to recommend a student for the K-12 special education certificate, the internship must be supervised directly by SPU School of Education faculty members.

### Additional Courses Required for K-12 Special Education Only Certification

Elementary MAT 2530 Survey of Math I .....	3
MAT 2531 Survey of Math II .....	2
EDRD 3529 Child Language Development and the Reading Process .....	3
EDTC 4235 Intro to Educational Technology .....	2
<b>Electives:</b>	
Minimum of two courses and 4-6 credits.	
ART 3546 (3), EDSC 4234 (3), EDU 4233 (3), MUS 3500 (2), MUS 3502 (3), PE 3510 (4), PE 3515 (3).	

### Applications

EDU 4230 Elementary General Methods: Theory Into Practice .....	2
EDMA 4232 Mathematics Methods: Elementary Emphasis .....	3
EDSP 4943 Elementary Special Education Internship A .....	9
EDSP 4944 Elementary Special Education Internship B .....	17

### Secondary

EDU 4240 General Methods for Teaching in Secondary Schools .....	5
EDRD 4530 Topics in Secondary Education .....	2

### Electives

Minimum of two courses and 4-6 credits. EDMA 3357 (3), EDSC 3359 (3), EDU 3365 (3), EDU 4364 (3), EDU 3361 (3), FCS 4511 (3), Methods in Art, Music or Physical Education.

### Applications

EDU 4948 Secondary Special Education Internship, two quarters, 17 credits each .....	34
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### Math Education

**EDMA 3357 TEACHING SECONDARY MATHEMATICS (3)** Prerequisite: Admission to School of Education. Overviews content methods and strategies appropriate to the teaching of secondary school mathematics. Attention is given to the NCTM standards and Washington state essential learning requirements, emphasis is also placed on problem solving. Recommended prior to or concurrent with first quarter internship. Corequisite: EDU 3557. Attribute: Upper Division. Class not open to freshmen and sophomores.

**EDMA 4232 MATHEMATICS METHODS: ELEMENTARY EMPHASIS (3)** Registration Approval: School of Education. Prerequisites: Admission to School of Education and EDMA 2530, 2531. Explores contemporary methods and trends in the teaching of mathematics in elementary school emphasizing learning theories, changes in the mathematical content, use of technology and pedagogy. Attention is given to the NCTM standards and to Washington state essential learning requirements. Corequisites:

EDSC 4234 and EDU 3542. Attribute: Upper Division. Class not open to freshmen and sophomores.

### Reading Education

**EDRD 3529 CHILD LANGUAGE DEVELOPMENT AND THE READING PROCESS (3)** Registration Approval: School of Education. Prerequisite: LIN 2100. Examines the nature of language, children's stages of language growth, cognitive processes related to language development and growth, and the implications of natural language development for early reading/writing instruction. Attribute: Upper Division. Class not open to freshmen.

**EDRD 4231 READING AND LANGUAGE ARTS METHODS (3)** Registration Approval: School of Education. Prerequisites: EDRD 3529, LIN 2100 and admission to the School of Education. Incorporates a variety of instructional strategies, formats and media to present a variety of methods and strategies for teaching, integrating and assessing the processes of reading, writing and oral language in the elementary classroom; and analysis and uses of language arts materials. Corequisites: EDU 4230, EDU 4233 and EDU 4941. Attribute: Upper Division. Class not open to freshmen, sophomores and juniors.

**EDRD 4516 CHILDREN'S LITERATURE (3)** Prerequisite: ENG 1110 or equivalent. Examines the variety and richness of literature available for children in preschool through eighth grade; presents major genres and notable authors and illustrators; and develops familiarity with varied responses to literature adaptable for classroom use. Attribute: Upper Division. Class not open to freshmen.

**EDRD 4517 YOUNG ADULT LITERATURE (3)** A study of young adult literature, including intensive reading in the best of this literature and application of both critical and pedagogical strategies to the reading. Attribute: Upper Division.

**EDRD 4530 READING AND WRITING ACROSS THE CURRICULUM (2)** Prerequisite: Completion of Professional Quarter 1 and 2. Provides a functional approach to content-centered instruction that will prepare pre-service teachers to teach content, reading and writing skills simultaneously. Emphasis is placed on the application of skills that middle, junior and senior high school readers must make to learn content from a variety of sources and materials. Attribute: Upper Division. Class not open to freshmen and sophomores.

### Science Education

**EDSC 3359 TEACHING SECONDARY SCIENCE (3)** Prerequisite: Admission to School of Education. Designed to assist students in relating their understanding in various science disciplines to the practical problems of planning and implementing learning experiences for secondary students. The emphasis is on the use of inquiry/problem-solving approaches to science learning. Corequisite: EDU 3559. Attribute: Upper Division. Class not open to freshmen and sophomores.

**EDSC 4234 SCIENCE METHODS: ELEMENTARY EMPHASIS (3)** Registration Approval: School of Education. Prerequisite: Admission to School of Education. Briefly surveys current elementary science programs and examines techniques and materials using a discovery approach to teach some basic principles of science. Corequisite: EDU 3542. Attribute: Upper Division. Class not open to freshmen and sophomores.

**EDSC 4527 NATURE OF ELEMENTARY SCHOOL SCIENCE (3)** Introduces science teaching strategies and processes of science (hypothesizing, designing experiments, etc.) using class activities from modern elementary science curricula. Attribute: Upper Division.

**EDSC 4566 ENVIRONMENTAL EDUCATION FOR TEACHERS - OCEANOGRAPHY AND METEOROLOGY (5)** Prerequisites: CHM 1110 or PHY 1110, BIO 1100 or higher, and PHY 1150 or permission of instructor. Gives ideas for outdoor activities, classroom activities, field trips, regional environmental resources, readings, teaching strategies and discussions. Attribute: Upper Division. Class not open to freshmen.

### Special Education

**EDSP 3107 EXCEPTIONALITY IN THE CLASSROOM (2-3)** Registration Approval: School of Education. Prerequisite: Professional Quarter 1. Examines the concept of difference, including influences of

exceptionality on social and psychological roles. Presents strategies for inclusion of exceptional students in classrooms. Corequisites: EDU 3102, EDU 3104 and EDU 3105. Attribute: Upper Division. Class not open to freshmen and sophomores.

**EDSP 4642 INDIVIDUAL EDUCATION PROGRAMS (3)** Registration Approval: School of Education. Prerequisite: EDSP 3107. Classroom presentation centers around the interaction of the disabled child with the school. Topics include federal and state regulations for the education of the disabled; procedures for referral, diagnosis and placement; formation of individual education programs, service models, task analysis and sequencing of skills; formation and evaluation of behavioral objectives; selection of instructional materials and methodology; and classroom organization. (Pre-service emphasis.) Attribute: Upper Division. Class not open to freshmen and sophomores.

**EDSP 4645 PSYCHOLOGY OF THE GIFTED INDIVIDUAL (3)** Registration Approval: School of Education. Prerequisite: EDSP 3107. Introduces identification of gifted and creative individuals and development of educational programs and resources for the gifted. Attribute: Upper Division. Class not open to freshmen and sophomores.

**EDSP 4646 SEVERE DISABILITIES (3)** Registration Approval: School of Education. Prerequisite: EDSP 3107. Explores the issues surrounding the education of the developmentally disabled person. Includes definitions and classification systems, etiology, theoretical approaches, strategies for educational diagnosis and intervention, family problems and other issues. Attribute: Upper Division. Class not open to freshmen and sophomores.

**EDSP 4648 TEACHING STUDENTS WITH EMOTIONAL AND BEHAVIOR DISORDERS (3)** Registration Approval: School of Education. Prerequisite: EDSP 3107. Provides special educators with knowledge related to characteristics and inclusion strategies for children and youth with behavior disorders or emotional disturbance. Attributes: Special education instructor methods and Upper Division. Class not open to freshmen and sophomores.

**EDSP 4651 SPECIAL EDUCATION ASSESSMENT (3)** Registration Approval: School of Education. Prerequisite: EDSP 3107. Teaches diagnostic and evaluative procedures commonly used with exceptional children. Includes construction of criterion-referenced tests and curriculum based assessment; use and interpretation of formal and informal tests, and procedures and related ethics procedures, and related issues. Attributes: Special education Assessment and evaluation and Upper Division. Class not open to freshmen and sophomores.

**EDSP 4652 DISABILITIES OF LEARNING AND ATTENTION (3)** Registration Approval: School of Education. Attributes: Special education alt. delivery and strategy and special education instructor methods. Class not open to freshmen and sophomores.

**EDSP 4653 TEACHING READING TO EXCEPTIONAL STUDENTS (3)** Registration Approval: School of Education. Prerequisites: EDRD 3529 and EDSP 3107, or permission of instructor. Focuses on diagnosis of reading strengths and weaknesses; correlates of reading problems; and analysis and selection of methods and materials for reading instruction of special needs children, including children who speak English as their second language. Attributes: Upper Division and Writing Course. Class not open to freshmen and sophomores.

**EDSP 4657 BEHAVIOR MANAGEMENT (3)** Registration Approval: School of Education. Prerequisite: EDSP 3107. Focuses on an in-depth explanation of applied behavior analysis and classroom management strategies useful in meeting the needs of children and youth with behavioral disabilities. Attribute: Upper Division. Class not open to freshmen and sophomores.

**EDSP 4658 ISSUES IN SPECIAL EDUCATION (3)** Registration Approval: School of Education. Prerequisite: EDSP 3107. Explores major trends and issues affecting special education, including the rights of the disabled, emerging trends in educational services and major issues surrounding the quality of life of disabled individuals. Open to special education majors only. Attributes: Upper Division and Writing Course.

**EDSP 4900 INDEPENDENT STUDY (1-5)** Registration Approval: Independent Study Agreement. Prerequisites: EDSP 3107. May be repeated for credit up to 5 credits. Attribute: Upper Division.

**EDSP 4943 ELEMENTARY SPECIAL EDUCATION INTERNSHIP A (1-17)** Registration Approval: School of Education. Prerequisites: Same as for EDU 4941. First quarter of a two-quarter internship. Observation and daily teaching in special education in

the elementary schools under the direction of a cooperating teacher. Extra fee. May be repeated for credit up to 17 credits. Attribute: Upper Division. Class not open to freshmen, sophomores and juniors.

**EDSP 4944 ELEMENTARY SPECIAL EDUCATION INTERNSHIP B (1-17)** Registration Approval: School of Education. Prerequisites: Same as for EDU 4941. Second quarter of a two-quarter internship. Observation and daily teaching in special education in the elementary schools under the direction of a cooperating teacher. Extra fee. May be repeated for credit up to 17 credits. Attribute: Upper Division. Class not open to freshmen, sophomores and juniors.

**EDSP 4948 SECONDARY SPECIAL EDUCATION INTERNSHIP A (1-17)** Registration Approval: School of Education. Prerequisites: See Professional Quarters 4 and 5 secondary program prerequisites. Three-quarter internship (two in special education; one in regular education). Provides opportunity for observation and daily teaching in special education sections in the public schools under the direction of a master teacher. Extra fee. May be repeated for credit up to 17 credits. Corequisite: EDU 4845. Attribute: Upper Division. Class not open to freshmen, sophomores and juniors.

**EDSP 4949 SECONDARY SPECIAL EDUCATION INTERNSHIP B (1-17)** Registration Approval: School of Education. Prerequisites: See Professional Quarters 4 and 5 secondary program prerequisites. Extra fee. May be repeated for credit up to 17 credits. Attribute: Upper Division. Class not open to freshmen, sophomores and juniors.

### Technology Education

**EDTC 2235 INTRODUCTION TO EDUCATIONAL TECHNOLOGY (2)** Prerequisite: Admission to Professional Quarter I. Instruction on processes and procedures for using media and computers in school settings. Includes instructional design; basic production skills for computer, media and multimedia applications; and courseware evaluation. Corequisite: EDU 2103. Class not open to freshmen.

**EDTC 3930 PRACTICUM (1-5)** Registration Approval: Instructor. Attribute: Upper Division.

### Education

**EDU 2103 FOUNDATIONS OF AMERICAN EDUCATION (3)** Registration Approval: School of Education. Prerequisite: Admission to Professional Quarter 1. Explores social, historical and philosophical foundations of American education. Focuses on teaching and curricula from ancient times to the present. Provides opportunities to apply course content through service learning and field-related experiences. Corequisite: EDTC 2235. Class not open to freshmen.

**EDU 3102 APPLICATIONS OF EDUCATIONAL PSYCHOLOGY (2)** Registration Approval: School of Education. Prerequisite: Professional Quarter 1. This course will explore social, moral and cognitive aspects of human growth and development along with learning theories related to children and youth. These principles will form a broad base for the study and consideration of curriculum, instruction, assessment and behavior management. Corequisites: EDSP 3107, EDU 3104 and EDU 3105. Attribute: Upper Division. Class not open to freshmen and sophomores.

**EDU 3104 FOUNDATIONS OF MULTICULTURAL EDUCATION (2)** Registration Approval: School of Education. Prerequisite: Professional Quarter 1. An introduction to the historical background and theoretical constructs of multicultural education. Examines the nature of our diverse society and the implications for education. The nature of bias is discussed and techniques are presented that foster positive expectations for all students. Corequisites: EDSP 3107, EDU 3102 and EDU 3105. Attribute: Upper Division. Class not open to freshmen and sophomores.

**EDU 3105 LABORATORY EXPERIENCE (3)** Registration Approval: School of Education. Prerequisite: Professional Quarter 1. Provides opportunity for the student to be placed in a school with diverse populations. Integration of learning and experience will be gained through observing and working with students in various classroom settings. Corequisites: EDSP 3107, EDU 3102 and EDU 3104. Attribute: Upper Division. Class not open to freshmen and sophomores.

**EDU 3106 LABORATORY EXPERIENCE (3)** Registration Approval: School of Education. Gives students an opportunity for an additional, individualized laboratory experience. See EDU 3105. Attribute: Upper Division. Class not open to freshmen and sophomores.

**EDU 3361 SECONDARY ENGLISH METHODS (3)** Prerequisite: Professional Quarters 1 and 2. Explores teaching and planning methods and materials appropriate for middle school and senior high school students. Based on essential learnings, the course considers various learning styles, moral implications, literary works and writing activities in creating and sharing ideas and projects. Corequisite: EDU 3561. Attribute: Upper Division.

**EDU 3542 FIELD EXPERIENCE: ELEMENTARY MATH AND SCIENCE (1-2)** Registration Approval: School of Education. Prerequisite: Admission to the School of Education. This field experience will provide experiences teaching elementary math and science to bring back to the methods classroom for discussion and evaluation. It will also provide an environment for applying lessons and activities from the methods course. Corequisites: EDMA 4232 and EDSC 4234. Attribute: Upper Division. Class not open to freshmen and sophomores.

**EDU 3557 FIELD EXPERIENCE: SECONDARY MATHEMATICS (1)** Registration Approval: School of Education. Prerequisite: Admission to the School of Education. This field experience will provide experiences teaching secondary mathematics to bring back to the methods classroom for discussion and evaluation. It will also provide an environment for applying lessons and activities from the methods course. The hours of observation and instruction will be flexible and scheduled to meet assignments in each of the subject area classes, the schedules of each cooperating classroom and the schedule of each student. Corequisite: EDMA 3357. Attribute: Upper Division. Class not open to freshmen and sophomores.

**EDU 3559 FIELD EXPERIENCE: SECONDARY SCIENCE (1)** Registration Approval: School of Education. Prerequisite: Admission to the School of Education. This field experience will provide experiences teaching secondary science to bring back to the methods classroom for discussion and evaluation. It will also provide an environment for applying lessons and activities from the methods course. The hours of observation and instruction will be flexible and scheduled to meet assignments in each of the subject area classes, the schedules of each cooperating classroom and the schedule of each student. Corequisite: EDSC 3359. Attribute: Upper Division. Class not open to freshmen and sophomores.

**EDU 3561 FIELD EXPERIENCE: SECONDARY ENGLISH (1)** Registration Approval: School of Education. Prerequisite: Admission to the School of Education. This field experience will provide experiences teaching secondary English to bring back to the methods classroom for discussion and evaluation. It will also provide an environment for applying lessons and activities from the methods course. The hours of observation and instruction will be flexible and scheduled to meet assignments in each of the subject area classes, the schedules of each cooperating classroom and the schedule of each student. Corequisite: EDU 3361. Attribute: Upper Division. Class not open to freshmen and sophomores.

**EDU 3564 FIELD EXPERIENCE: SECONDARY SOCIAL STUDIES (1)** Registration Approval: School of Education. Prerequisite: Admission to the School of Education. This field experience will provide experiences teaching secondary social studies to bring back to the methods classroom for discussion and evaluation. It will also provide an environment for applying lessons and activities from the methods course. The hours of observation and instruction will be flexible and scheduled to meet assignments in each of the subject area classes, the schedules of each cooperating classroom and the schedule of each student. Corequisite: EDU 4364. Attribute: Upper Division. Class not open to freshmen and sophomores.

**EDU 3942 SEPTEMBER EXPERIENCE (1)** Registration Approval: School of Education. Prerequisite: Admission to the School of Education. This course requires three weeks of observation and assistance at the opening of a school year in a program that reflects the level and subject matter preferred by the pre-service teacher. It will include any faculty meetings, preparation days and in-service workshops that take place prior to the students' arrival at school. The intern will then remain for the first two weeks of the school year. Course Equivalent: EDU 6942. Attribute: Upper Division. Class not open to freshmen and sophomores.

**EDU 4230 ELEMENTARY GENERAL METHODS: THEORY INTO PRACTICE (2)** Registration Approval: School of Education. Prerequisite: Admission to the School of Education. Presents general factors that affect learning in the elementary classroom; development of teacher-pupil relationships, lesson planning, behavior guidance, assessment and communicating with parents. Corequisites: EDRD 4231, EDU 4233 and EDU 4941. Attribute: Upper Division. Class not open to freshmen, sophomores and juniors.

**EDU 4233 SOCIAL STUDIES METHODS: ELEMENTARY EMPHASIS (3)** Registration Approval: School of Education. Prerequisite: Admission to the School of Education. Explores inter-disciplinary approach for teaching elementary school social studies and develops strategies for implementation in the classroom. Corequisites: EDRD 4231, EDU 4230 and EDU 4941. Attribute: Upper Division. Class not open to freshmen, sophomores and juniors.

**EDU 4240 GENERAL METHODS FOR TEACHING IN SECONDARY SCHOOLS (4)** Registration Approval: School of Education. Prerequisite: Admission to the School of Education. Presents instructional theory, lesson planning, classroom management and related topics designed to enhance and to be applied in a practice classroom setting. Attribute: Upper Division. Class not open to freshmen and sophomores.

**EDU 4315 MIDDLE SCHOOL METHODS (3)** Registration Approval: School of Education. Prerequisite: Admission to the School of Education. This course is designed to prepare students for internships in middle school or junior high school, with special emphasis in collaboration and subject-matter integration at the middle level and the social, moral and cognitive parts of early adolescent development. Attribute: Upper Division. Class not open to freshmen and sophomores.

**EDU 4364 TEACHING SECONDARY SOCIAL STUDIES (3)** Registration Approval: School of Education. Prerequisite: Professional Quarters 1 and 2. Presents specific elements of secondary social studies instruction, including content selection and planning based on essential learnings, moral implications of content, use of instructional strategies, assessment of student learning and management of the classroom. Corequisite: EDU 3564. Attribute: Upper Division. Class not open to freshmen and sophomores.

**EDU 4511 STRATEGIES IN EARLY CHILDHOOD (3)** Prerequisite: FCS 3220. Provides opportunities to observe and participate with children in a preschool or kindergarten and to observe the role of the teacher as a participant. Implementation and evaluation of models, methods and materials relevant to programs for children in preschool, day-care centers and kindergarten. Offered summers only. Attribute: Upper Division. Class not open to freshmen.

**EDU 4530 TOPICS IN SECONDARY EDUCATION (2)** Registration Approval: School of Education. Prerequisite: Admission to School of Education. Explores major topics related to instruction in the secondary classroom, including student assessment, reading and study skills, and child abuse. Attribute: Upper Division. Class not open to freshmen and sophomores.

**EDU 4800 TEACHER AS PERSON (2)** Registration Approval: School of Education. Prerequisite: Admission to the School of Education. This course will focus on professional and spiritual aspects of teaching school law, governance and finance. Seminar and case-study format will be used. Final portfolio checkout and job-search information will also be included. Concurrent enrollment is required with the final quarter of internship. Attribute: Upper Division. Class not open to freshmen, sophomores and juniors.

**EDU 4845 SECONDARY STUDENT TEACHING SEMINAR (1)** Registration Approval: School of Education. Prerequisite: Completion of Professional Quarters 1, 2 and 3. These seminars will provide an opportunity for student teachers to share experiences from their internship and a forum for developing additional ideas and skills in key areas of instruction and management. Special attention will be paid to developing explicit links between theory previously learned and the particular unique internship placement of each student. Concurrent enrollment in the first quarter of internship is required. Attribute: Upper Division. Class not open to freshmen, sophomores and juniors.

**EDU 4900 INDEPENDENT STUDY (1-5)** Registration Approval: Independent Study Agreement. Prerequisite: Admission to School of Education. May be repeated for credit up to 15 credits. Attribute: Upper Division.

**EDU 4940 STUDENT TEACHING IN THE ELEMENTARY SCHOOL (1-16)** Registration Approval: School of Education. Pre-

requisites: See Professional Quarters 3, 4 and 5 elementary program prerequisites. Provides opportunity for observation and daily teaching for one quarter in elementary schools. Extra fee. May be repeated for credit up to 16 credits. Attribute: Upper Division. Class not open to freshmen, sophomores and juniors.

**EDU 4941 ELEMENTARY SCHOOL INTERNSHIP A (1-17)** Registration Approval: School of Education. Prerequisites: See Professional Quarters 4 and 5 elementary program prerequisites (first quarter). Provides opportunity for observation and daily teaching in elementary schools under the direction of a cooperating teacher. Extra fee. May be repeated for credit up to 17 credits. Corequisites: EDRD 4231, EDU 4230 and EDU 4233. Attribute: Upper Division. Class not open to freshmen, sophomores and juniors.

**EDU 4942 ELEMENTARY SCHOOL INTERNSHIP B (1-17)** Registration Approval: School of Education. Prerequisites: Same as for EDU 4941. (Second or third quarter.) Provides opportunity for observation and daily teaching in the elementary school under the direction of a cooperating teacher. Extra fee. May be repeated for credit up to 17 credits. Attribute: Upper Division. Class not open to freshmen, sophomores and juniors.

**EDU 4943 ELEMENTARY INTERNSHIP: MUSIC (1-17)** Registration Approval: School of Education. Prerequisites: Same as for EDU 4941. Provides opportunity for observation and daily teaching of music in the elementary school under the direction of a cooperating teacher. Extra fee. May be repeated for credit up to 17 credits. Corequisite: EDU 4230. Attribute: Upper Division. Class not open to freshmen, sophomores and juniors.

**EDU 4944 ELEMENTARY INTERNSHIP: ART (1-17)** Registration Approval: School of Education. Prerequisites: See Professional Quarters 4 and 5 elementary program prerequisites (first quarter). Provides opportunity for observation and daily teaching of art in the elementary school under the direction of a cooperating teacher. Extra fee. May be repeated for credit up to 17 credits. Corequisite: EDU 4230. Attribute: Upper Division. Class not open to freshmen, sophomores and juniors.

**EDU 4945 SECONDARY INTERNSHIP A (1-17)** Registration Approval: School of Education. Prerequisites: See Professional Quarters 4 and 5 Secondary program prerequisites. Provides opportunity for observation and daily teaching in public or approved private schools under the direction of a master teacher. Extra fee. May be repeated for credit up to 17 credits. Corequisite: EDU 4845. Attribute: Upper Division. Class not open to freshmen, sophomores and juniors.

**EDU 4946 SECONDARY INTERNSHIP B (1-17)** Registration Approval: School of Education. Prerequisites: EDU 4945. Second quarter of two-quarter internship. Provides opportunity for observation and daily teaching in public or approved private schools under the direction of a master teacher. Extra fee. May be repeated for credit up to 17 credits. Attribute: Upper Division. Class not open to freshmen, sophomores and juniors.

**EDU 4948 ELEMENTARY INTERNSHIP: PHYSICAL EDUCATION (1-17)** Registration Approval: School of Education. Prerequisites: See Professional Quarters 4 and 5 elementary program prerequisites (first quarter). Provides opportunity for observation and daily teaching of physical education in the elementary school under the direction of a cooperating teacher. Extra fee. May be repeated for credit up to 17 credits. Corequisite: EDU 4230. Attribute: Upper Division. Class not open to freshmen, sophomores and juniors.

**EDU 4951 INTERNATIONAL ELEMENTARY SCHOOL INTERNSHIP (8-17)** Registration Approval: School of Education. Prerequisite: Completion of certification program. Observation and daily teaching in an international elementary school setting under the direction of a cooperating teacher. Attribute: Upper Division.

**EDU 4952 INTERNATIONAL SECONDARY SCHOOL INTERNSHIP (8-17)** Registration Approval: School of Education. Prerequisite: Completion of certification program. Observation and daily teaching in an international secondary school setting under the direction of a cooperating teacher. Attribute: Upper Division.

### Faculty

**Lisa A. Bjork**, Associate Professor of Education; Director of Continuing Education; B.A., Immaculate Heart College, 1967; Teaching Certificate, California State University at Los Angeles, 1969; M.Ed., Western Washington University,

1978; M.Ed., Harvard Graduate School of Education, 1985; Ed.D., Harvard Graduate School of Education. At SPU since 2000.

**Arthur Ellis**, *Professor of Education*; B.S., Oregon College, 1962; M.S., 1965; Ed.D., University of Oregon, 1968. At SPU since 1986.

**Susan Franklin**, *Instructor of Education*; B.A., University of Washington, 1966. M.Ed., Seattle Pacific University, 1990. At SPU part-time 1985-90; full-time since 1990.

**Patricia A. Hammill**, *Associate Professor of Education*; B.A., University of Washington, 1969; M.Ed., 1974; Ph.D., 1987. At SPU since 1988.

**Sharon E. Hartnett**, *Assistant Professor of Education*; B.A., Whitworth College, 1978; M.A.T., Whitworth College, 1985; Ph.D., Gonzaga University, 1999. At SPU since 2000.

**Janine Jones**, *Assistant Professor of School Psychology*; B.A., University of Texas at Austin, 1991; M.S., University of Southern California 1994; Ph.D., University of Texas at Austin, 1999. At SPU since 1999.

**Elletta A. Kennison**, *Assistant Professor of Education*; B.A., University of Washington, 1972; M.Ed., 1978; Ed.D., 1991. At SPU since 1974.

**Russ Killingsworth**, *Assistant Professor of Mathematics and Math Lab Coordinator*, B.A. California State University, Sacramento, 1986; M.A. California State University, Stanislaus, 1992. At SPU since 1996.

**Frank M. Kline**, *Associate Professor of Education; Assistant Dean for Teacher Education*; B.S., Greenville College, 1978; M.Ed., Wichita State University, 1981; Ph.D., University of Kansas, 1989. At SPU since 1996.

**Linda Montgomery**, *Associate Professor of Educational Leadership*; B.A., University of Washington, 1961; M.A., Seattle University, 1977; Ed.D., Seattle University, 1989. At SPU since 1999.

**Raymond E. Myers**, *Professor of Science Education*; B.S., Wayne State University, 1963; M.S., Oregon State University, 1968; Ed.D., 1978. At SPU since 1987.

**William E. Nagy**, *Professor of Education*; B.A., Michigan State University, 1970; Ph.D., University of California, San Diego, 1974. At SPU since 1996.

**Annette B. Robinson**, *Associate Professor of Special Education*; B.A., University of Washington, 1966; M.Ed., 1969; Ph.D., 1976. At SPU since 1977.

**William J. Rowley**, *Associate Professor of School Counseling*; B.A., Pasadena College, 1962; M.A., San Jose State College, 1967; Ed.D., University of Northern Colorado, 1973. At SPU since 1996.

**Christopher A. Sink**, *Professor of Education*, B.A., University of California-Irvine, 1978; M.S., California State University-Fullerton, 1981; Ph.D., University of California-Riverside, 1988. At SPU since 1994.

**Peter E. Smith**, *Professor of Education*; B.S.Ed., Oregon College of Education, 1962; M.S.Ed., 1966; Ph.D., University of Washington, 1974. At SPU since 1970.

**Richard E. Smith**, *Professor of Education Administration*; B.A., Seattle Pacific College, 1963; M.A., University of Oregon, 1968; Ph.D., 1972. At SPU since 1988.

**David Steele**, *Associate Professor of Educational Administration*; Director of Doctoral Studies; B.S., Eastern Montana College, 1966; M.S., Montana State University, 1971; Ed.D., University of Washington, 1994. At SPU since 1998.

**Nicole Swedberg**, *Instructor of Education*; B.A., University of Washington, 1986; M.Ed., Seattle Pacific University, 1995. At SPU since 2000.

**Sharon Young**, *Associate Professor of Mathematics*; B.A., University of Redlands, 1966; M.A., University of Denver, 1976; Ph.D., University of Colorado, 1979. At SPU 1995-99 and since 2000.

## Engineering

Miller Science Learning Center  
(206) 281-2140  
www.spu.edu/depts/egr

**Anthony Donaldson** *Director and EE Chair*,  
**Kevin Bolding**, **Don Bowie**, **Brad Gjerding**,  
**John Lindberg**, **Donald Peter**, **Melani Plett**, **Phil Prins**

In a Christian context, engineering is a ministry of designing, manufacturing and marketing products that serve and preserve God's creation. An engineer applies the principles of science and mathematics to economically create the tools, products and processes that people want or need. Today, as civilization becomes more complex the engineer must have a deeper understanding of the physical world, a wider versatility with mathematical and experimental techniques, and an increased sensitivity to the long-term effects of technology on people. The engineering program not only develops these skills in the applied sciences, but it also provides the liberal arts enrichment that makes the engineer better able to communicate ideas to other segments of our society. A more complete description of our vision and goals is found at the Web site, [www.spu.edu/depts/egr/vision](http://www.spu.edu/depts/egr/vision).

### Majors

SPU offers B.S. degrees in electrical engineering (BSEE), computer engineering (BSCPE) and engineering and applied science (BSEAS). The BSEE degree is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET). The BSEAS degree offers options in bio-engineering, engineering physics, environmental engineering and missions applications. The missions application option is a unique blend of practical engineering training for the missions setting and an opportunity to minor in global and urban ministries.

To offer the advantages of combined Christian liberal arts and other engineering majors, SPU has formal arrangements for dual degree programs with the University of Washington, Columbia University in New York and the University of Southern California. For example, if a student is interested in aeronautical, civil or mechanical engineering, he or she can obtain a baccalaureate from SPU and a B.S. from the participating engineering school. Three years are spent in residence at SPU, during which

time the student satisfies many requirements for the B.S. degree by taking the core Christian foundations, liberal arts and prescribed courses in chemistry, physics, mathematics and engineering. If the student then fulfills the entrance requirements, he or she may transfer to the participating university. At that university, the student would spend two years in civil or mechanical engineering to complete the second degree. Details of this 3/2 transfer program are available from the Division of Science and Engineering. Seattle Pacific University engineering seniors are urged to take Washington state's Department of Licensing examination for engineer-in-training. Those passing the test are certified by Washington state as licensed engineers-in-training.

### Evening Electrical and Computer Engineering Program

In addition to the day courses, evening courses in electrical and computer engineering make a BSEE or BSCPE degree available for students who work full-time during the day. Contact the director of engineering at (206) 281-2296 for more information.

### Intern Program

All engineering majors are required to do an internship with industry or another career entity. Normally this internship is accomplished during the summer between their junior and senior years. In almost all cases the interns are paid. These internships are facilitated by the director of engineering.

### Expectations of Entering Students

In addition to meeting all the general SPU admission requirements, the high school graduate entering the engineering program should present a high school record showing four years of mathematics and one year of physics or chemistry (preferably both). SAT scores of at least 1100 are recommended. Those students entering with deficiencies should consult an engineering advisor for a program of preparation for the engineering curriculum. Scores higher than 1200 are given consideration for freshman engineering scholarships. Transfer students should have at least a 2.75 transfer GPA; and a 3.0 is preferred.

### Admission to the Major

Student performance during the first two years will be used as an indicator of the student's promise of success in engineering. Application for admission to the major should be made in the spring of the sophomore year. The engineering faculty will review these applications. Students with SPU grade-point averages below 2.5 are normally not granted admission to the major. Transfer students (sophomores and beyond) may apply after one full quarter of class work (12 or more hours) in the SPU engineering program. Students must be admitted to the major prior to taking senior (4000-level) courses.

### Humanities and Social Science Requirement

To satisfy ABET accreditation guidelines, all engineering students must take at least 24 credits of philosophy, religion, history, literature, fine arts, sociology, psychology, political science or foreign languages other than a student's native language(s). These courses satisfy a general humanities and social-science accreditation requirement. Students who take the full SPU Core and Exploratory general education program more than meet this requirement. However, transfer students should carefully select their courses to insure they fulfill the 24-credit humanities and social-science requirement both in breadth and depth. They must see their assigned general education advisor to insure this requirement is met.

EE majors are exempt from the foreign language requirement.

### Requirements for the Computer Engineering (CPE) Major

(129-32 credits; 62-65 upper division)

#### Mathematics

MAT 1225, 1226 Calculus .....	10
MAT 1228 Series and Differential Equations .....	5
MAT 2375 Probability .....	3
MAT 2376 Statistics .....	2
MAT 2401 Linear Algebra .....	3

#### Science

PHY 1121, 1122, 1123 Physics for Science and Engineering .....	15
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#### Computer Science

CSC 1230 Programming .....	5
CSC 2430 Data Structures .....	5
CSC 2431 Data Structures II .....	5
CSC 3150 Systems Design .....	5

#### Engineering

EGR 1401 Intro to Engineering .....	1
EGR 3000 Engineering Seminar .....	1
EGR 3730 Engineering Design <i>or</i> EE 3028 .....	5,4
EGR 4740 Internship Prep. ....	1
EGR 4940 Internship Report .....	1

#### Computer Engineering

CPE 3280 Microcontroller System Design .....	5
CPE 3350 System Programming .....	4
CPE 3760 Computer Organization and Assembly Language .....	5
CPE 4211, 4212, 4213 Microprocessor System Design I, II, III .....	9
CPE 4760 Advanced Computer Architecture .....	4

#### Electrical Engineering

EE 1210 Introduction to Logic System Design .....	5
EE 2726, 2727 Electric Circuits I, II .....	8
EE 3721, 3722 Electronics I, II .....	10
EGR 4910 Senior Portfolio .....	1

#### Electives

Three courses from below <i>or</i> other approved upper division:	
CPE 4150 Software Engineering .....	4
CPE 4350 Operating Systems .....	4
CSC 4750 Computer Networks .....	4
EE 3410 Signal Analysis .....	5
EE 3550 Communication System Analysis .....	5



**Requirements for the Computer Engineering (CPE) Minor**

(34 credits; 15 upper division)

CSC1230 Programming	5
CSC 2430 Data Structures	5
CSC 3150 Systems Design	5
CPE 3760 Computer Organization	5
CPE 3280 Microcontroller System Design	5
EE 1210 Introduction to Logic System Design	5
EE 2726 Electric Circuits	4

**Requirements for the Electrical Engineering (EE) Major**

(142-146 credits; 64-68 upper division)  
(Refer to page 64 for a summary of degree requirements.)  
Because engineering courses require many mathematics and science prerequisites, the electrical engineering major must specify those prerequisites, leaving few electives. However, the 15-credit natural-science general education requirement is met by the courses in this major. Note that electrical engineering students are not required to fulfill the foreign language competency. The BSEE degree can be completed in four years by taking approximately 17 credits per quarter. A four-year plan is available from the department. The following coursework is required of all students majoring in electrical engineering:

**Mathematics**

MAT 1225, 1226 Calculus	10
MAT 1228 Series and Differential Equations	5
MAT 2228 Multivariable Calculus	3
MAT 2375 Probability	2
MAT 2401 Linear Algebra	3

**Science**

CHM 1211 General Chemistry	5
(requirement replaced with EGR 3841 if HS chemistry)	
BIO General Education Biology course	5
PHY 1121, 1122, 1123 Physics	
for Science and Engineering	15

**Engineering Science**

CSC 1230 Problem Solving and Programming	5
CSC 2430 Data Structures and Programming	5

**Technical**

Electives	9-11
Choices include MAT 2376, 3724, CSC 2431, EE 3500, EGR 2391, 2891, 3401 3550, 3600, 3800.	

Certain combinations result in an emphasis within EE.  
Emphases are biomedical, business, computer science, energy and power, environmental, math and physics.

EGR 1402 Intro to Engineering I	1
EGR 3000 Engineering Seminar	1
EGR 3401 Intro to Engineering II	
(required for transfer students only)	2
EGR 3841 Dynamics	5
EGR 4740 Intern Preparation	1
EGR 4940 Engineering Internship	1

**Electrical Engineering**

EE 1210 Introduction to Logic System Design	5
EE 2726, 2727, 3028 Electric Circuits I, II, III	12
EE 3280 Microcontroller System Design	5

EE 3410 Signal and System Analysis	5
EE 3550 Communication System Analysis	5
EE 3721, 3722 Electronics I, II	10
EE 3730 Electronic Design	5
EE 3760 Computer Organization and Assembly Language	5
EE 4910 Senior Portfolio	1
EE 4211, 4212, 4213 Microprocessor System Design I, II, III	9
EE 4310 Electromagnetics	5
EE 4450 Control System Design	5
<b>Total</b>	<b>142-146</b>

**Requirements for the Electrical Engineering Minor**

(37 credits; 24 upper division)  
The minor in electrical engineering consists of basic digital and analog circuits courses, plus 15 credits of elective EE courses:

EE 3760 Computer Organization and Assembly Language	5
EE 1210 Introduction to Logic System Design	5
EE 2726 Circuits I	4
EE 2727 Circuits II	4
EE 3028 Circuits III	4
EE courses (upper division)	15
<b>Total</b>	<b>37</b>

**Requirements for the Engineering and Applied Science (EAS) Major**

(103-140 credits; 27-50 upper division)  
(Refer to page 64 for a summary of degree requirements.)  
The engineering and applied science major offers a unique program that combines a basic engineering foundation with an applied science. Because engineering courses require many mathematics and science prerequisites, the engineering and applied science major must specify those prerequisites, leaving few electives. However, the 15-credit natural-science general education requirement is met by the courses in this major. Normally, the BSEAS degree can be completed in four years by taking approximately 16 credits per quarter. The following coursework is required of all students majoring in engineering and applied science:

**EAS Core Requirements**

**Mathematics**

MAT 1225, 1226 Calculus	10
MAT 1228 Series and Differential Equations	5

**Science**

BIO 2101 General Biology	5
CHM 1211 General Chemistry	
(requirement replaced with EGR 3841 if HS chemistry)	5
PHY 1121, 1122, 1123 Physics	
for Science and Engineering	15

**Engineering Science**

CSC 1230 Problem Solving and Programming	5
EGR 1401 Intro to Engineering I	1
EGR 1125 Engineering Study Prep (x3)	3

EGR 3401 Intro to Engineering II (required for transfer students only)	2
EGR 2891 Statics	4
EGR 3000 Engineering Seminar	1
EGR 3401 Thermodynamics	4
EGR 4740 Internship Prep	1
EGR 4940 Engineering Internship	1

**Electrical Engineering**

EE 2726, 2727 Electric Circuits I, II	8
EGR 4910 Senior Portfolio	1
<b>Total</b>	<b>68-69</b>

ECN 1100 (5) Fundamentals of Economics is a recommended general education course.  
In addition to the courses above, one of the following options must be satisfied by completing the minimum coursework listed:

**Bio-Engineering**

BIO 3325 Genetics	5
CHM 2371, 2372 Organic Chemistry	10
CHM 3225 Chemical Equilibrium and Analysis	5
EGR 2391 Introduction to Material Science (Biomaterials)	5
EGR 3800 Biomedical Engineering I	5
EGR 4311 Engineering Senior Design Lab	5
EGR 4352 Cell Biology	5
Tech Electives (2)	10
Choices: CSC 2430,2431, EGR 3226,3841, MAT 2401, EE 3410, PHY 4311, BIO 4418	
<b>Total (including EAS core courses)</b>	<b>119</b>

**Environmental Engineering**

BIO 2103 General Biology IIII	5
BIO 3310 Ecology	5
CHM 2371 Organic Chemistry	5
CHM 3225 Chemical Equilibrium and Analysis	5
EGR 2391 Introduction to Material Science	5
EGR 3226 Quantitative and Instrumental Analysis	5
EGR 3600 Environmental Engineering I	5
EGR 4311 Engineering Senior Design Lab	5
Tech Electives (2)	10
Choices: CSC 2430, 2431, EE 3410, EGR 3841, MAT 2401, PHY 4311	
<b>Total (including EAS core courses)</b>	<b>119</b>

**Mission Applications**

BUS 2700 Statistics	5
EE 3500 Power Systems	5
EE 4950 Topics in EE (preferably telecommunications)	5
EGR 3550 Alternative Energies	5
EGR 3600 Environmental Engineering I	5
EGR 4311 Engineering Senior Design Lab	5
EGR 4940 Engineering Internship (taken for 5 credits not 1)	5
<b>Total (including EAS core courses)</b>	<b>103-104</b>

**Engineering Physics**

PHY 2321 Intermediate Physics	5
PHY 3312, 3313 Advanced Physics Lab	4
PHY 3401 Thermodynamics	4
EGR 2391 Introduction to Material Science	5
EGR 3841 Dynamics	5
EE 1210 Intro to Logic System Design	5
EE 3028 Circuits III Design	4

EE 3721 Electronics I, II	10
EE 3280 or 3410 Microcontrollers or Signals and Systems	5
EE 3760 Computer Organization	5
EE 4310 Electromagnetics	5
MAT 2228 Multivariable Calculus	3
MAT 3724 Applied Analysis	3
BIO xxxx general education biology course	5
<b>Total (including EAS core courses)</b>	<b>131-132</b>

**Engineering Transfer Program Curriculum**

Students may wish to obtain their Christian liberal arts and basic engineering education at SPU. Later they may want to transfer to another university and obtain an engineering degree not offered at SPU. Students may select mathematics, science and engineering courses, which they may transfer, from the following list:

**Mathematics**

MAT 1225, 1226 Calculus (10)	
MAT 1228 Series and Differential Equations (5)	
MAT 2228 Multivariable Calculus (3)	
MAT 2401 Linear Algebra (3)	

**Science**

CHM 1211 General Chemistry (5)	
CHM 2371, 2372 Organic Chemistry (10)	
PHY 1121, 1122, 1123 Physics for Science and Engineering (15)	

**Engineering Science**

CSC 1230 Problem Solving and Programming (5)	
CSC 2430 Data Structures and Programming (5)	
EE 1210 Introduction to Logic Circuit Design (5)	
EE 2726, 2727 Circuits I, II (8)	
EGR 2391 Material Science (5)	
EGR 2891 Statics (4)	
EGR 3401 Thermodynamics (4)	
EGR 3841 Dynamics (5)	

**Suggested Course Sequence for All Engineering Students During Their Freshman Year**

**Autumn**

EE 1210 or CSC 1230	5
MAT 1225 Calculus	5
USEM 1000 (Check for specific ones)	5
EGR 1402 Intro to Engineering	1
EGR 1125 Engineering Study Preparation	1
<b>Total</b>	<b>17</b>

**Winter**

MAT 1226 Calculus	5
CSC 1230 or EE 1210	5
or for EAS majors Exploratory Curriculum	5
UCOR/UFDN 1000	5
<b>Total</b>	<b>15</b>

**Spring**

MAT 1228 Differential Equations	5
CSC 2430 Problem Solving and Programming	5
or for EAS majors Exploratory Curriculum	5
UCOR/UFDN 1000	5
<b>Total</b>	<b>15</b>

Note: For EAS majors one hour of EGR 1125 is required each quarter of the freshman year; for EE and CPE it may be required depending on the math exam outcome the first quarter. Details of the sophomore through senior course scheduling are available online and in the Engineering Student Handbooks.

### Computer Engineering Courses

**CPE 3280 MICROCONTROLLER SYSTEM DESIGN (5)** Prerequisites: EE 1210 and EE/CSC/CPE 3760. Design of hardware and software for embedded systems using a modern microcontroller. Covers hardware interfacing including memory system design, interrupt interfacing, and use of internal and external peripheral devices. Emphasis is placed on assembly language programming of the microcontroller including device drivers, exception and interrupt handling, and interfacing with higher-level languages. Laboratory exercises require assembly language programming and hardware design. Course Equivalent: EE 3280. Attribute: Upper Division.

**CPE 3350 SYSTEMS PROGRAMMING (4)** Prerequisites: CSC 2431 and either CSC 3750 or CPE/CSC/EE 3760. Introduction to operating systems and systems programming. Surveys systems software; operating system interface and functions; utilities and shell programming; linkers and loaders; and translators. Course Equivalent: CSC 3350. Attribute: Upper Division.

**CPE 3550 COMMUNICATION SYSTEM ANALYSIS (5)** Prerequisite: EE 3410. An introduction to principles of modern communication systems with an emphasis on current technological applications. Covers basics such as transmission media (electrical, optical and wireless), analog and digital signaling techniques, data encoding methods and multiplexing mechanisms. Modern communication protocols for networks (Ethernet, IP) and radio links (CDMA, GSM) are analyzed. High-level issues such as security, encryption, cellular management and network modeling are studied. Course Equivalent: EE 3550. Attribute: Upper Division.

**CPE 3760 COMPUTER ORGANIZATION (5)** Prerequisite: CSC 2430 and EE 1210. Recommended: CSC 2431. Study of organization and structuring of the major hardware and software components of computers. Includes mechanics of information transfer and control within a digital computer system. Introduces computer architecture, machine instruction sets and assembly language programming. Course Equivalents: CSC 3760 and EE 3760. Attribute: Upper Division.

**CPE 4150 SOFTWARE ENGINEERING (4)** Prerequisites: CSC 2431 and CSC 3150. Covers topics in software engineering, including team programming, project planning and management, SDLC (software development life cycle) and software quality assurance. Surveys automated tools for use in software engineering. Course requirements include the design and implementation of a major software project. Course Equivalent: CSC 4150. Attribute: Upper Division.

**CPE 4211 MICROPROCESSOR-BASED MIXED SIGNAL SYSTEM DESIGN I (3)** Prerequisites: EE/CPE 3280 and EE/EGR 3730. Study of mixed digital and analog system design including embedded software design. Student teams begin a system-level design of a company-sponsored project (a non-disclosure agreement may be required). Projects typically include use of a microcontroller and may include analog-to-digital converters, digital signal-processing chips, external memories, power supplies, user interfaces and more. Students provide detailed schedules for building prototype systems and present periodic progress reports. During the course, students produce a technical specification, undergo a preliminary design review (PDR) and build a working prototype system. Course Equivalent: EE 4211. Attribute: Upper Division.

**CPE 4212 MICROPROCESSOR-BASED MIXED SIGNAL SYSTEM DESIGN II (3)** Prerequisite: EE/CPE 4211. Continued study of mixed digital and analog system design including embedded software design. Student teams design printed circuit boards for their products using CAD PCB layout tools and continue to refine the prototype hardware and software designs from EE 4211. Special topics include design-for-test, user interface design and minimizing electromagnetic interference (EMI). Teams write a detailed technical report and submit their designs to a critical design review (CDR). Periodic progress reports and team presentations are required. Course Equivalent: EE 4212. Attribute: Upper Division.

**CPE 4213 MICROPROCESSOR-BASED MIXED SIGNAL SYSTEM DESIGN III (3)** Prerequisite: CPE/EE 4212. Designs from EE 4212 are developed into a manufacturing prototype and tested. Covers testing methodology (hardware and software), board debugging and documentation methodology. Teams author operations manuals and detailed technical manuals. Periodic progress reports and final presentations are required. Course Equivalent: EE 4213. Attributes: Upper Division and Writing Course.

**CPE 4350 OPERATING SYSTEMS (4)** Prerequisite: CPE/CSC 3350. Introduces the major functions of operating systems. Covers processes and concurrency; concurrent programming; resource allocation, contention and control; scheduling, memory management and device management. Course Equivalent: CSC 4350. Attribute: Upper Division.

**CPE 4760 ADVANCED COMPUTER ARCHITECTURE (4)** Prerequisite: Either CSC 3750 or CSC/CPE/EE 3760. Recommended: CSC 2431. Studies the architecture of multiprocessor, vector, pipelined and parallel computers. Emphasis placed on principles of parallelism and their application. State-of-the-art super computers are discussed. Course Equivalent: CSC 4760. Attribute: Upper Division.

**CPE 4900 INDEPENDENT STUDY (1-5)** Registration Approval: Independent Study Agreement.

### Electrical Engineering Courses

**EE 1210 INTRODUCTION TO LOGIC SYSTEM DESIGN (5)** Introduction to digital logic design including combinational and sequential logic design with implementation using programmable logic devices and CMOS transistors. Combinational logic covers truth tables, Boolean algebra, logic gates, Karnaugh maps, multiplexers, decoders, ROMs, PLAs and PALs. Sequential logic covers latches, flip-flops, clocks, registers, counters, finite state machines and modern PLDs. Special emphasis is placed on design techniques. Laboratory exercises include designs using both discrete TTL gates and PLDs.

**EE 2726 ELECTRIC CIRCUITS I (4)** Prerequisite: MAT 1228. Study of Basic Ohm's and Kirchhoff's laws, voltage/current sources, nodal and mesh analysis, power transfer, Thevenin's and Norton's Theorems, superposition. Introduction to operational amplifiers, inductance, capacitance and first-order state variable analysis. Includes lab problems and introduction to PSPICE and MATLAB computer software.

**EE 2727 ELECTRIC CIRCUITS II (4)** Prerequisite: EE 2726. Introduction to second-order state variable analysis. Alternating current theory and analysis, power, frequency response, resonance and polo-zero concepts. Introduction to three-phase systems and transformers. Transformers and two-port network concepts. Includes lab problems, PSPICE and MATLAB.

**EE 3000 ELECTRICAL ENGINEERING SEMINAR (1)** Seminar and colloquia on topics related to various electrical engineering upper-division classes. Attribute: Upper Division.

**EE 3028 ELECTRIC CIRCUITS III (4)** Introduction to Laplace transforms applied to network analysis, transmission line theory, signal processing, filters, two-port theory and the use of Fourier series and Fourier transforms. The lab portion includes a design project, the use of Pspice, Matlab and Labview. Attribute: Upper Division.

**EE 3280 MICROCONTROLLER SYSTEM DESIGN (5)** Prerequisites: EE 1210 and EE/CSC/CPE 3760. Design of hardware and software for embedded systems using a modern microcontroller. Covers hardware interfacing including memory system design, interrupt interfacing, and use of internal and external peripheral devices. Emphasis is placed on assembly language programming of the microcontroller including device drivers, exception and interrupt handling, and interfacing with higher-level languages. Laboratory exercises require assembly language programming and hardware design. Course Equivalent: CPE 3280. Attribute: Upper Division.

**EE 3410 SIGNAL AND SYSTEM ANALYSIS (5)** Prerequisites: EE 2727, MAT 1228, 2401, familiarity with MATLAB computer software. Characterization of linear systems by impulse response; convolution and transfer function. Study of linear differential equations and linear difference equations as models. Study of continuous and discrete signals including filters and their effects. Uses transform methods including Fourier series and transforms, FFT, Laplace transforms and Z transforms. Includes computer problems. Attribute: Upper Division.

**EE 3500 POWER SYSTEMS (5)** Prerequisite: EE 2727. Three phase power generation, transmission and distribution systems. Safety and electric code standards. Practical training in material and component selection for commercial and industrial applications. Attribute: Upper Division.

**EE 3550 COMMUNICATION SYSTEM ANALYSIS (5)** Prerequisite: EE 3410. An introduction to principles of modern communication systems with an emphasis on current technological applications. Covers basics such as transmission media (electrical, optical and wireless), analog and digital signaling techniques, data encoding methods and multiplexing mechanisms. Modern communication protocols for networks (Ethernet, IP) and radio links (CDMA, GSM) are analyzed. High-level issues such as security, encryption, cellular management and network modeling are studied. Course Equivalent: CPE 3550. Attribute: Upper Division. Class open to electrical engineering majors.

**EE 3721 ELECTRONICS I - ANALOG DEVICES AND CIRCUITS (5)** Prerequisite: EE 2727. Study of electronic devices and basic circuit configurations. Topics covered include operational amplifiers, diodes, bipolar junction transistors, field-effect transistors and differential amplifiers. Includes lab problems. Attribute: Upper Division.

**EE 3722 ELECTRONICS II ANALOG ELECTRONICS (5)** Prerequisite: EE 3721. Study of frequency response, feedback, output stages and power amplifiers, analog integrated circuits, filters, oscillators, wave-shaping circuits, and dcs to ac conversion. Includes lab problems. Attribute: Upper Division.

**EE 3730 ENGINEERING DESIGN (5)** Prerequisite: EE 3722. An interdisciplinary design course for both electrical engineering (EE) and engineering and applied science (EAS) students. Team design and construction of industrial or self-designed projects. Typical EE projects require analog and digital electronic circuit design, development, construction and testing. EAS design projects require some aspect of the student's chosen science discipline. Interdisciplinary projects are encouraged. All projects require oral and written reports. Includes review and analysis of professional papers within a student's discipline. Course Equivalent: EGR 3730. Attributes: Upper Division and Writing Course.

**EE 3760 COMPUTER ORGANIZATION AND ASSEMBLY LANGUAGE (5)** Prerequisites: CSC 2430 and EE 1210. CSC 2431 is recommended. Study of organization and structuring of the major hardware and software components of computers. Includes mechanics of information transfer and control within a digital computer system. Introduces computer architecture, machine instruction sets and assembly language programming. Course Equivalents: CPE 3760 and CSC 3760. Attribute: Upper Division.

**EE 4211 MICROPROCESSOR-BASED MIXED SIGNAL SYSTEM DESIGN I (3)** Prerequisites: EE/CPE 3280 and EE/EGR 3730. Study of mixed digital and analog system design including embedded software design. Student teams begin a system-level design of a project (a nondisclosure agreement may be required). Projects typically include use of a microcontroller and may include analog-to-digital converters, digital signal-processing chips, external memories, power supplies, user interfaces and more. Students provide detailed schedules for building prototype systems and present periodic progress reports. During the course, students produce a technical specification, undergo several design reviews and build a working prototype system. Course Equivalent: CPE 4211. Attribute: Upper Division.

**EE 4212 MICROPROCESSOR-BASED MIXED SIGNAL SYSTEM DESIGN II (3)** Prerequisite: CPE/EE 4211. Continued study of mixed digital and analog system design including embedded software design. Student teams design printed circuit boards for their products using CAD PCB layout tools and continue to refine the prototype hardware and software designs from EE 4211. Special topics include design-for-test, user-interface design and minimizing electromagnetic interference (EMI). Teams write a detailed technical report and submit their designs to a critical design review. Periodic progress reports and team presentations are required. Course Equivalent: CPE 4212. Attribute: Upper Division.

**EE 4213 MICROPROCESSOR-BASED MIXED SIGNAL SYSTEM DESIGN III (3)** Prerequisite: EE/CPE 4212. Designs from EE 4212 are developed into a manufacturing prototype and tested. Covers testing methodology (hardware and software), board debugging and documentation methodology. Teams author operations manuals and detailed technical manuals. Periodic progress reports and final presentations are required. Course Equivalent: CPE 4213. Attributes: Upper Division and Writing Course.

**EE 4310 ELECTROMAGNETICS (5)** Prerequisites: MAT 1228, MAT 2228 and either PHY 1103 or PHY 1123. Study of electrostatics, magnetostatics, boundary conditions and boundary-value solutions, Maxwell's equations, electromagnetic waves and their propagation, transmission lines, waveguides and antennas. Includes computer and laboratory experiments. Course Equivalent: PHY 4310. Attribute: Upper Division.

**EE 4311 OPTICS AND LASERS (5)** Prerequisite: PHY 4310. General theory of geometrical optics, physical optics, fiber optics, polarization and coherent states, optical devices. Four lectures and one laboratory each week. Offered on demand. Course Equivalent: PHY 4311.

**EE 4450 CONTROL SYSTEM DESIGN (5)** Prerequisite: EE 3410. Analog and digital-control system design using root locus, frequency and PID methods. Includes a comprehensive design and test of a real-time digital control system. MATLAB and SIMULINK are used extensively as design tools. Attribute: Upper Division. Class open to electrical engineering and engineering science majors.

**EE 4491 SOLID STATE PHYSICS (2-5)** Prerequisite: PHY 2321; PHY 4441 recommended. Focuses on lattice statics and dynamics, electrons and Fermi surfaces, transport phenomena, semiconductors and superconductivity. Offered alternate years. Course Equivalent: PHY 4491.

**EE 4900 INDEPENDENT STUDY (1-5)** Registration Approval: Independent Study Agreement. Student works independently with a faculty member on a mutually agreed upon topic. May be repeated for credit up to 15 credits. Attribute: Upper Division.

**EE 4910 SENIOR PORTFOLIO EVALUATION (1)** Final preparation and evaluation of engineering portfolios. Components include design, internship, service and growth. Corequisite: EE 4213. Attribute: Upper Division.

**EE 4950 TOPICS IN ELECTRICAL ENGINEERING (1-5)** Registration Approval: Instructor. An advanced course studying a special interest topic in electrical engineering. Topics and credits may vary between offerings. Attribute: Upper Division. Class open to electrical engineering and engineering science majors. Class not open to freshmen and sophomores.

**EE 4960 SENIOR PROJECT (1-5)** Registration Approval: Instructor. Student works with faculty advisor and most likely an industrial representative on a mutually agreed upon project. Requires submission of application to EE chair three weeks prior to the start of the quarter. Attribute: Upper Division.

### Engineering Courses

**EGR 1125 ENGINEERING STUDY PREPARATION (1)** Required for all freshmen engineering non-honors students unless they receive a waiver from the results of the math test given the first week in calculus. Designed to provide additional skill sets in math and science problem solving, test taking and study habits. Student will develop an individualized and accountable study/work plan to insure engineering success. Will be repeated for credit each of the first three quarters unless a score of B- or better is achieved in the previous quarter's math class. May be repeated for credit in the sophomore year. May be repeated for credit up to 5 credits.

**EGR 1402 INTRODUCTION TO ENGINEERING I (1-2)** Required for all freshmen engineering students. This course is an introduction to the engineering career field and includes guest speakers from the industry, tours of technology companies and development of a Web-based student portfolio.

**EGR 1501 AUTOCAD (1-2)** This course studies the fundamentals needed to use autocad programs. This course may be taken in workshop form for no credit.

**EGR 2391 INTRODUCTION TO MATERIALS SCIENCE (5)** Prerequisites: MAT 1226. Studies crystallization, diffusion, heat treatment and other atomic and electrical processes in metals, ceramics, polymers and composites to aid in material selection for various engineering applications.

**EGR 2891 STATICS (4)** Prerequisite: PHY 1121. Studies vector forces and their analysis, equilibrium of particles and of rigid bodies, structural analysis, distributed forces and internal forces on beams and cables.

**EGR 3000 ENGINEERING SEMINAR (1)** This course is for all EAS third-year students and is preparation for the particular EAS option. It will include seminars and colloquia on topics related to the various EAS upper-division topics. Attribute: Upper Division.

**EGR 3226 QUANTITATIVE AND INSTRUMENTAL ANALYSIS (5)** Prerequisite: CHM 3225. Laboratory-oriented course, dealing with the theory and practice of quantitative analytical chemistry with emphasis on instrumental techniques. Instrumental analysis will include a variety of separation, spectroscopic and electrochemical methods, includes engineering and clinical applications. Course Equivalent: CHM 3226. Attribute: Upper Division.

**EGR 3401 THERMODYNAMICS (4)** Prerequisites: CHM 1211, and MAT 1228, and either PHY 1103 or 1123. Studies equilibrium and non-equilibrium, and properties of gases, liquids and solids from thermodynamic processes. Engineering applications include elements of statistical thermodynamics. Course Equivalents: CHM 3401 and PHY 3401. Attribute: Upper Division.

**EGR 3402 INTRODUCTION TO ENGINEERING II (2)** Required for all transfer engineering students. Introduction to the SPU engineering program. Provides instruction on the software and hardware that is utilized in the labs. This information is normally covered in beginning classes. Included is the development of a Web-based student portfolio. Attribute: Upper Division.

**EGR 3600 ENVIRONMENTAL ENGINEERING (5)** Prerequisites: CHM 1211, BIO 2101. Studies the fundamentals of air- and water-quality systems: filters, scrubbers and precipitators, control of volatile organic compounds, gaseous emissions, particulate matter, waste water, and solid and hazardous wastes, environmental toxicity and industrial health and safety issues. Attribute: Upper Division.

**EGR 3650 ALTERNATIVE ENERGIES (5)** Prerequisite: EE 2726. Introduces different energy sources and investigates methods to convert this energy into a useful form. Energy sources that are investigated include solar, hydro, wind, biomass and hydrogen fuel cell. Includes examples of the use of each of these power sources. Attribute: Upper Division.

**EGR 3730 ENGINEERING DESIGN (5)** Prerequisite: EE 3722. An interdisciplinary design course for both electrical engineering (EE) and engineering and applied science (EAS) students. Team design and construction of industrial or self-designed projects. Typical EE projects require analog and digital electronic circuit design, development, construction and testing. EAS design projects require some aspect of the student's chosen science discipline. Interdisciplinary projects are encouraged. All projects require oral and written reports. Includes review and analysis of professional papers within a student's discipline. Course Equivalent: EE 3730. Attributes: Upper Division and Writing Course.

**EGR 3800 BIOMEDICAL ENGINEERING I (5)** Prerequisites: BIO 2101 and EE 2726 or special permission of instructor. Introduction to the history of biomedical engineering, biosensors, bioelectric phenomena, bioinstrumentation, biosignal processing, biomechanics, cardiovascular mechanics and ultrasound. Attribute: Upper Division.

**EGR 3841 DYNAMICS (5)** Prerequisites: MAT 1228, MAT 2401, and either PHY 1101 or PHY 1121. Study of vectorial treatment of Newton's laws for undamped and damped linear, rotational and vibrational motion in several coordinate systems. Includes solving problems for particles and rigid bodies using energy, momentum and angular momentum conservation laws. Course Equivalent: PHY 3841. Attribute: Upper Division.

**EGR 3871 TRANSPORT PROCESSES (5)** Prerequisites: MAT 1228, MAT 2401 and PHY 1123. Studies fluid mechanics, both statics and dynamics. Emphasis is on the control volume approach, covering the transport of mass, energy, momentum and angular momentum, with engineering applications. Offered on demand. Attribute: Upper Division.

**EGR 4311 ENGINEERING SENIOR DESIGN LAB (5)** Prerequisite: EGR 4940. Intended for EAS students only. Individualized or group senior project based on internship experience. Includes instruction on design and appropriate use of technology. Attribute: Upper Division.

**EGR 4352 CELL BIOLOGY (5)** Prerequisites: BIO 3325 and CHM 2371. Examines structure and functions of bacteria, plants and animals emphasizing cellular specialization, organelle models and chemical dynamics. Includes laboratory. Course Equivalent: BIO 4352. Attribute: Upper Division.

**EGR 4740 INTERNSHIP PREPARATION (1)** Preparatory course for those taking EGR 4940 Engineering Internship. Includes resume preparation, report writing and oral presentation. A research paper is required. Attributes: Upper Division and Writing Course.

**EGR 4900 INDEPENDENT STUDY IN ENGINEERING (1-5)** Registration Approval: Independent Study Agreement. Student does an independent study under direction of a faculty member. Study of problems in a topic for which related courses have been completed. May be repeated for credit up to 15 credits. Attribute: Upper Division.

**EGR 4910 WASHINGTON STATE FE/ET PREPARATION (1)** Registration Approval: Engineering Faculty. Seminar review of principles and problem solving in math, chemistry, physics, electrical engineering, engineering science and engineering economics in the proportions these topics are covered in the Washington state EIT test. Attribute: Upper Division.

**EGR 4930 ENGINEERING APPLICATIONS IN INDUSTRY (1-10)** Registration Approval: engineering faculty. Provides prearranged coordinated field experience in engineering employment in industry. A coordinating committee plans the program with the student and evaluates the learning experience. May be repeated for credit up to 10 credits. Attribute: Upper Division.

**EGR 4940 ENGINEERING INTERNSHIP (1-5)** Internship I is normally a summer job with an engineering company. The job is fully coordinated between the intern's faculty advisor and an engineer in the host company. The jobs are intended to be a professional learning experience for the student. Internship II is a company-sponsored design project during the senior year. All internships are designed to give the student experience in the real-world engineering process. An oral and written report are presented at a scheduled seminar. May be repeated for credit up to 5 credits. Attributes: Upper Division and Writing Course.

## Faculty

**Kevin W. Bolding**, Associate Professor of Computer and Electrical Engineering; B.A., Rice University, 1988; M.S., University of Washington, 1991; Ph.D., 1993. At SPU since 1995.

**Anthony Donaldson**, Professor of Electrical Engineering; Chair of Electrical Engineering Department; B.S., Texas Tech University, 1979; M.S. Texas Tech University, 1982; Ph.D. Texas Tech University, 1990; M.A. Asbury Theological Seminary, 1994. At SPU since 1998.

**John Lindberg**, Assistant Professor of Physics and Engineering; B.S., B.A., North Park College, 1983; M.S., University of Washington, 1986; Ph.D., Heriot Watt University, 1999. At SPU since 1999.

**Donald Peter**, Associate Professor of Electrical Engineering; B.S., Seattle Pacific College, 1974; M.S.E.E., University of Washington, 1976. NASA Faculty Fellow, J.P.L., Cal Tech, 1989. At SPU since 1987.

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www.spu.edu/depts/eng/

**Mark Walhout**, Chair; **Tom Amorose**, **Christine Chaney**, **Susan Gallagher**, **Jennifer Maier**, **Luke Reinsma**, **Kimberly Segall**, **Doug Thorpe**, **Tom Trzyna**, **Gregory Wolfe**, **Suzanne Wolfe**

Courses in English give students the opportunity to read a rich variety of excellent literature and to improve their own writing and thinking. Literature courses show how language enables us to explore and shape our views of God, humanity and the earth; writing courses stress writing as a process of communication with readers and as an exploration of one's own ideas and emotions.

Courses in English also allow students to discuss the fundamental questions of human life and meaning, as well as to cultivate an appreciation of individual and cultural diversity. An English major prepares students to enter professions such as the ministry, law, social work or medicine; to work in a variety of businesses and governmental agencies; to teach in elementary or secondary schools; to pursue graduate study in English or the humanities; and generally to enter life with an appreciation for God's gifts of language and literature.

### Goals of the Major

1. Knowledge of British, American and world literature.
2. Skill in literary criticism and scholarship.
3. Understanding of the relationship between literature and the Christian faith.
4. Skill in prose writing, whether critical or creative.

**Image: A Journal of the Arts and Religion.** *Image* is a quarterly literary journal with editorial offices at SPU. For more information about the journal, visit the *Image* Web site at [www.imagejournal.org](http://www.imagejournal.org). English majors may apply to work as interns on the editorial staff of the journal.

### British Isles Quarter

The British Isles Quarter (BIQ) is a biennial study-abroad program offering students an opportunity to take regular English courses from an SPU professor while residing and traveling in Great Britain. Professors, courses and locations vary. For details about upcoming BIQs, visit the English Department Web site.

### Admission to the Major

Applicants for a major in English must display an average GPA of 2.5 or higher (4.0 = A) in any two of the following: ENG 2225, 2251, 2252, 2253.

### Requirements for the English Major

(63 credits; 30 upper division)  
English majors choose a concentration in either literature or creative writing. All majors take the core courses.

### Core Courses

ENG 2225 Practical Criticism: Writing and Research .....	5
ENG 2251 English Literature: Beginnings Through Milton .....	5
ENG 2252 English Literature: Restoration through Victorian .....	5
ENG 2253 American Literature: Beginnings to 1900 .....	5
ENG 3246 World Literature: European .....	5
ENG 4225/6 Senior Capstone .....	5
ENG 4445 Shakespeare .....	5
<b>Total .....</b>	<b>35</b>

### Literature Concentration

Choose at least one course from each of the following:

#### British Literature

ENG 3345 The Arthurian Tradition .....	5
ENG 3346 Literature of the English Renaissance .....	5
ENG 3348 Eighteenth-Century Literature .....	5
ENG 3348 Romantic Poetry and Fiction .....	5
ENG 3351 Victorian Poetry and Fiction .....	5

#### American Literature

ENG 3235 Literature of the American Renaissance .....	5
ENG 3334 American Ethnic Literature .....	5
ENG 3336 The Age of Realism .....	5
ENG 4334 American Ethnic Literature: Special Topics .....	5

#### Twentieth-Century Literature

ENG 3338 Contemporary Fiction .....	5
ENG 3352 Modern Fiction .....	5
ENG 4425 Modern Poetry .....	5
ENG 4426 Contemporary Poetry .....	5

#### World Literature

CLA 3014 Survey of Ancient Greek Literature .....	5
CLA 3204 Survey of Classical Latin Literature .....	5
ENG 2248 New International Fiction .....	5
ENG 3380 Postcolonial African Literature .....	5
ENG 3381 Postcolonial Asian Literature .....	5
EUR 3287 Mythology in Literature .....	5
FRE 3205 Topics in French Literature .....	5
GER 3206 Topics in German Literature .....	5
RUS 3207 Russian Writers .....	3
SPN 4401 Topics in Spanish Literature .....	3
SPN 4501 Topics in Latin American Literature .....	3
Electives* .....	8-10
<b>Total .....</b>	<b>28</b>

\*Electives include ENG 1110 and all ENG courses above 2000, with the exception of ENG 2201.

### Creative Writing Concentration

#### Writing

Take all three of the following:	
ENG 2215 Imaginative Writing .....	3
ENG 3180 Advanced Grammar .....	3
ENG 4601 History of English .....	3

#### Contemporary Literature

Choose at least two of the following:

ENG 3338 Contemporary Fiction .....	5
ENG 3352 Modern Fiction .....	5
ENG 4425 Modern Poetry .....	5
ENG 4426 Contemporary Poetry .....	5

Choose at least one of these three genre sequences:

**Poetry**

ENG 3316 Workshop in Writing Poetry .....	3
ENG 4316 Publishing Poetry .....	3

**Fiction**

ENG 3317 Workshop in Writing Fiction .....	3
ENG 4317 Publishing Fiction .....	3

**Creative Nonfiction**

ENG 3318 Creative Nonfiction .....	3
ENG 4318 Publishing Creative Nonfiction .....	3

**Electives**

ENG 3301 Advanced Expository Writing .....	3
TRE 4760 Playwriting .....	3
ENG 4940 English Internship .....	1-5
ENG 4953 Writing Workshop: Special Topics .....	1-5
<b>Total</b> .....	<b>28</b>

**Foreign Language Requirement**

All students who complete the English major must be proficient in a foreign language. Proficiency is established upon satisfactory completion of the third quarter of a first-year college-level foreign language course or its equivalent. For alternate ways of satisfying this requirement, see the General Education section of the *Catalog*. Language proficiency is not satisfied by transfer of an associate's degree from a community college unless the transcript records the completion of foreign language coursework. It is strongly recommended, however, that English majors complete at least two years of study of either a contemporary or ancient foreign language.

**Admission to the Minors**

Applicants for minors in literature or writing must display an average GPA of 2.5 or higher (4.0 = A) in at least two English courses at the 2000 level or above.

**Requirements for the Literature Minor**

(30 credits; 15 upper division)

ENG 2251 English Literature:	
Beginnings Through Milton .....	5
ENG 2252 English Literature:	
Restoration Through Victorian .....	5
ENG 2253 American Literature: Beginnings to 1900 .....	5
ENG 3246 World Literature: European .....	5
ENG 4445 Shakespeare .....	5
Any upper-division course(s) from American, British, contemporary, world or elective categories .....	5
<b>Total</b> .....	<b>30</b>

This minor partially fulfills the requirements for a supporting endorsement on a teaching credential. See the School of Education section for additional requirements.

**Requirements for the Writing Minor**

(30 credits; 15 upper division)

Writing minors choose an emphasis in either creative or professional writing.

<b>Creative Writing Emphasis</b>	
ENG 2215 Imaginative Writing .....	3
ENG 3180 Advanced Grammar .....	3
ENG 4601 History of English .....	3

Choose at least one of the following genre sequences:

**Poetry**

ENG 3316 Workshop in Writing Poetry .....	3
ENG 4316 Publishing Poetry .....	3

**Fiction**

ENG 3317 Workshop in Writing Fiction .....	3
ENG 4317 Publishing Fiction .....	3

**Creative Nonfiction**

ENG 3318 Creative Nonfiction .....	3
ENG 4318 Publishing Creative Nonfiction .....	3

Electives* .....	3-15
<b>Total</b> .....	<b>30</b>

**Professional Writing Emphasis**

ENG 3180 Advanced Grammar .....	3
ENG 3205 Writing in the Professions .....	3
ENG 3301 Advanced Expository Writing .....	3
ENG 3318 Creative Nonfiction .....	3
ENG 4940 English Internship .....	3
Electives* .....	15
<b>Total</b> .....	<b>30</b>

\*All elective credits must be approved by the minor advisor. Electives may be selected from among courses in various disciplines depending on the student's major and career goals. Non-English majors with an emphasis in creative writing must include at least 10 credits of literature in their electives. English majors may apply no more than 10 credits of work in this minor toward their major.

**ENGLISH COURSES**

**ENG 0102 WRITING TUTORIAL (2)** Prerequisite: Score of 2-3 on English Placement Test. Supports work done in ENG 2201 through a series of conferences with the instructor. Students must be enrolled in the designated section of ENG 2201 to take this course but not in any other section. Credits for this course do not apply toward graduation. Corequisite: ENG 2201. Attribute: Remedial.

**ENG 1004 SPELLING IMPROVEMENT (1)** Offers the opportunity for self-paced tutorial to improve spelling skill. Consists of exercises, diagnostic tests and reviews. Primarily a course for education students working to improve their spelling.

**ENG 1110 LITERATURE AND FAITH (5)** Examines the treatment of belief and disbelief in literature shaped by various Christian traditions and by a variety of social and literary contexts. Instructor may choose to focus on American, British or contemporary literature. Attributes: Arts and Humanities B and Literature Core.

**ENG 2201 INTERMEDIATE COLLEGE WRITING (3)** Prerequisite: ENG 0102 or score of 4 on English placement test. Improves upon elementary college-writing skills through the assignment of writing tasks typically found in college coursework. Readings and discussion center on the West confronting the non-Western world. Emphasis is on the personal, religious, cultural, political and economic effects of Western/non-Western contact. Attributes: English Skills Competency and Oral or Written Communication.

**ENG 2215 IMAGINATIVE WRITING (3)** Prerequisites: ENG 2201 (or score of 5-6 on English Placement Test) and a literature course. Fosters the vision and skills necessary for effective writing of poetry and fiction. Attributes: English Skills Competency and Oral or Written Communication.

**ENG 2225 PRACTICAL CRITICISM: WRITING AND RESEARCH (5)** Prerequisite: Literature course. An introduction to various contemporary approaches to the study of literature, with emphasis on scholarly research, thinking and writing. Includes consideration of Christian approaches to criticism. Designed for students intending to major in English.

**ENG 2230 LITERATURE OF AMERICAN WEST (5)** Explores poetry, essays and fiction associated with the "Idea of the West" developed on the North American continent over the past two

centuries. Particular emphasis is given to the importance of place in shaping the literature and the spirituality of writers in the West. Attributes: Arts and Humanities B and Literature Option.

**ENG 2234 LITERATURE BY WOMEN (5)** A study of poems, stories, plays and essays written in English by women. The course will include classic as well as rediscovered women writers, and will examine the significant themes, the literary forms and the social contexts of literature written by women. Attributes: Arts and Humanities B and Literature Option.

**ENG 2248 NEW INTERNATIONAL FICTION (5)** Explores recent fiction from around the world, featuring international authors who write in English (e.g., Chinua Achebe, Salman Rushdie) or have been strongly influenced by British or American literature (e.g., Gabriel Garcia-Marquez, Haruki Murakami). Attributes: Arts and Humanities B and Literature Option.

**ENG 2251 ENGLISH LITERATURE: BEGINNINGS THROUGH MILTON (5)** Prerequisite: Literature course. Surveys the first three periods of English literary history: Old English, including the eighth-century Anglo-Saxon epic *Beowulf*; Middle English, including Chaucer's *Canterbury Tales*; and English Renaissance, concluding with Milton's 17th-century *Paradise Lost*.

**ENG 2252 ENGLISH LITERATURE: RESTORATION THROUGH VICTORIAN (5)** Prerequisite: Literature course. Surveys major authors, themes, genres and movements in British literature of the 18th and 19th centuries, including intellectual and social contexts.

**ENG 2253 AMERICAN LITERATURE: BEGINNINGS TO 1900 (5)** Prerequisite: Literature course. Surveys major authors, themes, genres and movements in American literature from the colonial era through the modern period, including intellectual and social contexts.

**ENG 3000 BRITISH ISLES ORIENTATION (1)** Registration Approval: Instructor. Introduces students to the literary and cultural landscape of the British Isles. Orients students to the academic work of the ensuing British Isles Quarter, and to the challenges and opportunities of traveling and studying in Britain. Addresses practical matters such as financial aid, BIQ itinerary, travel safety and post-quarter travel. Graded pass/fail. Offered alternate years. Attribute: Upper Division.

**ENG 3180 ADVANCED GRAMMAR (3)** This basic grammar course brings insights from both traditional and generative-transformational approaches to explain how language works. Especially designed for teachers of English, it also introduces students to parts of speech, phrases and clauses, as well as to grammatical and mechanical rules for generating standard American English. Attribute: Upper Division.

**ENG 3205 WRITING IN THE PROFESSIONS (3)** Prerequisite: ENG 2201 or score of 5-6 on English placement test. Develops abilities associated with writing tasks in the professions, including reports, correspondence, proposals and procedure manuals. Emphasizes role of persuasion in routine and special writing tasks. Also addresses visual design in the preparation of documents and the impact of digital technologies on writing in the professional workplace. Attributes: English Skills Competency, Oral or Written Communication, Upper Division and Writing Course.

**ENG 3235 LITERATURE OF THE AMERICAN RENAISSANCE (5)** Prerequisite: ENG 2253 or permission of instructor. Focuses on the first flowering of American literature in the difficult years before the Civil War. Includes works by such writers as Emerson, Thoreau, Douglass, Hawthorne, Melville, Stowe, Whitman and Dickinson. Offered alternate years. Attribute: Upper Division.

**ENG 3246 WORLD LITERATURE: EUROPEAN (5)** Prerequisite: Literature course. Explores the European literary heritage of British and American literature through intensive study of selected classics in translation, including works by such authors as Homer, Dante, Cervantes and Dostoevsky. Attributes: Upper Division and Writing Course.

**ENG 3301 ADVANCED EXPOSITORY WRITING (3)** Prerequisite: ENG 2201 or score of 5-6 on English placement test. Advanced composition for students who have mastered the basics of college writing and who wish to develop a personal style suitable for various writing occasions. Attributes: English Skills Competency, Oral or Written Communication, Upper Division and Writing Course.

**ENG 3310 ELEMENTS OF PROSODY (2)** For English majors and others interested in exploring in greater depth the workings of poetry, with particular attention paid to the relationship between

the elements that make up the poem (rhythm, structure, sound qualities – i.e., the "music" of the poem) and where those elements take us. Attribute: Upper Division.

**ENG 3316 WORKSHOP IN WRITING POETRY (3)** Prerequisite: ENG 2215 or permission of instructor. Refines skills and techniques necessary for the effective writing of poetry. Students examine the work of professional poets from the perspective of apprentice to the craft. Offered alternate years. Attribute: Upper Division.

**ENG 3317 WORKSHOP IN WRITING FICTION (3)** Prerequisite: ENG 2215 or permission of instructor. Refines skills and techniques necessary for the effective writing of short fiction. Students analyze the work of professional fiction writers from the perspective of apprentices to the craft. Offered alternate years. Attribute: Upper Division.

**ENG 3318 CREATIVE NONFICTION (3)** Prerequisite: ENG 2201 or score of 5-6 on English Placement Test. Examines the literary essay, emphasizing contemporary authors such as Diane Ackerman, Annie Dillard and Barry Lopez; "schools" such as the New Journalists and the environmental essayists; and publications such as *The New Yorker* and *The Atlantic*. Special attention will be paid to students' development as writers of nonfiction. Attributes: Oral or Written Communication, Upper Division and Writing Course.

**ENG 3334 AMERICAN ETHNIC LITERATURE (5)** Traces the expression in novels, plays, poems and essays of the minority groups who have been a part of the American people, particularly emphasizing the writing of African Americans. Attributes: Arts and Humanities B, Literature Option and Upper Division.

**ENG 3336 THE AGE OF REALISM (5)** Prerequisite: ENG 2253 or permission of instructor. Focuses on the development of realism and naturalism in the era of modernization following the Civil War. Includes work by such writers as Howells, James, Twain, Chopin, Crane, Dreiser and Wharton. Offered alternate years. Attribute: Upper Division.

**ENG 3338 CONTEMPORARY FICTION (5)** Prerequisite: ENG 2252 and 2253 or permission of instructor. Considers British and American fiction published after 1945, including both realistic and postmodern works by such writers as Carver, DeLillo, Ishiguro, Murdoch, Nabokov, O'Connor and Pynchon. Offered alternate years. Attribute: Upper Division.

**ENG 3345 THE ARTHURIAN TRADITION IN EARLY ENGLISH LITERATURE (5)** Prerequisite: ENG 2251 or permission of instructor. Examines the growth of the Arthurian legend in the works of Nennius, Gildas, Geoffrey of Monmouth and Chretien de Troyes. Also considers how the legend flourishes in *Gawain and the Green Knight* and Malory's *Morte d'Arthur*. Offered alternate years. Attribute: Upper Division.

**ENG 3346 LITERATURE OF THE ENGLISH RENAISSANCE (5)** Prerequisite: ENG 2251 or permission of instructor. Considers the "Golden Age" of Elizabeth I and the darker days that followed, as seen through the works of Wyatt, Spenser, Sidney, Raleigh, Shakespeare, Bacon, Milton and other contemporaries. Special attention given to written explication of poems by Donne, Herbert and Marvell. Offered alternate years. Attribute: Upper Division.

**ENG 3347 18TH-CENTURY LITERATURE (5)** Prerequisite: ENG 2252 or permission of instructor. Considers 18th-century British literature in the context of the Enlightenment. Focuses on new understandings of the self and society that illuminate many of our contemporary assumptions. Includes works by such writers as Defoe, Dryden, Swift, Fielding, Pope and Johnson. Offered alternate years. Attribute: Upper Division.

**ENG 3348 ROMANTIC POETRY AND FICTION (5)** Prerequisite: ENG 2252 or permission of instructor. Studies selected works of such British Romantic writers, including Blake, Wordsworth, Coleridge, Byron, Keats and the Shelleys. Offered alternate years. Attribute: Upper Division.

**ENG 3351 VICTORIAN POETRY AND FICTION (5)** Prerequisite: ENG 2252 or permission of instructor. Studies the poetry of the Brownings, Tennyson, Arnold and Christina Rossetti as inheritors of the Romantic tradition and novels by the Brontes, Dickens, Eliot and Hardy. Special attention to the various ideologies of Victorian culture in comparison to contemporary values. Offered alternate years. Attribute: Upper Division.

**ENG 3352 MODERN FICTION (5)** Prerequisite: ENG 2252 and 2253 or permission of instructor. Studies major fictional works of the early 20th century, including novels and short stories by such

authors as Conrad, Faulkner, Hemingway, Lawrence, Joyce and Woolf. Offered alternate years. Attribute: Upper Division.

**ENG 3380 POSTCOLONIAL AFRICAN LITERATURE (5)** Prerequisite: Literature course. Examines the work of a variety of authors from the continent of Africa in the light of colonialism and its aftermath. Focuses primarily on English-language writers such as Achebe, Coetzee, Dangarembga, Fugard, Gordimer, Ngugi and Soyinka. Offered alternate years. Attribute: Upper Division.

**ENG 3381 POSTCOLONIAL ASIAN LITERATURE (5)** Prerequisite: Literature course. Examines the work of a variety of authors from the continent of Asia in the light of colonialism and its aftermath. Focuses primarily on English-language writers such as R.K. Narayan, Salman Rushdie, Anita Desai, Michael Ondaatje and Kazuo Ishiguro. Offered alternate years. Attribute: Upper Division.

**ENG 4225 LITERATURE CAPSTONE (5)** Prerequisite: ENG 2225, UCOR 3000 and UFDN 3000, or permission of instructor. Studies a major text, its context and its reception. Examples of the kind of text to be considered include the *Aeneid*, *Canterbury Tales*, *Paradise Lost*, *Moby Dick*, *Middlemarch* and *Ulysses*. Students will complete a significant literary essay, which draws upon their skills and experience as English majors. They will also write a reflective self-assessment of their learning experience that draws upon learning in the liberal arts, relates it to learning in their English major, and reflects upon the relationship between faith and the discipline of literary studies. May be repeated for credit up to 10 credits. Attributes: Upper Division and Writing Course. Class open to English majors. Class not open to freshmen and sophomores.

**ENG 4226 CREATIVE WRITING CAPSTONE (5)** Prerequisite: ENG 2215, UCOR 3000 and UFDN 3000, or permission of instructor. Students will complete a significant creative-writing project that draws upon their skills and experience as English majors. They will also write a reflective self-assessment of their learning experience that draws upon learning in the liberal arts, relates it to learning in their English major and reflects upon the relationship between faith and the discipline of creative writing. May be repeated for credit up to 10 credits. Attributes: Upper Division and Writing Course. Class open to English majors. Class not open to freshmen and sophomores.

**ENG 4316 PUBLISHING POETRY (3)** Registration Approval: Instructor. Prerequisite: ENG 3316. Explains the process of preparing and submitting poems for publication. Topics covered include poetry magazines, small presses, agents and editors, and current trends in publishing. Students will prepare and submit original work for possible publication. Offered alternate years. Attribute: Upper Division. Class not open to freshmen and sophomores.

**ENG 4317 PUBLISHING FICTION (3)** Registration Approval: Instructor. Prerequisite: ENG 3317. Focuses on the process of preparing and submitting fiction for publication. Topics covered include fiction magazines, publishing houses, agents and editors, and current trends in publishing. Students will prepare and submit original work for possible publication. Offered alternate years. Attribute: Upper Division. Class not open to freshmen and sophomores.

**ENG 4318 PUBLISHING CREATIVE NONFICTION (3)** Registration Approval: Instructor. Prerequisite: ENG 3318. Focuses on the process of preparing and submitting creative nonfiction for publication. Topics covered include literary magazines, publishing houses, agents and editors, and current trends in publishing. Students will prepare and submit original work for possible publication. Offered alternate years. Attribute: Upper Division. Class not open to freshmen and sophomores.

**ENG 4334 AMERICAN ETHNIC LITERATURE: SPECIAL TOPICS (5)** Prerequisite: ENG 2253 or permission of instructor. Explores various topics pertinent to the lives and literature of ethnic Americans. Depending on topic, focus may be on Native-American, African-American, Latino/Latina or Asian-American authors. Offered alternate years. May be repeated for credit up to 10 credits. Attribute: Upper Division.

**ENG 4425 MODERN POETRY (5)** Prerequisite: ENG 2252 and 2253, or permission of instructor. Concentrates on how to read, understand, evaluate and enjoy the work of major modern poets, including Yeats, Pound, Eliot, Stevens, Williams and Moore. Offered alternate years. Attribute: Upper Division.

**ENG 4426 CONTEMPORARY POETRY (5)** Prerequisites: ENG 2252 and 2253, or permission of instructor. Considers British and American poetry from 1945 to the present. If possible, students

should take ENG 4425 first. Offered alternate years. Attribute: Upper Division.

**ENG 4445 SHAKESPEARE (5)** Prerequisite: ENG 2251 or permission of instructor. Considers Shakespeare's comedies, histories, tragedies and romances while studying his art and thought in relation to the Elizabethan background. Attribute: Upper Division.

**ENG 4601 HISTORY OF ENGLISH (3)** Examines Anglo-Saxon, Middle and modern forms of English in historical development. Includes phonology, morphology, syntax and some discussion of the relationship of each language stage to literary expression during its era. Offered alternate years. Course Equivalent: LIN 4601. Attribute: Upper Division.

**ENG 4661 THE BEST OF C.S. LEWIS (3)** Identifies basic literary, philosophical and theological categories of Lewis' works. Studies the great themes that permeate Lewis' literature, through examining his major works. Attribute: Upper Division.

**ENG 4685 HISTORY OF LITERARY THEORY (5)** Prerequisite: ENG 2225 or permission of instructor. Studies the major issues and schools of literary theory in terms of their historical development. The course is especially appropriate for advanced majors. It also provides a useful synthesis for those who might be considering graduate studies in English. Offered alternate years. Attribute: Upper Division.

**ENG 4900 INDEPENDENT STUDY (1-5)** Registration Approval: Independent Study Agreement. May be repeated for credit up to 15 credits. Attribute: Upper Division. Class not open to freshmen and sophomores.

**ENG 4901 INDEPENDENT STUDY ABROAD (1-5)** Registration Approval: Independent Study Agreement. Reserved for students who wish to arrange for independent study credit while abroad during the British Isles Quarter. Attribute: Upper Division.

**ENG 4921 DIRECTED READINGS IN THE C.S. LEWIS CIRCLE (1-5)** Registration Approval: Independent Study Agreement. Offers directed study in the fiction and/or literary criticism of C.S. Lewis, J.R.R. Tolkien, Dorothy L. Sayers and Charles Williams. Examples of the belles-lettres: *Till We Have Faces: A Myth Retold* (Lewis), *The Lord of the Rings* (Tolkien), *The Man Born to Be King* (Sayers) and *Descent into Hell* (Williams). Attribute: Upper Division.

**ENG 4930 ENGLISH PRACTICUM (1-5)** Registration Approval: Instructor. For advanced students who wish to assist as tutors, discussion leaders and readers in lower-division English classes. May be repeated for credit up to 6 credits. Attribute: Upper Division. Class not open to freshmen and sophomores.

**ENG 4940 COOP EDUCATION: ENGLISH INTERNSHIP (1-5)** Registration Approval: Intern Learning Contract Req. Applies writing skills in varied employment settings; possibilities include public relations offices, newspapers and other informational services. Students may suggest their own internships in consultation with the faculty supervisor, as long as writing skills are used and other internship criteria are met. May be repeated for credit up to 6 credits. Course Equivalent: JRN 4940. Attribute: Upper Division. Class not open to freshmen and sophomores.

**ENG 4941 COOP EDUCATION: ENGLISH INTERNSHIP (1-5)** Registration Approval: Intern Learning Contract Req. See course description for ENG 4940. May be repeated for credit up to 6 credits. Course Equivalent: JRN 4941. Attribute: Upper Division. Class not open to freshmen and sophomores.

**ENG 4953 WRITING WORKSHOP: SPECIAL TOPICS (1-5)** Registration Approval: Instructor. Offers an intensive writing experience in a small workshop setting. Genres, themes and locations vary. May be repeated for credit up to 10 credits. Attribute: Upper Division.

### Faculty

**Thomas Amorose**, *Professor of English; Director of Writing*; B.A., Ohio State University, 1972; M.A. 1974, University of Washington; Ph.D., 1978. At SPU since 1996.

**Christine Chaney**, *Assistant Professor of English*; B.A., University of Washington, 1982; M.A., University of Washington, 1993; Ph.D., 1998. At SPU since 1999.

**Susan VanZanten Gallagher**, *Professor of English; Director of University Scholars*; B.A., Westmont College, 1978; M.A., Emory University, 1981; Ph.D., 1982. At SPU since 1993.

**Jennifer Maier**, *Assistant Professor of English*; B.A./B.S., University of Washington, 1985; M.A., 1987; Ph.D., Tulane University, 1998. At SPU since 1993.

**Luke Reinsma**, *Professor of English*; B.A., Calvin College, 1970; M.A., University of Michigan, 1974; Ph.D., 1978. At SPU since 1984.

**Kimberly Segall**, *Assistant Professor of English*; B.A. Calvin College, 1992; M.A., Northwestern University, 1996; Ph.D., 2001. At SPU since 2001.

**Douglas Thorpe**, *Associate Professor of English*; B.A., Beloit College, 1975; M.A., University of Washington, 1977; Ph.D., 1983. At SPU since 1988.

**Thomas Trzyna**, *Professor of English*; B.A., University of California, 1968; M.A., University of Washington, 1974; Ph.D., 1977. At SPU since 1981.

**Mark Walhout**, *Professor of English; Chair of English*; B.A., Wheaton College, 1981; M.A., Northwestern University, 1982; Ph.D., 1985. At SPU since 1987.

**Gregory Wolfe**, *Writer-in-Residence and Lecturer in English*; B.A., Hillsdale College, 1980; M.A., Oxford University, 1983. At SPU since 2000.

**Suzanne Wolfe**, *Lecturer in English*; B.A., Oxford University, 1984; M.A., Oxford University, 1986. At SPU since 2000.

## European Studies

See Languages and Special Programs

## Family and Consumer Sciences

Peterson Hall  
(206) 281-2195  
www.spu.edu/depts/fcs

**Barbara Bovy**, *Director*; **Evette Hackman**, **Sandra Hartje**, **Sharleen Kato**, **Jaeil Lee**, **Gaile Moe**

Family and consumer sciences (FCS) is a multidisciplinary field of study integrating and applying knowledge from research within the discipline, the natural sciences, social and behavioral sciences and the arts. Using basic principles from these disciplines, family and consumer sciences offers solutions to problems faced by individuals, families and communities. Students can major in elementary or secondary family and consumer sciences education; general family and consumer sciences; food and nutritional sciences; or clothing, textiles and interior design. The program provides a strong undergraduate background for those students wishing to attend graduate school. Practicum and internship experiences are available in business, public service and government, and are an integral part of the curriculum.

### Requirements for the Majors

A variety of degree programs are available in family and consumer sciences, each built around a common core of

courses designated as the family and consumer science core curriculum. Students select a major from the options offered and these courses are taken concurrently with the core curriculum. Of the total credits required for a family and consumer science major, 25 credits must be upper-division credits. All students desiring degrees in family and consumer sciences must meet the department's requirements for major status (2.5 GPA overall and 2.8 GPA for dietetics) and be approved as majors by the department's faculty. Major status application can be made after three courses in FCS are completed.

### Core Curriculum Required for All Majors in Family and Consumer Sciences

(9-10 credits)

Taken in the following order:

FCS 1050 Introduction to FCS*	1-2
FCS 3240 Individual and Family Development	5
FCS 4630 Foundations and Contemporary Issues	3
<b>Total</b>	<b>9-10</b>

\*1 credit required for junior and senior transfers entering SPU with an associate's degree, otherwise 2 credits.

Additional courses required for each major are listed as follows:

### Family and Consumer Sciences Majors

The B.A. degree is offered in elementary and secondary family and consumer sciences education and general family and consumer sciences. The general family and consumer sciences area offers a focus in the generalist area or in one of the student-designed options of child and family studies or consumer relations. All majors take the family and consumer sciences core. In addition, students seeking teacher certification in family and consumer sciences education at either the elementary or secondary level must meet the requirements of the teacher education program.

### Elementary Family and Consumer Science Education

(56-63 credits; 25 upper-division FCS credits required)

<b>Family and Consumer Science Core</b>	<b>9-10</b>
BIO 1100 Biological Science: Human Nutrition (5)	
or FCS 2385 Food and the Consumer (3)	3-5
FCS 2365 Food Science	5
FCS 1710 Design Fundamentals (5)	
or FCS 2702 Introduction to Interior Design (3)	3-5
FCS 2830 Textiles for the Consumer I	5
FCS 3220 Child Development	3
FCS 3385 Food and Culture (3)	
or FCS 3710 Family Housing (5)	3-5
FCS 3410 Individual and Family Finance	4
FCS 3460 Family Resource Management	3
FCS 3564 Presentation Skills	4
FCS 3875 Appearance and Human Behavior	3
FCS 4240 Family Relations	3
FCS 4250 Strategies in Early Childhood	3

FCS 4511 Curriculum and Evaluation in FCS Education ..... 5  
**Total credits for elementary FCS education ..... 47-53**  
**Total credits for major ..... 56-63**

**Secondary Family and Consumer Science Education**

(Meets state requirements for vocational certification)  
 (70-73 credits; 25 upper-division FCS credits required)

**Family and Consumer Science Core ..... 9-10**  
 BIO 1100 Biological Science: Human Nutrition (5)  
     or FCS 2385 Food and the Consumer (3) ..... 3-5  
 FCS 2252 Marriage and the Family ..... 5  
 FCS 2365 Food Science ..... 5  
 FCS 2702 Introduction to Interior Design ..... 3  
 FCS 2830 Textiles for the Consumer I ..... 5  
 FCS 3220 Child Development ..... 3  
 FCS 3365 Food Management and Economics ..... 4  
 FCS 3410 Individual and Family Finance ..... 4  
 FCS 3460 Family Resource Management ..... 3  
 FCS 3564 Presentation Skills ..... 4  
 FCS 3710 Family Housing (W) ..... 5  
 FCS 3875 Appearance and Human Behavior ..... 3  
 FCS 4240 Family Relations ..... 3  
 FCS 4250 Strategies in Early Childhood ..... 3  
 FCS 4511 Curriculum and Evaluation in FCS Education (W) ..... 5  
 FCS 4512 Vocational Aspects ..... 3  
**Total credits for secondary FCS education ..... 61-63**  
**Total credits for major ..... 70-73**

**Vocational Certification**

SPU is an approved institution for vocational certification of family and consumer science teachers in middle, junior and high school family and consumer science programs. In addition to secondary course requirements, students must meet first-aid certification.

**General Family and Consumer Sciences**

(65 credits; 25 upper-division FCS credits required)  
 (Refer to page 64 for a summary of degree requirements.)  
 A minimum of 45 credits in family and consumer sciences is required. Also required are 20 credits of business, communication or sociology coursework.

Family and consumer sciences views families as the fundamental social unit and understanding individuals and families is central to each FCS major. The FCS general major prepares students to understand individuals and families and to motivate students to use their specialization knowledge to affect the direction of our culture through service to families in business, social service and educational settings.

**Family and Consumer Sciences Core ..... 9-10**  
 General FCS Courses (listed below) ..... 29-33  
 Business, communication or sociology courses ..... 20  
 FCS electives to reach 65 credits total  
     (selected from elective options below) ..... 2-7

**FCS Courses**

FCS 2385 Food and the Consumer ..... 3  
 FCS 3220 Child Development ..... 3  
 FCS 3410 Individual and Family Finance ..... 4  
 FCS 3460 Family Resource Management ..... 3  
 FCS 3564 Presentation Skills ..... 4  
 FCS 3710 Family Housing (W) ..... 5  
 FCS 3875 Appearance and Human Behavior ..... 3  
 FCS 4240 Family Relations ..... 3  
 FCS 4940 Internship or Senior Project ..... 1-5  
**Total ..... 29-33**

**Business, Communications or Sociology Courses**

(20 credits; at least 10 upper division) ..... 20

**FCS Electives**

(Choose from the following to bring total credits in major to 65)  
 FCS 3870 History of Costume (W) ..... 5  
 FCS 4911 Current Issues in Clothing and Textile ..... 3  
 BIO 1100 Human Nutrition ..... 5  
 FCS2365 Food Science ..... 5  
 FCS 3365 Food Management and Economics\* ..... 4  
 FCS 3385 Food and Culture (W) ..... 3  
 FCS 3320 Maternal and Child Nutrition\* ..... 3  
 FCS 2702 Introduction to Interior Design ..... 3  
 FCS 3712 Lighting Design\* ..... 4  
 FCS 4250 Strategies in Early Childhood ..... 3  
 FCS 4730 Interior Design Resources and Materials\* ..... 5  
**Total ..... 2-7**

\*By advisement; prerequisites.

**Total Credits for Major ..... 65**

Flexibility within the general track will allow the student to focus on child and family studies or consumer relations through a student-designed major. A 3.0 GPA is required prior to submitting an application for the student-designed major. Applications must be submitted no later than the first quarter of a student's junior year. All student-designed majors are required to complete a minimum of 40 credits in family and consumer sciences courses, and a maximum of 70 credits in the major.

**Food and Nutritional Sciences Major**

(83-117 credits; 25 upper-division FCS credits required)  
 (Refer to page 64 for a summary of degree requirements.)  
 The B.S. degree is offered in food and nutritional sciences. All majors must take the family and consumer sciences core and the required courses, plus one of the areas of study. Because certain chemistry and biology courses are prerequisites to many nutrition courses, it is most efficient to complete the prerequisite by the junior year.

The dietetics specialization in the food and nutritional sciences program is currently accredited by the Commission on Accreditation for Dietetics Education of the American Dietetic Association (ADA), 216 West Jackson Boulevard, Chicago, IL, 60606-6995; phone (312) 899-4876. The dietetics specialization is referred to as a didactic program in dietetics (DPD). A GPA of 2.8 and a "C-" or better must be maintained in all required courses for acceptance into the program. A graduate of SPU with a

dietetic specialization is eligible to apply for an ADA-approved dietetic internship at another institution. After the dietetic internship, the student is "RD Eligible." The student can then take the registration examination. When the exam is passed, the student can become a registered dietitian.

**Family and Consumer Science Core ..... 9-10**

**Required Courses**

FCS 2365 Food Science ..... 5  
 FCS 3340 Human Nutrition\* ..... 5  
 FCS 3365 Food Management and Economics\* ..... 4  
 FCS 3385 Food and Culture (W) ..... 3  
 FCS 4330 Advanced Nutrition (W)\* ..... 5  
 FCS 4367 Experimental Foods (W)\* ..... 5  
 BIO 2129 Anatomy and Physiology ..... 5  
 BIO 2130 Anatomy and Physiology\* ..... 5  
 BIO 3351 General Microbiology\* ..... 5  
 HSC 4044 Biomedical Tests, Measurements and Statistics (5)  
     or MAT 1360 Introduction to Statistics (5) ..... 5  
 Choose one of the two chemistry groups below:  
     CHM 1211 General Chemistry (5) and  
     CHM 1330 General Organic/Biochemistry (5)  
     or CHM 1211 General Chemistry (5) and  
     CHM 2371/2372 Organic Chemistry (10)\* and  
     CHM 4361/4362 Biochemistry (10)\* ..... 10-25  
**Total of Required Courses ..... 57-72**

In addition to the FCS core and required courses above, select one of the following areas of study: food and nutrition, dietetics, or sports and exercise.

**Food and Nutrition Specialization**

FCS 2375 Food Production and Management ..... 5  
 FCS 3320 Maternal and Child Nutrition ..... 3  
 FCS 3564 Presentation Skills ..... 4  
 FCS 4350 Community Nutrition and Education\* ..... 5  
**Total credits for food and nutrition ..... 17**

**Dietetics Specialization**

ACCT 2361 Financial Accounting ..... 5  
 BUS 3614 Organizational Behavior (5)  
     or BUS 3657 Human Resource Management (5) ..... 5  
 FCS 2375 Food Production and Management ..... 5  
 FCS 4340 Medical Nutrition Therapy I\* ..... 5  
 FCS 4341 Medical Nutrition Therapy II\* ..... 5  
 FCS 4350 Community Nutrition and Education\* ..... 5  
 SOC 4308 Helping Relationship ..... 5  
**Total credits for dietetics ..... 35**

**Sports and Exercise Specialization**

FCS 3320 Maternal and Child Nutrition ..... 3  
 FCS 4310 Nutrition in Sports and Exercise\* ..... 3  
 FCS 4340 Medical Nutrition Therapy I\* ..... 5  
 FCS 4341 Medical Nutrition Therapy II\* ..... 5  
 FCS 4350 Community Nutrition and Education\* ..... 5  
 PE 3580 Exercise Physiology\* ..... 5  
 PE 4585 Exercise Science Seminar\* ..... 3  
**Total credits for sports and exercise ..... 29**

\* Prerequisites

**Total Credits for Major ..... 83-117**

**Post-baccalaureate student in dietetics.** Students with a B.A. or B.S. degree in another discipline are evaluated on an individual basis. Once the food and nutritional sciences and dietetics specialization requirements are met, the student is eligible to apply for an ADA-approved dietetic internship. Student Academic Services and the FCS advisor will evaluate your transcript and help you plan your course of study.

**Textiles, Clothing and Interiors Major**

A B.A. degree is offered in textiles, clothing and interiors. The curriculum is designed to train individuals for careers in the areas of retail merchandising, apparel manufacturing, advertising, apparel designing and residential and commercial design. Students can select from textiles and clothing or interior design.

**Textiles and Clothing Specialization**

(63-66 credits; 25 upper-division FCS credits required)  
 (Refer to page 64 for a summary of degree requirements.)  
 All students completing the textiles and clothing specialization must complete the FCS core, general requirements for clothing and textiles and either the fashion merchandising emphasis or the apparel design emphasis below.

**Family and Consumer Science Core ..... 9-10**  
**General requirements for Clothing and Textiles**

FCS 1840 Basic Clothing Construction ..... 3  
 FCS 2820 Fashion Merchandising ..... 3  
 FCS 2830 Textiles for the Consumer I ..... 5  
 FCS 3830 Textiles for the Consumer II (W) ..... 3  
 FCS 3840 Flat Pattern Design\* ..... 3  
 FCS 3842 Apparel Production Systems\* ..... 5  
 FCS 3870 History of Costume (W) ..... 5  
 FCS 3875 Appearance and Human Behavior ..... 3  
 FCS 4911 Current Issues in Clothing and Textiles ..... 3  
**Total credits for requirements ..... 33**

**Fashion Merchandising Emphasis**

FCS 3820 Merchandise Planning  
     and Inventory Control\* ..... 3  
 FCS 4820 Apparel Retail Management\* ..... 3  
 ACCT 2361 Financial Accounting ..... 5  
 ECN 2101 Principles of Microeconomics  
     or ECN 2102 Principles of Macroeconomics ..... 5  
 BUS 3541 Marketing and Society (5)  
     or BUS 3828 International Business ..... 5  
**Total credits for fashion merchandising ..... 21**

**Apparel Design Emphasis**

ART 1102 Drawing Studio ..... 3  
 ART 3112 Drawing Studio - Figure ..... 3  
 FCS 2110 Fashion Illustration ..... 3  
 FCS 3841 Apparel Drafting Applications\* ..... 3  
 FCS 3843 Intro to AutoCAD ..... 3  
 FCS 4843 CAD Applications in Apparel Design\* ..... 5

*"Students who study food and nutrition often do so because the combination of science and service appeals to them. Our graduates work in a variety of settings such as public health nutrition, clinical counseling, the Peace Corps, education, management and in human nutrition research."*

**Gaile Moe**  
 Family and Consumer Sciences



FCS 4840 Apparel Design through Draping* (3) .....	3
<b>Total credits for apparel design .....</b>	<b>23</b>
<i>*Prerequisites</i>	
<b>Total credits for the Major .....</b>	<b>63-66</b>

### Fashion Institute of Technology (FIT)

Students in the textiles and clothing program who have major status and have maintained a satisfactory grade-point average may select from nine additional specializations if they are accepted into the liaison program with the Fashion Institute of Technology in New York City.

Specializations offered through the liaison program with FIT include accessories design; advertising and communication; advertising design; manufacturing management; fashion design; fashion buying and merchandising; jewelry design; textile/surface design; or textile development and marketing. Students considering this option should seek advisement early in their academic careers in order to meet the requirements of both FIT and SPU.

### Interior Design Specialization

(81-84 credits; 25 upper-division FCS credits required)  
(Refer to page 64 for a summary of degree requirements.)  
The Interior Design Program prepares students for a variety of entry-level positions in interior design. This interdisciplinary program combines courses from art, business and family and consumer sciences. Our program features a student chapter of ASID (American Society of Interior Designers), a required internship (FCS 4940), AutoCAD courses and a liaison program with FIDM (the Fashion Institute of Design and Merchandising).

<b>Family and Consumer Science Core .....</b>	<b>9-10</b>
FCS 2204 Interior Design Studio .....	3
FCS 2702 Introduction to Interior Design * .....	3
FCS 2830 Textiles for the Consumer .....	5
FCS 3710 Family Housing (W) .....	5
FCS 3712 Lighting Design * .....	4
FCS 3714 Advanced Design - Interiors .....	3
FCS 3720 Universal Design	
or FCS 4753 CAD for Interior Design II .....	3
FCS 3830 Textiles for the Consumer II (W) .....	3
FCS 3843 Introduction to AutoCAD * .....	3
FCS 4710 Advanced Design II - Residential Interiors .....	3
FCS 4712 Advanced Design II - Commercial Interiors .....	3
FCS 4720 Portfolio .....	2
FCS 4730 Interior Design Resources and Materials * .....	5
FCS 4743 CAD Applications in Interior Design * .....	3
FCS 4940 Internship .....	3-5
ACCT 2361 Financial Accounting * .....	5
ART 1102 Drawing Studio (3)	
or ART 1103 Drawing Studio(3) .....	3
ART 1202 Design Studio .....	3
ART 3604 History of Renaissance Art .....	5
ART 3605 History of Modern Art (5)	
or ART 3607 History of American Art (5) .....	5
Select one of the following:	
BUS 3400 Business Ethics (5)	
BUS 3541 Marketing and Society (5)	

BUS 3544 Advertising* (5)	
BUS 3545 Sales and Sales Management* (5)	
BUS 3614 Organizational Behavior(5)	
BUS 3657 Human Resource Management(5)	
BUS 3631 Entrepreneurship (5) * .....	5
CSC 1126 Presentation Managers .....	1
Select one of the following:	
ENG 3205 Writing in the Professions* (3)	
FCS 3564 Presentation Skills* (4) .....	3-4
<b>Total credits for interior design .....</b>	<b>81-84</b>
<b>Total credits for major .....</b>	<b>90-94</b>
<i>*Prerequisites</i>	

### Fashion Institute of Design and Merchandising

Students have an option of pursuing a concentrated year of training in interior design by participating in the liaison program with the Fashion Institute of Design and Merchandising (FIDM) in Los Angeles, California. The interior design program at FIDM is accredited by the Foundation for Interior Design Education Research. Students electing to participate in the FIDM liaison would apply in their junior year and attend during their senior year. Students considering this option should seek advisement early in their academic careers in order to meet the requirements of both FIDM and SPU.

### Requirements for the Minors

Three minors are offered: family and consumer sciences; food and nutritional sciences; and textiles and clothing. A minimum of 30 credits in family and consumer sciences, including 15 upper-division credits, are required for each of the three minors.

### Minor in Family and Consumer Sciences

Select at least one course from each area for a minimum of 30 credits:

- BIO 1100 Biological Science: Human Nutrition (5)
  - FCS 2365 Food Science (5)
  - FCS 2385 Food and the Consumer (3)
  - FCS 3220 Maternal and Child Nutrition (3)
  - FCS 3365 Food Management and Economics (4)\*
  - FCS 3385 Food and Culture (W) (3)
- FCS 2820 Fashion Merchandising (3)
  - FCS 2830 Textiles for the Consumer I (5)
  - FCS 3870 History of Costume (W) (5)
  - FCS 3875 Appearance and Human Behavior (3)
- FCS 2252 Marriage and the Family (5)
  - FCS 3220 Child Development (3)
  - FCS 4240 Family Relations (3)
  - FCS 4250 Strategies in Early Childhood (3)\*
- FCS 3410 Individual and Family Finance (4)
  - FCS 3460 Family Resource Management (3)\*
- FCS 2702 Intro to Interior Design (3)
  - FCS 3710 Family Housing (W) (5)
  - FCS 3712 Lighting Design (4)\*
  - FCS 4730 Interior Design Resources and Materials (5)

*\*Prerequisite*

Minor requirements contribute to, but do not meet, educational certification requirements for vocational certification for secondary family and consumer science education teachers of grades 9-12.

### Minor in Food and Nutritional Sciences

(30 credits)	
FCS 2365 Food Science .....	5
FCS 3320 Maternal and Child Nutrition .....	3
FCS 3340 Human Nutrition* .....	5
FCS 3385 Food and Culture .....	3
FCS 4330 Advanced Nutrition* .....	5
FCS 4367 Experimental Foods (W) .....	5
Select a minimum of 4 credits from the following	
additional courses to obtain a total of 30 credits:	
FCS 2375 Food Production and Management* .....	5
FCS 3365 Food Management and Economics* .....	4
FCS 4310 Nutrition in Sports and Exercise* .....	3
FCS 4340 Medical Nutrition Therapy* .....	5
FCS 4350 Community Nutrition and Education* .....	5
FCS 4930 Family and Consumer	
Sciences Practicum (1-5) .....	1-5
<b>Total .....</b>	<b>30</b>

### Minor in Textiles and Clothing

(30 credits)	
FCS 1840 Basic Clothing Construction .....	3
FCS 2820 Fashion Merchandising .....	3
FCS 2830 Textiles for the Consumer I .....	5
FCS 3870 History of Costume (W) .....	5
FCS 3875 Appearance and Human Behavior .....	3
FCS 4911 Current Issues in Clothing and Textiles .....	3
Select a minimum of 8 credits from the following	
additional courses to obtain a total of 30 credits:	
FCS 3820 Merchandising Planning and	
Inventory Control .....	3
FCS 3830 Textiles for the Consumer II* (W) .....	3
FCS 3840 Flat Pattern Design* .....	3
FCS 3841 Apparel Drafting Applications* .....	3
FCS 3842 Apparel Production Systems* .....	5
FCS 3843 Introduction to CAD .....	3
FCS 4820 Apparel Retail Management* .....	3
FCS 4840 Apparel Design Through Draping* .....	3
FCS 4845 Tailored Garment Production* .....	3
FCS 4850 Retail Advertising Systems .....	5
<b>Total .....</b>	<b>30</b>
<i>* Prerequisites</i>	

### Family and Consumer Sciences Courses

**FCS 1050 INTRODUCTION TO FAMILY AND CONSUMER SCIENCES (1-2)** Introduces the history, literature and contributions of the family and consumer science profession to help students discover special interests, career potential and set academic goals. Guest speakers highlight each FCS major. Students organize a personal portfolio. 1 credit required for juniors and seniors entering SPU otherwise 2 credits required. This course is partially Web based.

**FCS 1710 DESIGN FUNDAMENTALS (5)** Surveys how design can be used to enhance the quality of life for individuals by applying standards for creativity, integrity of materials, and the elements and principles of design. The focus is primarily on classic, modern and post-modern architecture and the impact of cul-

ture, economics, social structures, natural resources and technology on design. Includes local walking tours and events. Part of the course will be Web based. Attributes: Arts and Humanities A and Fine Arts Core.

**FCS 1840 BASIC CLOTHING CONSTRUCTION (3)** Presents basic techniques necessary for the construction of simple garments. This is a skills-oriented class designed to develop strong competencies required by the beginning sewer who wishes to become proficient in constructing professional-looking apparel.

**FCS 2110 FASHION ILLUSTRATION (3)** Explores the professional uses of fashion illustration and career opportunities, training and skills required for the professional. Teaches design details and rendering of an elementary fashion figure through lectures and demonstration. May be repeated for credit up to 6 credits.

**FCS 2204 INTERIOR DESIGN STUDIO (3)** Applies the elements and principles of design to practical residential interior design problems. Drafting. Extra fee.

**FCS 2252 MARRIAGE AND THE FAMILY (5)** Surveys the family as an institution and a mode for personal hiring: marital adjustment, parent-child relationships, changing family patterns, and family disorganization and reorganization. Course Equivalent: SOC 2252.

**FCS 2365 FOOD SCIENCE (5)** Examines the basic scientific concepts related to the preparation of food. Studies the principles of food selection, storage and preparation based on a knowledge of chemical and physical properties. Includes laboratory.

**FCS 2375 FOOD PRODUCTION AND MANAGEMENT (5)** Prerequisite: FCS 2365. Surveys the organization, management and cost control of food service operations. Includes laboratory experience in quantity food-service facilities in Seattle.

**FCS 2385 FOOD AND THE CONSUMER (3)** Examines consumer behavior in the selection of food as it relates to need, economics and satisfaction. Analyzes personal nutrition in relation to cultural, social, faith, aesthetics and psychological influences on food selection. Identifies the impact of environment, safety, food additives, natural foods, supplements and freedom of choice.

**FCS 2702 INTRODUCTION TO INTERIOR DESIGN (3)** Examines elements and principles of design applied to residential and commercial interiors, and provides an overview of the interior design field.

**FCS 2820 FASHION MERCHANDISING (3)** Presents an overview of the background, structure and ever-changing world of fashion. Students will gain basic knowledge and skills for effective development in visual merchandising, buying, sales, apparel design and merchandising home fashions. Students will be given an opportunity to explore their personal attributes in relation to those required for successful performance in the fashion industry.

**FCS 2830 TEXTILES FOR THE CONSUMER I (5)** Study of textiles from raw materials through yarn processing and fabric construction as related to durability, comfort and aesthetics. Survey includes natural and manmade fibers, yarns, fabric construction, the structure of the textile industry and textile testing. Provides laboratory experiences in areas such as fiber identification, properties and structures.

**FCS 2870 SEEING HISTORY THROUGH CLOTHES: A PERSONAL PERSPECTIVE (5)** Study of how political, economic and sociological factors have influenced people's clothing choices and the materials available for dress. This course will examine clothing styles throughout history, from early Egypt to the present day, with special focus on dress during the 18th, 19th and 20th centuries. Attributes: Arts and Humanities A and Fine Arts Core. Class not open to seniors.

**FCS 3220 CHILD DEVELOPMENT (3)** Analyzes factors that affect development of the child physically, emotionally, socially and intellectually. Identifies the impact of health, the environment and society on the child. Attribute: Upper Division.

**FCS 3240 INDIVIDUAL AND FAMILY DEVELOPMENT (5)** Prerequisite: FCS 1050. Introduction to the application of concepts and theories in human development within the context of the family. Explores the reciprocal relationships between families and their environment and issues of individuals and families as consumers that affect the quality of life. Attribute: Upper Division.

**FCS 3320 MATERNAL AND CHILD NUTRITION (3)** Prior nutrition or anatomy and physiology course recommended. Studies the influence of nutrition on the course and outcome of pregnancy; nutritional needs during lactation, fundamentals of infant nutrition and influence of nutrition on growth, development and behavior during infancy, childhood and adolescence. Attribute: Upper Division.

**FCS 3340 HUMAN NUTRITION (5)** Prerequisites: CHM 1330, BIO 2129 and 2130 (Note: BIO 2130 may be taken concurrently). Presents essentials of adequate diets and food sources of the nutrients; nutritional needs throughout the life span; nutritional composition of foods in relation to normal diets and medical nutrition therapy. Attribute: Upper Division.

**FCS 3365 FOOD MANAGEMENT AND ECONOMICS (4)** Prerequisite: FCS 2365, a human nutrition course or permission of instructor. Surveys the effect of nutrition, budget, aesthetics and resources in menu planning for various nutritional needs. Includes laboratory. Attribute: Upper Division.

**FCS 3385 FOOD AND CULTURE (3)** Prerequisite: Junior standing or permission of instructor. Explores how the foodways of individuals in different cultures evolved. Considers gender issues. Evaluates the nutritional, economic and aesthetic properties of food from various cultures. Examples are prepared. Attributes: Upper Division and Writing Course. Class not open to freshmen and sophomores.

**FCS 3410 INDIVIDUAL AND FAMILY FINANCE (4)** Understanding financial planning for individuals and families, including net worth, budgeting, cash management, use of credit, federal income taxes, investment basics, insurance, making wise consumption decisions, consumer redress and ethical behavior in the marketplace. Attribute: Upper Division.

**FCS 3460 FAMILY RESOURCE MANAGEMENT (3)** Prerequisite: FCS 1050. Emphasis is on a systems approach to resource management within the family ecosystem. Includes strategies for maximizing management influences on individuals and families at varying stages of the lifecycle and socioeconomic levels. Attribute: Upper Division. Class not open to freshmen and sophomores.

**FCS 3564 PRESENTATION SKILLS (4)** Registration Approval: Instructor. Prerequisites: BIO 1100 and FCS 2385, or FCS 3710 and 3712, or FCS 3240 and 3460, or FCS 2820 and 3842. Provides opportunity for demonstration theories involved in all areas of family and consumer sciences. Student presentation using the lecture-demonstration method. Attribute: Upper Division. Class not open to freshmen and sophomores.

**FCS 3710 FAMILY HOUSING (5)** This survey course studies housing as a complex process and product that meets individual, family and community needs. Housing is demanded by consumers and supplied by the private, nonprofit and government sectors of the economy. The provision of housing is further impacted by government policies at the local, state and federal level. Topics addressed include defining housing, housing constraints, construction, styles, housing tenure, financing home ownership, the housing market, housing for special populations and social issues related to housing. Attributes: Upper Division and Writing Course. Class not open to freshmen and sophomores.

**FCS 3712 LIGHTING DESIGN (4)** Prerequisites: FCS 2204 and 2702. Survey of space planning and interior systems (electrical and mechanical). Emphasis on lighting – sources, techniques, installations, and specifications for residential and nonresidential applications. Introduction to indoor air quality and designing for the elderly population. Attribute: Upper Division. Class not open to freshmen and sophomores.

**FCS 3714 ADVANCED DESIGN-INTERIORS (3)** Prerequisite: FCS 2204 or permission of instructor. Applies the design process to practical problems in interior design. Extra fee. Attribute: Upper Division. Class not open to freshmen.

**FCS 3720 UNIVERSAL DESIGN (3)** Introduces the students to the fundamentals of universal and accessible design. Students learn about human factors, activities of daily living, and priorities making the best functional and aesthetic use of space. This course is designed to stimulate students' critical thinking and creative problem solving often in very restricted space. Attribute: Upper Division. Class not open to freshmen and sophomores.

**FCS 3820 MERCHANDISING PLANNING AND INVENTORY CONTROL (3)** Prerequisite: FCS 2820. Covers specifics of six-month planning, open-to-buys, inventory turns, stock sales ratio and gross margin in the fashion industry. Attribute: Upper Division. Class not open to freshmen and sophomores.

**FCS 3830 TEXTILES FOR THE CONSUMER II (3)** Prerequisite: FCS 2830. Study of textiles from complex fabric constructions through finishing and dyeing of fabrics as related to durability, comfort and aesthetics. Surveys the textile industry, including the domestic apparel market, textile home furnishings and carpet

manufacturing. Provides laboratory experiences in areas such as fabric structures, printing and dyeing. Independent study on specific textile processes. Attributes: Upper Division and Writing Course. Class not open to freshmen.

**FCS 3840 FLAT PATTERN DESIGN (3)** Prerequisites: FCS 1840 and 3842 or permission of instructor. Examines the qualities of design elements (line, color, texture, shape and space) and how they apply in the design of apparel that is attractive to the human form. Principles of design will be studied as they relate to apparel and the needs of the individual. Flat pattern techniques will be mastered, providing the tools necessary to create apparel that reflect creativity, individuality and beauty. Sophomores may register with permission of instructor. Attribute: Upper Division. Class not open to freshmen.

**FCS 3841 APPAREL DRAFTING APPLICATIONS (3)** Prerequisites: FCS 3840, 3842. Presents the techniques of developing basic patterns from personal measurements. Advanced drafting techniques will be taught, including coats, suits, pants and complex designs. Illustration and presentation skills for effectively presenting design ideas will be taught. Attribute: Upper Division. Class not open to freshmen.

**FCS 3842 APPAREL PRODUCTION SYSTEMS (5)** Prerequisite: FCS 1840 or permission of instructor. Development of clothing construction techniques and pattern engineering skills employed in the production of apparel which fulfills standards of function, aesthetics, comfort and durability. Provides knowledge and skills necessary to evaluate the construction of apparel items found in the ready-to-wear industry. Attribute: Upper Division.

**FCS 3843 INTRODUCTION TO COMPUTER-AIDED DESIGN (CAD) (3)** This course will provide the theory and practical skills essential to computer added design and drafting. Basic CAD commands will be taught through lectures and hands-on training at individual computer terminals using Auto CAD software. Students will be required to perform a series of computerized drawings and to complete a final drawing project. Attribute: Upper Division. Class open to undergraduate level. Class not open to freshmen and sophomores.

**FCS 3870 HISTORY OF COSTUME (5)** Studies textile and costume designs of civilizations from the ancient to present day. Social, economic and political factors of various periods and their influence on evolution of costume is a major emphasis. Integrates costume with various arts: painting, sculpture, drama and music. Attributes: Arts and Humanities A, Fine Arts Core, Upper Division and Writing Course. Class not open to freshmen and sophomores.

**FCS 3875 APPEARANCE AND HUMAN BEHAVIOR (3)** Studies the sociological, psychological, cultural and physical factors that influence appearance. Analyzes the relationship between physical appearance and the political, economic and moral climate of an era. Includes selected reading from several disciplines. Attribute: Upper Division. Class not open to freshmen and sophomores.

**FCS 4240 FAMILY RELATIONS (3)** Studies the role of families in establishing a home environment that provides for the physical, emotional, intellectual and social development of all family members, including decision-making elements, problem-solving techniques and shared responsibilities. Attribute: Upper Division.

**FCS 4250 STRATEGIES IN EARLY CHILDHOOD (3)** Prerequisites: FCS 3220, 4511 (can be taken concurrently). Provides opportunities to observe and participate with children in a nursery school or kindergarten and to observe the role of the teacher as a participant. Implementation and valuation of models, methods and materials relevant to programs for children in preschool, day-care centers and kindergarten. 30 hours of laboratory experience required. Attribute: Upper Division. Class not open to freshmen and sophomores.

**FCS 4310 NUTRITION IN SPORTS AND EXERCISE (3)** Prerequisites: CHM 1330, BIO 2130 and FCS 3340 or permission of instructor. Discusses basic nutritional principles: the role of the six major nutrient groups in physical performance; energy metabolism and exercise; and special concerns with dietary considerations about nutrition and performance. Current readings on controversial issues. Attribute: Upper Division.

**FCS 4330 ADVANCED NUTRITION (5)** Prerequisites: CHM 1330, BIO 2130 and FCS 3340. Expanded discussion of nutrient interrelationships, intermediary metabolism and nutrient requirements for health maintenance. Research of recent advances and controversial issues in human nutrition. Attributes: Upper Division and Writing Course.

**FCS 4340 MEDICAL NUTRITION THERAPY I (5)** Prerequisites: FCS 2365 and 3340. This course presents nutrition as a factor in the treatment and prevention of disease and maintenance of health. Strategies for assessing needs, developing treatment care plans, implementing and documenting of plans, evaluating and quality assurance will be presented for each medical condition. Attribute: Upper Division. Class not open to freshmen and sophomores.

**FCS 4341 MEDICAL NUTRITION THERAPY II (5)** Prerequisite: FCS 4340. Continuing study of nutrition as a factor in the treatment and prevention of disease and maintenance of health. Strategies for assessing needs, developing treatment care plans, implementing and documenting of plans, evaluating and quality assurance will be presented for each medical condition. Includes lab. Attribute: Upper Division. Class not open to freshmen and sophomores.

**FCS 4350 COMMUNITY NUTRITION AND EDUCATION (5)** Prerequisites: FCS 3340 or 4310 or permission of instructor. Covers nutrition education and community nutrition programs; multidimensional nature of nutrition problems and programs designed to solve them; communicating with people in clinical and community settings; application of learning theory and methods of behavior change. Attribute: Upper Division. Class not open to freshmen and sophomores.

**FCS 4367 EXPERIMENTAL FOODS (5)** Prerequisite: FCS 2365, CHM 1330 and Statistics. Provides an experimental approach in the study of the physical and chemical properties of food. Explores theory and application of basic food science research design, implementation of experiments, interpretation of data and reporting of data in a research paper. Attributes: Upper Division and Writing Course.

**FCS 4511 CURRICULUM AND EVALUATION IN FCS EDUCATION (5)** Prerequisites: BIO 1100, FCS 2365, 3220, 3410, 3460, 3564, 4240 and Professional Quarter 2. Explores methods (scope and sequence) and strategies for teaching family and consumer science concepts. Emphasizes a critical understanding, development and organization of the subject content that promotes student learning and meets national and state standards. Attributes: Upper Division and Writing Course.

**FCS 4512 VOCATIONAL ASPECTS AND FAMILY CONSUMER SCIENCE EDUCATION (3)** Prerequisite: Professional Quarter 2. Identifies philosophy and mission of vocational education and explores methods of planning and implementing a program that meets the established standards and criteria for a vocationally approved Family and Consumer Sciences Program. Attribute: Upper Division. Class not open to freshmen and sophomores.

**FCS 4630 FOUNDATIONS AND CONTEMPORARY ISSUES (3)** Prerequisites: FCS 1050 and FCS 3240. FCS senior capstone course. Examines history, philosophy and cultural values as they relate to the mission and goals of the family and consumer science discipline and profession and to each FCS specialization. Investigates public policy issues affecting families. Identifies management abilities for planning and implementing professional goals. Attribute: Upper Division. Class not open to freshmen and sophomores.

**FCS 4710 ADVANCED DESIGN II - RESIDENTIAL INTERIORS (3)** Prerequisite: FCS 3714. Application of the design process to projects in residential design. Extra fee. May be repeated for credit one time. Attribute: Upper Division. Class not open to freshmen and sophomores.

**FCS 4712 ADVANCED DESIGN II - COMMERCIAL INTERIORS (3)** Prerequisite: FCS 3714. Application of design process to projects in commercial design. Extra fee. May be repeated for credit one time. Attribute: Upper Division. Class not open to freshmen and sophomores.

**FCS 4720 PORTFOLIO (2)** Prerequisites: FCS 4710 and 4712. Instruction in the development of a professional portfolio, including résumé and cover-letter writing and presentation of samples of creative work. Course Equivalent: ART 4236. Attribute: Upper Division. Class not open to freshmen and sophomores.

**FCS 4730 INTERIOR DESIGN RESOURCES AND MATERIALS (5)** Prerequisites: FCS 2204, 2702 and 2830. Studies resources and materials used in interiors and their functional and aesthetic relationship to interior design. Attribute: Upper Division. Class not open to freshmen and sophomores.

**FCS 4743 CAD APPLICATIONS IN INTERIOR DESIGN (3)** Registration Approval: Instructor. Prerequisite: FCS 3843. Application of advanced techniques (3-D) of computer-aided design and drafting using AutoCAD software. May be repeated for credit up to 8 credits. Attribute: Upper Division. Class not open to freshmen and sophomores.

**FCS 4753 CAD APPLICATION IN INTERIOR DESIGN II (3)** Prerequisites: FCS 3843 or (FCS 4743 and FCS 4730). Continued application of advanced techniques (3-D) of computer-aided design and drafting using AutoCAD software and third-party architectural program software. Offered alternate years. May be repeated for credit two times. Attribute: Upper Division. Class not open to freshmen and sophomores.

**FCS 4820 APPAREL RETAIL MANAGEMENT (3)** Prerequisite: FCS 2820. Includes hiring, scheduling, selling costs, department presentation and special events. Attribute: Upper Division. Class not open to freshmen and sophomores.

**FCS 4840 APPAREL DESIGN THROUGH DRAPING (3)** Prerequisites: FCS 3840 or permission of instructor. Focuses on acquiring the skill necessary to develop apparel designs by using techniques of draping material on a human form. Principles of design will be studied and applied in the production of attractive apparel designs that are in harmony with the current fashion scene. Attribute: Upper Division. Class not open to freshmen and sophomores.

**FCS 4843 CAD APPLICATIONS IN APPAREL DESIGN (5)** Registration Approval: Instructor. Prerequisites: FCS 3842 and 3843. Students in apparel design and merchandising will acquire the knowledge and rendering skills necessary to effectively communicate visual concepts. This course will prepare students with the computer-aided skills for anyone who wishes to be competitive in entering a career in the fashion industry. For students who wish to learn both Corel/Draw 8 and Adobe Illustrator 8, this course can be repeated. May be repeated for credit up to 10 credits. Attribute: Upper Division. Class open to graduate and undergraduate levels. Class not open to freshmen.

**FCS 4900 INDEPENDENT STUDY (1-5)** Registration Approval: Independent Study Agreement. Prerequisites: Senior standing and a "B" average in family and consumer science studies. May be repeated for credit up to 15 credits. Attribute: Upper Division. Class not open to freshmen, sophomores and juniors.

**FCS 4911 CURRENT ISSUES IN CLOTHING AND TEXTILES (3)** Study of factors affecting production, distribution and consumption of textiles and clothing in American and international countries. Attribute: Upper Division. Class not open to freshmen and sophomores.

**FCS 4930 FAMILY AND CONSUMER SCIENCE PRACTICUM (1-5)** Provides an opportunity to gain practical experience related to previous coursework in the major field in supervised teaching, grading, laboratory preparation and/or tutoring. Specific arrangements with the instructor required. No more than 6 credits may count for major. May be repeated for credit up to 6 credits. Attribute: Upper Division. Class not open to freshmen and sophomores.

**FCS 4931 PRACTICUM IN DESIGN PRODUCTION (1-5)** Registration Approval: Instructor. Practical application of coordination, production and promotion in the Designer's Showcase. May be repeated for credit up to 5 credits. Attribute: Upper Division.

**FCS 4940 INTERNSHIP (1-10)** Registration Approval: Intern Learning Contract Req. Prerequisites: "B" average; junior standing. Provides opportunity for observation, orientation and participation in employment. Work experience planned in advance with the instructor. May be repeated for credit up to 10 credits. Attribute: Upper Division. Class not open to freshmen and sophomores.

## Faculty

**Barbara J. Bovy**, Professor and Director of Family and Consumer Sciences, B.S., University of Idaho, 1960; M.A., University of Washington, 1971; Ph.D., 1979. At SPU since 1978.



**Evette Hackman**, Associate Professor of Family and Consumer Sciences; B.S., University of Nebraska, 1964; M.S., University of Kansas 1966; Ph.D., University of Washington, 1980. At SPU since 1991.

**Sandra C. Hartje**, Associate Professor of Family and Consumer Sciences; B.S., University of Minnesota, 1979; M.S., 1984; Ph.D., 1998. At SPU since 1986.

**Sharleen L. Kato**, Associate Professor of Family and Consumer Sciences; B.A., Seattle Pacific University, 1984; M.A., Michigan State University, 1986; Ed.D., Seattle University, 1992. At SPU since 1986.

**Jaecil Lee**, Assistant Professor of Family and Consumer Sciences, B.A., Chungnam National University, 1992; Ph.D., The Ohio State University, 2000. At SPU since 2001.

**Gaile L. Moe**, Associate Professor of Family and Consumer Sciences; B.S., University of Washington, 1978; Ph.D., 1996. At SPU since 1994.

## Film

See Special Programs

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Film

Fine Arts

Food and Nutritional Sciences

French

General Studies Major

General Studies

## Fine Arts

(Interdisciplinary Courses)

**FPA 3101 ARTS IN AMERICAN CULTURE (3)** Explores how the arts help us understand our private and public culture; emphasizes how art effects the development of individual and collective identity; explores major art works in the Western and American tradition; develops skills in writing about art. Corequisite: FPA 3111. Attributes: Fine Arts Core and Upper Division. Class not open to freshmen.

**FPA 3111 SEATTLE ART SCENE (2)** Explores the rich tradition in Seattle arts scene. Includes attendance at galleries, films, concerts, plays and other special events in the Seattle area. Students will develop individual Web sites as part of coursework. Extra fees are required for events, to be collected in class. Concurrent enrollment in FPA 3101 is recommended but not required. Attributes: Fine Arts Option and Upper Division. Class not open to freshmen and sophomores.

**FPA 4100 THE ARTS AND RELIGIOUS EXPERIENCE (5)** Shows the interdependence of the arts and worship, dealing with such subjects as ritual, liturgy, architecture, the plastic, dramatic and musical arts. Artistic symbolism is studied, with an opportunity to plan and implement a group worship experience using the arts as an integral part of the course. Attributes: Arts and Humanities A, Fine Arts Core, Upper-Division and Writing Course. Class not open to freshmen and sophomores.

## Food and Nutritional Sciences

See Family and Consumer Sciences

## French

See Languages

## General Studies Major

The general studies major is available to students who are 25 years of age at the time of application to the major and who have an SPU GPA of 2.5. Seventy-five credits selected from three disciplines related to the student's degree objectives are required for the major. A statement of rationale and a major contract are required and must be submitted to Student Academic Services for review by academic departments. At least 20 credits, but not over 35 credits, will be applied in each discipline. A minimum of 35 credits must be upper division. No grade below a "C-" will apply to the major. For more information contact undergraduate academic counseling in Student Academic Services at (206) 281-2021.

## General Studies

(Interdisciplinary Courses)

**GS 1001 SUCCESS SKILLS FOR COLLEGE (2)** Class is designed to assist students in developing effective study skills, time-management strategies and positive self confidence academically and personally. Special emphasis is placed on maximizing note-taking, textbook reading and exam performance skills. Also, students learn how to understand and utilize their learning style and to communicate in written and oral expression.

**GS 1002 TOOLS FOR CRITICAL THINKING (2)** Class emphasizes key skills necessary to analyze and synthesize academic information. Students practice writing and oral communication skills necessary to college and professional performance. In addition, students conduct research and utilize technology for information exploration. Special class focus is given to learning effective work strategies and establishing personal goals.

**GS 1005 VALUES, FAITH AND TRADITIONS IN WESTERN CULTURE (1)** Registration Approval: Instructor. Offered each quarter only for international students to provide an opportunity for discussion and exploration of American values, social issues and religion. Extra fee. May be repeated for credit up to 3 credits.

**GS 2001 CAREER EXPLORATION AND PLANNING (1)** Assists students in choosing a major and exploring career options. Activities and course assignments will be interactive and include self and career exploration, identification of career options, informational interviews, identifying career mentors and self-presentation skills. May be repeated for credit one time.

**GS 2002 ADVANCED SKILLS FOR COLLEGE SUCCESS (2)** Class emphasizes writing, reading, research and thinking skills required for success with upper-division work. An interdisciplinary approach will be used. Coursework will be coordinated with other current classes.

**GS 2101 BASIC SKILLS IN LEARNING RESOURCES (2)** Teaches the basic skills of library research and explores subject specialized approaches, including computer searching of bibliographic databases and audio-visual equipment operation.

**GS 2306 TUTORING (1)** Registration Approval: Instructor. May be repeated for credit two times.

**GS 3418 STUDENT LEADERSHIP AND SERVICE I (2-3)** Special Approval: Recommendation from residence life instructor. This course offers sessions where peer advisor leaders experience training, as well as small-group sessions for instruction specific to their leadership position. Course content will include practical information and skills to address issues such as peer counseling, conflict mediation, crisis intervention, program management, developmental transitions and other important challenges facing residential students. May be repeated for credit three times. Attribute: Upper Division.

**GS 3419 STUDENT LEADERSHIP AND SERVICE II (1-2)** Registration Approval: Instructor. Prerequisite: GS 3418. This course offers sessions where peer advisor leaders experience advanced

training as well as small-group sessions for instruction specific to their leadership position. Course content will include practical information and skills to address issues such as peer counseling, conflict mediation, crisis intervention, program management, developmental transitions and other important challenges facing residential students. May be repeated for credit three times. Attribute: Upper Division.

**GS 4900 INDEPENDENT STUDY (1-5)** Registration Approval: Independent Study Agreement. May be repeated for credit up to 15 credits. Attribute: Upper Division. Class not open to freshmen and sophomores.

**GS 4930 LEADERSHIP PRACTICUM (1-10)** Registration Approval: Director of Residence Life. Prerequisite: Admission to the minor. Supervised practicum in student leadership positions under advising of Office of Student Life or Office of Campus Ministries. Includes learning contract, readings and assignments to enable students to deepen leadership skills. May be repeated for credit up to 10 credits. Attribute: Upper Division. Class not open to freshmen.

## Geopolitics

See Political Science

## German

See Languages

## Health Sciences, School of

Marston Hall  
(206) 281-2233  
[www.spu.edu/nursing](http://www.spu.edu/nursing)

**Lucille Kelley, Dean, Ruby Englund, Mary Fry, Chris Henshaw, Donna Hoffert, Emily Hitchens, Barbara Innes, Melanie Plaza-Bunselmeyer, Marilyn Poysky, Anne Stevens, Kathy Stetz, Martha Worcester**

*"As a community of scholars, the School of Health Sciences seeks to educate and prepare students for service and leadership in nursing. We are committed to evangelical Christian faith and values, and to the excellence in teaching and scholarship for the intellectual, personal and spiritual growth of students as learners and practitioners."*

School of Health Sciences Mission Statement

The purpose of the School of Health Sciences (SHS) is to prepare graduates to meet the health needs of a community through promoting wellness and providing illness care for its members. The faculty of the School of Health Sciences believes that, as part of God's creation, each person is unique. Yet every individual shares the characteristics and needs of all humankind: love and respect, meaning and purpose, healing and reconciliation with God.

The philosophy of the faculty of the School of Health Sciences reflects the ideals of the community of Christian

scholars, servants and leaders described in the Seattle Pacific University mission statement. The faculty's philosophy of nursing includes our beliefs about the client, the environment, health and the profession of nursing and nursing education.

Individuals are integrated beings with physiological, psychological, social, cultural and spiritual components, all of which are affected by developmental changes. They are created in the image of God, and have the capacities for self-determination, love and the reflection of God's goodness and grace. As God's creation, each person is unique, while sharing the characteristics and needs of all others. Individuals need support, guidance and self-expression in order to experience growth, healing and wholeness.

Individuals and their environments are part of a larger community. Adaptation is necessary to attain and maintain health in a diverse and changing environment. It is the client in the context of the cultural environment who is the focus of professional nursing care. The School of Health Sciences is committed to helping facilitate students to become leaders and to serve in an increasingly diverse world.

Health is a dynamic process that reflects the state of wholeness and harmony with the environment. Wellness is a state of optimal health and functioning, while illness is a disrupted functional state. Wellness and illness are uniquely experienced by each person or group, according to their individual experiences and the behavioral expectations of the society in which they live. The needs of human beings include the attainment of an optimal state of health.

Every individual has the right to health care. Health care systems should work toward providing cost-effective and accessible services for wellness promotion and illness care. In order to promote health care that attends to persons' needs, professional nursing functions collaboratively with other professions and with clients, their families and the community.

Professional nursing is concerned with helping individuals, families, communities and groups in the process of adapting to their environment. Nurses assist by utilizing nursing and related theories to promote optimal health or to support persons to a peaceful death. Professional nursing is both a science and an art. The science of nursing is based on research and theory from nursing, the sciences and the humanities. Nurses utilize critical thinking within the nursing process. The art and science are reflected in professional activities such as patient advocacy, health education, innovative planning of care and the development of nursing roles to meet changing societal health needs.

The School of Health Sciences offers a major in nursing and advising for some pre-professional programs. Students in the pre-professional programs are prepared to transfer into professional programs in other schools. (See Pre-Professional Health Programs section of the *Catalog*.) For information on the basic nursing undergraduate program, call (206) 281-2233 or (800) 899-1769; or fax (206) 281-2767; e-mail [nursbacc@spu.edu](mailto:nursbacc@spu.edu), or visit the Web site at [www.spu.edu/depts/hsc/](http://www.spu.edu/depts/hsc/).

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Geopolitics

German

Health Sciences, School of

The master of science in nursing leadership program in the School of Health Sciences prepares advanced practice nurses to function in a variety of roles including nursing educator, administrator, clinical nurse specialist and family or adult/gerontological nurse practitioner. A one-year nurse practitioner certificate program is also available for nurses who have completed a master's degree in nursing. For information on these programs, call (206) 281-2888 or (800) 899-1769; or fax (206) 281-2767; e-mail [msninfo@spu.edu](mailto:msninfo@spu.edu), or visit the Web site.

## Nursing

The bachelor of science in nursing prepares graduates to assume first-level practice and leadership roles in a variety of settings, in keeping with the University model of the Christian scholar-servant. The aim is to foster the development of self-understanding, caring, collaboration, ethical thought and action, intellectual curiosity, critical thinking and judgment, as well as the integration of Christian faith with scientific knowledge and clinical expertise.

Curriculum is offered for those with no previous college preparation, those with advanced standing, and registered nurses from associate degree or diploma nursing programs.

The nursing program is fully accredited by the state of Washington and by the Commission for Collegiate Nursing Education. Upon completion of the degree the graduate is eligible to take the national examination required for licensure as a registered nurse (NCLEX).

Information regarding tuition, fees and length of the nursing program can be found in this *Catalog*.

### Curricular Outcomes

Upon completion of the nursing curriculum at Seattle Pacific University, graduates will be able to accomplish the following:

1. **Critical thinking.** Demonstrate thinking that underlies independent and interdependent decision making.
2. **Communication.** Demonstrate complex, ongoing, interactive processes using a variety of methods: oral, written, nonverbal and technological.
3. **Assessment.** Demonstrate an ability to gather information about the health status of the client and/or community, analyze the data, make judgments about nursing interventions and evaluate outcomes.
4. **Nursing skills.** Use technical skills required for the delivery of nursing care; demonstrate the ability to teach, delegate and supervise skilled tasks by others.
5. **Role development.** Demonstrate professional behaviors and an integration of faith, spiritual values and ethics in their nursing practice.

The nursing program also offers transcultural experiences for students, on campus and abroad. Nursing students may opt to have an international clinical experience such as in Costa Rica during their senior year.

Study-abroad programs may not be offered every year; check with the school to find out when this program is available. In addition, the School of Health Sciences has close ties with Gunma University College of Medical Care and Technology, Gunma Prefectural Health Sciences College in Japan. Frequent exchange programs of students and faculty are held with these schools for the sharing of learning.

### Admission to the Major

Students interested in professional nursing must apply through the Office of Admissions and be accepted first by the University. High school preparation for nursing includes four years in the language arts, two years minimum of college preparatory mathematics and two years of laboratory science, one of which should be in chemistry. Those accepted into the University who indicate an interest in nursing can request a nursing faculty advisor their sophomore year.

Students seeking admission to the nursing major must also make a formal application to the School of Health Sciences. Admission to the University does not guarantee admission to the nursing program. Application forms for the nursing program are available by mid-October for the following autumn. Application consideration is on a first-come-first-serve basis. After May 1, acceptance is on a space-available basis. The Academic and Student Affairs Committee evaluates applicants on the basis of scholarship and personal qualifications judged necessary for nursing. At least a 2.65 GPA in natural and social sciences prerequisites is expected. No prerequisite course (inorganic and organic chemistry, anatomy and physiology, general psychology, lifespan psychology, human nutrition and microbiology) grade less than a "C" will be accepted.

Entering nursing students are expected to have basic computer literacy, including word processing. Students will be asked to obtain an e-mail address through SPU, and participate in computer-assisted instruction (CAI), online literature searches and Web-based courses.

Educational standards and policies governing students admitted to the nursing program and regulations covering a student's progression through the nursing program are outlined in the Seattle Pacific University *Student Nurse Handbook*. Copies of this handbook are given to each entering student at Orientation.

Admission with advanced standing depends upon meeting the requirements established for nursing students. Students contemplating transfer into SPU must have their program of study approved by the faculty of nursing.

Registered nurses from diploma and associate degree programs who wish to earn a bachelor of science degree should contact the School of Health Sciences RNB program at (206) 281-2027 for program information and make an appointment with the director of the RNB program. Application is then made for admission to the University. After acceptance to SPU, nurses should apply for admission to the School of Health Sciences. R.N. applicants meet the same criteria for admission as all applicants to the nursing program. Individual evaluation is done at the time of admission and program planning is started. National League for Nursing examinations are

available for advanced placement and are taken prior to the beginning of the first quarter.

International students who are registered nurses in another country must pass the TOEFL exam and the foreign nurse examination (CGFNS) prior to beginning coursework at Seattle Pacific University. These students will enter the program as basic nursing students and will be appropriately placed in the RNB curriculum after they are licensed as nurses in the state of Washington (NCLEX exam).

### Expenses

General expenses are the same as for other students with the following additions:

1. Clinical practicum fee (\$75 per credit hour).
2. Uniforms purchased at the beginning of the nursing major (approximately \$125).
3. Transportation costs between the University and clinical facilities vary from quarter to quarter.
4. For the community health nursing assignments, the student must have a current driver's license and should plan to have access to a car.
5. A physical examination is required prior to beginning clinical experience.
6. Certain immunizations, diagnostic tests for communicable diseases and a physical exam are required prior to beginning the nursing major.
7. Comprehensive testing program (\$112 per year; total \$224 for the junior and senior year.) This includes an NCLEX review course at the end of the program.
8. Books and supplies (such as stethoscopes, transfer belts, nametags and shoes) are approximately \$500 beginning first quarter of the nursing major.
9. Health insurance (see Medical Insurance Fees under Tuition and Fees in this *Catalog*).
10. The National Board of Nursing Exam (NCLEX) at the end of the program is \$200. The fee for state licensure varies from state to state.

### Scholarships and Loans

Students in the nursing major needing financial assistance should apply to the Office of Student Financial Services. In addition to general aid and work-study programs, nursing students may want to apply to other government-sponsored programs (e.g., the Veterans Administration, armed services and other target programs). Nursing students are encouraged to apply for scholarship funds from local medical societies, medical auxiliaries, hospital organizations and service organizations in local communities. A Web site that describes various scholarships is linked to the SHS Web site. The Nurses Alumnae Association administers small grants made possible through gifts to the association. Scholarships from School of Health Sciences endowments are available through the generosity of foundations and individuals.

## Requirements for the Nursing Major

(180 credits)

### B.S. Curriculum

The following program outline reflects the curriculum design for juniors entering the nursing program. The basic program is four years in length, with six quarters of clinical nursing (80 credits). The coursework requires 180 credits for graduation.

#### First Year and Second Year

*BIO 2129, 2130 Human Anatomy and Physiology .....	10
*BIO 3351 Micro Biology .....	5
*CHM 1211 General Chemistry .....	5
*CHM 1330 Organic and Biological Chemistry .....	5
*FCS 3340	
or BIO 1100 Human Nutrition .....	5
*PSY 1180 General Psychology .....	5
*PSY 2470 Lifespan Psychology .....	5
The Common Curriculum: USEM, UCOR, UFDN	
The Exploratory Curriculum: Arts and Humanities, Social Sciences and Electives	

#### Third Year

NUR 3948 Professional Nursing Role I .....	5
NUR 3952 Basic Nursing (Theory) .....	6
NUR 3953 Basic Nursing (Practicum) .....	5
NUR 3954 Nursing of Adult I (Theory) .....	6
NUR 3955 Nursing of Adult I (Practicum) .....	5
NUR 3956 Nursing of Adult II (Theory) .....	6
NUR 3957 Nursing of Adult II (Practicum) .....	5
The Common Curriculum: UCOR, UFDN	
The Exploratory Curriculum: Arts and Humanities, Social Sciences and Electives	

#### Fourth Year

NUR 4852 Family and Community Nursing I (Theory) .....	6
NUR 4853 Family and Community Nursing I (Practicum) ...	5
NUR 4854 Family and Community Nursing II (Theory) .....	5
NUR 4855 Family and Community Nursing (Practicum) .....	5
NUR 4848 Professional Nursing Role II .....	3
NUR 4858 Professional Nursing Synthesis (Theory) .....	5
NUR 4859 Professional Nursing Internship (Practicum) ....	8
NUR 4971 Nursing Research .....	2
HSC 4044 Statistics (MAT 1360 or BUS 1360) .....	5
HSC 4391 Advanced Pathophysiology .....	3
Total Program Credits Nursing Major .....	80
Prerequisites and Corequisites .....	43*
Common Curriculum .....	35
The Exploratory Curriculum and Elective .....	22*
<b>Total .....</b>	<b>180</b>

\*20 credits of the prerequisites and corequisites are in the exploratory curriculum.

"Nursing is a profession that offers people the privilege to serve others in intimate and intricate ways. Although most nursing programs talk about treating patients holistically, SPU's graduates are uniquely prepared to address patients' spiritual needs, an area often ignored but desperately needed in today's health care system."

Chris Henshaw  
Health Sciences



**RN to BS**

The typical part-time, six-quarter program for the registered nurse student with junior standing (minimum of 90 credits) on admission, is as follows:

**Curriculum for Registered Nurses**

NUR 3050 Professional Nursing Concepts: RN .....	5
NUR 3947 Family and Community Nursing: RN .....	5
NUR 4944 Health Care Delivery Models .....	3
NUR 4051 Professional Nursing Role: RN .....	4
NUR 4971 Nursing Research .....	2
NUR 4858 Professional Nursing Synthesis Theory .....	5
NUR 4859 Professional Nursing Synthesis Internship .....	8

\*General Education and Foundation courses vary depending on the number of credits accepted for transfer at time of admission. Must total 180 for graduation.

**Health Sciences Courses**

**HSC 3035 HUMAN SEXUALITY (3)** Introduces basic aspects of human sexuality: biologically how the reproductive system works, psychologically how males and females view their sexuality, and sociologically how sexual values and behavior affect the society as a whole. Christian perspectives will be related to the development of sexual values. Attribute: Upper Division. Class open to juniors and seniors.

**HSC 3304 PERSPECTIVES ON LOSS (3)** Provides a cultural, social, developmental and self-exploration of issues, beliefs and attitudes about loss, death and dying. Presents an interdisciplinary approach for in-depth understanding using in-class practice of communication skills and interviewing techniques for working with the sensitive issues involved with loss, death and dying. Attribute: Upper Division.

**HSC 3395 HEALTH CARE DELIVERY SYSTEMS (3)** Examines perspectives on differing health care philosophies and practices in the United States and other countries. Explores trends, current events and technology. Presentations are given by health care providers and consumers from the community. Attribute: Upper Division.

**HSC 4044 BIOMEDICAL TESTS, MEASUREMENTS AND STATISTICS (5)** Promotes the conceptual understanding of the basic statistical procedures used in research. Helps participants achieve those computational skills needed to carry out statistical procedures in practical settings and the use of the computer in data analysis. Attributes: Quantitative Reasoning, Mathematics and Upper Division.

**HSC 4391 PATHOPHYSIOLOGY (3)** Registration Approval: Instructor. Prerequisites: BIO 2129, 2130. Selected topics of human pathophysiology are investigated from the perspective of how various stressors and adaptive responses affect levels of wellness. These include normal as well as aberrant cell genesis; protective, resistive and adaptive mechanisms; phases of pathologic changes; related clinical findings; and the influence of current interventions. Attribute: Upper Division. Class open to nursing majors.

**HSC 4477 EFFECTIVE INTERPERSONAL DYNAMICS (3)** Based on theories of social style and interpersonal interaction, this course is designed to provide one framework to explain interpersonal interaction. Applies these theories to action modes in two-person dyads and groups. Extra fee at first class. Not offered every year. Attribute: Upper Division.

**HSC 4900 INDEPENDENT STUDY (1-5)** Registration Approval: Independent Study Agreement. May be repeated for credit up to 15 credits. Attribute: Upper Division.

**HSC 4950 SPECIAL TOPICS IN HEALTH CARE (1-5)** Focuses on emerging and specialized topics in health care. May be repeated for credit up to 10 credits. Attribute: Upper Division.

**HSC 4952 ADULT DEVELOPMENT AND AGING (3)** This course addresses adult development in the second half of life. Current theories of aging; psychological, social and spiritual development of individuals and families are covered. Responses of older adults to cultural, environmental and selected health issues as development occurs are included. Attribute: Upper Division.

**Nursing Courses**

**NUR 3050 PROFESSIONAL NURSING ROLE: RN (5)** Designed specifically for registered nurses who are beginning a program of study for the baccalaureate degree in nursing. The course encourages self-directed study based on adult-learning concepts and facilitates adjustment to the education-human environment system experience in general and to the student role at SPU in particular. Professional nursing is the focus of the course, extending from historical and philosophical concepts to contemporary trends, and future possibilities for the professional nursing role. Emphasizes group work, elements of groups, group theory and collaboration through group work. Offered off campus only. Attributes: Upper Division and Writing Course.

**NUR 3947 FAMILY AND COMMUNITY NURSING:RN (5)** Prerequisite: NUR 3050. Analysis, application and evaluation of community health nursing processes at the levels of family, small groups, community and at-risk populations. Identification of community health diagnoses as the basis for interventions to maintain and/or promote health, prevent disease and enable self-care within and by a community. This course should be taken by students who were admitted autumn 2000 and beyond. Offered off-campus only. Attribute: Upper Division.

**NUR 3948 PROFESSIONAL NURSING ROLE I (5)** Prerequisites: PSY 2470, PSY 2470, CHM 1211, CHM 1330, BIO 2129, 2130, 3351, and FCS 3340 or BIO 1100 Human Nutrition. Introduction to the role of a professional nurse. Explores concepts such as nursing as a profession, elements of the professional nurse role, health care delivery systems, and settings, critical thinking, research, and ethics and values within a Christian context. This course should be taken by students who were admitted Autumn 2000 and beyond. Corequisites: NUR 3952 and NUR 3953. Attributes: Upper Division and Writing Course. Class open to nursing majors. Class not open to freshmen and sophomores.

**NUR 3952 BASIC NURSING THEORY (6)** Prerequisites: PSY 1180, 2470, CHM 1211, 1330, BIO 2129, 2130, 3351 and FCS 3340 or BIO 1100 Human Nutrition. An introduction to nursing covering basic nursing-science concepts and an introduction to nursing assessment. The nursing assessment focus is on data collection and nursing diagnosis. Emphasis is with adults in long-term and community setting. Corequisites: NUR 3948 and NUR 3953. Attribute: Upper Division. Class open to nursing majors. Class not open to freshmen and sophomores.

**NUR 3953 BASIC NURSING PRACTICUM (5)** Prerequisites: BIO 2129, 2130, 3351, PSY 2470, CHM 1211, 1330 and FCS 3340 or BIO 1100 Human Nutrition. Provides experiences in application of the nursing process. Primary and secondary levels of care introduced in a long-term care and community-based setting. This course should be taken by students who were admitted autumn 2000 and beyond. Extra Fee. Corequisites: NUR 3948 and NUR 3952. Attribute: Upper Division. Class open to nursing majors. Class not open to freshmen and sophomores.

**NUR 3954 NURSING OF ADULTS I - THEORY (6)** Prerequisites: NUR 3948, 3952, 3953. Concepts of health promotion, health protection, prevention and managing human responses to physical and mental illness are explored. Pathophysiology, pharmacology, spirituality and human diversity issues are integrated. The nursing process is utilized with adults in the context of the family and community-based settings. Corequisite: NUR 3955. Attributes: Upper Division and Writing Course. Class open to nursing majors. Class not open to freshmen and sophomores.

**NUR 3955 NURSING OF ADULTS I - PRACTICUM (5)** Provides experience in application of the nursing process, with adults and their families in acute-care settings and in community-based settings. Extra Fee. Corequisite: NUR 3954. Attribute: Upper Division. Class open to nursing majors. Class not open to freshmen and sophomores.

**NUR 3956 NURSING OF ADULTS II - THEORY (6)** Prerequisites: NUR 3954, 3955. Builds on Nursing of Adults I. Applies nursing process to more complex human responses in health and illness with adults. Emphasis continues to pathophysiology, pharmacology, physical and mental health and illness issues of the individual in family and community based settings. Extra Fee. Corequisite: NUR 3957. Attribute: Upper Division. Class open to nursing majors. Class not open to freshmen and sophomores.

**NUR 3957 NURSING OF ADULTS II - PRACTICUM (5)** Prerequisites: NUR 3954, 3955. Provides experience in application of the nursing process with more complex human responses in health and illness contexts for application including work with adults in selected acute care and community-based settings. Extra fee. Corequisite: NUR 3956. Attribute: Upper Division. Class open to nursing majors. Class not open to freshmen and sophomores.

**NUR 4051 PROFESSIONAL NURSING ROLE: RN (4)** Prerequisite: NUR 3050. Theoretical investigation of leadership and organizational concepts and their application to the professional nursing role as leader within the health care system and the nursing profession. Focuses on health care delivery systems, effective leadership, team development, change and health policy. Offered only off campus. Attribute: Upper Division.

**NUR 4848 PROFESSIONAL NURSING ROLE II (3)** Prerequisites: NUR 4854, 4855, HSC 4391. Theoretical investigation of leadership and organizational concepts and their application to the professional nursing role within the health care team and in the delivery of health care to individuals, groups and selected populations. Corequisites: HSC 4391, NUR 4854 and NUR 4855. Attribute: Upper Division. Class open to nursing majors. Class open to seniors.

**NUR 4852 FAMILY AND COMMUNITY NURSING I THEORY (6)** Prerequisites: NUR 3956, 3957. Focuses on family and community responses to physical and mental health and illness across the life span. Primary emphasis is on the child-bearing and child-rearing years. Community assessment and analysis will be covered. Integrates concepts from pharmacology, physiology, cultural diversity and spirituality. Corequisite: NUR 4853. Attribute: Upper Division. Class open to nursing majors. Class open to seniors.

**NUR 4853 FAMILY AND COMMUNITY NURSING I PRACTICUM (5)** Prerequisites: NUR 3956, 3957. Provides opportunities for the application of theory in a variety of acute-care and community settings that provide health care to child-bearing and child-rearing families. Extra Fee. Corequisite: NUR 4852. Attribute: Upper Division. Class open to nursing majors. Class open to seniors.

**NUR 4854 FAMILY AND COMMUNITY NURSING II THEORY (5)** Prerequisites: NUR 4852, 4853. Continues the study of family and community responses to physical and mental health and illness across the lifespan. Emphasis continues on the child-bearing and child-rearing years. Community-based program planning and evaluation will be covered. Corequisites: HSC 4391, NUR 4848 and NUR 4855. Attribute: Upper Division. Class open to nursing majors. Class open to seniors.

**NUR 4855 FAMILY AND COMMUNITY NURSING II - PRACTICUM (5)** Prerequisites: NUR 4852, 4853. Builds upon NUR 4853. Focus is on the application of the nursing process to more complex mental and physical health issues for families and communities. Extra Fee. Corequisites: HSC 4391, NUR 4848 and NUR 4854. Attribute: Upper Division. Class open to nursing majors. Class open to seniors.

**NUR 4858 PROFESSIONAL NURSING SYNTHESIS THEORY (5)** Prerequisites: NUR 4848, 4854, 4855, HSC 4391. Focus is on the future of health care and nursing and on continued professional development. Integration of all prior coursework, including core curriculum concepts and courses from the first two years of study are expected. Also offered off campus. Corequisites: NUR 4859 and NUR 4971. Attributes: Upper Division and Writing Course. Class open to nursing majors. Class open to seniors.

**NUR 4859 PROFESSIONAL NURSING SYNTHESIS INTERNSHIP (8)** Prerequisites: HSC 4391, NUR 4848, 4854, 4855. Focus is on synthesis of past educational experiences within a variety of acute-care and community settings. Interdisciplinary work, application of leadership skills and working in partnerships with selected communities provide opportunities to demonstrate effective integration and synthesis of prior learning. Also offered off campus. Extra fee. Corequisites: NUR 4858 and NUR 4971. Attribute: Upper Division. Class open to nursing majors. Class open to seniors.

**NUR 4900 INDEPENDENT STUDY (1-5)** Registration Approval: Independent Study Agreement. May be repeated for credit up to 10 credits. Attribute: Upper Division.

**NUR 4944 HEALTH CARE DELIVERY MODELS:RN (3)** Explores selected models of health care delivery in the United States with a primary focus on the professional nurse's role in negotiating and influencing these systems now and in the future. Looks at historical development; elements of the models; impact on health care consumers, providers and provider organizations; ethical issues; and roles and responsibilities for professional nurses, including skills needed; and anticipated future directions for health care delivery. Offered off campus only. Attribute: Upper Division.

**NUR 4950 SELECTED TOPICS (1-5)** Focuses on emerging and specialized topics in nursing. May be repeated for credit up to 10 credits. Attribute: Upper Division.

**NUR 4951 LEADERSHIP IN THE COMMUNITY: RN (6)** Registration Approval: Instructor. Designed as a transition course for those students who are R.N./A.D.N. with a B.S./B.A. in another field of study. Attribute: Upper Division. Class open to nursing majors. Class open to post-baccalaureate level.

**NUR 4970 RESEARCH: RN (1-5)** Prerequisites: HSC 4044 or BUS 1360 or MAT 1360 or a course in statistics. Examines the research process, including critique of in-process and completed research. Gives opportunity for a systematic investigation of a health-related topic of student's choice demonstrating knowledge of research methodology. This course should be taken by students who are transitioning into the M.S.N. program, who did not have a research course in their undergraduate program. Only offered Summer Quarter. Attribute: Upper Division.

**NUR 4971 NURSING RESEARCH (1-5)** Prerequisites: HSC 4391, NUR 4848, 4854 and 4855. The examination of clinical practice for development of researchable problems. Gives opportunity for systematic investigation of a health-related topic of the student's choice. Also offered off campus. Corequisites: NUR 4858 and NUR 4859. Attribute: Upper Division. Class open to nursing majors. Class open to seniors.

**Faculty**

**Ruby M. Englund, Associate Professor of Nursing, B.S.N.,** Gustavus Adolphus College, 1964; M.N., University of Washington, 1965. R.N. At SPU since 1966.

**Mary E. Fry, Associate Professor of Nursing, B.S.N.,** University of Washington, 1966; M.N., 1972; Ph.D., Oregon Health Sciences, 1994. At SPU since 1969.

**Christine M. Henshaw, Assistant Professor of Nursing,** B.S.N., Washington State University, 1978; M.N., University of Washington, 1987; At SPU since 2000.

**Donna Hoffert, Instructor of Nursing, B.S.N.,** University of the State of New York; M.S.N. Syracuse University. At SPU since 2000.

**Emily A. Hitchens, Professor of Nursing; Associate Dean of School of Health Sciences, B.S.N.,** University of Washington, 1965; M.N., 1967; Ed.D., Seattle University, 1988. At SPU since 1979.

**Barbara S. Innes, Associate Professor of Nursing;** Director of RN to BS Program; B.S.N., University of Washington, 1963; M.S., University of California, San Francisco, 1969; Ed.D., Seattle University, 1989. At SPU since 1976.

**Lucille Kindely Kelley, Associate Professor of Nursing and Dean of School of Health Sciences, B.S.N.,** University of Connecticut, 1969; M.N., University of Washington, 1973; Ph.D., University of Washington, 1990. At SPU since 1985.

**Melanie Plaza-Bunselmeyer, Nursing, B.S.N.,** St. Paul College of Manila, 1969; M.Ed., Columbia University, 1974. At SPU since 1991.

**Marilyn J. Poysky, Assistant Professor of Nursing, B.S.,** University of Washington, 1964; M.S.N., University of California, 1968. At SPU 1968-1978 and since 1986. (Continuing part-time.)

**Kathleen M. Stetz**, *Associate Professor of Nursing*, B.S., University of Washington, 1976; M.N., 1981; Ph.D., 1986. At SPU since 1999.

**Anne Stevens**, *Instructor of Nursing*, B.S.N., Baylor University, 1988; M.N., University of Washington, 1999. At SPU since 1999.

**Martha L. Worcester**, *Associate Professor of Nursing; Director of Nurse Practitioner Program*, B.S.N., California State University, Chico, 1962; M.S., University of California, San Francisco, 1964; Ph.D., University of Washington, 1990. At SPU since 1989.

## History

Alexander Hall 410  
(206) 281-2773  
www.spu.edu/depts/history/

**Michael Hamilton**, *Chair*; **Darrell Allen**, **Alberto Ferreiro**, **Don Holsinger**, **Rod Stiling**, **William Woodward**

History, the study of the vast record of human experience, serves as the collective memory of humankind. As memory defines selfhood and guides behavior, so history teaches about social identity and responsibility. And just as one's memory changes and matures, so does the collective understanding of the past change as new evidence is discovered and new perspectives are developed. More a detective hunt than a memorization game, the discipline of history teaches students to seek facts, weigh interpretations and draw conclusions. It requires wide reading, deep thinking and clear communication.

Studying history at a Christian university enables students to trace the impact of Christianity in both Western and non-Western settings. Students are challenged to look at history from a Christian point of view. How does Christian faith aid in understanding the dynamic sweep of human events, the varieties of human culture, the dimensions of human triumphs and tragedies, and the influence of heritage on one's identity?

These questions help shape the history curriculum at Seattle Pacific University. A major in history, especially after advanced study, can lead to careers in teaching and writing history, in museums and archival work, and in a wide variety of other professions ranging from journalism, law and government to the pastorate and missions. For students with uncertain career goals, history offers a fruitful field of specialization within the general study of the liberal arts.

Historical study at SPU seeks a balanced understanding of world cultures. The major program explores the roots and development of Western civilization in the ancient and medieval periods; it then traces the interaction between the West and the world in the modern era. Students then probe more deeply into the histories of the United States, Europe and non-Western cultures. The deeper thrust of the program remains integrative, emphasizing humanity's common heritage and shared future, as well as an ongoing dialogue between past and present.

History students are encouraged to consider special programs, both on and off campus. Complementing history with a second major, such as political science or European studies, is encouraged. Internships and other off-campus study opportunities add practical skills and rich experiences of lifelong value. Consider spending a Summer Session in Spain, or a quarter or semester in Western Europe, Russia, Costa Rica, Egypt, China or Kenya. Or study public policy for a term in the American Studies Program in Washington, D.C. For details please consult the history faculty or the department Web page at [www.spu.edu/depts/history/](http://www.spu.edu/depts/history/).

To qualify for admission to the major, a student must have a 2.5 minimum GPA.

### Requirements for the History Major

(56 credits; 26 upper division)  
*Refer to page 64 for a summary of degree requirements.*

<b>World Civilization</b>	
HIS 1200 Ancient and Medieval Worlds .....	5
UCOR 2000 The West and the World, or an advisor-approved equivalent modern world history course .....	5
<b>United States</b>	
HIS 2502 The United States to 1876 .....	5
HIS 2503 The United States since 1876 .....	5
or an advisor-approved upper-division substitution	
<b>Non-Western World</b>	
Two courses in the history of a non-Western region (i.e., Africa, Asia, Latin America, Middle East or comparative non-Western) .....	10
<b>History of Christianity</b>	
One course in the history of Christianity (e.g., HIS 3401, HIS 3402, HIS 3405, HIS 3406, HIS 3501), or an advisor-approved substitution .....	3-5
<b>Historiography and Research</b>	
HIS 3850 History of Historical Writing .....	3
Capstone Research Seminar .....	3
Electives* .....	15-17
<i>*Should reflect a balance among European, U.S. and non-Western studies. May include, with advisor's approval, one course in a related field. Students are encouraged to propose some independent activity (HIS 4900 series).</i>	
<b>Total</b> .....	<b>56</b>

Students majoring in history should work closely with their advisor in selecting additional supporting courses tailored to their career goals. Students planning graduate study should acquire a reading mastery of a foreign language. Students seeking teaching credentials must include HIS 3600 History of the Pacific Northwest in their program; they should also consult with the School of Education early in their academic program.

### The History Minor

A minor in history is available for those wishing to enrich their college experience by examining the unfolding story of human cultures through time, as well as for education students seeking an additional credential.

### Requirements for the General History Minor

(30 credits; 15 upper division)	
UCOR 2000 The West and the World, or an advisor-approved equivalent modern world history course .....	5
HIS 2502 The United States to 1876 (5) or HIS 2503 The United States Since 1876 (5) .....	5
One course in the history of a non-Western region .....	5
Electives .....	15
<b>Total</b> .....	<b>30</b>

### Requirements for the Teaching History Minor\*

(30 credits; 15 upper division)	
UCOR 2000 The West and the World or an advisor-approved equivalent modern world history course .....	5
HIS 2502 The United States to 1876 .....	5
HIS 2503 The United States Since 1876 .....	5
HIS 3600 History of the Pacific Northwest .....	5
One course in the history of a non-Western region .....	5
Electives .....	5
<b>Total</b> .....	<b>30</b>

\*A major in social science is offered for students interested in teaching history and social studies at the elementary level. Please consult the School of Education section of the Catalog for a description of this major and speak with a School of Education advisor as well as the chair of the History Department.

### History Courses

#### Ancient Civilization

**HIS 3100 ANCIENT CIVILIZATION (5)** Surveys Mediterranean history from early Egypt and Mesopotamia to the rise of the Roman Empire with emphasis on the Bronze Age. Enables the student to understand the world of the Old Testament. Course Equivalent: CLA 3100. Attribute: Upper Division.

**HIS 3170 CLASSICAL CIVILIZATION (5)** Explores history, literature and society of classical Greece and Rome, stressing contributions to modern Western civilization. Course Equivalent: CLA 3170. Attributes: Literature Option and Upper Division.

#### European History

**HIS 1200 ANCIENT AND MEDIEVAL WORLDS (5)** Surveys the period from the rise of Greece and Rome, with some reference to pre-classical cultures, to about 1500. Emphasizes the role of Greco-Roman and Judeo-Christian cultures in the shaping of institutional, artistic and cultural values that distinguish our Western culture from others, as well as the unique features of classical-medieval culture and their relevance today. Attributes: Contexts for Society: Hist./Geog. and Social Science B.

**HIS 1201 MEDIEVAL EUROPE (5)** Surveys the period from the fall of the Roman Empire to about 1500. Emphasizes the role of Christianity and the shaping of institutions, techniques and values that distinguish our Western culture from others, as well as the unique features of medieval culture and their relevance today. This course is only offered via distance learning. Attributes: Contexts for Society: Hist./Geog., Media and Social Science B.

**HIS 1202 MODERN EUROPE (5)** Surveys European history from 1500 to the present. Includes Reformation and counter-Reformation; political, economic and cultural transformations; capitalist and non-capitalist responses to industrialization; international power struggles; and 20th century totalitarian regimes of Fascism and Communism. Attributes: Contexts for Society: Hist./Geog. and Social Science B.

**HIS 3320 HISTORY OF ENGLAND (5)** A survey of Great Britain from the Anglo-Saxon period to the Elizabethan monarchy. The course emphasizes the emergence of cultural, social, and ecclesiastical institutions and movements. Attribute: Upper Division. Class not open to freshmen.

**HIS 3331 HISTORY OF SPAIN AND PORTUGAL (5)** Traces the origins of the Iberian Peninsula from the Roman era to the discovery of the New World in 1492. Emphasizes cultural, social, and ecclesiastical institutions and movements. Attribute: Upper Division. Class not open to freshmen.

**HIS 3335 IBERIAN CIVILIZATION AND CULTURE (5)** Registration Approval: Travel Studies Form. Focuses on the culture and history of the Iberian Peninsula in the Spanish Renaissance and Reformation through a month of summer study at the University of Salamanca, Spain. (For post-baccalaureate students, can be taken as HIS 5335.) Attribute: Upper Division. Class not open to freshmen.

**HIS 3345 MODERN RUSSIA (5)** Surveys Russian social, cultural and political history with primary attention to the tsarist, revolutionary and Soviet eras, examining their legacies for current development and change. Course Equivalent: POL 3345. Attributes: Contexts for Society: Hist./Geog., Social Science B, Upper Division and Writing Course. Class not open to freshmen.

**HIS 3382 THE CROSS AND THE CRESCENT: CRUSADES AND HOLY WARS IN THE HIGH MIDDLE AGES: (1095-1492) (5)** Prerequisite: HIS 1200 or equivalent. Explores the Crusades and Holy Wars in Spain in social, political and religious contexts. Topics include Just War Theory, economic influences, missions to Muslims, Christian-Muslim theological debates and the Re-conquest in Spain. Muslim and Christian views of the Crusades and Holy Wars are presented. Attribute: Upper Division. Class not open to freshmen.

**HIS 3395 EUROPEAN INTELLECTUAL HISTORY: FROM ANSELM TO MARX (5)** Surveys major thinkers and intellectual movements from scholasticism to Marxism, with emphasis on the historical context. Includes directed readings in primary sources. Attribute: Upper Division. Class not open to freshmen.

#### Comparative and Global History

**HIS 3401 EARLY AND MEDIEVAL CHRISTIANITY (5)** A survey of Christianity from its post-Apostolic origins to the end of the middle ages. Evaluates the formation of orthodoxy, the challenge of heterodoxy, early monasticism and missions to Western Europe; then explores the achievement of the medieval church through a study of the papacy, scholasticism, the crusades and Eastern Orthodoxy. Course Equivalent: THEO 3301. Attribute: Upper Division. Class not open to freshmen.

**HIS 3402 REFORMATION AND MODERN CHRISTIANITY (5)** A survey of Christianity from the reformations of the 16th century to recent times. Focuses on Luther, Calvin and the Anabaptists; Anglicans and Puritans; the Council of Trent; 17th century orthodoxy, rationalism and pietism; the beginnings of Christianity in America; and the Great Awakening and Wesleyan revival of the 18th century. Course Equivalent: THEO 3302. Attribute: Upper Division. Class not open to freshmen.

**HIS 3405 TOPICS IN THE HISTORY OF CHRISTIANITY (3-5)** Specific focus may vary. Current topic: "Western Spirituality: Heretics, Mystics and Monks" (3). Explores various spiritual movements from the early Church to the 16th century, with special attention to their contributions to mainstream Catholic and Protestant traditions. May be repeated for credit up to 10 credits. Course Equivalent: THEO 3305. Attribute: Upper Division. Class not open to freshmen.

**HIS 3406 CHRISTIANITY IN AMERICA (5)** A survey of the development of American Christian thought and institutions from the 17th century to the present. Representative works by major thinkers of different historical periods and denominational affiliations will be studied. Particular attention will be given to the contemporary religious landscape, that is, to the varieties of American church life today. Course Equivalent: THEO 3303. Attributes: Christian Perspectives and Upper Division.

**HIS 3435 MARXISM: 20TH CENTURY THEORY AND PRACTICE (3)** Examines the development of varieties of Marxist theory and practice in the 20th century. Compares the Soviet, European, Chinese and Latin American experiences with Marxist thought and practice. Offered alternate years. Course Equivalents: ECN 3635 and POL 3435. Attribute: Upper Division. Class not open to freshmen.

**HIS 3440 INTERNATIONAL PEACE AND WORLD ORDER (5)** A study of conflict and conflict resolution in the international system drawing upon resources from negotiation theory, peace studies, Biblical models, international law and international organization, with analysis of varying world-order models. Course Equivalent: POL 3440. Attributes: Contexts for Society: Hist./Geog., Social Science B and Upper Division. Class not open to freshmen.

#### History of Science

**HIS 3491 ORIGINS OF WESTERN SCIENCE (5)** Explores the unfolding of the Western scientific tradition and its cultural significance from ancient times to the era of the Scientific Revolution. Examines the development of physical science (especially astronomy and cosmology) within the context of traditions and sources from the ancient through early modern periods, culminating in the life and work of Isaac Newton. Attribute: Upper Division. Class not open to freshmen.

**HIS 3492 FOUNDATIONS OF MODERN SCIENCE (5)** Analyzes the growth of science and technology in the West from the 17th through early 20th centuries. Studies the concepts, methodology and cultural implications of developments in the physical and biological sciences from the Scientific Revolution to the age of Einstein. Attribute: Upper Division. Class not open to freshmen.

**HIS 4495 TOPICS IN THE HISTORY OF SCIENCE (3)** Capstone research seminar, stressing analysis of primary sources and advanced integrative historical understanding. Focus may vary from year to year. Sample topics include Galileo and the Church; the World of Isaac Newton; Darwin, evolution and society; technology and modernity; the Scopes Trial; or women and science. Attribute: Upper Division. Class not open to freshmen and sophomores.

#### American History: Period Study

**HIS 2502 THE UNITED STATES TO 1876 (5)** Surveys the development of the American nation from the earliest colonial settlements through the Reconstruction period. Emphasizes institutions, issues, ideas and individuals. Focuses on basic trends such as industrialization, patterns of thought and values, political development, social change and sectional conflict. Readings also explore everyday social experience of minority and mainstream groups. Attributes: Contexts for Society: Hist./Geog. and Social Science B.

**HIS 2503 THE UNITED STATES SINCE 1876 (5)** Continues the emphasis of HIS 2502: surveys the emergence of contemporary American life and culture from the 1870s to the present; focuses on American power at home and abroad, the rise of today's mass consumer society and the emergence of new values. Readings also explore aspects of modern popular culture. Attributes: Contexts for Society: Hist./Geog. and Social Science B.

**HIS 3501 COLONIAL AND REVOLUTIONARY AMERICA: FOUNDATIONS OF AMERICAN CIVILIZATION (5)** Explores America's pre-national experience in both local and international perspective, from the earliest explorations through the Revolution. Considers how America's distinctive cultural patterns developed. Emphasizes the role of Christianity in shaping the emergence of an American identity and character. Attributes: Social Science Integration, Social Science B, Upper Division and Writing Course. Class not open to freshmen.

**HIS 4525-4575 AMERICAN EPOCHS** These research seminars provide intensive, student-centered examination of one narrowly focused time period in American history. Completion of a lower-division course is recommended but not required. The particular courses offered will rotate over a period of several years.

**HIS 4525 JACKSONIAN AMERICA: 1820-1850 (3)** Capstone research seminar, stressing analysis of primary sources and advanced, integrative historical understanding. Studies the interacting impact of revival, reform and romanticism in the context of political realignment and economic growth. Students select typical life roles from the period to research and portray. Attribute: Upper Division. Class not open to freshmen and sophomores.

**HIS 4545 THE TRANSFORMATION OF AMERICAN LIFE: 1870-1900 (3)** Capstone research seminar, stressing analysis of primary sources and advanced, integrative historical understanding. Through intensive examination of World's Fairs in 1876 and 1893, analyzes the rise of big business and conse-

quent social and cultural change. Students write short papers, in the journalistic style of the era, based on contemporary accounts of the years and the fairs. Attribute: Upper Division. Class not open to freshmen and sophomores.

**HIS 4565 WORLD WAR II (3)** Capstone research seminar, stressing analysis of primary sources and advanced, integrative historical understanding. Studies American experiences at home and abroad during the Second World War, and assesses the impact of the ordeal on contemporary American civilization. Guest presentations supplement instructor lectures and class discussion. Students present an individual oral history project. Attribute: Upper Division. Class not open to freshmen and sophomores.

**HIS 4575 AMERICA IN THE 1960S (3)** Capstone research seminar, stressing analysis of primary sources and advanced, integrative historical understanding. Examines the remaking of American society in the period from 1958-1974. Students will read core texts and then complete an original research project on topics such as the Civil Rights movement, the Vietnam War, the women's movement, the Cold War, the war on poverty, the rise of ethnic consciousness or popular music. Projects will generally be presented in the form of a term paper. Attribute: Upper Division. Class not open to freshmen and sophomores.

#### American History: Topical Study

**HIS 3600 HISTORY OF THE PACIFIC NORTHWEST (5)** Surveys development of the region encompassing Washington, Oregon and Idaho from the discovery period to the present. Sets the regional story in the context of the general history of the American West. Field experiences required. (For post-baccalaureate students, a tutorial version of this course, HIS 5600, is offered year-round.) Attribute: Upper Division. Class not open to freshmen.

**HIS 3640 GROWTH OF THE AMERICAN ECONOMIC SYSTEM (3)** Prerequisites: ECN 1100 or ECN 2101 and ECN 2102. Studies the development of the American economy, with particular attention to the rise of the modern business system and its impact on American society; gives corollary consideration to labor, agriculture, technology and the monetary system. Offered alternate years. Course Equivalent: ECN 3640. Attribute: Upper Division. Class not open to freshmen.

**HIS 3670 HISTORY OF AMERICAN FOREIGN RELATIONS (5)** Studies the United States as a participant in the international system, from colonial dependency to superpower. Proposes a theoretical model for interpreting American foreign policy and applies this framework to historical events considered chronologically. Considers questions of morality in relation to foreign policy. Course Equivalent: POL 3670. Attributes: Contexts for Society: Hist./Geog., Social Science B, Upper Division and Writing Course. Class not open to freshmen.

**HIS 4600 PACIFIC NORTHWEST SENIOR TUTORIAL (5)** An alternative version of HIS 3600. Through guided independent study, the student surveys development of the region encompassing Washington, Oregon and Idaho from the discovery period to the present. Students engage in readings and field visits, and submit a journal both as a measure of learning progress and as a permanent resource packet. Offered summer only. (Post-baccalaureate students should enroll in HIS 5600, a version of the course offered year-round.) Attribute: Upper Division. Class not open to freshmen and sophomores.

#### Non-Western History

**HIS 3710 COMPARATIVE NON-WESTERN HISTORY (5)** Explores the history of the non-Western World through thematic and regional comparisons. Sample themes include frontier encounters, colonialism, nationalism, modernization, state formation and social change. Attributes: Contexts for Society: Hist./Geog., Social Science B, Upper Division and Writing Course. Class not open to freshmen.

**HIS 3720 RISE OF ISLAMIC CIVILIZATION (5)** Traces the rise and development of Islamic civilization from seventh century origins to the 18th century. Highlights the interaction of cultural, political and economic themes as well as the changing relations between the Middle East and Europe. Attributes: Contexts for Society: Hist./Geog., Social Science B, Upper Division and Writing Course. Class not open to freshmen.

**HIS 3730 MODERN MIDDLE EAST (5)** Traces cultural, political and economic change in the Middle East from the 18th century to the present. Explores Middle Eastern/Islamic responses to Western expansion, the rise of nationalism, the Arab-Israeli conflict, the geopolitics of oil and the roots of terrorism. Attributes: Contexts for Society: Hist./Geog., Social Science B, Upper Division and Writing Course. Class not open to freshmen.

**HIS 3750 LATIN AMERICA (5)** Traces the history of Latin America, with particular attention to the development of political, economic, social, religious and aesthetic values. Course Equivalent: SOC 3750. Attributes: Upper Division and Writing Course. Class not open to freshmen.

**HIS 3765 TRADITIONAL EAST ASIA (5)** Traces the making of Chinese and Japanese civilizations and the formation of political, social and moral order in China and Japan from antiquity to the 19th century under the influence of both native and borrowed traditions, especially Confucianism and Buddhism. Attributes: Social Science B and Upper Division. Class not open to freshmen.

**HIS 3785 MODERN EAST ASIA (5)** Examines the cultural, religious and philosophical fabric of East Asian societies with special reference to China and Japan, as well as the political and economic developments and interactions with the West from the 18th century to the present. Attributes: Social Science B and Upper Division. Class not open to freshmen.

**HIS 3790 HISTORY OF AFRICA (5)** Studies the history of Africa from prehistoric times to the present. Examines cultural, political and economic change both within Africa and between Africa and other world regions. Attributes: Upper Division and Writing Course. Class not open to freshmen.

**HIS 4715 NON-WESTERN HISTORY SEMINAR (3)** Capstone research seminar, stressing analysis of primary sources and advanced, integrative historical understanding. Topics may vary and will focus on Africa, the Middle East or regional comparisons. Sample topics include the Israel-Palestine conflict, Christian-Muslim relations, the Age of Imperialism, the Algerian Revolution, rise and fall of South African apartheid. Attribute: Upper Division. Class not open to freshmen and sophomores.

**HIS 4765 ASIAN HISTORY SEMINAR (3)** Capstone research seminar, stressing analysis of primary sources and advanced, integrative historical understanding. Students will read core texts and then complete an original research project on topics in Asian history. Regional and thematic focus may vary from year to year. Projects will generally be presented in the form of a term paper. Attribute: Upper Division. Class not open to freshmen and sophomores.

#### Theory, Method and Application

**HIS 3850 HISTORY OF HISTORICAL WRITING (3)** Prerequisite: 15 hours in history or permission of instructor. Studies the great historians, past and present; surveys major schools of historical interpretation and different methods of historical research. Requires investigations and reports by students. Required for all history majors. Attribute: Upper Division. Class not open to freshmen.

**HIS 4920 - 4929 READINGS IN HISTORY (1-5)** Registration Approval: Independent Study Agreement. Prerequisites: 15 credits of "B" work in history. Requires reading and reporting in a designated area of history arranged between the student and instructor. The student should present a proposal before registering. May be repeated for credit up to 20 credits. Class not open to freshmen and sophomores.

**HIS 4940 - 4949 HISTORY INTERNSHIP (1-15)** Registration Approval: Intern Learning Contract Req. Prerequisites: 15 credits of "B" work in history. Provides opportunities as available for practical application of history skills. See internship coordinator and history chairperson. May be repeated for credit up to 30 credits. Class not open to freshmen and non-matriculated students.

**HIS 4970 - 4979 INDEPENDENT RESEARCH (1-15)** Registration Approval: Instructor. Prerequisites: 10 upper-division credits of "B" work in history. Requires research writing on a significant historical topic as arranged between the student and instructor. The student should present a proposal before registering. May be repeated for credit up to 15 credits. Class not open to freshmen, sophomores and non-matriculated students.

#### Faculty

**Darrell Allen**, *Instructor of History*, B.A., Colorado State University, 1984; M.A., University of Kansas, 1995. At SPU since 2000.

**Alberto Ferreira**, *Professor of History*, B.A., University of Texas, Arlington, 1977 and M.A., 1979; Ph.D., University of California, Santa Barbara, 1986. At SPU since 1986.

**Michael Hamilton**, *Associate Professor of History; Chair of History*, B.A., Seattle Pacific University, 1986; M.A., University of Notre Dame, 1988; Ph.D., University of Notre Dame, 1995. At SPU since 1999.

**Donald C. Holsinger**, *Professor of History*, B.A., Bethel College, 1970; Ph.D., Northwestern University, 1979. At SPU since 1990.

**Rodney L. Stiling**, *Associate Professor of History*, B.A., UCLA, 1972; Th. M., Dallas Theological Seminary, 1980; M.A., University of Wisconsin-Madison, 1985; Ph.D., University of Wisconsin-Madison, 1991. At SPU since 2001.

**William H. Woodward**, *Professor of History*, A.B., Wheaton College, 1969; M.A., Ph.D., Georgetown University, 1974. At SPU since 1974.

## Language Arts

See Education

## Languages

Marston Hall  
(206) 281-2036  
www.spu.edu/depts/fll

**Marilyn Severson**, *Chair*, **Robert Baah**, **Kathryn Bartholomew**, **Owen Ewald**, **Michael Macdonald**, **Katya Nemtchinova**, **Eric Vogt**, **Michael Ziemann**

The Department of Foreign Languages and Literatures encompasses the academic discipline of foreign language acquisition and its application to the serious study of culture and literature. Currently at SPU there is a focus on four spoken languages – French, German, Russian and Spanish – and two ancient languages, Latin and classical Greek. There are three departmental degree programs: European studies, Latin American studies/Spanish and a student-designed program in classics. The student-designed major must be constructed in close cooperation with appropriate faculty. (See Student-Designed Major in the *Catalog*.) All programs emphasize the unique relationship between culture and language. Acquisition of analytical skills, familiarity with important works of literature from several languages and the cultures they express, deeper understanding of communication patterns and improved writing skills are all addressed in departmental courses.

Elementary language courses are sequential and begin Autumn Quarter. Students are advised that there is an enrollment limit of 35 in all sections of 1000-level classes (2100 for Russian) of the modern spoken languages. Should

a desired class be closed, students are urged to choose another language or to consider Summer Quarter offerings or language courses from other local colleges. Depending on staffing, a section of French, German and Spanish 1103 and/or Spanish 1102 is offered Autumn Quarter. Students should consult the *Time Schedule* to verify such offerings.

Foreign language study (with emphasis on the needs of the traveler) is available on Seattle Pacific's European Quarter. Depending on the location of European Quarter, French, German, Italian, Russian and Spanish 1100 are available for beginning students, 2100 for intermediate students and 3100 for advanced students.

## Classics

(Student-designed)

**Owen Ewald**, *Contact Person*

The surviving works of literature and art inherited from classical Greece and Rome have been foundational to western European culture. From the classical world have come the patterns within which intellectual thought has developed, the models from which canons of aesthetic excellence have been formed and the languages in which the original literary works were written, including more than 1,000 years of Christian theology. The student who chooses to major in classics will acquire preparation that can key into any of the liberal arts, as well as provide enrichment for personal satisfaction. Students interested in pre-law, pre-medicine, education and many of the sciences are encouraged to consider the classics offerings as electives, as are business majors aspiring to management.

All students who complete the classics major must be proficient in a foreign language. Proficiency is established upon satisfactory completion of the third quarter of a first year college-level foreign language or its equivalent. For alternative ways of satisfying this requirement, see General Education in the *Catalog*. Language proficiency is not satisfied by transfer of an associate's degree from a community college unless the transcript records the completion of foreign language coursework.

### Requirements for the Major-Language emphasis

(46 credits; 25 upper division)

Classical Latin courses .....	24
CLA 3170 Classical Civilization .....	5
CLA 3204 Survey of Classical Latin Literature .....	5
CLA 3104 Survey of Ancient Greek Literature .....	5
EUR 3100 Foundations of European Art .....	2
Other approved courses .....	5
<b>Total .....</b>	<b>46</b>

### Requirements for the Major - Cultural Emphasis

(45 credits; 25 upper division)

CLA 3170 Classical Civilization .....	5
CLA 3204 Survey of Classical Latin Literature .....	5
CLA 3104 Survey of Ancient Greek Literature .....	5
EUR 3100 Foundations of European Art .....	2

Other approved courses* .....	28
<b>Total .....</b>	<b>45</b>

\**Note: To be taken from the listings below and courses from philosophy, history, English or linguistics.*

### Requirements for the Minor - Classics or Latin

(33 credits; 15 upper division)

CLA 3170 Classical Civilization .....	5
Select one course from the following:	
CLA 3104 Survey of Ancient Greek Literature (5)	
CLA 3204 Survey of Classical Latin Literature (5) .....	5
Other approved courses .....	23
<b>Total .....</b>	<b>33</b>

### Classical Latin Courses

**LAT 1101 ELEMENTARY LATIN I (5)** Studies the essentials of classical Latin grammar to build comprehension in reading and writing elementary Latin. The LAT 1101, 1102 and 1103 sequence is offered alternate years. Attribute: Foreign Language Comp. (DP I).

**LAT 1102 ELEMENTARY LATIN II (5)** Prerequisite: LAT 1101 or permission of instructor. Continues the study in the essentials of classical Latin grammar and syntax. Attribute: Foreign Language Comp. (DP I).

**LAT 1103 ELEMENTARY LATIN III (5)** Prerequisite: LAT 1102 or permission of instructor. Continues the study of classical Latin through reading to provide a basis for future work in the language; emphasizes translation. Attributes: Foreign Language Comp. (DP I) and Foreign Language Comp. (DP II).

**LAT 2204 LATIN GRAMMAR REVIEW (3)** Prerequisite: LAT 1103 or permission of instructor. Provides intensive review of composition and syntax necessary for all advanced work in Latin. Offered alternate years. Attribute: Foreign Language Comp. (DP II).

**LAT 4920 INDEPENDENT READINGS IN CLASSICAL LATIN (1-5)** Registration Approval: Independent Study Agreement. Prerequisite: LAT 2204. May be repeated for credit up to 15 credits. Attributes: Arts and Humanities B, Arts and Humanities C, Foreign Language Comp. (DP II) and Upper Division.

**LAT 4970 DIRECTED READINGS AND RESEARCH (1-5)** Registration Approval: Independent Study Agreement. Prerequisite: LAT 4920. May be repeated for credit up to 10 credits. Attributes: Foreign Language Comp. (DP II) and Upper Division.

### Classical Culture Courses

**CLA 3100 ANCIENT CIVILIZATION (5)** Surveys Mediterranean history from early Egypt and Mesopotamia to the rise of the Roman Empire with emphasis on the Bronze Age. Enables the student to understand the world of the Old Testament. Offered alternate years. Course Equivalent: HIS 3100. Attributes: Arts and Humanities B and Upper Division.

**CLA 3104 SURVEY OF ANCIENT GREEK LITERATURE (5)** Surveys the chronological development of Greek poetry and prose in its social context. Enables the student to appreciate great literary works of continuing inspiration to European writers, with special emphasis on literary analysis. Taught in English. Offered alternate years. Attributes: Arts and Humanities B, Literature Option and Upper Division.

**CLA 3170 CLASSICAL CIVILIZATION (5)** Explores history, literature and society of classical Greece and Rome stressing contributions to modern Western civilization. Course Equivalent: HIS 3170. Attributes: Arts and Humanities B, Literature Option and Upper Division.

**CLA 3204 SURVEY OF CLASSICAL LATIN LITERATURE (5)** Surveys the chronological development of Latin poetry and prose in its social context. Enables the student to appreciate great literary works of continuing inspiration to European writers. Special emphasis on literary themes and influence. Taught in English. Offered alternate years. Attributes: Arts and Humanities B, Literature Option, Upper Division and Writing Course.

**CLA 3304 LATIN LITERATURE OF PRE-MODERN CHRISTIANITY (3)** Provides a survey of over 1000 years of European literature written in Latin from Augustine to Erasmus. Emphasizes the dual heritage of the scriptures and Greco-Roman antiquity. Genres covered include hymns, commentaries, letters, treatises, dialogues, poems, elegies, and history. All readings are in translation. Attribute: Upper Division.

**CLA 4920 DIRECTED READINGS IN CLASSICAL LITERATURE (1-5)** Registration Approval: Independent Study Agreement. Prerequisite: CLA 3170. May be repeated for credit up to 15 credits. Attribute: Upper Division.

### Classical Greek Courses

**GRK 2001 ELEMENTARY CLASSICAL GREEK I (3)** Registration Approval: Instructor. Prerequisite: competency in a non-English language equivalent to the third quarter of a first year college-level foreign language course. This course is an introduction to the grammar and syntax of Classical Greek. Parts of speech, basic forms of the verb and declined nouns will be studied, as well as words needed for a working vocabulary. Offered alternate years.

**GRK 2002 ELEMENTARY CLASSICAL GREEK II (3)** Registration Approval: Instructor. Prerequisite: GRK 2001 or permission of instructor. This course continues into more complicated grammar and syntactical constructions, leading to the ability to read simple prose selections in the original Greek. Offered alternate years.

**GRK 4920 INDEPENDENT READINGS IN CLASSICAL GREEK (1-5)** Registration Approval: Independent Study Agreement. Greek is available to qualified students through the classics professor. May be repeated for credit up to 9 credits. Attributes: Arts and Humanities B, Arts and Humanities C and Upper Division.

**GRK 4930 GREEK TUTORIAL PRACTICUM (1-6)** Registration Approval: Instructor. For advanced students who wish to assist as discussion leaders and readers in 20000-level Greek classes. May be repeated for credit up to 6 credits. Attribute: Upper Division.

### The C. May Marston Professorship of Classics

C. May Marston served on the faculty of Seattle Pacific for many years, teaching a variety of subjects within the humanities. She mentored young faculty members and staunchly upheld the highest academic standards. To honor her inspiring example of scholarship and service, the C. May Marston Professorship of Classics was established with an anonymous bequest. The holder is charged to promote a study of the culture and languages of Greece and Rome, to teach courses in the field of classics, and to deliver an annual public lecture relating to research in the discipline. The current C. May Marston Professor is Christina Horst Roseman, professor emerita of classics.

### Latin American Studies

**Robert Baah**, *Contact Person*

The Latin American Studies major and minor are designed for students who wish to specialize in Spanish with a Latin American emphasis. Students who complete the major are expected to achieve the stated level of language proficiency in Spanish and to have completed the 20-30 credit base, including the Council for Christian Colleges' semester-long program in Costa Rica or an approved alternative.

All Latin American Studies majors must make a presentation in the European Studies Symposium before graduation. This presentation is normally done during the senior year.

### Admission to the Latin American Studies - Spanish Major

Applicants for a major in Latin American Studies-Spanish must have a cumulative GPA of 2.0 or higher in all college work applicable to the B.A. degree and a 2.5 GPA in 10 credits of coursework at SPU in foreign languages and literatures and/or Latin American studies.

### Requirements for the Major

(60-70 credits; 25 upper division)

#### Base Courses for the Major

(15 credits)

HIS 3331 History of Spain and Portugal .....	5
HIS 3750 Latin America .....	5
UCOR 2000 The West and the World .....	5

#### Study-Abroad Base Courses for the Major

(5-15 credits)

SBS 4918* Seminar in Latin American Culture I .....	4
SBS 4919* Seminar in Latin American Culture II .....	5
SBS 4937* International Practicum .....	6

**Total .....** **30**

\**Note: Denotes courses taken during the semester in Costa Rica. Students not enrolled in the CCCU Costa Rica program will substitute appropriate courses from the approved alternate program. Course descriptions are in the Special Programs section of the Catalog. The approved alternate program must offer a minimum of 10 credits, 5 of which must apply to the major's study-abroad base courses.*

### Requirements for the Spanish Concentration Major

This specialization requires 40 credits, of which 25 must be upper division. This is in addition to the 20-30 base credits. A minimum of 18 upper-division credits must be in courses taught in Spanish, including SPN 3104 Literature Survey: 19th and 20th Centuries (3), and SPN 4501 Topics in Latin American Literature (3). See course listings under Spanish.

### Requirements for the Minor

The minimum requirement for a minor in Spanish studies, Latin American emphasis, is 35 credits, of which a minimum of 15 must be upper division. Each student who minors in Spanish studies, Latin American emphasis will complete 10 credits from base requirements and 25 credits from the Spanish course offerings. A minimum of 7 upper-division credits must be in courses taught in Spanish, including SPN 3104 Literature Survey: 19th and 20th Centuries (3) and SPN 4501 Topics in Latin American Literature (3).

### European Studies

Today European unity and diversity are powerful subjects for serious study and personal enrichment. Both historical and contemporary Europe are at the center of the world of business, travel, the arts and international politics.

Christianity has important roots in Europe, and today many see Europe as a field for the challenge and opportunity of evangelization in the 21st century. Graduates in European studies find openings in business, missions, travel,

government and education. The European studies major offers students a B.A. degree with the choice of one of five language programs: French, German, Latin, Russian, Spanish, of a general studies program titled Europe or of a program in linguistics. All programs focused on the language, culture and literature of Europeans. All European studies majors must complete satisfactorily the following major requirements:

1. 21 credits in European studies courses (see base courses for all majors).
2. 40 credits in one of the seven programs listed above (43 credits in the linguistics program); 25 of these credits must be upper division; for the language programs a minimum of 18 upper-division credits must be in courses taught in the language.
3. One quarter of study in Europe with the SPU European Quarter, or an approved alternative.
4. A senior paper that integrates learning on Europe (see E.S. Symposium).
5. Proficiency in a second European language (other than English) equivalent to 15 credits of college-level elementary language study; in this way a broader interest in the diversity of the European community is assured; these credits may be met by a competency exam or by approved coursework.

European Quarter is a SPU sponsored study-abroad program held Autumn or Spring Quarter, alternate years. Sites vary, depending on faculty leadership, but participants meet the expectations of a quarter's study in Europe both academically, earning a minimum of 12 credits, and culturally, through in-depth contact with the language/culture connection. The European Studies Symposium is a gathering of faculty, students and professional staff at the University for the presentation of academic and creative work on "the European experience." All European studies majors must make a presentation in the symposium before graduation.

### Admission to the European Studies Major

Applicants for a major in European studies, all programs, must have a cumulative GPA of 2.0 or higher in all college work applicable to the B.A. degree and a 2.5 GPA in 10 credits of coursework at SPU in foreign languages and literatures and/or European studies.

### The Base Courses for All Majors

(21 credits)

EUR 1110 Heritage of Europe .....	5
EUR 3000 European Quarter Orientation .....	1
EUR 3100 Foundations of European Art .....	2
EUR 3500 European Civilization or 5 credits from the SPU-sponsored programs in Salamanca, Normandy or Germany .....	5
EUR 4250 Contemporary European Issues and Personalities .....	3
An approved course in European literature .....	5
<b>Total .....</b>	<b>21</b>

Students should note that EUR 3000 European Quarter Orientation (1) is a prerequisite for EUR 3500 and that EUR 3100 Foundations of European Art (2) is highly recommended for EUR 3500, as are appropriate language courses.

### European Studies Courses

**EUR 1110 HERITAGE OF EUROPE (5)** Introduction to the culture of Europe through literature; themes of family, community, heroism, beliefs and values, and women's roles will be examined chronologically from the classical to the modern periods. Attributes: Arts and Humanities B and Literature Core.

**EUR 3000 EUROPEAN QUARTER ORIENTATION (1)** Prepares students intellectually, emotionally, spiritually and practically for an extended study program in other cultures. Gives students a general background in the basic concepts of intercultural communication, including how to make cultural comparisons, how to recognize and cope with culture shock and how to communicate with people of another culture. Attribute: Upper Division.

**EUR 3100 FOUNDATIONS OF EUROPEAN ART (2)** Provides a brief survey of major periods in European art and architecture beginning with significant works from the Greco-Roman period and progressing through the 19th century. It is specifically oriented toward students intending to travel in Europe. Attributes: Arts and Humanities A, Fine Arts Option and Upper Division.

**EUR 3287 MYTHOLOGY IN LITERATURE (5)** Studies mythological traditions from the Near Eastern world through the Classical Mediterranean to Europe, as well as material from Asia and tribal societies. Emphasis on mythic themes especially significant for European literature. Attributes: Arts and Humanities B, Literature Option, Upper Division and Writing Course.

**EUR 3500 EUROPEAN CIVILIZATION (5)** Registration Approval: Travel Studies Form. Offered in Europe. Provides a cultural investigation of Europe and an on-site practicum. This course examines contemporary Europe as part of the European Quarter Abroad, with special attention to a Christian perspective on the historical growth of European cultures. The language skills acquired by students are demonstrated in intensive programs of living and travel. Attribute: Upper Division.

**EUR 3950 EUROPEAN SPECIAL TOPICS (1-5)** Attribute: Upper Division.

**EUR 4250 CONTEMPORARY EUROPEAN ISSUES AND PERSONALITIES (3)** The heritage of Europe will be the framework within which contemporary European issues and personalities will be interpreted. A key component of the class is the research project that will relate to the student's language concentration and special interests. Attribute: Upper Division. Class not open to freshmen and sophomores.

**EUR 4254 TRANSLATION (3)** Prerequisite: working fluency in at least one language besides English. Theory and practice of translating, with attention to accuracy and nuances of style. May be repeated for credit one time. Attribute: Upper Division.

**EUR 4900 INDEPENDENT STUDY (1-5)** Registration Approval: Independent Study Agreement. Student works independently with a faculty member on a mutually agreed upon topic. May be repeated for credit up to 15 credits. Attribute: Upper Division.

**EUR 4911 RUSSIAN STUDIES SEMINAR I: HISTORY AND SOCIOLOGY OF RELIGION IN RUSSIA (4)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the Russian Studies Program. Taught through semester-long program of the Council for Christian Colleges and Universities in Russia. This seminar delves into the history of religion in Russia dating from the beginnings of Christianity in the 10th century to the present day, with emphasis on Orthodoxy and Protestantism, including study of the persecution during the Soviet era and the flourishing of religious activity in post-Soviet years. The course also looks at the current government regulations from various points of view. Attribute: Upper Division. Class not open to freshmen and non-matriculated students.

**EUR 4912 RUSSIAN STUDIES SEMINAR II: RUSSIAN PEOPLES, CULTURE AND LITERATURE (6)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the Russian Studies Program. Taught through semester-long program of the Council for Christian Colleges and Universities in Russia. This seminar continues the study of Russian people and culture throughout history using well-known works of Russian literature to examine changes in Russia and their impact on its citizens from ancient times, through the czarist and Soviet eras, and in Russia today. Attribute: Upper Division. Class not open to freshmen and non-matriculated students.

**EUR 4913 RUSSIAN STUDIES SEMINAR III:RUSSIA IN TRANSITION (5)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the Russian Studies Program. Taught through semester-long program of the Council for Christian Colleges and Universities in Russia. This seminar takes an in-depth look at Russia since 1991. A compendium of background and current journal, magazine and newspaper articles is utilized, as well as guest lecturers and public policy representatives. Students are introduced to the complexities of transition from a centrally planned economy to a free-market system and establishment of democratic institutions. Attribute: Upper Division. Class not open to freshmen and non-matriculated students.

**EUR 4914 INTERNATIONAL RELATIONS AND BUSINESS (3)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the Russian Studies Program. Taught through semester-long program of the Council for Christian Colleges and Universities in Russia. This class will explore issues related to the newly arising world of business in Russia. Cultural differences, economic potential, ethics and government policy will be examined. Attribute: Upper Division. Class not open to freshmen and non-matriculated students.

**EUR 4920 DIRECTED READINGS AND RESEARCH (1-5)** Registration Approval: Independent Study Agreement. May be repeated for credit up to 10 credits. Attribute: Upper-Division.

**EUR 4921 DIRECTED READINGS AND RESEARCH (1-5)** Registration Approval: Travel Studies Form. Taught in Europe only. Attribute: Upper Division.

**EUR 4930 TUTORIAL PRACTICUM (1-5)** Registration Approval: Instructor. For advanced students who wish to assist as discussion leaders and graders in courses under the heading of European Studies. May be repeated for credit up to 5 credits. Attribute: Upper Division.

**EUR 4950 SPECIAL TOPICS (1-5)** Focuses on different topics relating to the languages and cultures of Europe. Topics to be announced in the *Time Schedule*. May be repeated for credit up to 10 credits. Attribute: Upper Division.

**EUR 4951 SPECIAL TOPICS (1-5)** Registration Approval: Travel Studies Form. Focuses on different topics relating to the languages and cultures of Europe. Taught in Europe only. May be repeated for credit up to 5 credits. Attribute: Upper Division.

### Italian Courses

**ITL 1100 ELEMENTARY ITALIAN (2)** Registration Approval: Travel Studies Form. A course designed for students who have never studied Italian. This course will focus on vocabulary and structures needed for basic communication. European Quarter Only.

**ITL 2100 INTERMEDIATE ITALIAN (2)** Registration Approval: Travel Studies Form. Designed for students having studied some Italian, this course continues the study of vocabulary and structures needed for basic communication. European Quarter only.

**ITL 4900 INDEPENDENT STUDY (1-5)** Registration Approval: Independent Study Agreement. Student works independently with a faculty member on a mutually agreed upon topic. May be repeated for credit up to 15 credits. Attribute: Upper Division.

### Europe Program Requirements

Michael Macdonald, Contact Person

### Requirements for the Major

(61 credits; 25 upper division; and the other major requirements listed above)

<b>Base courses .....</b>	<b>21</b>
European history and political science courses .....	15
HIS 1201 or 1202 (5) HIS/POL 3440 (5)	
Elective courses in HIS/POL (5)	
*European languages .....	20
(minimum competency through 2103 in one language)	
Elective courses* .....	5
<b>Total .....</b>	<b>61</b>

\*Note: Elective credits are to be chosen in consultation

with the student's advisor from courses in foreign language, literature in translation or additional courses from the areas listed above.

### Requirements for the European Studies Minor

(31-33 credits; 15 upper division)

EUR 3500 European Civilization .....	5
EUR 4250 Contemporary European Issues and Personalities .....	3
An approved course in European literature .....	3-5
Modern European language courses .....	15
Other European Studies courses .....	5
<b>Total .....</b>	<b>31-33</b>

### French Program Requirements

Marilyn Severson, Contact Person

### Requirements for the Major

A European studies major/French program requires 40 credits, of which 25 must be upper division, in addition to the 21 base-course credits and the other major requirements listed above. A minimum of 18 upper-division credits must be in courses taught in French.

### Requirements for the French Studies Minor

The minimum requirement for a minor in French studies is 33 credits, of which a minimum of 15 must be upper division. Each student who minors in French studies will complete two courses from courses with a European studies prefix and a minimum of 25 credits from the French course offerings. A minimum of 7 upper-division credits must be in courses taught in French.

### French Courses

**FRE 1100 ELEMENTARY FRENCH (1-5)** Registration Approval: Travel Studies Form. Elementary French in France Study Abroad Program or in European Quarter. May be repeated for credit up to 5 credits.

**FRE 1101 ELEMENTARY FRENCH I (5)** Builds confidence in the four basic skills: understanding, speaking, reading and writing in the French language. Investigates French culture and its relationship to the language. Attribute: Foreign-Language Comp. (DP I).

**FRE 1102 ELEMENTARY FRENCH II (5)** Prerequisite: FRE 1101 or permission of instructor. Builds confidence in the four basic skills: understanding, speaking, reading and writing in the French language. Investigates French culture and its relationship to the language. Attribute: Foreign Language Comp. (DP I).

**FRE 1103 ELEMENTARY FRENCH III (5)** Prerequisite: FRE 1102 or permission of instructor. Builds confidence in the four basic skills: understanding, speaking, reading and writing in the French language. Investigates French culture and its relationship to the language. Attributes: Foreign Language Comp. (DP I) and Foreign Language Comp. (DP II).

**FRE 2100 INTERMEDIATE FRENCH (1-5)** Registration Approval: Travel Studies Form. Intermediate French in France Study Abroad Program or in European Quarter. May be repeated for credit up to 5 credits. Attribute: Foreign Language Comp. (DP II).

**FRE 2101 NIVEAU INTERMEDIAIRE (5)** Prerequisite: FRE 1103 or permission of instructor. Reviews French language structure; emphasizes progress towards communicative competence and growth in understanding and appreciating the cultures of the Francophone world; introduces French literature. Attributes: Arts and Humanities B and Foreign Language Comp. (DP II).

**FRE 2102 NIVEAU INTERMEDIAIRE (5)** Prerequisite: FRE 1103 or permission of instructor. Continues review of French language structure; emphasizes progress towards communicative competence and growth in understanding and appreciating the cultures of the Francophone world; introduces French literature. Attributes: Arts and Humanities B, Foreign Language Comp. (DP II) and Literature Option.

**FRE 2103 NIVEAU INTERMEDIAIRE (5)** Prerequisite: FRE 1103 or permission of instructor. Continues review of French language structure; emphasizes progress towards communicative competence and growth in understanding and appreciating the cultures of the Francophone world; introduces French literature. Attributes: Arts and Humanities B, Foreign Language Comp. (DP II) and Literature Option.

**FRE 3100 ADVANCED FRENCH (1-5)** Registration Approval: Travel Studies Form. Advanced French in France Study Abroad Program or in European Quarter. May be repeated for credit up to 5 credits. Attributes: Foreign Language Comp. (DP II) and Upper Division.

**FRE 3105 COMPOSITION ET CONVERSATION (3)** Focuses on writing as a process through compositions of various types; e.g., description, narration, summary and review of books, movies and plays. Uses French as the language for research, lecture and discussion. Offered alternate years. May be repeated for credit one time. Attributes: Foreign Language Comp. (DP II) and Upper Division.

**FRE 3205 TOPICS IN FRENCH LITERATURE (5)** Considers themes in French literature illustrated in works chosen from different genres and periods. Taught in English but students specializing in the French program or working on a French minor will do some reading and writing assignments in French and attend one session per week conducted in French. Offered alternate years. May be repeated for credit one time. Attributes: Arts and Humanities B, Foreign Language Comp. (DP II), Literature Option and Upper Division.

**FRE 3250 LA FRANCE ET LE MONDE (3)** Considers how France views Europe and the world and its role therein. Directs special attention to the linguistic and cultural values inherent in French life and action. Uses French as the language for research, lecture and discussion. Offered alternate years. May be repeated for credit one time. Attributes: Foreign Language Comp. (DP II) and Upper Division.

**FRE 3260 LES ARTS FRANCAIS (3)** Explores painting, sculpture, architecture, music and theatre in France with the intent of bringing out the interaction of these arts with each other, history and language. Uses French as the language for research, lecture and discussion. Offered alternate years. May be repeated for credit one time. Attributes: Foreign Language Comp. (DP II) and Upper Division.

**FRE 4460 LA LITTERATURE FRANCAISE-DU MOYEN AGE AU 18E SIECLE (3)** Presents landmark works in French literature from the Middle Ages to the Revolution. Includes consideration of genres, themes and social/historical backgrounds of the selections studied. Uses French as the language for research, lecture and discussion. Offered alternate years. May be repeated for credit one time. Attributes: Foreign Language Comp. (DP II), Upper Division and Writing Course.

**FRE 4461 LA LITTERATURE FRANCAISE-DU 19E ET DU 20E SIECLES (3)** Examines important works by French authors of the 19th and 20th centuries in the context of literary and philosophical movements. Pays close attention to the effect of historical events and cultural changes on the evolution of values. Uses French as the language of research, lecture and discussion. Offered alternate years. May be repeated for credit one time. Attributes: Foreign Language Comp. (DP II) and Upper Division.

**FRE 4900 INDEPENDENT STUDY (1-5)** Registration Approval: Independent Study Agreement. Student works independently with a faculty member on a mutually agreed upon topic. May be repeated for credit up to 15 credits. Attribute: Upper Division.

**FRE 4920 INDEPENDENT READINGS IN FRENCH (1-5)** Registration Approval: Independent Study Agreement. May be repeated for credit up to 10 credits. Attributes: Foreign Language Comp. (DP II) and Upper Division.

**FRE 4930 FRENCH TUTORIAL PRACTICUM (1-6)** Registration Approval: Instructor. For advanced students who wish to assist as discussion leaders and readers in 1000-level French classes. May be repeated for credit up to 6 credits. Attributes: Foreign Language Comp. (DP II) and Upper Division.

**FRE 4940 COOP EDUCATION: FRENCH INTERNSHIP (1-10)** Registration Approval: Instructor. Applies the skills needed to communicate in French in varied employment settings. Students may suggest their own internships in consultation with the faculty supervisor as long as use of the target language is part of the employment situation and other internship criteria are met. May be repeated for credit up to 10 credits. Attribute: Upper Division.

### German Program Requirements

Michael Ziemann, Contact Person

#### Requirements for the Major

A European studies major/German program requires 40 credits, of which 25 must be upper division, in addition to the 21 base course credits and the other major requirements listed above. A minimum of 18 upper-division credits must be in courses taught in German.

#### Requirements for the German Studies Minor

The minimum requirement for a minor in German studies is 33 credits, of which a minimum of 15 must be upper division. Each student who minors in German studies will complete two courses in courses with a European studies prefix and a minimum of 25 credits from the German course offerings. A minimum of 7 upper-division credits must be in courses taught in German. HIS 1202 Modern Europe (5) can be included in the total credits.

#### German Courses

**GER 1100 ELEMENTARY GERMAN (1-5)** Registration Approval: Travel Studies Form. European Quarter or Germany Study Abroad Program. Designed for students who have never studied German, this course will focus on vocabulary and structures needed for basic communication.

**GER 1101 ELEMENTARY GERMAN I (5)** Builds confidence in the four basic skills: understanding, speaking, reading and writing in the German language. Investigates German culture and its relationship to the language. Attribute: Foreign Language Comp. (DP I).

**GER 1102 ELEMENTARY GERMAN II (5)** Prerequisite: GER 1101 or permission of instructor. Builds confidence in the four basic skills: understanding, speaking, reading and writing in the German language. Investigates German culture and its relationship to the language. Attribute: Foreign Language Comp. (DP I).

**GER 1103 ELEMENTARY GERMAN III (5)** Prerequisite: GER 1102 or permission of instructor. Builds confidence in the four basic skills: understanding, speaking, reading and writing in the German language. Investigates the German culture and its relationship to the language. Attributes: Foreign Language Comp. (DP I) and Foreign Language Comp. (DP II).

**GER 2100 INTERMEDIATE GERMAN (1-5)** Registration Approval: Travel Studies Form. European Quarter or Germany Study Abroad Program only. Designed for students having studied some German, this course continues the study of vocabulary and structures needed for basic communication. Attribute: Foreign Language Comp. (DP II).

**GER 2101 DAS ZWEITE JAHR (5)** Prerequisite: GER 1103 or permission of instructor. Investigates German attitudes toward the future and dilemmas of change in modern Europe. Includes review of German language structure supporting the readings. Attributes: Arts and Humanities B, Foreign Language Comp. (DP II) and Literature Option.

**GER 2102 DAS ZWEITE JAHR (5)** Prerequisite: GER 1103 or permission of instructor. Investigates the issues of faith and values in German national life and in literature. Includes a review of German language structure supporting the readings. Attributes: Arts and Humanities B, Foreign Language Comp. (DP II) and Literature Option.

**GER 2103 DAS ZWEITE JAHR (5)** Prerequisite: GER 1103 or permission of instructor. Introduces literary studies in the German tradition. Selections and genres vary according to faculty and student interest. Includes a review of German language structure supporting the readings. Attributes: Arts and Humanities B, Foreign Language Comp. (DP II) and Literature Option.

**GER 3100 ADVANCED GERMAN (1-2)** Registration Approval: Travel Studies Form. European Quarter or German Study Abroad Program only. May be repeated for credit up to 2 credits. Attributes: Foreign Language Comp. (DP II) and Upper Division.

**GER 3206 TOPICS IN GERMAN LANGUAGE AND LITERATURE (3-5)** Considers themes in German language and literature illustrated in works chosen from different genres and periods. May be repeated for credit one time. Attributes: Arts and Humanities B, Foreign Language Comp. (DP II), Literature Option and Upper Division.

**GER 3260 DIE DEUTSCHEN KUENSTE (3)** Explores painting, sculpture, architecture, music, theater and film in Germany, with the intention of bringing out the interaction of these arts with each other, history and language. Uses German as the language for research, lecture and discussion. Offered alternate years. May be repeated for credit one time. Attributes: Foreign Language Comp. (DP II) and Upper Division.

**GER 4460 DIE DEUTSCHE LITERATUR VOM MITTELALTER ZUR ROMANTIK (3)** Presents landmark works in German literature from the early Middle Ages to the Romantic period. Emphasis will be placed on epic poems, 'Minnesang', Reformation writings, the Baroque, and on Lessing, Schiller and Goethe. Includes consideration of genres, themes and social/historical backgrounds for the selections studied. Uses German as the language for research, lecture and discussion. Offered alternate years. May be repeated for credit one time. Attributes: Foreign Language Comp. (DP II) and Upper Division.

**GER 4461 DIE DEUTSCHE LITERATUR DES 19. UND 20. JAHRHUNDERTS (3)** Examines important works by German authors of the 19th and 20th centuries in the context of literary and philosophical movements. Pays close attention to the effect of historical events and cultural changes on the evolution of values. Uses German as the language of research, lecture and discussion. Offered alternate years. May be repeated for credit one time. Attributes: Foreign Language Comp. (DP II) and Upper Division.

**GER 4470 SPEZIELLE STUDIEN AUF DEUTSCH (3)** Focuses on different topics relating to the language and culture of Germany. Uses German as the language of research, lecture and discussion. Topics to be announced in the schedule of classes. Offered alternate years. May be repeated for credit one time. Attributes: Foreign Language Comp. (DP II) and Upper Division.

**GER 4900 INDEPENDENT STUDY (1-5)** Registration Approval: Independent Study Agreement. Student works independently with a faculty member on a mutually agreed upon topic. May be repeated for credit up to 15 credits. Attribute: Upper Division.

**GER 4920 INDEPENDENT READINGS (1-5)** Registration Approval: Independent Study Agreement. May be repeated for credit up to 10 credits. Attributes: Foreign Language Comp. (DP II) and Upper Division.

**GER 4930 GERMAN TUTORIAL PRACTICUM (1-6)** Registration Approval: Instructor. For advanced students who wish to assist as discussion leaders and readers in 1000-level German classes. May be repeated for credit up to 6 credits. Attributes: Foreign Language Comp. (DP II) and Upper Division.

**GER 4940 COOP EDUCATION: GERMAN INTERNSHIP (1-10)** Registration Approval: Instructor. Applies the skills needed to communicate in German in varied employment settings. Students may suggest their own internships in consultation with the faculty supervisor as long as use of the target language is part of the employment situation and other internship criteria are met. May be repeated for credit up to 10 credits. Attribute: Upper Division.

### Latin Program Requirements

Owen Ewald, Contact Person

#### Requirements for the Major

A European studies major/Latin program requires 40 credits, of which 25 must be upper division, in addition to the 21 base course credits and the other major requirements listed above. A minimum of 9 credits must be in upper-division Latin readings. CLA 3104, 3170 and 3204 are required and can be included in the total number of credits.

### Requirements for the Latin Studies Minor

The minimum requirement for a minor in Latin\* studies is 33 credits, of which a minimum of 15 must be upper division (e.g., CLA 3204; EUR 3500, 4250; LAT 4920). Each student who minors in Latin studies will complete two courses from base requirements for the European studies major and a minimum of 20 credits from the Latin course offerings.

\*Note: Latin is taught alternate years. For course listings see under Classics.

### Linguistics Program Requirements

Kathryn Bartholomew, Contact Person

#### Requirements for the Major

(64 credits; 25 upper division; and the other major requirements listed above)

<b>Base courses</b> .....	<b>21</b>
European languages .....	15
<i>(minimum competency through the third quarter of the intermediate level)</i>	
European history .....	10
CLA 3170 (5) HIS 1202 (5)	
Linguistics .....	18
LIN 2100 (3) LIN 4145 (3) LIN 4150 (3) LIN 4400 (3)	
or EUR 4254 (3) LIN 4410 (3) LIN 4601 (3)	
<b>Total</b> .....	<b>64</b>

For course listings see under Linguistics.

### Russian Program Requirements

Katya Nemtchinova, Contact Person

#### Requirements for the Major

A European studies major/Russian program requires 40 credits, of which 25 must be upper division, in addition to the 21 base course credits and the other major requirements listed above. In addition, majors must take HIS 3345 Modern Russia (5). Since a limited number of courses in Russian is offered each year, majors will need to work closely with the contact person in order to fulfill the required number of credits.

### Requirements for the Russian Studies Minor

The minimum requirement for a minor in Russian studies is 33 credits, of which a minimum of 15 must be upper division. Each student must complete two courses from courses with a European studies prefix and at least 25 credits from the Russian course offerings.

### Russian Courses

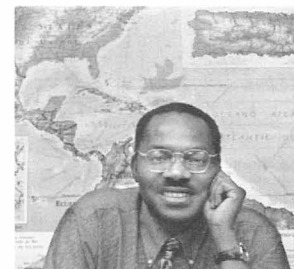
**RUS 1100 ELEMENTARY RUSSIAN (1-2)** Registration Approval: Travel Studies Form. European Quarter only.

**RUS 2000 RUSSIAN LANGUAGE STUDY: ELEMENTARY (6,9)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the Russian Studies Program. Taught through semester-long program of the Council for Christian Colleges and Universities in Russia. Class not open to freshmen and non-matriculated students.

**RUS 2100 BEGINNING RUSSIAN I (5)** Builds confidence in four basic skills: understanding, speaking, reading and writing in the Russian language. Investigates Russian culture and its relationship to the language, as well as the Slavic culture in general. This course is on a first-year level. Offered alternate years.

*“Learning a language is not ingesting a bunch of incorrigible grammar rules. Rather, it is an essential part of the process of readying yourself to become a world citizen – and make a difference.”*

Robert Baah  
Foreign Languages





**RUS 2105 BEGINNING RUSSIAN II (5)** Prerequisite: RUS 2100 or permission of instructor. Provides continued practice in reading, writing, understanding and speaking Russian. This course continues the first-year level. Offered alternate years.

**RUS 2106 BEGINNING RUSSIAN III (5)** Prerequisite: RUS 2105 or permission of instructor. A review of Russian pronunciation and grammar, with an emphasis on vocabulary building through reading Russian texts. This course completes the first-year level. Offered alternate years. Attribute: Foreign Language Comp. (DP II).

**RUS 3000 RUSSIAN LANGUAGE STUDY: INTERMEDIATE (6,9)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the Russian Studies Program. Taught through a semester-long program of the Council for Christian Colleges and Universities in Russia. Attribute: Upper Division. Class not open to freshmen and non-matriculated students.

**RUS 3100 INTERMEDIATE RUSSIAN (5)** Prerequisite: RUS 2106 or permission of instructor. A review of the Russian case system, and word growth through literary texts and original short stories and video. Offered alternate years. Attributes: Arts and Humanities B, Foreign Language Comp. (DP II) and Upper Division.

**RUS 3101 ADVANCED RUSSIAN (1-2)** Registration Approval: Travel Studies Form. European Quarter only. Attribute: Upper Division.

**RUS 3200 RUSSKII JAZYK (5)** Prerequisite: RUS 2106 or permission of instructor. A review of the Russian verb system and word growth through issues of faith in Russian culture. Offered alternate years. Attributes: Arts and Humanities B, Foreign Language Comp. (DP II) and Upper Division.

**RUS 3300 RUSSKII JAZYK (5)** Prerequisite: RUS 2106 or permission of instructor. A review of special categories of Russian thought and word growth through great writers. Offered alternate years. Attributes: Arts and Humanities B, Foreign Language Comp. (DP II) and Upper Division.

**RUS 3920 INDEPENDENT READINGS: INTERMEDIATE RUSSIAN (1-5)** Registration Approval: Independent Study Agreement. May be repeated for credit up to 10 credits. Attributes: Foreign Language Comp. (DP II) and Upper Division.

**RUS 4000 RUSSIAN LANGUAGE STUDY: ADVANCED (6,9)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the Russian Studies Program. Taught through semester-long program of the Council for Christian Colleges and Universities in Russia. Attribute: Upper Division. Class not open to freshmen and non-matriculated students.

**RUS 4900 INDEPENDENT STUDY (1-5)** Registration Approval: Independent Study Agreement. Student works independently with a faculty member on a mutually agreed upon topic. May be repeated for credit up to 15 credits. Attribute: Upper Division.

**RUS 4920 INDEPENDENT READINGS: ADVANCED RUSSIAN (1-5)** Registration Approval: Independent Study Agreement. May be repeated for credit up to 10 credits. Attributes: Foreign Language Comp. (DP II) and Upper Division.

**RUS 4930 RUSSIAN TUTORIAL PRACTICUM (1-6)** Registration Approval: Instructor. For advanced students who wish to assist in 2000-level Russian classes. Students assist in classroom instruction and conduct specific cultural research. May be repeated for credit up to 6 credits. Attributes: Foreign Language Comp. (DP II) and Upper Division.

**RUS 4940 COOP EDUCATION: RUSSIAN INTERNSHIP (1-10)** Registration Approval: Instructor. Applies the skills needed to communicate in Russian in varied employment settings. Students may suggest their own internships in consultation with the faculty supervisor as long as use of the target language is part of the employment situation and other internship criteria are met. May be repeated for credit up to 10 credits. Attribute: Upper Division.

### Spanish Program Requirements

Robert Baah, Contact Person

### Requirements for the Major

A European studies major/Spanish program requires 40 credits, of which 25 must be upper division, in addition to the 21 base course credits and the other major requirements listed above. A minimum of 18 upper-division

credits must be in courses taught in Spanish. Courses in the history of the Hispanic world, HIS 3750 Latin America (5) and HIS 3331 History of Spain and Portugal (5), are required and can be included in the total credits.

### Requirements for the Spanish Studies Minor

The minimum requirement for a minor in Spanish studies is 33 credits, of which a minimum of 15 must be upper division. Each student who minors in Spanish studies will complete two courses from courses with a European studies prefix or HIS 3331 and HIS 3750 and a minimum of 25 credits from the Spanish course offerings. A minimum of 7 upper-division credits must be in courses taught in Spanish.

### Spanish Courses

**SPN 1100 ELEMENTARY SPANISH (1-5)** Registration Approval: Travel Studies Form. European Quarter or Salamanca In-Residence Program only.

**SPN 1101 ELEMENTARY SPANISH I (5)** Develops skill in understanding, speaking, reading and writing the Spanish language. Investigates Spanish culture and its relationship to the language. Attribute: Foreign Language Comp. (DP I).

**SPN 1102 ELEMENTARY SPANISH II (5)** Registration Approval: Instructor. Prerequisite: SPN 1101 or equivalent. Develops skill in understanding, speaking, reading and writing the Spanish language. Investigates Spanish culture and its relationship to the language. Attribute: Foreign Language Comp. (DP I).

**SPN 1103 ELEMENTARY SPANISH III (5)** Registration Approval: Instructor. Prerequisite: SPN 1102 or equivalent. Develops skill in understanding, speaking, reading and writing the Spanish language. Investigates Spanish culture and its relationship to the language. Attributes: Foreign Language Comp. (DP I) and Foreign Language Comp. (DP II).

**SPN 1105 INTRODUCTION TO SPANISH LANGUAGE AND CULTURE (5)** Designed to introduce the basics of the Spanish language and various aspects of Latin American cultures to adult students enrolled in specific programs. This course meets the foreign language requirement for students enrolled in organizational behavior and professional studies programs. Attribute: Foreign Language Comp. (DP II). Class open to organizational behavior and professional studies majors.

**SPN 2100 INTERMEDIATE SPANISH (1-5)** Registration Approval: Travel Studies Form. European Quarter or Salamanca In-Residence Program only. Attribute: Foreign Language Comp. (DP II).

**SPN 2101 INTERMEDIATE SPANISH I (5)** Prerequisite: SPN 1103 or equivalent. A review of Spanish language structure, with emphasis on progress towards communicative competence and growth in understanding and appreciation of the culture of the Hispanic world; introduction to literature. Attributes: Arts and Humanities B, Foreign Language Comp. (DP II) and Literature Option.

**SPN 2102 INTERMEDIATE SPANISH II (5)** Prerequisite: SPN 1103 or equivalent. A review of Spanish language structure, with emphasis on progress towards communicative competence and growth in understanding and appreciation of the culture of the Hispanic world; introduction to literature. Attributes: Arts and Humanities B, Foreign Language Comp. (DP II) and Literature Option.

**SPN 2103 INTERMEDIATE SPANISH III (5)** Prerequisite: SPN 1103 or equivalent. A review of Spanish language structure, with emphasis on progress towards communicative competence and growth in understanding and appreciation of the culture of the Hispanic world; introduction to literature. Attributes: Arts and Humanities B, Foreign Language Comp. (DP II) and Literature Option.

**SPN 3100 ADVANCED SPANISH (1-5)** Registration Approval: Travel Studies Form. European Quarter or Salamanca In-Residence Program only. Attributes: Foreign Language Comp. (DP II) and Upper Division.

**SPN 3101 ADVANCED SPANISH (2)** Prerequisite: SPN 2103 or equivalent. A systematic review of Spanish grammar, with attention to stylistic considerations. May be repeated for credit two times. Attributes: Foreign Language Comp. (DP II) and Upper Division.

**SPN 3104 LITERATURE SURVEY: 19TH AND 20TH CENTURY (3)** Prerequisite: SPN 3101 or equivalent. Examines works of major 19th and 20th century writers from Spain and Latin America in the context of contemporary ideologies and values. Taught in Spanish and occasionally offered in English. Offered alternate years. Attributes: Foreign Language Comp. (DP II) and Upper Division.

**SPN 3105 LITERATURE SURVEY: GOLDEN AGE (3)** Prerequisite: SPN 3101 or equivalent. Mystics, picaresque novels, poetry and drama, studied in the context of the period. Taught in Spanish and occasionally in English. Offered alternate years. Attributes: Foreign Language Comp. (DP II), Upper Division and Writing Course.

**SPN 3106 LITERATURE SURVEY: MIDDLE AGES (3)** Prerequisite: SPN 3101 or equivalent. Examines the earliest writings in Spanish, including epic poetry, prose and lyric poetry in light of the Medieval Spanish worldview. Taught in Spanish and occasionally in English. Offered alternate years. Attributes: Foreign Language Comp. (DP II) and Upper Division.

**SPN 4000 LATIN AMERICAN STUDIES PROGRAM: SPANISH LANGUAGE STUDY (9)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the Latin American Studies Program (LASP). As a Latin American Studies participant, you study Spanish not only in the classroom, but also on the street, in your home, in your service opportunity and during travel throughout Latin America. Students come to Costa Rica with varying degrees of fluency in Spanish, so LASP places you in the Spanish class that corresponds to your level of oral and written proficiency based on the placement exam and interview you will receive during orientation. You will study grammar, conversation and/or literature, based on the results of your tests. Attribute: Upper Division.

**SPN 4401 TOPICS IN SPANISH LITERATURE (3,5)** Prerequisite: SPN 3101 or equivalent. Emphasis varies from quarter to quarter. Taught in Spanish and occasionally in English. Offered alternate years. May be repeated for credit one time. Attributes: Arts and Humanities B, Foreign Language Comp. (DP II), Literature Option and Upper Division.

**SPN 4501 TOPICS IN LATIN AMERICAN LITERATURE (3,5)** Prerequisite: SPN 3101 or equivalent. Emphasis varies from quarter to quarter. Taught in Spanish and occasionally in English. Offered alternate years. May be repeated for credit one time. Attributes: Arts and Humanities B, Foreign Language Comp. (DP II) and Upper Division.

**SPN 4900 INDEPENDENT STUDY (1-10)** Registration Approval: Independent Study Agreement. Student works independently with a faculty member on a mutually agreed upon topic. May be repeated for credit up to 15 credits. Attribute: Upper Division.

**SPN 4920 INDEPENDENT READINGS SPANISH (1-5)** Registration Approval: Independent Study Agreement. May be repeated for credit up to 10 credits. Attributes: Foreign Language Comp. (DP II) and Upper Division.

**SPN 4930 SPANISH TUTORIAL PRACTICUM (1-5)** Registration Approval: Instructor. For advanced students who wish to assist in 1000-level Spanish classes. May be repeated for credit up to 6 credits. Attributes: Foreign Language Comp. (DP II) and Upper Division.

**SPN 4940 COOP EDUCATION: SPANISH INTERNSHIP (1-10)** Registration Approval: Intern Learning Contract Req. Provides opportunity for practical application of Spanish language skills. May be repeated for credit up to 10 credits. Attribute: Upper Division.

### Faculty

**Robert Baah**, *Professor of Spanish*; B.A. University of Ghana, 1982; M.A. University of Alberta, 1989; Ph.D., University of Southern California, 1994. At SPU since 1995.

**Kathryn Bartholomew**, *Associate Professor of Foreign Languages and Linguistics; Director of Graduate TESOL*; B.A., University of Washington, 1969; M.A., 1970; Ph.D., 1979. At SPU since 1989.

**Owen Ewald**, *Assistant Professor of Classics*; B.A. Yale University, 1992; M. A., University of Washington, 1995; Ph.D., 1999. At SPU since 2001.

**Michael Macdonald**, *Professor of Philosophy and European Studies*; B.A., Pacific Lutheran University, 1963; M.A., University of Washington, 1964; Ph.D., 1974. At SPU since 1967.

**Katya Nemtchinova**, *Assistant Professor of TESOL and Russian*; Ph.D., State University of New York, Stony Brook, 1997. At SPU since 1997.

**Marilyn S. Severson**, *Professor of European Studies/French; Chair of Foreign Languages and Literatures*; B.A., Willamette University, 1962; M.A., University of Pittsburgh, 1964; Ph.D., University of Colorado, 1973. At SPU since 1979.

**Eric Vogt**, *Associate Professor of Spanish*; B.A., University of Hawaii, Manoa, 1977; M. A., University of Missouri, 1983; Ph.D., 1988. At SPU since 2001.

**Michael Ziemann**, *Associate Professor of European Studies/German and Linguistics*; B.A., Freie Universität, West Berlin, McPherson College, 1968; M.A., Kansas State University, 1969; Ph.D., Washington University (St. Louis), 1974. At SPU since 1982.

## Latin American Studies

See Languages

## Linguistics

**Kathryn Bartholomew**, *Contact Person*,  
**Katya Nemtchinova**, **Luke Reinsma**, **Debra Sequeira**,  
**Michael Ziemann**

Linguistics reflects on the nature of language itself and on human beings as creators and users of language. Students of linguistics generally prepare themselves to enter professional fields as translators, literacy specialists, teachers of English as a second language, foreign language specialists, or elementary and secondary school teachers. Studies focus on the systems of language – sound, meaning and phrase and sentence structure, both in the present and through time.

### Requirements for the Minor

(30 credits; 15 upper division)

LIN 2100 Foundations of Language Study	3
LIN 4145 Phonology	3
LIN 4150 Morphology	3
LIN 4400 Comparative Syntax	3
LIN 4410 Syntax	3

Select 15 credits from the following courses:

LIN 4365 Methodology of Foreign Language Teaching (3)	
LIN 4450 Pragmatics and Semantics (5)	
LIN 4601* History of English (3)	
LIN 4920 Directed Readings (1-10)	
EdRd 3529 Child Language Acquisition (3)	15
<b>Total</b>	<b>30</b>

\*LIN 4601 (*History of English*) is strongly recommended for English majors.

**Linguistics Courses**

**LIN 2100 FOUNDATIONS OF LANGUAGE STUDY (3)** Develops conceptual tools for understanding the nature and the processes of language: phonology, morphology, syntax, semantics and pragmatics. Personal and professional attitudes toward the world of language are re-examined. This course is also offered via distance learning. Attributes: Arts and Humanities B and Media.

**LIN 4145 PHONOLOGY (3)** A thorough study of sound systems and processes, with problem-solving experience in the analysis of English and other languages. Attribute: Upper Division.

**LIN 4150 MORPHOLOGY (3)** A thorough study of word structures and processes, with problem-solving experience in the analysis of English and other languages. Attribute: Upper Division.

**LIN 4365 METHODOLOGY OF FOREIGN LANGUAGE TEACHING (3)** An overview of the theoretical paradigms of second language learning and teaching; definition and evaluation of communicative competence; strategies for teaching skills of listening, speaking, reading and writing; selection and development of instructional materials. Attribute: Upper Division.

**LIN 4400 COMPARATIVE SYNTAX (3)** Prerequisite: LIN 2100 or permission of instructor. Provides an intensive investigation into non-English sentence structures. Basic rule making and rule testing are examined in a variety of languages. Not offered every year. Attribute: Upper Division.

**LIN 4410 SYNTAX (3)** Provides an intensive investigation into contemporary English sentence structures through an application of current syntactic theory. Basic rule making and rule testing are examined in the student's own language. Attribute: Upper Division.

**LIN 4601 HISTORY OF THE ENGLISH LANGUAGE (3)** Examines Anglo-Saxon, middle and modern forms of English in historical development and individual language systems. Includes phonology, morphology, syntax and some discussion of the relationships of each language stage to literary expression during its era. Offered alternate years. Course Equivalent: ENG 4601. Attribute: Upper Division.

**LIN 4900 INDEPENDENT STUDY (1-5)** Registration Approval: Independent Study Agreement. Student works independently with a faculty member on a mutually agreed upon topic. May be repeated for credit up to 15 credits. Attribute: Upper Division.

**LIN 4920 DIRECTED READINGS (1-10)** Registration Approval: Independent Study Agreement. May be repeated for credit up to 10 credits. Attribute: Upper Division. Class not open to freshmen.

**LIN 4930 TUTORIAL PRACTICUM (1-5)** Registration Approval: Instructor. May be repeated for credit up to 5 credits. Attribute: Upper Division. Class not open to freshmen.

**LIN 4950 SPECIAL TOPICS IN LINGUISTICS (1-5)** Not offered every year. May be repeated for credit up to 5 credits. Attribute: Upper Division. Class not open to freshmen and sophomores.

**LIN 4952 SPECIAL TOPICS IN LINGUISTICS (1-5)** Not offered every year. May be repeated for credit up to 5 credits. Attribute: Upper Division. Class not open to freshmen and sophomores.

**Math Education**

see Education

**Mathematics**

Miller Science Learning Center  
(206) 281-2140  
www.spu.edu/depts/math

**Steve Johnson, Chair, Brian Gill, Russ Killingsworth, Wai Lau, Robbin O'Leary, Dick Wood, Sharon Young**  
Mathematics offers curricula leading to the bachelor of arts and bachelor of science degrees. The B.A. degree program is designed for students interested in mathematics as a liberal arts major and for those planning to teach mathematics in secondary schools. The B.S. in mathematics degree program

is designed for students planning graduate work or professional careers in mathematics. The B.S. in computational mathematics is an interdisciplinary major designed for students interested in careers involving the application of mathematics and computer science. A mathematics education major is also offered for elementary certification. See the School of Education section of the *Catalog* for information.

**High school preparation.** Three years of high school mathematics, including trigonometry, are required for all students entering one of the degree programs. However, students who plan to make mathematics a career are urged to take a minimum of four years of high school mathematics.

Students deficient in their high school mathematics preparation must take the appropriate courses in the sequence MAT 1101, 1112 and 1114 to make up the deficiency before starting one of the math degree programs.

**Advanced Placement Program.** Superior students who have completed one year of calculus in high school may apply for advanced placement and credit for 1225 and 1226. The extent to which a student will be advanced and the amount of credit given will be decided on an individual basis by the mathematics faculty.

**Mathematical competency requirement.** All undergraduates are required to demonstrate mathematical competency. This can be accomplished in any one of the following ways:

1. Have a quantitative SAT score of at least 580 or ACT score of at least 25.
2. Transfer in with a "C" or better in MAT 1225, or in its college-level equivalent.
3. Achieve a passing score on SPU's mathematics proficiency exam.
4. Complete the required work in Arithmetic Review as revealed by the proficiency test results.
5. Successfully complete all 5 credits in Arithmetic Review.

Unless the waivers in numbers 1 or 2 above apply, no student will be allowed to enroll in any mathematics course (except Arithmetic Review) without having passed the proficiency exam or completed the required work in Arithmetic Review.

**What to take first.** In general, students with four years of high school mathematics should start with MAT 1225; those with three years should take MAT 1110 or 1112 and 1114. Those students with two years should take MAT 1101. However, mathematics faculty will determine where a student should start on the basis of high school record and entrance test scores. An algebra/calculus placement test will be administered by the Mathematics Department during the first week of the quarter in MAT 1110, 1221 and 1225.

**Admission to the major.** A GPA of 2.5 or above in 15 credits of mathematics that apply to the major is required for admission to the major.

**Computer use.** Each mathematics student should have strong computer skills. Students wishing careers in industry or applied mathematics should know a programming language.

**Math Lab.** The following courses are available through the Math Lab: Arithmetic Review, MAT 0140, 1102, 1103, 1112 and 1114. The Math Lab is open daily for student tutoring and testing. These courses do not include a lecture; students study self-instructional materials, obtain instructional help in the Math Lab when necessary and take tests in the Math Lab. Since the learning system in this lab follows a mastery learning approach, students may take more than one exam per unit. The courses Arithmetic Review and MAT 0140 are available only through the Math Lab, while the other courses are also available in regular lecture sections.

**Actuarial science.** A student interested in becoming an actuary should major in mathematics or mathematics/economics. The following mathematics courses should be included: MAT 2375, 2376, 4363, 4725, 4830 and some independent study. This provides the foundation for taking exams I, II and III as offered by the Society of Actuaries. Further work in economics is helpful.

**Mathematics/economics.** Students desiring a major in mathematics-economics should consult a mathematics advisor for information on a student-designed major. B.S. in Engineering Science. Emphasis in mathematics. (See Engineering Science section.)

**Requirements for the Mathematics Major  
B.A. in Mathematics**

(57 credits; 28 upper division)

(Refer to page 64 for a summary of degree requirements.)

MAT 1225, 1226 Calculus .....	10
MAT 1228 Series and Differential Equations .....	5
MAT 2228 Multivariable Calculus .....	3
MAT 2375 Probability Theory .....	2
MAT 2376 Applied Statistics .....	3
MAT 2401 Linear Algebra .....	3
MAT 2720 Discrete Mathematics .....	3
MAT 3749 Introduction to Analysis .....	5
MAT 3441 Axiomatic Geometry	
or MAT 3443 Transformational Geometry .....	3
MAT 4402 Modern Algebra I .....	3
MAT 4610 Evolution of Mathematical Thought .....	3
MAT 3751 Real Analysis II	
or MAT 4403 Modern Algebra II .....	3
MAT 4918 Senior Seminar .....	3
Additional credits in courses numbered 3000-4999* .....	8
<b>Total .....</b>	<b>57</b>

\* Students pursuing an endorsement in secondary education must take MAT 3401 as 3 of the 8 additional credits. A maximum of 3 credits in MAT 4930 may be applied.

**B.S. in Mathematics**

(64 credits; 38 upper division)

(Refer to page 64 for a summary of degree requirements.)

MAT 1225, 1226 Calculus .....	10
MAT 1228 Series and Differential Equations .....	5
MAT 2228 Multivariable Calculus .....	3
MAT 2375 Probability Theory .....	2
MAT 2401 Linear Algebra .....	3
MAT 2720 Discrete Mathematics .....	3
MAT 3749 Introduction to Analysis .....	5

MAT 3751 Real Analysis II .....	3
MAT 4402 Modern Algebra I .....	3
MAT 4403 Modern Algebra II .....	3
MAT 4918 Senior Seminar .....	3
Additional credits in courses numbered 3000-4999* .....	21
<b>Total .....</b>	<b>64</b>

\* Courses 4363 and 4830 are strongly recommended. A maximum of 3 credits in 4930 may be applied.

15 credits in related approved courses in which mathematics is applied are also required. A GPA of 2.5 must be maintained for all mathematics courses. Students who plan graduate work in mathematics are strongly advised to take further work in real analysis in their upper-division program and to acquire a reading knowledge of French, German or Russian.

**B.S. in Computational Mathematics**

(100 credits; 38 upper division)

(Refer to page 64 for a summary of degree requirements.)

MAT 1225, 1226 Calculus .....	10
MAT 1228 Series and Differential Equations .....	5
MAT 2228 Multivariable Calculus .....	3
MAT 2375 Probability Theory .....	3
MAT 2376 Applied Statistics .....	2
MAT 2401 Linear Algebra .....	3
MAT 2720 Discrete Mathematics .....	3
MAT 3724 Applied Analysis .....	3
MAT 4725 Numerical Analysis .....	5
MAT 4830 Mathematical Modeling .....	5
MAT 4918 Senior Seminar .....	3
CSC 1230 Problem Solving and Programming .....	5
CSC 2430 Data Structures I .....	5
CSC 2431 Data Structures II .....	5
CSC 2220 Scientific Programming .....	3
CSC 3430 Algorithm Design and Analysis .....	4
CSC 3150 Systems Design .....	5
CSC 3750 Computer Architecture and Organization .....	5
PHY 1121, 1122, 1123 Physics for Science	
and Engineering .....	15
Additional credits in CSC numbered 3000-4999 .....	8
<b>Total .....</b>	<b>100</b>

**Requirements for the Mathematics Minor**

(34 credits; 15 upper division)

MAT 1225, 1226 Calculus .....	10
MAT 2228 Multivariable Calculus (3)	
or MAT 2375 Probability Theory (2) .....	3 or 2
MAT 2401 Linear Algebra .....	3
MAT 2720 Discrete Mathematics .....	3
Additional credits numbered 3000-4999* .....	15
<b>Total .....</b>	<b>34 or 33</b>

\* 3749 and 4402 are strongly recommended for all minors and a teaching minor must include 3749, 4402 and 3441 or 3443. A maximum of 3 credits in 4904 or 4930 may be applied.

**Mathematics Courses**

**MAT 0121-26 ARITHMETIC REVIEW I (1)** Studies the fundamentals of arithmetic. A diagnostic test indicates which topics need review and the course is individualized to those needs. Credits in this course do not apply toward graduation requirements. (Offered only in the Math Lab.) Attribute: Remedial.

**MAT 0131 ARITHMETIC REVIEW (2)** Studies the fundamentals of arithmetic in a classroom setting rather than in the Math Lab. Only open to those needing 5 credits of Arithmetic Review. Credits in this course do not apply toward graduation requirements. Attribute: Remedial.

**MAT 0132 ARITHMETIC REVIEW (3)** Studies the fundamentals of arithmetic in a classroom setting rather than in the Math Lab. Credits in this course do not apply toward graduation requirements. Attribute: Remedial.

**MAT 0140 INTRODUCTORY ALGEBRA (3)** Explores sets, solving equations and inequalities, factoring, fractional and rational expressions, graphing and word problems. Credits in this course do not apply toward graduation requirements. (Offered only in the Math Lab.) Attribute: Remedial.

**MAT 1101 INTERMEDIATE ALGEBRA (5)** Studies linear and quadratic equations and inequalities, exponents, radicals and exponential functions, logarithms, polynomials, graphing, rational expressions and systems of equations.

**MAT 1102 INTERMEDIATE ALGEBRA I (3)** Studies linear equations and inequalities, real numbers, polynomials, rational expressions, radicals and exponents. This is the first portion of MAT 1101 and credit cannot be received for taking both courses. (Offered only in the Math Lab.)

**MAT 1103 INTERMEDIATE ALGEBRA II (2)** Explores systems of equations, quadratic equations and inequalities, exponential functions and logarithms. This is the second portion of Math 1101 and credit cannot be received for taking both courses. (Offered only in the Math Lab.)

**MAT 1110 ALGEBRA AND TRIGONOMETRY (5)** Explores algebraic, circular and trigonometric equations and identities, and inequalities. Credit cannot be received for this course if MAT 1112 or MAT 1114 has been taken.

**MAT 1112 COLLEGE ALGEBRA (3)** Explores inequalities and algebraic functions: linear, quadratic, polynomial and rational. This is a portion of MAT 1110; credit cannot be received for taking both courses. (Offered only in Math Lab.)

**MAT 1114 TRIGONOMETRY (2)** Studies the development of circular and trigonometric functions, right-triangle applications, trigonometric equations and identities. This is a portion of MAT 1110; credit cannot be received for taking both courses. (Offered only in Math Lab.)

**MAT 1221 SURVEY OF CALCULUS (5)** Prerequisite: MAT 1101 or its equivalent and passing score on Mathematics Proficiency Exam. An applications-oriented course with an intuitive approach including introduction to both differential and integral calculus. Examples drawn from business, economics, biology and the social and behavioral sciences. This course is not the prerequisite for 1226, nor can credit be received if 1225 or its equivalent has been taken. Attributes: Quantitative Reasoning and Mathematics.

**MAT 1225 CALCULUS (5)** Prerequisite: MAT 1110 or its equivalent and passing score on Mathematics Proficiency Exam. Explores differential and integral calculus of functions of one or more variables. Sequence begins both autumn and winter. Attributes: Quantitative Reasoning and Mathematics.

**MAT 1226 CALCULUS (5)** Prerequisite: MAT 1225. Explores differential and integral calculus of functions of one or more variables. Sequence begins both Autumn and Winter Quarters.

**MAT 1228 SERIES AND DIFFERENTIAL EQUATIONS (5)** Prerequisite: MAT 1226. Studies infinite series, general solutions of linear and certain nonlinear differential equations, solutions of systems of differential equations and series solutions.

**MAT 1360 INTRODUCTION TO STATISTICS (5)** Prerequisite: Passing score on Mathematics Proficiency Exam or completion of Arithmetic Review, MAT 0140 or MAT 1102 or equivalent. Explores descriptive statistics, elementary probability, binomial and normal distributions, sampling, estimating parameters, testing hypotheses, regression and correlation. Attributes: Quantitative Reasoning and Mathematics.

**MAT 1521 INTRODUCTION TO CONTEMPORARY MATHEMATICS (5)** Prerequisite: MAT 1101 or its equivalent. Explores topics that illustrate how mathematical methods and models permeate our economic, political and personal lives. By investigation of diverse applications, a variety of problem-solving techniques will be introduced, including using the computer as a tool. Attributes: Quantitative Reasoning and Mathematics.

**MAT 1720 MATHEMATICS FOR COMPUTER SCIENCE (5)** Prerequisite: MAT 1360 or 1221 or 1225. Explores set theory, number systems, logic, proof techniques, linear algebra, equation solving, linear programming and networks.

**MAT 2228 MULTIVARIABLE CALCULUS (3)** Prerequisites: MAT 1226, 2401. Studies vectors and analytic geometry in three dimensions, partial differentiation and multiple integration.

**MAT 2375 PROBABILITY THEORY (2)** Prerequisite: MAT 1226, MAT 1228 recommended. Studies combinatorial methods, elementary probability, random variables, discrete and continuous probability distributions, expected values and moments.

**MAT 2376 APPLIED STATISTICS (3)** Prerequisite: MAT 2375. Further study in discrete and continuous probability distributions, sampling, sampling distributions, central limit theorem, estimation and hypothesis testing.

**MAT 2401 LINEAR ALGEBRA (3)** Prerequisite: MAT 1226. Studies vector spaces, matrices and linear transformations.

**MAT 2530 SURVEY OF MATHEMATICS I (3)** Registration Approval: School of Education. Prerequisite: Passing score on Mathematics Proficiency Exam or completion of Arithmetic Review and completion of or concurrent registration in Professional Quarter I. Includes the study of sets, numeration systems, arithmetic, algebra, number theory, probability and statistics, and relates topics to the elementary school mathematics curriculum. Available for general-education credit only to students in elementary education. Attributes: Quantitative Reasoning and Mathematics. Class not open to freshmen.

**MAT 2531 SURVEY OF MATHEMATICS II (2)** Registration Approval: School of Education. Prerequisite: MAT 2530 completed with a grade of C- or better. Includes topics from geometry and measurement, and relates topics to the elementary school mathematics curriculum. Available for general-education credit only to students in elementary education. Attributes: Quantitative Reasoning and Mathematics. Class not open to freshmen.

**MAT 2700 STATISTICS FOR BUSINESS AND ECONOMICS (5)** Prerequisites: BUS 1700 or CSC 1123 or competency exam. Explores descriptive statistics, probability, random variable distributions, estimation, hypothesis testing, regression and nonparametric statistics. Course Equivalent: BUS 2700.

**MAT 2720 DISCRETE MATHEMATICS (3)** Prerequisite: MAT 1226. Studies sets, logic, Boolean Algebra, relations, functions and graphs. Offered alternate years.

**MAT 3401 NUMBER THEORY (3)** Prerequisite: MAT 3749. Studies topics of classical number theory including divisibility, primes and congruences. Offered alternate years. Attribute: Upper Division.

**MAT 3441 AXIOMATIC GEOMETRY (3)** Prerequisite: MAT 3749. Surveys foundations of Euclidean, non-Euclidean and projective geometries from an axiomatic approach. Offered on alternate years. Attribute: Upper Division.

**MAT 3443 TRANSFORMATIONAL GEOMETRY (3)** Prerequisite: MAT 3749. Surveys Euclidean, non-Euclidean and projective geometries using a transformational approach. Offered on alternate years. Attribute: Upper Division.

**MAT 3724 APPLIED ANALYSIS (3)** Prerequisites: MAT 1228 and 2228. Studies vector analysis, Fourier series, partial differential equations and boundary value problems. Attribute: Upper Division.

**MAT 3725 APPLIED ANALYSIS (3)** Prerequisite: MAT 3724. Continuation of MAT 3724 including special functions. Offered alternate years. Attribute: Upper Division.

**MAT 3730 COMPLEX VARIABLES (3)** Prerequisites: MAT 1228, 2228. Studies theory and applications of complex variables; analytic functions, integrals and power series applications. Offered alternate years. Attribute: Upper Division.

**MAT 3749 INTRODUCTION TO ANALYSIS (5)** Prerequisite: MAT 1228 and 2401. Uses the axiomatic method to prove basic results from set theory and real analysis. Topics include functions, set cardinality, the real number system and the topology of the real line. Attribute: Upper Division.

**MAT 3751 REAL ANALYSIS II (3)** Prerequisite: MAT 3749. Builds on the topics introduced in MAT 3749 including explorations of differentiation and integration. Offered alternate years. Attribute: Upper Division.

**MAT 4363 MATHEMATICAL STATISTICS (3)** Prerequisites: MAT 2376 and MAT 2228. Studies in greater depth continuous and discrete probability distributions, moment generating functions, probability generating functions, transformations and multivariate probability distributions. Offered alternate years. Attribute: Upper Division.

**MAT 4402 MODERN ALGEBRA (3)** Prerequisite: MAT 3749. Studies algebraic structures including groups, rings and fields. Attributes: Upper Division and Writing Course.

**MAT 4403 MODERN ALGEBRA (3)** Prerequisite: MAT 4402. Continuation of MAT 4402. Offered alternate years. Attributes: Upper Division and Writing Course.

**MAT 4610 THE EVOLUTION OF MATHEMATICAL THOUGHT (3)** Prerequisites: MAT 3749 or permission of instructor. Investigates the ideas, methods and work of great mathematicians of the past. Attributes: Upper Division and Writing Course. Class not open to freshmen and sophomores.

**MAT 4725 NUMERICAL ANALYSIS (5)** Prerequisites: MAT 1228 and 2228 or permission of instructor and facility with mathematically oriented software. Studies numerical integration, differentiation, solutions of systems of equations and related topics. Offered alternate years. Attribute: Upper Division.

**MAT 4830 MATHEMATICAL MODELING (5)** Prerequisites: MAT 1228, 2228, 2375 and facility with mathematically oriented software. Focuses on construction and analysis of mathematical models for problems in the real world. The problems will be chosen from a variety of fields, including the biological and social sciences. Offered alternate years. Attribute: Upper Division.

**MAT 4910 MATHEMATICS SEMINAR (1-5)** Investigates topics of current interest through student reports. May be repeated for credit five times. Attribute: Upper Division. Class not open to freshmen and sophomores.

**MAT 4918 SENIOR SEMINAR (1-5)** Prerequisite: 9 credits of upper-division mathematics or instructor permission. This senior capstone course will explore the culture of mathematics through readings and classroom discussions during the Autumn Quarter. Students will synthesize mathematical ideas within the context of a Christian worldview. The student will write a significant paper and make an oral presentation within the following two quarters. First offered Autumn 2001. Attributes: Upper Division and Writing Course. Class not open to freshmen, sophomores and juniors.

**MAT 4930 PRACTICUM IN MATHEMATICS (1-5)** Registration Approval: Instructor. Practical experience in the Math Lab. May be repeated for credit up to 5 credits. Attribute: Upper Division. Class not open to freshmen and sophomores.

**MAT 4940 INTERNSHIP IN MATHEMATICS (1-5)** Registration Approval: Intern Learning Contract Req. Provides a significant learning experience to be obtained in a closely supervised work-study program. May be repeated for credit up to 15 credits. Attribute: Upper Division. Class not open to freshmen, sophomores and juniors.

**MAT 4950 SPECIAL TOPICS IN MATHEMATICS (1-5)** May be repeated for credit up to 6 credits. Attribute: Upper Division. Class not open to freshmen and sophomores.

**Faculty**

**Brian T. Gill**, *Assistant Professor of Mathematics*; B.S., Truman State University, 1991; M.A., University of Kentucky, 1994; M.S., State University of New York at Albany, 1999; Ph.D., State University of New York at Albany, 1999. At SPU since 1999.

**Steven D. Johnson**, *Associate Professor of Mathematics; Chair of Mathematics*; B.A., Westmont College, 1974; Ph.D., University of Minnesota, 1982. At SPU since 1982.

**Russ Killingsworth**, *Assistant Professor of Mathematics*, Math Lab Coordinator; B.A., California State University, Sacramento, 1986; M.A., California State University, Stanislaus, 1992. At SPU since 1996.

**Wai Lau**, *Assistant Professor of Mathematics*; B.S., Hong Kong Baptist College, 1989; M.S., Texas A&M University, 1992; Ph.D., 1998. At SPU since 2001.

**Robbin Lerch O'Leary**, *Associate Professor of Mathematics*; B.A., Goshen College, 1980; M.S., Idaho State University, 1985; Ph.D., University of Texas at Austin, 1990. At SPU since 1990.

**Dick A. Wood**, *Professor of Mathematics and Computer Science*; B.S., California State College at Long Beach, 1961; M.A., 1962; Ph.D., University of Montana, 1976. At SPU 1963-65, 1968-79, and since 1984.

**Sharon Young**, *Associate Professor of Mathematics*; B.A., University of Redlands, 1966; M.A., University of Denver, 1976; Ph.D., University of Colorado, 1979. At SPU 1995-99 and since 2000.

**Music**

Crawford Music Building  
(206) 281-2205  
www.spu.edu/depts/fpa

**Ramona Holmes**, *Chair*, **David Anderson**, **James Denman**, **Eric Hanson**, **Wayne Johnson**, **Gerry Marsh**, **Tamara Still**

The purpose of the music program is threefold: (1) to provide opportunities for all students to study music as an essential part of a liberal arts education; (2) to provide majors in music with the opportunity to develop basic musicianship and performance skills appropriate to the various emphases in the degree; and (3) to recognize the interrelationship between music and the other creative arts. SPU is an accredited institutional member of the National Association of Schools of Music.

**Career Opportunities**

Students majoring in music have the advantage of a strong music major within a liberal arts setting. Students with an emphasis in music education are prepared to teach music in the elementary and secondary schools. Other emphases in music train people to use their gifts as performers, as composers and as private studio teachers and for advanced study in performance, theory and literature.

**Music Ensemble Opportunities**

Many music ensembles are available to SPU students. In the course listings, ensembles are in the 2000/4000 series and course descriptions and requirements may be found there. All ensemble courses carry regular University credit and most require an audition or permission of the instructor for enrollment.

**GPA Admission Requirement**

A minimum GPA of 3.0 is required for admission to the music major.

**General Requirements for All Music Majors**

(48 credits)  
(Refer to page XX for a summary of degree requirements.)

MUS 1101 Musicianship I: Materials and Structure	5
MUS 1102 Musicianship I: Materials and Structure	5
MUS 1103 Musicianship I: Materials and Structure	5
MUS 2101 Musicianship II: Materials and Structure	4
MUS 2102 Musicianship II: Materials and Structure	4
MUS 2601 Musicianship II: Materials and Structure	4
MUS 2601 Survey of Music Literature I	3
MUS 2602 Survey of Music Literature II	3
MUS 2603 Survey of Music Literature III	3
Individual Instruction in a major performance area	6
Piano proficiency	*0-3
Ensemble	6
<b>Total</b>	<b>48-51</b>

\*Piano proficiency is required by the junior year. Students who are enrolled in Musicianship I or II and who are identified as needing remedial keyboard skills may be required to enroll in MUS 1255 until the keyboard proficiency exam (required of all majors) is passed.

**Specific Requirements for the Music Degree With Selected Emphases**

(Select one of the five emphases)

**I. Requirements for Music Education, K-12 Teaching Emphasis**

Anyone majoring in K-12 music education also must complete education courses and internship requirements for certification. See requirements in School of Education section of this *Catalog*.

**General requirements for all music majors** ..... 48

In addition to piano proficiency, every music education major must meet guitar proficiency.

**Additional requirements:**

**Music education core**

(17 credits)

* MUS 2550 Foundations of Music Education	3
† MUS 3502 Music in Special Education	3
MUS 3503 General Music Methods and Materials	3
* MUS 3608 Music Technology	5
† MUS 4655 Context Studies in Music: World Music	3

\* Professional Quarter 1 in School of Education for music majors only.  
† Professional Quarter 2 in School of Education for music majors only.

**School of Education requirements**

(52 credits)

PSY 1180 General Psychology	5
<b>Professional Quarter 2</b>	
EDU 3102 Applications of Ed Psychology	2
EDU 3105 Lab Experience	3
<b>September Experience</b>	
EDU 3942 September Experience	1
<b>Professional Quarter 3</b>	
EDU 4240 General Methods Secondary	5
EDU 4530 Topics in Secondary Ed	2

**Professional Quarter 4**

EDU 4230 General Methods for Teaching Elementary	2
EDU 4943 Elementary Internship	15
<b>Professional Quarter 5</b>	
EDU 4800 Teacher as Person	2
EDU 4945 Secondary Internship	15

**Teaching options**

(Select one of the three)

**A. Combined choral/instrumental option**

(29 or 30 credits)

MUS 1260 Beginning Voice*	1
MUS 2501 Brass Techniques	1
MUS 2502 Percussion Techniques	1
MUS 2503 String Techniques	1
MUS 2504 Woodwind Techniques	1
MUS 3504 Choral Music Methods and Materials I	2
MUS 3505 Instrumental Music Methods and Materials I	2
MUS 3603 Choral Literature	2
MUS 3604 Instrumental Literature	2
MUS 4101 Instrumentation and Orchestration (3) or MUS 4102 Choral Arranging (2)	2-3
MUS 4701 Choral Conducting I	3
MUS 4702 Instrumental Conducting I	3
MUS 4262 Vocal Pedagogy and Techniques	2
See music performance requirement	6

\*Individual vocal instruction may be substituted. This will apply toward musical performance.

**B. Choral/vocal option**

(28 credits)

**Instrumental concepts**

MUS 2501 Brass Techniques	1
MUS 2502 Percussion Techniques	1
MUS 2503 String Techniques	1
MUS 2504 Woodwind Techniques	1
MUS 3505 Instrumental Music Methods and Materials I	2

**Choral concepts**

MUS 3504 Choral Music Methods and Materials I	2
MUS 3603 Choral Literature	2
MUS 4102 Choral Arranging	2
MUS 4701 Choral Conducting I	3

**Vocal concepts**

MUS 2260 Singers Art I	3
MUS 2261 Singers Art II	3
MUS 4262 Vocal Pedagogy and Techniques	2
MUS 1260 Beginning Voice Class*	2
See music performance requirement	3

\*Individual vocal instruction may be substituted.

**C. Instrumental option**

(25 credits)

**Choral concepts**

MUS 3504 Choral Music Methods and Materials I	2
MUS 1260 Beginning Voice Class	2

**Instrumental concepts**

MUS 2501 Brass Techniques	1
MUS 2502 Percussion Techniques	1
MUS 2503 String Techniques	2
MUS 2504 Woodwind Techniques	1

MUS 3505 Instrumental Music Methods and Materials I	2
MUS 3604 Instrumental Literature	2
MUS 4101 Instrumentation and Orchestration	3
MUS 4702 Instrumental Conducting I	3
See music performance requirement	6

**Music performance.** In addition to the 3-6 credits required of all majors. Select from the following options:

- Instrumental:** 6 credits minimum of individual instruction, of which 3 credits minimum must be upper division. One half-hour recital.
- Keyboard:** 6 credits minimum of individual instruction, of which 3 credits minimum must be upper division. One half-hour recital.
- Vocal:** 3 credits minimum of individual instruction. 3 credits of individual instruction must be upper division. One half-hour recital.

**2. Requirements for Performance Emphasis**

(72-77 credits; 23 upper division)  
Audition is required for entry into any music performance program and for all individual instruction.

**General requirements for all majors** ..... 48

**Emphasis options**

(Select one of the three)

**A. Percussion, string, wind performance option**  
(24 credits)

<b>Context Studies in Music</b>	9
(Select from MUS 4654, 4655, 4656; topics change yearly)	
<b>Individual Instruction</b> (in addition to the 6 credits required of all majors).	15
(10 upper-division credits required)	
<b>Ensemble:</b> See general requirements for all majors.	
<b>Recitals:</b> One half-hour junior solo recital and one full-hour senior solo recital.	

**B. Piano performance/pedagogy option**

(27 credits)

MUS 3506 Piano Pedagogy	3
Context Studies in Music	9
(Select from MUS 4654, 4655, 4656; topics change yearly)	
One selection must be Context Studies in Music:	
<b>Piano Literature</b> (3 credits); offered alternate years.)	
<b>Individual Instruction</b> (in addition to the 6 credits required of all majors)	15
(10 upper-division credits required)	

**Ensemble:** See general requirements for all majors. (3 credits of Keyboard Ensemble/Accompanying required.)

**Accompanying:** All students with an emphasis in piano performance and all piano scholarship recipients are required to do one hour of studio accompanying per week. See complete policy in the *Music Handbook*. One quarter of group teaching experience (assisting in piano lab) is required of all students in this option.

**Recitals:** One half-hour junior solo recital and either one full hour senior solo recital or pedagogy paper/lecture-demonstration.

**C. Vocal performance option**

(29 credits)

MUS 2260 The Singer's Art I	3
MUS 2261 The Singer's Art II	3

MUS 4261 Sacred Vocal Repertoire	3
MUS 4262 Vocal Pedagogy/Techniques	2
Context Studies in Music	6
(Select from MUS 4654, 4655, 4656; topics change yearly)	
<b>Individual Instruction</b> (in addition to the 6 credits required of all majors)	12
(10 upper division required)	

**Ensemble:** (see general requirements for all majors)

**Recitals:** One half-hour junior solo recital and one full hour senior solo recital.

**3. Requirements for Theory and Literature Emphasis**

(72-77 credits; 23 upper division)  
General requirements for all majors ..... 48

**Additional requirements**

(24-29 credits)

Context Studies in Music	12
(Select from MUS 4654, 4655, 4656; topics change yearly)	
<b>Individual Instruction</b>	3

**Ensembles** (see general requirements for all majors)

**Emphasis options**

(Select one of the two)

**A. Composition option**

MUS 3608 Music Technology Applications	5
MUS 4100 Composition	9
(These credits to be distributed over at least three quarters and culminating in senior composition)	
<b>B. Music theory and literature option</b>	
Context Studies in Music	3
(Select from MUS 4654, 4655, 4656 in addition to those required above)	
MUS 4921 Directed Readings in Music	6
(These credits to be distributed over at least two quarters and culminating in a senior paper.)	

**4. Requirements for General Emphasis**

(73 credits)  
General requirements for all majors ..... 48

**Additional requirements**

Upper-division music electives: 25

**Requirements for the Music Minor**

(45 credits; 15 upper division)

MUS 1101, 1102, 1103 Musicianship: Materials and Structure	15
MUS 2601, 2602, 2603 Music History and Literature	9
Context Studies in Music	
(Select from MUS 4654, 4655, 4656, etc.)	3
Ensemble participation	3
Individual instruction	3
Music electives to complete 45 credits	5
<b>Total</b>	<b>45</b>

Application should be made to the Division of Fine Arts. Forms are available in the division office.

**Fees in Music Classes**

For fees in individual instruction, music technology, keyboard, class voice, guitar and musicianship, see the cost section of the *Catalog*.

**Music Courses**

**MUS 1028 CHAMBER MUSIC WORKSHOP (2-3)** Concentrated studies on the performance practice and historic background of instrumental chamber music for strings, winds instruments and piano. Participants will develop playing and rehearsal skills by rehearsing and performing chamber music repertoire in master classes, recitals and evening concerts. The course is designed for advanced high school and university instrumental players. May be repeated for credit up to 6 credits.

**MUS 1101 MUSICIANSHIP I: MATERIAL AND STRUCTURE (5)** Students having prior music theory training may request challenge examination for this course prior to Autumn Quarter. Presents basic musical skills of listening, analysis, improvisation, movement, conducting, writing, performance, historical understanding of music and music fundamentals. Students will participate in lecture and laboratory settings including computer assisted instruction. Must begin in Autumn Quarter. Extra fee.

**MUS 1102 MUSICIANSHIP I: MATERIAL AND STRUCTURE (5)** Prerequisite: MUS 1101. Students having prior music theory training may fulfill prerequisite by examination. Request challenge examination prior to Autumn Quarter. Presents basic musical skills of listening, theory and analysis, writing, improvisation, movement, conducting, performance and historical understanding of music. Students will participate in lecture and laboratory settings including computer assisted instruction. Extra fee.

**MUS 1103 MUSICIANSHIP I: MATERIAL AND STRUCTURE (5)** Prerequisites: MUS 1101 and 1102. Students having prior music theory training may fulfill prerequisite by examination. Request challenge examination prior to Winter Quarter. Presents basic musical skills of listening, theory and analysis, improvisation, movement, conducting, writing, performance and historical understanding of music. Students will participate in lecture and laboratory settings including computer assisted instruction. Extra fee.

**MUS 1250 BEGINNING KEYBOARD CLASS (2)** For students with no previous keyboard experience. Ability to read music is not necessary. Course is designed for the non-music major, and expectations for each student are based on individual needs. Emphasis is on note reading, basic theory, chord usage and technical development. Extra fee. May be repeated for an unlimited number of credits. Attributes: Arts and Humanities A and Fine Arts Option. Class not open to music majors.

**MUS 1251 INTERMEDIATE KEYBOARD CLASS (2)** For students with at least two years prior training in piano. Course is designed for the non-music major and expectations for each student are based on individual needs. Emphasis is on note reading, basic theory, chord usage, repertoire, technical development and creative activities. Extra fee. May be repeated for an unlimited number of credits. Attributes: Arts and Humanities A and Fine Arts Option. Class not open to music majors.

**MUS 1254 BEGINNING KEYBOARD PROFICIENCY (2)** For music majors with minimal previous keyboard experience. Sight-reading, harmonization, transposing and technical development will be emphasized in order to meet piano proficiency requirements. Restricted to music majors or intended majors only. Extra fee. May be repeated for an unlimited number of credits. Class open to music majors.

**MUS 1255 INTERMEDIATE KEYBOARD PROFICIENCY (2)** For music majors with at least two years prior training in piano. Sight-reading, harmonization, transposing, technical development and creative activities will be emphasized in order to meet piano proficiency requirements. Extra fee. May be repeated for an unlimited number of credits. Class open to music majors.

**MUS 1260 VOICE CLASS (2)** Two class sessions per week. Emphasis is on basic vocal technique: breath control, tone placement, diction and stage presence. Music includes classical, folk and American music. Extra fee. May be repeated for an unlimited number of credits. Attributes: Arts and Humanities A and Fine Arts Option.

**MUS 1270 BEGINNING FOLK GUITAR (1)** Introduction to folk-style guitar playing. May be taken by music education majors to meet guitar proficiency. Extra fee. May be repeated an unlimited number of times.

**MUS 1271 INTERMEDIATE FOLK GUITAR (1)** Prerequisite: MUS 1270. Extra fee. May be repeated for credit three times.

**MUS 1600 EXPLORING AND UNDERSTANDING MUSIC (5)** The focus is on the pleasure of listening with understanding, using individual, classroom and concert experiences. Introduces basic elements of music as preparation for enjoying masterworks in the European tradition, from medieval times to our own time. Encourages development of listening skills and knowledge of music available in our city. Attributes: Arts and Humanities A and Fine Arts Core. Class not open to music majors.

**MUS 2101 MUSICIANSHIP II: MATERIALS AND STRUCTURE (4)** Prerequisite: MUS 1103. Continued integrated study of musical elements as in Musicianship I emphasizing 16th- and 18th-century counterpoint. Develops skills of composition, aural dictation, improvisation, use of technology and analysis. Emphasis is on developing understanding of and compositional experience with contrapuntal procedures. Extra fee. Corequisite: MUS 2601.

**MUS 2102 MUSICIANSHIP II: MATERIALS AND STRUCTURE (4)** Prerequisite: MUS 2101. Continued integrated study of musical elements as in Musicianship I emphasizing chromatic harmony and modulation. Develops skills of composition, aural dictation, improvisation, use of technology and analysis. Emphasis is on developing understanding of and compositional experience with larger musical forms. Extra fee. Corequisite: MUS 2602.

**MUS 2103 MUSICIANSHIP II: MATERIALS AND STRUCTURE (4)** Prerequisite: MUS 2102. Continued integrated study of musical elements as in Musicianship I emphasizing chromatic harmony, modulation and 20th-century techniques. Analytical studies include introductions to Schenkerian theory and to basic atonal theory. Develops skills of composition, aural dictation, improvisation, use of technology and analysis. Emphasis is on developing understanding of and compositional experience with larger musical forms. Extra fee. Corequisite: MUS 2603.

**MUS 2260 THE SINGER'S ART I (3)** Prerequisite: 3 credits of MUS 1260 or 3 credits of MUS 2219. A study and application of the principles of artistic performance, with special emphasis on English and Italian diction and repertoire. Basic international phonetic alphabet will be learned. Prerequisite to upper-division credit in voice.

**MUS 2261 THE SINGER'S ART II (3)** Prerequisite: MUS 2260. The study and performance of the German and French vocal repertoire of the 19th and 20th centuries. Special attention will be given to diction, style and interpretation. Prerequisite to upper division in voice.

**MUS 2501 BRASS TECHNIQUES (1)** Designed for music education majors. Students learn how to teach the various brass instruments. Emphasis on demonstration of good tone and diagnosis of student problems in a lab setting. Class not open to freshmen.

**MUS 2502 PERCUSSION TECHNIQUES (1)** Designed for music education majors. Students learn how to teach the percussion instruments. Offered alternate years.

**MUS 2503 STRING TECHNIQUES (1)** May be taken for two quarters. Designed for music education majors. Students learn how to teach string instruments. May be repeated for credit one time. Class open to music majors.

**MUS 2504 WOODWIND TECHNIQUES (1)** Designed for music education majors. Students learn how to teach the woodwind instruments. Emphasis on demonstration of good tone and diagnosis of student problems in a lab setting.

**MUS 2550 FOUNDATIONS OF MUSIC EDUCATION (3)** Explores social, historical and philosophical foundations of American music education. Focuses on teaching curricula from ancient times to the present. Provides opportunities to apply course content through service-learning and field-related experiences. Part of Professional Quarter 1 in place of EDU 2103 for music majors. Class open to music and music-int. majors.

**MUS 2601 SURVEY OF MUSIC LITERATURE I (3)** A chronological study of the development of Western art music from the early medieval period through the baroque era.

**MUS 2602 SURVEY OF MUSIC LITERATURE II (3)** A chronological study of the development of Western art music in the pre-classical period and the Romantic period through Richard Wagner.

**MUS 2603 SURVEY OF MUSIC LITERATURE III (3)** A chronological study of the development of Western art music from the late Romantic period to the present.

**MUS 2604 SOUNDSCAPE (5)** This course explores a wide range of music, including vernacular and art music of Western and non-Western cultures. Students gain skills in listening to music from

diverse cultures, develop understanding of the influence of cultural and historical context of those musics and learn how those traditions can be experienced today in the city of Seattle. Attributes: Arts and Humanities A and Fine Arts Core. Class not open to music majors.

**MUS 2605 SURVEY OF POPULAR MUSIC (5)** A survey of popular song in America, its development, variety and influences on American culture. Emphasis is on listening, style analysis and the elements of music. Attributes: Arts and Humanities A and Fine Arts Core. Class not open to music majors.

**MUS 2654 WORLD MUSIC (3)** This course explores the significance of music in different societies. Emphasis is on the music of the Pacific Rim, but may include sub-Saharan Africa, Latin America, Eastern Europe and the Middle East. Corequisite: MUS 2655. Attributes: Arts and Humanities A and Fine Arts Option.

**MUS 2655 WORLD MUSIC LABORATORY (2)** Provides practical, hands-on experience in performing on instruments used in music from the Pacific Rim, sub-Saharan Africa, Latin America, Eastern Europe and the Middle East. Corequisite: MUS 2654. Attributes: Arts and Humanities A and Fine Arts Option.

**MUS 3309 MUSIC TECHNOLOGY APPLICATIONS (1-3)** Demonstrates how to enter notes into a computer through a MIDI keyboard, edit the resulting notation using Finale software and print the results on a laser printer. Offered Summer Quarter only. May be repeated for credit up to 6 credits. Course Equivalents: EDTC 5309 and MUS 5309. Attribute: Upper Division. Class not open to graduate level.

**MUS 3401 MUSIC AND WORSHIP (2)** A study of the philosophical, biblical and theological relationships of music to worship in the Christian church. Attributes: Arts and Humanities A, Fine Arts Option and Upper Division.

**MUS 3500 FUNDAMENTALS OF MUSIC FOR FUTURE TEACHERS (2)** This course covers basic music theory, including rhythmic sight-reading, interpretation of pitch notation and basic chording. Students who have had basic theory may test out of this class. Designed for future classroom teachers. May be taken towards General Education Fine Arts Options credit. Attribute: Upper Division. Class not open to music majors. Class not open to freshmen.

**MUS 3501 ELEMENTARY METHODS AND MATERIALS (3)** Prerequisite: Concurrent enrollment or completion of MUS 3500. This class covers basic approaches to teaching music in the elementary classroom for the regular classroom teacher. It focuses on music as a content area and music as it relates to arts in basic education. Elementary education certification students may take MUS 3501 toward General Education Fine Arts Options credit. Attribute: Upper Division. Class not open to music majors. Class not open to freshmen.

**MUS 3502 MUSIC IN SPECIAL EDUCATION (3)** This course centers on methods for dealing with music and related arts with children who have special needs. Materials for use with children are developed. This course is designed for special education majors. Elementary education certification students may take MUS 3502 toward General Education Fine Arts Options credits. Attribute: Upper Division. Class not open to freshmen and sophomores.

**MUS 3503 GENERAL MUSIC METHODS AND MATERIALS (3)** Prerequisite: MUS 2550 or EDU 2103. A survey of methods for instruction in elementary classroom music and secondary general music programs. Includes exposure to current materials available for instruction in those settings and preparation of materials appropriate to age levels. Attribute: Upper Division. Class open to fine and applied arts and music majors. Class not open to freshmen and sophomores.

**MUS 3504 CHORAL MUSIC METHODS AND MATERIALS (2)** Prerequisite: MUS 2550 or permission of instructor. A survey of the teaching methods, rehearsal techniques, and choral organization from the elementary school chorus through the adult choir. Emphasis is on development of diagnostic rehearsal skills through special class projects and survival skills for the beginning choral director. Attribute: Upper Division. Class open to music majors. Class not open to freshmen and sophomores.

**MUS 3505 INSTRUMENTAL MUSIC METHODS AND MATERIALS (2)** Prerequisite: MUS 2550. A survey of the instrumental music program, grades 5-12. Emphasis is on examination of appropriate teaching materials, teaching methods for various program levels, program planning and development, and evaluation of learner progress. Experience in planning and presenting

model-learning experiences in instrumental music is provided. Offered alternate years. Attribute: Upper Division. Class open to music majors. Class not open to freshmen and sophomores.

**MUS 3506 PIANO PEDAGOGY (3)** Emphasis is upon developing a philosophy of music teaching at the primary to intermediate levels. Includes an examination of ideas and theories about learning and teaching, observation of teaching, the study of teaching strategies and literature, student teaching and use of music technology. Includes supervised teaching. Offered alternate years. Attributes: Upper Division and Writing Course.

**MUS 3602 THE MAGIC OF OPERA (5)** An in-depth study of selected masterpieces of standard operatic repertoire from an historical and aesthetic perspective. Ideas and themes of operas are related to social, moral, political and religious issues confronting individuals in society. Attendance at live opera productions is a part of class activity. Offered alternate years. Attributes: Arts and Humanities A, Fine Arts Option and Upper Division. Class not open to freshmen and sophomores.

**MUS 3603 CHORAL LITERATURE (2)** Prerequisites: MUS 1101, 1102, 1103. A survey of choral music representing historical forms, eras and styles. Emphasis is on literature appropriate for choirs in grades five to 12. Consideration given for balance in programming. Offered alternate years. Attribute: Upper Division. Class not open to freshmen and sophomores.

**MUS 3604 INSTRUMENTAL LITERATURE (2)** Prerequisites: MUS 1101, 1102, 1103. A survey of instrumental music appropriate for performance by groups in grades five to 12. Offered alternate years. Attribute: Upper Division. Class not open to freshmen and sophomores.

**MUS 3608 MUSIC TECHNOLOGY APPLICATIONS (5)** Prerequisite: Must have elementary piano-playing skills, no computer skills necessary. Students will have daily hands-on experience at an individual workstation consisting of a MIDI keyboard and Macintosh computer. The main emphasis will be on basic through advanced applications of the music notation software Finale. Additional student lessons will include desktop publishing and the introduction of Web site portfolio programs. This course meets the requirements and is in place of Professional Quarter 1, Education Technology EDTC 2235 for music education majors only. Extra fee. May be repeated for credit two times. Attribute: Upper Division.

**MUS 3609 ADVANCED MUSIC TECHNOLOGY (5)** Registration Approval: Instructor. Prerequisite: MUS 3608. Students will become proficient with the music technology of the Yamaha O2R Digital Recording Mixer, Digidesign Protools, ADAT 16-track audio recording and the basic production of a musical CD. May be repeated for credit three times. Attribute: Upper Division. Class open to music, music education, music performance and music theory and literature majors.

**MUS 4100 COMPOSITION (1-3)** Prerequisites: MUS 2103 or permission of instructor. Through basic skill-building exercises this course teaches musical composition in accordance with stated aesthetic values. Students move through levels of increasing complexity and self-initiation. May be repeated for credit up to 9 credits. Attribute: Upper Division.

**MUS 4101 INSTRUMENTATION AND ORCHESTRATION (3)** Prerequisite: MUS 2103. A study of the history, technical limitations and use of orchestral instruments. Practical experience in arranging for various combinations of instruments is provided. Offered alternate years. Attribute: Upper Division. Class not open to freshmen and sophomores.

**MUS 4102 CHORAL ARRANGING (2)** Prerequisites: MUS 1101, 1102, 1103. A study of the basics regarding the use of voices in choral music and methods of arranging music for them. Practical experience in arranging for various choral ensembles is provided. Offered alternate years. Attribute: Upper Division. Class not open to freshmen and sophomores.

**MUS 4261 SACRED VOCAL REPERTOIRE (3)** Registration Approval: Instructor. Prerequisites: MUS 1260, 2219. A study of some of the great sacred, solo vocal repertoire. Special attention will be given to solo cantata and oratorio literature, and appropriate performance practice. Attribute: Upper Division. Class not open to freshmen and sophomores.

**MUS 4262 VOCAL PEDAGOGY AND TECHNIQUES (2)** Registration Approval: Instructor. Prerequisites: MUS 1260, 2219. This course is designed to explore and understand the nature of the singing voice and methods of vocal instruction. Attribute: Upper Division. Class not open to freshmen and sophomores.

**MUS 4401 THE SONG OF THE CHURCH (3)** A study of congregational singing including its history, its genre, its criticism and its effective use in the worship service. Attributes: Arts and Humanities A, Fine Arts Option and Upper Division.

**MUS 4402 HISTORY AND APPRECIATION OF JAZZ (5)** This course surveys the major periods in jazz history, from its roots in New Orleans to the present, with a special section on Seattle jazz. It also emphasizes the common elements throughout that history — blues, improvisation, the group negotiation of individual agendas and the spiritual context of the jazz solo. Attributes: Arts and Humanities A, Fine Arts Core, Upper Division and Writing Course.

**MUS 4701 CHORAL CONDUCTING (3)** Prerequisites: MUS 1101, 1102, 1103. A course designed to develop advanced choral conducting skill and techniques. Attribute: Upper Division. Class not open to freshmen and sophomores.

**MUS 4702 INSTRUMENTAL CONDUCTING (3)** Prerequisite: MUS 1101, 1102, 1103 or equivalent. A course designed to teach elementary score reading, baton techniques, instrumentation and conducting with an instrumental emphasis. Offered alternate years. Attribute: Upper Division. Class not open to freshmen and sophomores.

**MUS 4900 INDEPENDENT STUDY (1-5)** Registration Approval: Independent Study Agreement. Student works independently with a faculty member on a mutually agreed upon topic. May be repeated for credit up to 15 credits. Attribute: Upper Division.

**MUS 4920 DIRECTED READINGS IN MUSIC EDUCATION (1-5)** Registration Approval: Independent Study Agreement. Independent study in music education. May be repeated for credit up to 9 credits. Attribute: Upper Division. Class not open to freshmen and sophomores.

**MUS 4921 DIRECTED READINGS IN MUSIC HISTORY (1-5)** Registration Approval: Independent Study Agreement. Independent study in music history. May be repeated for credit up to 9 credits. Attribute: Upper Division. Class not open to freshmen and sophomores.

**MUS 4922 DIRECTED READINGS IN THE PSYCHOLOGY OF MUSIC (1-5)** Registration Approval: Independent Study Agreement. Attribute: Upper Division.

**MUS 4941 CHORAL CONDUCTING INTERNSHIP (1-5)** Registration Approval: Intern Learning Contract Req. An opportunity for qualified choral conducting students to gain additional proficiency and experience while working with an advanced ensemble. May be repeated for credit up to 10 credits. Attribute: Upper Division. Class not open to freshmen and sophomores.

**MUS 4942 INSTRUMENTAL CONDUCTING INTERNSHIP (1-5)** Registration Approval: Intern Learning Contract Req. An opportunity for qualified instrumental conducting students to gain additional proficiency and experience while working with an advanced ensemble. May be repeated for credit up to 10 credits. Attribute: Upper Division. Class not open to freshmen and sophomores.

**MUS 4943 MUSIC INTERNSHIP (1-5)** Registration Approval: Intern Learning Contract Req. An opportunity for music students to gain additional proficiency and experience in an approved project of the student's own design. May be repeated for credit up to 10 credits. Attribute: Upper Division. Class not open to freshmen and sophomores.

**MUS 4950 SPECIAL TOPICS IN MUSIC (1-5)** Registration Approval: Instructor. Topic and credits to be announced in the *Time Schedule* when offered. Topics are offered usually only once and only upon evidence of significant student interest. Topics might include the music of a specific composer, time or culture; the pedagogy of a particular teacher or methodology or techniques of a certain approach to performance. May be repeated for credit up to 10 credits. Attribute: Upper Division. Class open to music majors. Class not open to freshmen and sophomores.

**MUS 4960 SPECIAL PROJECTS IN MUSIC (1-5)** Registration Approval: Instructor. May be repeated for credit up to 10 credits. Attribute: Upper Division. Class not open to freshmen and sophomores.

### Context Studies in Music

**MUS 4654-4656 (3, 3, 3)** Prerequisites: MUS 1101, 1102, 1103, 2601, 2602, 2603. These courses involve an integrative approach to advanced musicianship while dealing in depth with selected topics. The process includes reading, writing, listening, analysis,

composition, improvisation and computer notation. Topics change yearly. Past topics have included Beethoven: Age of Revolution and Restoration; Passion Settings From Plainsong to Paert; From Taverner to Taverner: Music of the English Church; The Genius of Bach; African Music; World Music; The Symphonies of Gustav Mahler; The Magnificat; Chamber Music; The Operas of Mozart and Beethoven; 20th-Century American Composers and Their Music; The Cantata. May be repeated for credit three times. Attribute: MUS 4654 and 4655 are Writing Courses. Classes not open to freshmen and sophomores.

### Individual Instruction Series

Available in major and non-major sections. Permission of instructor and audition are required to register for all courses listed in this series. Except as otherwise noted, courses may be repeated for an unlimited number of credits. Upper-division courses are open to fine arts majors and are not open to freshmen or sophomores. An extra fee is charged for all courses.

**MUS 2201/4201 INDIV. INSTR.-FLUTE (1-2)**

**MUS 2202/4202 INDIV. INSTR.-OBOE (1-2)**

**MUS 2203/4203 INDIV. INSTR.-CLARINET (1-2)**

**MUS 2204/4204 INDIV. INSTR.-BASSOON (1-2)**

**MUS 2205/4205 INDIV. INSTR.-TRUMPET (1-2)**

**MUS 2206/4206 INDIV. INSTR.-HORN (1-2)**

**MUS 2207/4207 INDIV. INSTR.-TROMBONE (1-2)**

**MUS 2208/4208 INDIV. INSTR.-BARITONE (1-2)**

**MUS 2209/4209 INDIV. INSTR.-TUBA (1-2)**

**MUS 2210/4210 INDIV. INSTR.-PERCUSSION (1-2)**

**MUS 2211/4211 INDIV. INSTR.-VIOLIN (1-2)**

**MUS 2212/4212 INDIV. INSTR.-VIOLA (1-2)**

**MUS 2213/4213 INDIV. INSTR.-VIOLINCELLO (1-2)**

**MUS 2214/4214 INDIV. INSTR.-DOUBLE BASS (1-2)**

**MUS 2215/4215 INDIV. INSTR.-HARP (1-2)**

**MUS 2216/4216 INDIV. INSTR.-ORGAN (1-2)**

**MUS 2217/4217 INDIV. INSTR.-PIANO (1-2)**

**MUS 2219/4219 INDIV. INSTR.-VOICE (1-2)** Prerequisites: MUS 1260, 1261. Majors and scholarship recipients may be exempt from the prerequisites. MUS 2260, 2261 required for vocal instruction beyond 6 credits. May be repeated for credit up to 6 credits.

**MUS 2220/4220 INDIV. INSTR.-CLASSICAL GUITAR (1-2)**

**MUS 2221/4221 INDIV. INSTR.-SAXOPHONE (1-2)**

**MUS 2223/4223 INDIV. INSTR.-JAZZ GUITAR (1-2)**

**MUS 2224/4224 INDIV. INSTR.-JAZZ PIANO (1-2)**

**MUS 2225/4225 INDIV. INSTR.-HARPSICHORD (1-2)**

### Ensemble Series

Permission of instructor and audition are required to register for all courses listed in this series. Courses may be repeated for an unlimited number of credits. Upper-division courses are not open to freshmen or sophomores.

**MUS 2303/4303 SEATTLE PACIFIC SINGERS (1)** Selected scholarship performing group that represents the University in various public relations endeavors.

**MUS 2304/4304 CHAMBER SINGERS (1)**

**MUS 2305/4305 WOMEN'S CHOIR (2)** A choral ensemble of women. Participates in major choral concerts throughout the year. Occasional performances for chapels, at the annual service of Lessons and Carols, and at selected churches and community organizations as an outreach of the University.

**MUS 2306/4306 BRASS ENSEMBLE (1)**

**MUS 2307/4307 PERCUSSION ENSEMBLE (1)**

**MUS 2308/4308 WOODWIND ENSEMBLE (FLUTE CHOIR) (1)**

**MUS 2309/4309 STRING ENSEMBLE (1)**

**MUS 2310/4310 KEYBOARD ENSEMBLE/ACCOMPANYING (1)** Emphasis on piano duet and two-piano literature, as well as accompanying skills.

**MUS 2311/4311 JAZZ ENSEMBLE (2)** An organization of up to 17 instrumentalists that specializes in the preparation, study and performance of music from the jazz literature.

**MUS 2312/4312 MEN'S CHOIR (2)** A choral ensemble of men. Participates in major choral concerts throughout the year. Occasional performances for chapels, at the annual service of Lessons and Carols, and at selected churches and community organizations as an outreach of the University.

**MUS 2313/4313 VOCAL JAZZ ENSEMBLE (2)** Vocalists specializing in the preparation, study and performance of music from the jazz literature.

**MUS 2340/4340 CHAMBER ENSEMBLE (1)** Includes chamber music experience of various types, including woodwind, brass, string, Javanese gamelan, percussion and mixed.

**MUS 2350/4350 CONCERT CHOIR (2)** A choral ensemble of men and women, the Concert Choir performs several major concerts during each academic year.

**MUS 2351/4351 SYMPHONIC WIND ENSEMBLE (2)** As a group of selected wind and percussion players, this ensemble provides an opportunity for in-depth experience in the performance of wind ensemble and band repertoire.

**MUS 2353/4353 SYMPHONY ORCHESTRA (2)** An ensemble of strings with selected woodwinds, brass and percussion instruments, performing works from the extensive orchestral literature.

**MUS 2360/4360 OPERA WORKSHOP (2)** Practical experience in preparation and performance of scenes from opera repertoire.

### Faculty

**David Anderson**, *Assistant Professor of Choral Music*; B.A., Whitworth College, 1981; M.Mus., University of Oregon, 1987; D.M.A. (abd), University of Oregon. At SPU since 1992.

**Myrna Capp**, *Assistant Professor of Music*; B.A., Seattle Pacific College, 1959; M.A., University of Washington, 1977; D.M.A., 1995. At SPU since 1968. (Continuing part-time.)

**James Denman**, *Instructor in Music*; B.Mus., San Francisco State University, 1975; M.A., 1977; D.M.A./Ph.D. (abd), University of Washington. At SPU since 1993.

**Eric Hanson**, *Professor of Music*; B.M.E., Wheaton College, 1971; M.M., Colorado State University, 1974; D.M.A., University of Washington, 1986. At SPU since 1979.

**Ramona Holmes**, *Associate Professor of Music Education; Chair of Music*; B.S., Portland State University, 1974; M.A.T., University of Washington, 1978; M.A., 1982; D.M.A., 1990. At SPU since 1994.

**Wayne D. Johnson**, *Professor of Music*; B.A., Bob Jones University, 1969; M.M., University of Cincinnati, 1975. D.M.A., 1986. At SPU since 1977.

**Gerry Marsh**, *Instructor of Music*; B.A., Northwest Nazarene College, 1967; M. Music, University of Oregon, 1968. At SPU since 1998.

**Tamara Still**, *Instructor of Music*; M.F.A., University of California at L.A.; D.M.A. (abd), University of Washington. At SPU since 1993.

### Part-Time Lecturers

**Dan Adams**, *Music*; B.M.E., University of Idaho, 1974; M.Mus., University of Washington, 1988. At SPU since 1988.

**Margaret Brennand**, *Music*; B. Mus., Eastman School of Music, 1984. At SPU since 1999.

**Rodger Burnett**, *Music*; B.Mus., Illinois State University, 1976; M.A., University of Washington, 1983. At SPU since 1989.

**Julian Catford**, *Music*; B.A., Grand Valley State College, 1977. At SPU since 2000.

**Shelley Collins**, *Music*; B.A., Seattle Pacific University, 1994; M.M. Arizona State University, 1997; D.M.A., University of Colorado-Boulder, (abd). At SPU since 2001.

**Paul de Barros**, *Music*; B.A., U.C. Berkeley, 1967. At SPU since 2001.

**Dayna Fisher**, *Music*; B.M., Eastman School of Music, 1962. At SPU since 2000.

**Hilary Field**, *Music*; B.A. State University of New York Stony Brook, 1980. At SPU since 1992.

**Robert Gale**, *Music*; B. Mus. Ed., Northern Illinois University; M.M., Western Washington University.

**Todd Gowers**, *Music*; B.M. Pacific Lutheran University, 1988. At SPU since 1997.

**Catherine Haight**, *Music*; B.A., Seattle Pacific College, 1976. At SPU since 1994.

**Ronald Haight**, *Music*; B.A. Seattle Pacific University, 1979. At SPU since 1992.

**Jack Halm**, *Music*; B.A., Western Washington University, 1968; M.A. University of Washington, 1984. At SPU since 2001.

**Ryan Hare**, *Music*; B.A., Oregon State University, 1992; M.M., Ithaca College, 1994; D.M.A., University of Washington, 2000. At SPU since 2001.

**Mary Kantor**, *Music*; B.M., University of Washington, 1980. At SPU since 2000.

**Jacinta Koreski**, *Music*; B.A., Central Washington University, 1983; M.M., 1985. At SPU since 1994

**Reuel Lubag**, *Music*; B.A. Central Washington University, 1991. At SPU since 1999.

**William Park**, *Music*. At SPU since 1996.

**Vanessa Sielert**, *Music*; B. Mus. Ed. University of Idaho, 1996; M.M., Baylor University, 1998; D.M.A.(abd), University of Illinois. At SPU since 2001.

**Robert Swan**, *Music*; B.A., Eastman School of Music, 1968; M.Mus., The Julliard School, 1974; D.M.A., University of Arizona, 1990. At SPU since 1992.

**Kim Zabelle**, *Music*; B.M. University of Michigan, 1990; M.M., University of Washington, 1994; D.M.A.(abd), Indiana University. At SPU since 2000.

## Natural and Mathematical Sciences

(Interdisciplinary Courses)

### NMS 3980 PREPROFESSIONAL HEALTH SCIENCES FIELD EXPERIENCE (2)

Registration Approval: Instructor. A course arranged on an individual basis, preferably before third year. It includes several components: field experience as an "invited guest observer" in a professional work setting to see a variety of activities and to talk formally and informally to professionals who are in various stages of training and practice; a record or diary of these experiences; a personal report of impressions and perceptions (to be submitted), readings that emphasize ethical questions and dilemmas. Attribute: Upper Division.

## Philosophy

Marston Hall  
(206) 281-2036  
www.spu.edu/depts/philosophy

**C. Stephen Layman, Chair, Terence Cuneo, Phillip Goggans, Patrick McDonald, Michael Macdonald**

Philosophy is the attempt to answer certain persistent human questions. These questions fall into three traditional groups: (1) axiology (the theory of value), (2) metaphysics (the theory of being) and (3) epistemology (the theory of knowledge). Characteristic questions include the following: What is good? What is real? and What is knowledge and how can one achieve it? By studying what the great philosophers have to say about these questions, one can develop a clear personal philosophy (and a clearer grasp of Christian theology), learn about the history of thought and develop analytical skills, which can be applied to any other field. Philosophy majors often train for careers in law, the ministry, the computer industry and education, but philosophers are also found in most other professional fields.

Serious students in all majors are encouraged to consider philosophy as a second major.

### Admission to the Major

Applicants for a major in philosophy must display a cumulative GPA of 2.5 or higher (4.0 = A) in all college work applicable to the degree, or 3.0 in the 45 credits immediately preceding application to the major.

### Requirements for the Philosophy Major

(55 credits; 25 upper division)

#### Introductory Course

One of PHI 1100, 1002 or 1004 ..... 5

#### History Courses

PHI 3601 Ancient Philosophy ..... 5

PHI 3602 Medieval Philosophy ..... 3

PHI 3633 Early Modern Philosophy ..... 5

#### Systematic Courses

PHI 1001 The Power of Logic ..... 5

PHI 2001 Advanced Logic ..... 3

PHI 3651 Contemporary Ethical Theory ..... 5

PHI 3652 Contemporary Metaphysics ..... 5

PHI 3653 Contemporary Epistemology ..... 5

#### Capstone

PHI 4999 Senior Capstone in Philosophy ..... 1

Electives ..... 13

(USCH 1113, HIS 3435, THEO 4401, and UCOR 3000 may be included in elective courses.)

**Total ..... 55**

Students who choose philosophy as a second major must earn a total of 50 credits, 25 of which must be upper division. The distribution of the 50 credits among the

various areas is similar to the above. However, the student may omit 5 credits from the history, systematic or elective courses with the approval of the philosophy faculty.

All students who complete the philosophy major must be proficient in a foreign language. Proficiency is established upon satisfactory completion of the third quarter of a first year college-level foreign language or its equivalent. For alternative ways of satisfying this requirement, see the general education section of the *Catalog*. Language proficiency is not satisfied as part of the community college direct transfer degree unless the transcript records the completion of foreign language coursework.

### Requirements for the Philosophy Minor

(30 credits; 15 upper division)

#### Introductory Course

One of PHI 1100, 1002 or 1004 ..... 5

#### History Course

Select one course from the following:

PHI 3601 Ancient Philosophy

PHI 3602 Medieval Philosophy

PHI 3633 Early Modern Philosophy ..... 3-5

#### Systematic Course

PHI 1001 The Power of Logic ..... 5

Electives ..... 15-17

**Total ..... 30**

### Philosophy Courses

**PHI 1001 POWER OF LOGIC (5)** An introductory course in logic that covers the following topics: the basic concepts of logic (such as validity and soundness), argument forms, identifying arguments, logic and language, categorical syllogisms and Venn diagrams, informal fallacies, truth tables and natural deduction (for statement logic). Attribute: Arts and Humanities B.

**PHI 1002 HISTORY OF ETHICS (5)** A survey of major philosophical ethicists emphasizing the works of Plato, Aquinas, Kant and Mill. Attribute: Arts and Humanities B.

**PHI 1004 SURVEY OF WESTERN PHILOSOPHY (5)** This course surveys the main ideas, movements and figures in the history of Western philosophy from Socrates to Wittgenstein. Attribute: Arts and Humanities B.

**PHI 1100 FAITH AND PHILOSOPHY (5)** A topical introduction to philosophy that emphasizes connections between philosophy and the Christian tradition. Attributes: Arts and Humanities B and Christian Perspectives.

**PHI 2001 ADVANCED LOGIC (3)** Prerequisite: PHI 1001. Covers these topics: predicate logic with identity, probability and modal logic.

**PHI 2500 PHILOSOPHY OF SCIENCE (3)** The course will examine philosophical issues raised by modern physics, biology and psychology (among other sciences). It will address questions such as the following: What distinguishes science from pseudo-science? Does science differ from philosophy and theology? Can scientific hypotheses be conclusively established through observation and experiment? What makes for a good scientific explanation? Does science converge on the truth about nature or provide merely useful predictive tools? What are the consequences of historical change in science for the rationality of science? Offered alternate years.

**PHI 2801 C.S. LEWIS AND VALUES (3)** Examines Lewis's insights into the nature of humanness, the meaning of life and the possibility of other worlds; evaluates Lewis's position on selected value issues, e.g., marriage, divorce and friendship.

**PHI 2999 AESTHETICS (3)** Is beauty an objective quality that a thing either has or does not have, or are aesthetic judgments merely expressions of personal taste? What sorts of things should we take into account in evaluating art? What is the proper function of art and of the art critic? Offered alternate years. Attributes: Arts and Humanities B, Fine Arts Option and Writing Course.

**PHI 3601 ANCIENT PHILOSOPHY (5)** Surveys the work of principally Greek philosophers, emphasizing Plato and Aristotle. Some consideration may be given to pre-Socratics and post-Aristotelian developments such as Stoicism and neo-Platonism. Attributes: Upper Division and Writing Course.

**PHI 3602 MEDIEVAL PHILOSOPHY (3)** Surveys the thought of some main medieval philosophers such as Augustine, Boethius, Anselm, Aquinas, Duns Scotus and William of Ockham. Attention will be mainly given to their metaphysical, epistemological and ethical theories. Attributes: Upper Division and Writing Course.

**PHI 3606 CONTINENTAL PHILOSOPHY (3)** Prerequisite: PHI 3601 or 3633. Surveys major philosophical figures in the continental tradition such as Hegel, Kierkegaard, Nietzsche, Heidegger, Gadamer, Derrida and Rorty. Offered alternate years. Attributes: Upper Division and Writing Course.

**PHI 3633 EARLY MODERN PHILOSOPHY (5)** Surveys the thought of main figures in the early modern period such as Descartes, Locke, Leibniz, Hume and Kant. Attributes: Upper Division and Writing Course.

**PHI 3651 CONTEMPORARY ETHICAL THEORY (5)** Recommended but not required: PHI 1002. An in-depth examination of the main philosophical theories of ethics such as cultural relativism, subjectivism, the divine command theory, ethical egoism, consequentialist views, deontological views and virtue ethics. Contemporary versions of these theories will be emphasized. Selected topics in metaethics will also be included, such as moral realism, morality and self-interest, moral knowledge. Attributes: Upper Division and Writing Course.

**PHI 3702 SOCIAL ETHICS (3)** A philosophically rigorous examination of a series of contemporary moral issues, such as abortion, surrogate motherhood, euthanasia, the death penalty, discrimination, affirmative action, economic justice, world hunger, welfare, the treatment of animals and the environment. Attributes: Upper Division and Writing Course.

**PHI 3770 TOPICS IN POLITICAL PHILOSOPHY (3)** An in-depth study of a crucial topic in political philosophy. Examples: philosophical implications of the French Revolution, the rule of law, political obligation, Aristotle's politics and democracy. Offered alternate years. May be repeated for credit up to 6 credits. Attributes: Upper Division and Writing Course.

**PHI 3801 C.S. LEWIS AND VALUES (3)** Examines Lewis's insights into the nature of humanness, the meaning of life and the possibility of other worlds; evaluates Lewis's position on selected value issues, such as marriage, divorce and friendship. Attributes: Upper Division and Writing Course.

**PHI 3900 ADVANCED PHILOSOPHY OF RELIGION (5)** An in-depth examination of selected topics in the philosophy of religion, with an emphasis on the work of recent authors such as Swinburne, Mackie, Plantinga, Hick, Alston, Rowe and Robert Adams. Attributes: Upper Division and Writing Course.

**PHI 3999 MIND AND IMMORTALITY (3)** An in-depth examination of the naturalistic program in understanding the human mind. Topics covered include dualism versus physicalism, behaviorism, mind-brain identity theory, functionalism, mental causation, consciousness, reductive and nonreductive physicalism, and the Christian doctrine of the resurrection of the body. Attributes: Upper Division and Writing Course.

**PHI 4652 CONTEMPORARY METAPHYSICS (5)** Prerequisite: PHI 1001. An in-depth examination of classic metaphysical issues focusing on more recent contributions to the debates. Topics include free will, ontology, realism and essentialism. Attributes: Upper Division and Writing Course.

**PHI 4653 CONTEMPORARY EPISTEMOLOGY (5)** Prerequisite: PHI 1001. An in-depth examination of classic epistemological issues focusing on more recent contributions to the debates. Topics include the analysis of knowledge, the Gettier problem, the structure and sources of justification, skepticism, a priori knowledge, and naturalized and feminist epistemology.

**PHI 4661 THE BEST OF C.S. LEWIS (3)** Identifies basic literary, philosophical and theological categories of Lewis's work. Evaluates the insights in the great themes that permeate Lewis's literature through examining his major works, including *Mere Christianity*, *Screwtape Letters*, *Great Divorce*, *The Last Battle* and *Four Loves*. Incorporates lecture series. Attribute: Upper Division.

**PHI 4900 INDEPENDENT STUDY (1-5)** Registration Approval: Independent Study Agreement. Student works independently with a faculty member on a mutually agreed upon topic. May be repeated for credit up to 15 credits. Attribute: Upper Division.

**PHI 4920 DIRECTED READINGS (1-9)** Registration Approval: Independent Study Agreement. Attribute: Upper Division. Class open to juniors and seniors.

**PHI 4921 DIRECTED READINGS IN THE PHILOSOPHICAL WRITINGS OF C.S. LEWIS (1-5)** Registration Approval: Independent Study Agreement. Offers directed study in the explicitly philosophical writings of Lewis, e.g., *The Abolition of Man*, *The Problem of Pain*, *Miracles*, *Four Loves*, *Weight of Glory and Other Addresses*, and *God in the Dock*. May be repeated for credit up to 5 credits. Attribute: Upper Division.

**PHI 4930 PHILOSOPHY PRACTICUM (1-5)** Registration Approval: Instructor. For advanced students who wish to assist as discussion leaders and readers in lower-division philosophy classes. May be repeated for credit up to 5 credits. Attribute: Upper Division. Class open to philosophy majors. Class not open to freshmen and sophomores.

**PHI 4950 SPECIAL TOPICS IN PHILOSOPHY (1-5)** An in-depth exploration of a specific philosophical topic chosen by the instructor. Recent topics include the problem of evil, the doctrines of the trinity and incarnation, political philosophy and C.S. Lewis on the quest for the permanent things. May be repeated for credit up to 10 credits. Attribute: Upper Division. Class open to juniors and seniors.

**PHI 4970 INDEPENDENT RESEARCH (1-9)** Registration Approval: Instructor. Attribute: Upper Division.

**PHI 4999 SENIOR CAPSTONE IN PHILOSOPHY (1)** Prerequisite: 30 credits in philosophy or instructor's permission. This course has two aims: (1) to help students synthesize what they have learned about certain key issues in the three main branches of philosophy, and (2) to assist students in taking the practical steps necessary either to enter the workplace or to attend graduate school. This course is delivered in an independent-study arrangement by agreement with any instructor in the Philosophy Department. (Students planning to attend graduate school should enroll in the last quarter of their junior year. Otherwise the course may be taken any quarter of the senior year.) Attribute: Upper Division. Class open to seniors.

### Faculty

**Terence Cuneo, Assistant Professor of Philosophy**; B.A., Yale University, 1991; Ph.D., Fordham University, 1999. At SPU since 2001.

**Phillip N. Goggans, Associate Professor of Philosophy**; B.A., Asbury College, 1985; M.A., University of Kentucky, 1988; Ph.D., Syracuse University, 1993. At SPU since 1993.

**C. Stephen Layman, Professor of Philosophy; Chair of Philosophy**; B.A., Calvin College, 1977; Ph.D., University of California, Los Angeles, 1983. At SPU since 1986.

**Patrick McDonald, Assistant Professor of Philosophy**; B.A., Seattle University; M.A., University of Notre Dame, 1997; Ph.D., University of Notre Dame, 2001. At SPU since 2001.

**Michael H. Macdonald, Professor of Philosophy and European Studies**; B.A., Pacific Lutheran University, 1963; M.A., University of Washington, 1964; Ph.D., 1974. At SPU since 1967.

# Physical Education

Royal Brougham Pavilion  
(206) 281-2081  
www.spu.edu/depts/pe

**Dan Tripps, Chair, JoAnn Atwell-Scrivner,  
Jarrett Mentink, Bob Weathers**

A primary goal of the Physical Education Department is to promote healthy lifestyles through good decision making, improved fitness and lifetime movement skills. Students who major in physical education proceed through a sequential, comprehensive curriculum that prepares them to enter a variety of movement-related professions, including teaching, fitness training and recreational leadership. Students who major in exercise science often pursue such diverse fields as physical therapy, medical school, sport medicine, corporate fitness and cardiac rehabilitation. Both majors require the same capstone course (PE 4595), which requires students to research a topic, write a well-documented paper and present it before a group of their professors and peers. All physical education and exercise science majors are required to complete the 45 credits of core courses, as well as an additional 27 credits that are unique to their major.

## Admission and GPA Requirement

Students wishing to major in physical education or exercise science must complete at least 45 quarter credits of college coursework with a minimum 2.5 GPA, including 9 credits taken at SPU that apply to the major or minor.

## Requirements for the Majors

(Refer to page 64 for a summary of degree requirements.)

### Core Courses

BIO 2129 Human Anatomy and Physiology .....	5
BIO 2130 Human Anatomy and Physiology .....	5
PE 1301 Wellness .....	3
PE 2550 Safety and First Aid .....	3
PE 2555 Health Issues .....	5
PE 3560 Social-Psychological Aspects of Activity .....	5
PE 3570 Biomechanics .....	5
PE 3580 Exercise Physiology .....	5
PE 3590 Sport Injury Management .....	4
PE 4595 Organization and Administration .....	5
<b>Total .....</b>	<b>45</b>

## Requirements for the Physical Education Major

(72 credits; 23 upper division)

<b>Core courses .....</b>	<b>45</b>
PE 2602 Field Sports .....	1
PE 2603 Court Sports .....	1
PE 2604 Global Sports .....	1
PE 2605 Instruction in Gymnastics .....	1
PE 2608 Alternative Activities .....	1
PE 2609 Individual Sports .....	1
PE 2610 Racquet Sports .....	1
PE 2611 Track and Field Techniques .....	1
PE 2612 Outdoor Pursuits .....	1
PE 3510 Elementary Health and Physical Education .....	4

PE 3515 Secondary Physical Education .....	5
PE 3545 Programs for Special Populations .....	3
PE 3600 Physical Education Teaching Lab .....	3
PE 4575 Coaching and Training Seminar .....	3
<b>Total .....</b>	<b>72</b>

For teacher certification, refer to the School of Education section of this *Catalog* for admission requirements and details.

## Requirements for the Exercise Science Major

(72 credits; 23 upper division)

<b>Core courses .....</b>	<b>45</b>
CHM 1211 General Chemistry .....	5
CHM 1330 Organic and Biological Chemistry .....	5
FCS 3340 Family Nutrition .....	5
FCS 4310 Nutrition in Sports and Exercise .....	3
PE 4585 Exercise Science Lab Seminar .....	3
PE 4930 Exercise Science Practicum .....	1
PE 4940 Internship .....	2
PE 3545 Programs for Special Populations or PE 4575 Coaching and Training Seminar .....	3
<b>Total .....</b>	<b>72</b>

## Fitness Competency Requirement

Prospective majors in both exercise science and physical education are required to achieve a satisfactory score in each of the six areas of the Fitnessgram or complete a department-approved fitness program prior to being officially admitted.

## Requirements for the Minors

Minor in Physical Education

(36 credits; 15 upper division)	
PE 3510 Elementary Health and Physical Education .....	4
PE 3515 Secondary Physical Education .....	5
PE 3545 Programs for Special Populations .....	3
PE 3560 Social-Psychological Aspects of Activity .....	5
PE 3570 Biomechanics .....	5
PE 3580 Exercise Physiology .....	5
PE 3590 Sport Injury Management .....	4
PE 4595 Organization and Administration .....	5
<b>Total .....</b>	<b>36</b>

## Requirements for Health and Fitness Endorsement

Students seeking to obtain a Washington state teaching endorsement in health and fitness must complete a minimum of 45 credits in physical education to obtain their original/first endorsement or a minimum of 24 credits in physical education to obtain a supporting/second endorsement. The credit total must include coursework drawn from the three categories listed below.

## Required domain coursework

### 1. Foundation of health and fitness (select one)

- PE 1301 Wellness (3)
- PE 6960 Project (3)

### 2. Safe living, including first aid and CPR (select one)

- PE 2550 Safety and First Aid (3)
- PE 4900 Independent Study (3),  
plus American Red Cross certification
- PE 6900 Independent Study (3)  
plus American Red Cross certification

### 3. Scientific foundations for health and fitness (select two)

- PE 3570 Biomechanics (5)
- PE 3580 Exercise Physiology (5)
- PE 4575 Coaching and Training Seminar (3)
- PE 6802 Enhancement of Human Performance (3)

### 4. Movement, activities and application with attention to special needs populations

- PE 3545 Programs for Special Populations (3)

### 5. Coordinated health education (select two)

- PE 2555 Health Issues and Programs (5)
- PE 3590 Sport Injury Management (4)
- PE 6803 Health Promotion (3)
- PE 6804 Sport Medicine and Injury Management (3)

## Required pedagogy coursework

- PE 3510 Elementary Health and Physical Education (4)
- PE 3515 Secondary Physical Education (4)

## Required field experience/internship

As arranged with the School of Education.

## Leisure Activities Program

Leisure provides a unique opportunity to become a more fulfilled and complete person. The Department of Physical Education offers a wide spectrum of activity classes in which basic skills can be learned and refined to the point of independent participation.

## Physical Education Courses

**PE 1001 FOOTBALL CLINIC (1)** Introduces students to basic rules and competitive strategies of football.

**PE 1002 SOCCER CLINIC (1)** Introduces students to basic rules and competitive strategies of soccer.

**PE 1003 BASKETBALL CLINIC (1)** Introduces students to basic rules and competitive strategies of basketball.

**PE 1004 SOFTBALL CLINIC (1)** Introduces students to basic rules and competitive strategies of softball.

**PE 1005 VOLLEYBALL CLINIC (1)** Introduces students to basic rules and competitive strategies of volleyball.

**PE 1006 FLOOR HOCKEY CLINIC (1)** Introduces students to basic rules and competitive strategies of floor hockey.

**PE 1100 OUTDOOR SURVIVAL (2)** Basic information for the outdoor leisure courses. Teaches how to recognize wilderness dangers, as well as wilderness survival. Course will cover knowledge and skill acquisition concerning safety and injury prevention. Topics covered will include temperature control, equipment selection and maintenance, map reading, compass navigation and emergency protocol. Extra fee.

**PE 1109 WEIGHT TRAINING (2)** Covers the scientific principles of weight training, exercise selection, safety, fundamental techniques in lifting machine and free weights, program design variables, workout monitoring and personal orientations required for independent weight training. Students will need an active SPU e-mail account for this course. May be repeated for credit up to 6 credits.

**PE 1110 BACKPACKING (2)** Prerequisite: PE 1100 or permission of instructor. Introduces students to backpacking as a leisure activity and provides students with knowledge and skills to safely and enjoyably participate in the sport. Extra fee.

**PE 1120 HIKING (2)** Registration Approval: Instructor. Students will experience Northwest trails and beauty spots, one-day wilderness treks along beaches, or forest or mountain trails. Extra fee.

**PE 1125 SNOWSHOEING AND CROSS-COUNTRY SKIING (2)** Registration Approval: Instructor. Introduces students to snowshoeing and cross-country skiing as leisure activities, and provides students with knowledge and skills to safely enjoy these sports. May be repeated for credit one time.

**PE 1135 ROWING (2)** Introduces students to basic rowing techniques, skills, equipment and conditioning for continued involvement in recreational, fitness or competitive rowing.

**PE 1145 CANOEING AND KAYAKING (2)** Introduces students to canoeing and kayaking as leisure activities. Emphasis is given to practicing skills on flat water. Extra fee. May be repeated for credit one time.

**PE 1150 SAILING (2)** Introduces students to small-boat day-sailing as a leisure activity and provides students with the knowledge and skills to safely and enjoyably participate in the sport on protected water. Extra fee.

**PE 1160 CONDITIONING (2)** Provides students with an opportunity to engage in selected activities individually designed to increase their level of fitness knowledge and skills for the enjoyment of conditioning as a lifelong leisure activity. May be repeated for credit one time.

**PE 1161 WALKING/JOGGING (2)** Introduces students to aerobic and fitness information while providing opportunity to engage in a pleasurable lifelong leisure activity. Local parks and interesting walking routes will be explored. May be repeated for credit one time.

**PE 1165 INTRODUCTION TO DANCE (2)** Introduces students to basic techniques and rhythms of one of several dance styles including aerobics, jazz, folk, ballet, improvisational and creative dance. May be repeated for credit one time.

**PE 1175 FENCING (2)** Introduces students to basic instruction in the sport of fencing. Technical emphasis on basic footwork, defensive and parry systems, methods of attack and counter-attack, judging and directing standard foil competition. May be repeated for credit one time.

**PE 1180 GOLF (2)** Introduces students to the fundamental skills, techniques and rules of golf for enjoyment as a recreational sport. Extra fee. May be repeated for credit one time.

**PE 1185 BADMINTON AND PICKLEBALL (2)** Introduces students to the basic rules, skills and game strategies of badminton and pickleball for enjoyment as recreational sports. May be repeated for credit one time.

**PE 1190 TENNIS (2)** Introduces students to the fundamental skills, game strategies, rules and personal orientations required for playing tennis at a beginning level. May be repeated for credit one time.

**PE 1195 SCUBA (2)** Registration Approval: Instructor. Introduces students to skin and scuba diving as leisure activities. Involves the classroom, pool and open-water training required for skin or scuba diving certification. Extra fee.

**PE 1196 ADVANCED SCUBA (1)** Registration Approval: Instructor. Prerequisite: PE 1195. Provides the six open-water training dives required for advanced scuba diving certification and additional dives or study as arranged. May be repeated for credit one time.

**PE 1199 LEADERSHIP CAMP (2)** Provides personal growth and self-discovery through a five-day wilderness experience before the beginning of Autumn Quarter. Extra fee.

**PE 1200 SOFTBALL (2)** Introduces students to softball as a leisure activity and provides students with knowledge and skills to safely and enjoyably participate in the sport.

**PE 1301 WELLNESS (3)** Examines lifestyle decision making, presents basic knowledge on the following concepts of health and wellness: mental health, nutrition, physical activity, prevention of chronic illness and addictive behavior, leisure and work. Relates course content to spiritual, social, emotional, intellectual and physical well-being and to the development of an integrated lifestyle. Extra fee for wilderness-based course. Course Equivalents: FCS 1301 and HSC 1301. Attribute: Wellness.

**PE 1455 MEN'S BASKETBALL (1)** Registration Approval: Instructor. Open only to eligible varsity intercollegiate athletes. May be repeated for credit three times.

**PE 1456 WOMEN'S BASKETBALL (1)** Registration Approval: Instructor. Open only to eligible varsity intercollegiate athletes. May be repeated for credit three times.



**PE 1460 WOMEN'S GYMNASTICS (1)** Registration Approval: Instructor. Open only to eligible varsity intercollegiate athletes. May be repeated for credit three times.

**PE 1465 CROSS COUNTRY (1)** Registration Approval: Instructor. Open only to eligible varsity intercollegiate athletes. May be repeated for credit three times.

**PE 1470 MEN'S SOCCER (1)** Registration Approval: Instructor. Open only to eligible varsity intercollegiate athletes. May be repeated for credit three times.

**PE 1471 WOMEN'S SOCCER (1)** Registration Approval: Instructor. Open only to eligible varsity intercollegiate athletes. May be repeated for credit three times.

**PE 1475 TRACK AND FIELD (1)** Registration Approval: Instructor. Open only to eligible varsity intercollegiate athletes. May be repeated for credit three times.

**PE 1480 MEN'S CREW (1)** Registration Approval: Instructor. Open only to eligible varsity intercollegiate athletes. May be repeated for credit three times.

**PE 1481 WOMEN'S CREW (1)** Registration Approval: Instructor. Open only to eligible varsity intercollegiate athletes. May be repeated for credit three times.

**PE 1495 WOMEN'S VOLLEYBALL (1)** Registration Approval: Instructor. Open only to eligible varsity intercollegiate athletes. May be repeated for credit three times.

**PE 2550 SAFETY AND FIRST AID (3)** Presents basic skills of accident prevention and emergency treatment of injury and illness. Topics include legal liability and accident response; respiratory emergencies and artificial respiration; circulatory emergencies and cardio-pulmonary resuscitation; hemorrhage control, shock, sudden illness, burns, injuries from exposure to heat and cold; poisoning; drug-abuse emergencies; bone and joint injuries; rescue and transfer; and coverage of specific injuries and disaster preparedness. Accident simulations are staged to gain practice in emergency care. Extra fee. Class not open to freshmen.

**PE 2555 HEALTH ISSUES AND PROGRAMS (5)** Prerequisite: PE 1301. Identifies major health issues and provides familiarization with current programs dealing with these problems. Home, school, community and church resources are included. Class not open to freshmen.

**PE 2602 FIELD SPORTS (1)** Covers the fundamental skills, basic rules, terminology and teaching strategies necessary to plan and deliver effective instruction in football, soccer and softball/baseball.

**PE 2603 COURT SPORTS (1)** Covers the fundamental skills, basic rules, terminology and teaching strategies necessary to plan and deliver effective instruction in volleyball and basketball.

**PE 2604 GLOBAL SPORTS (1)** Covers the fundamental skills, basic rules, cultural understandings and teaching methodologies necessary to plan and deliver effective instruction in selected sports from around the world. Sports offered are dependent on enrollment and include several of the following: Australian rules football, bolas criollas, field hockey, Gaelic football, korfbal, rugby, sepak takraw and team handball.

**PE 2605 INSTRUCTION IN GYMNASTICS (1)** Covers the fundamental skills, basic rules, terminology and teaching strategies necessary to plan and deliver effective instruction in floor exercise, apparatus and rhythmic gymnastics.

**PE 2606 DANCE (1)** Covers the fundamental skills, basic rules, terminology and teaching strategies necessary to plan and deliver effective instruction in aerobics, jazz, folk, ballet, improvisational and creative dance.

**PE 2608 ALTERNATE ACTIVITIES (1)** Covers the fundamental skills, basic rules, terminology and teaching strategies necessary to plan and deliver effective instruction in alternative activities such as roller skating, circus arts, unicycling and new games.

**PE 2609 INDIVIDUAL SPORTS (1)** Covers the fundamental skills, basic rules, terminology and teaching strategies necessary to plan and deliver effective instruction in archery, bowling, fencing, table tennis and other selected sports.

**PE 2610 RACQUET SPORTS (1)** Covers the fundamental skills, basic rules, terminology and teaching strategies necessary to plan and deliver effective instruction in tennis, badminton, pickleball and racquetball.

**PE 2611 TRACK AND FIELD TECHNIQUES (1)** Covers the fundamental skills, basic rules, terminology and teaching strategies necessary to plan and deliver effective instruction in jumps, throws, and running events in track and field.

**PE 2612 OUTDOOR PURSUITS (1)** Covers the fundamental skills and safety considerations, terminology and teaching strate-

gies necessary to plan and deliver effective instruction in hiking, paddle sports, camping and other outdoor adventure activities.

**PE 2613 CONDITIONING TECHNIQUES (1)** Covers the scientific principles, terminology, fundamental paradigms and teaching strategies necessary to plan and deliver instruction for musculoskeletal, aerobic and anaerobic training.

**PE 2624 ADVANCED VOLLEYBALL (2)** Fundamental development of all current volleyball skills such as passing, hitting and blocking. Elementary systems of defense and offense will be introduced. Introductory games and competition will also be a part of the class structure. May be repeated for credit one time.

**PE 3510 ELEMENTARY HEALTH AND PHYSICAL EDUCATION (4)** Explores health and physical education needs, curriculum, activities and teaching strategies for elementary school aged students. Attribute: Upper Division. Class not open to freshmen.

**PE 3515 SECONDARY PHYSICAL EDUCATION (5)** Focuses on appropriate curriculum and teaching methods for secondary physical education. Emphasizes how to develop a successful program including strategies for classroom management, lesson and unit design, fitness promotion and safety. Attribute: Upper Division. Class not open to freshmen.

**PE 3545 PROGRAMS FOR SPECIAL POPULATIONS (3)** Studies disabilities and how physical education and other recreation activities can be matched with the disabled and elderly person's need for participation and/or correction. Attribute: Upper Division. Class open to exercise science and physical education majors. Class not open to freshmen and sophomores.

**PE 3560 SOCIAL-PSYCHOLOGICAL ASPECTS OF SPORT AND EXERCISE (5)** Explores the meaning of sport, recreation and exercise in our culture. Psychological topics include information processing, personality, attention, arousal and anxiety, aggression, psyching and relaxation, imagery and visualization, goal setting, motivation, causal attribution and self systems. Social issues include socialization processes, family, friends, education, politics, economics, media, social class, race, gender, religion and subcultures. The course incorporates significant study of novels and film to address the role of sport and exercise as a part of popular culture. Attributes: Upper Division and Writing Course. Class not open to freshmen and sophomores.

**PE 3570 BIOMECHANICS (5)** Prerequisite: BIO 2129, concurrent registration or permission of instructor. Course provides information regarding the structure and function of the musculoskeletal systems. The course is divided into three sections: Section one reviews functional anatomy including shoulder, elbow, hip, knee and spine; section two examines the basic principles of motion through discussion and laboratory experiment with such topics as nature of forces, Newton's Laws, ground and fluid forces, work, power, energy, torque, levers and center of gravity; section three offers analyses of selected exercise and sport activities including fitness, weight training, striking, kicking, throwing, walking, running, jumping, cycling, swimming, gymnastics and diving. Attribute: Upper Division. Class not open to freshmen and sophomores.

**PE 3575 MOTOR LEARNING AND DEVELOPMENT (4)** Prerequisite: Intent to major in physical education or exercise science. Explores learning and human development theory applied to the acquisition and performance of movement patterns. Includes lab. Attribute: Upper Division. Class not open to freshmen.

**PE 3580 EXERCISE PHYSIOLOGY (5)** Prerequisite: PE 1301, BIO 2130 or permission of instructor. Gives description and explanation of physiological responses and adaptations to exercise, emphasizing improvement of athletic performance and understanding the mechanisms whereby exercise may enhance health. Course includes laboratory. Attribute: Upper Division. Class not open to freshmen and sophomores.

**PE 3590 SPORT INJURY MANAGEMENT (4)** Prerequisite: BIO 2129. Describes the prevention, recognition and treatment of injuries related to sport activity. Emphasis on recognition and decision making for the immediate care of serious and life-threatening injuries and the immediate and secondary care of common sports related injuries. Describes the development and implementation of comprehensive sport injury management systems. Attribute: Upper Division. Class not open to freshmen and sophomores.

**PE 3600 PHYSICAL EDUCATION TEACHING LAB (1)** Prerequisite: PE 3510 or 3515. Course provides a controlled and supervised micro-teaching experience. Emphasis is on lesson design, classroom management and various methods of teaching. May be

repeated for credit three times. Attribute: Upper Division. Class not open to freshmen and sophomores.

**PE 4575 COACHING AND TRAINING SEMINAR (3)** Reviews the scientific principles of musculoskeletal, aerobic and anaerobic training and the scientific principles of motion. The course offers a laboratory experience for designing the fundamental training paradigms and the appropriate coaching strategies that enhance personal fitness, sport-specific conditioning, and positional expertise and skill in sports. Attribute: Upper Division. Class open to seniors.

**PE 4585 EXERCISE SCIENCE LAB/SEMINAR (3)** Prerequisites: PE 3570, 3580. Provides laboratory, research and presentation opportunities that apply, reinforce and expand basic knowledge gained in prerequisite courses. Attribute: Upper Division. Class not open to freshmen and sophomores.

**PE 4590 ADVANCED ATHLETIC TRAINING TECHNIQUES (3)** Prerequisites: BIO 2129, 2130 and PE 3590. Describes legal liability issues in the care and prevention of sports injuries, provides students with understanding and skill in the theoretical basis and common protocols for therapeutic modalities used in sports medicine, studies principles and programs for therapeutic exercise, and introduces injury-assessment techniques, including manual muscle testing. Attributes: Upper Division and Writing Course. Class not open to freshmen and sophomores.

**PE 4595 ADMINISTRATION OF PROGRAMS IN SPORT AND EXERCISE (5)** Offers information and experiences related to organizing and administering sport and exercise programs in both public and private sectors. The course is divided into three sections: Section one presents a business model including leadership, business plans, strategic planning, communication, team building, decision making, conflict management, change, policies and procedures, technology, time and stress management; section two explores practical applications related to sport and exercise including managing programs, facilities, personnel, finances and marketing; section three addresses the legal issues that govern sport and exercise including constitutional, contract and tort law. This course also serves as a resource for required Senior Colloquium. Attributes: Upper Division and Writing Course. Class not open to freshmen, sophomores and juniors.

**PE 4930 EXERCISE SCIENCE PRACTICUM (1-5)** Registration Approval: Instructor. Prerequisites: PE 3570, 3580. Provides practical experience in research, physical fitness testing and/or exercise prescription and leadership with members of the SPU community. May be repeated for credit up to 5 credits. Attribute: Upper Division.

**PE 4931 ATHLETIC TRAINING PRACTICUM (1-5)** Registration Approval: Instructor. Provides practical experience in the prevention, treatment and rehabilitation of athletic injuries. Students work with intercollegiate athletes in the SPU training room and at practice and event sites. May be repeated for credit up to 12 credits. Attribute: Upper Division.

**PE 4940 INTERNSHIP (1-15)** Registration Approval: Intern Learning Contract Req. Offers work experience with local organizations. Internships are available in all major disciplines. Position descriptions that meet student-generated objectives, work hours, calendar, remuneration and related benefits are established by the cooperating organization. A supervisor/mentor from the cooperating organization serves as the author of specific daily assignments and writes the final evaluation. May be repeated for credit up to 15 credits. Attribute: Upper Division. Class open to exercise science, physical education and student-designed majors. Class not open to freshmen and sophomores.

**PE 4950 SPECIAL TOPICS (1-5)** Registration Approval: Department Chair. Special courses offered upon demand and/or department's discretion. May be repeated for credit up to 5 credits. Attribute: Upper Division. Class open to physical education majors. Class not open to freshmen and sophomores.

## Faculty

**JoAnn Atwell-Scrivner**, *Instructor of Physical Education*; B.A., Willamette University, 1976; M.A., Whitworth College, 1990. At SPU since 1986.

**Jarrett W. Mentink**, *Assistant Professor of Physical Education*; B.A., University of Washington, 1993; M.A., Washington State University, 1988; Ph.D., Washington State University, 2001. At SPU since 2001.

**Dan G. Tripps**, *Professor of Physical Education and Chair of Physical Education*; B.A., San Francisco State University, 1968; M.A., Stanford University, 1969; Ph.D., University of Oregon, 1976. At SPU since 1986.

**Robert D. Weathers**, *Professor of Physical Education*; B.S., John Brown University, 1967; M.Ed., University of Arkansas, 1969; Ed.D., Brigham Young University, 1975. At SPU since 1978.

## Physics

Miller Science Learning Center  
(206) 281-2140  
www.spu.edu/depts/physics

**John Lindberg**, *Chair*, **Robert Hughson**, **Lane Seeley**  
Physicists study the changes, interactions and properties of matter and energy and, as a result, strongly influence humankind's understanding of nature. In addition, as engineers create new technology based on principles first discovered by physicists, the social, economic and political structures of society change. To help students grasp the intellectual impact of both theory and application, SPU offers two undergraduate options, which are described below. One, the traditional liberal arts physics major, concentrates on the theories and experiments of physics while providing maximum freedom to absorb the liberal arts. The other, engineering and applied science major with engineering physics emphasis, helps prepare the student to apply physics in industry. A GPA of 2.5 or above in physics and mathematics is required for admission to the major. Students expecting to continue the study of physics in graduate school should consider taking additional courses in physics as well as MAT 3724, 3725, 3730, and they should maintain a GPA of 3.0 or above. It is strongly recommended that students take PHY 4341 and 4342 before taking graduate record exams. A reading knowledge of French, German or Russian is desirable. ENG 3206 Technical Writing is recommended. These studies apply toward the bachelor of science degree.

## Requirements for the Physics Major

(89-90 credits; 25 upper division)  
(Refer to page 64 for a summary of degree requirements.)  
PHY 1101, 1102, 1103 General Physics  
or PHY 1121, 1122, 1123 Physics  
for Science and Engineering. .... 15  
PHY 2321 Intermediate Physics ..... 5  
PHY 3311 Advanced Physics Lab ..... 4  
or EE3721 Electronics 1 Analog Devices and Circuits .... 5  
PHY 3312, 3313 Advanced Physics Lab ..... 4  
PHY 4310 Electricity and Magnetism ..... 5  
PHY 3841 Dynamics ..... 5  
PHY 4910 Physics Seminar ..... 1  
PHY xxxx upper-division physics course ..... 15  
CHM 1211 General Chemistry ..... 5  
CHM 3401 Thermodynamics ..... 4  
EGR 2391 Materials Science  
or PHY 4491 Solid State Physics ..... 5

MAT 1225, 1226 Calculus .....	10
MAT 1228 Series and Differential Equation .....	5
MAT 2228 Multivariable Calculus .....	3
MAT 2401 Linear Algebra .....	3
<b>Total .....</b>	<b>89-90</b>

In addition, the student must complete a senior laboratory project.

### Suggested First-Year Physics Curriculum

#### Autumn

MAT 1225 Calculus .....	5
PHY 1121 Physics for Science and Engineering .....	5
USEM 1000 (or USCH 1111) .....	1
Electives .....	4-5
<b>Total .....</b>	<b>15-16</b>

#### Winter

MAT 1226 Calculus .....	5
PHY 1122 Physics for Science and Engineering .....	5
UCOR 1000 or UFDN 1000 (or USCH 1112) .....	5
(PHY 1910 Special Topics in Physics Seminar .....	1)
<b>Total .....</b>	<b>15-16</b>

#### Spring

MAT 1228 Series and Differential Equation .....	5
PHY 1123 Physics for Science and Engineering .....	5
UFDN 1000 or UCOR 1000 (or USCH 1113) .....	5
(PHY 1910 Special Topics in Physics Seminar .....	1)
<b>Total .....</b>	<b>15-16</b>

### Suggested Second-Year Physics Curriculum

#### Autumn

CHM 1211 General Chemistry .....	5
PHY 2321 Intermediate Physics .....	5
PHY 3311 Advanced Physics Lab .....	4
Electives .....	1-3
<b>Total .....</b>	<b>15-17</b>

#### Winter

MAT 2401 Linear Algebra .....	3
PHY 3312 Advanced Physics Lab .....	2
Electives .....	10-12
<b>Total .....</b>	<b>15-17</b>

#### Spring

EGR 2391 Intro to Materials Science .....	5
MAT 2228 Multivariable Calculus .....	3
PHY 3312 Advanced Physics Lab .....	2
Electives .....	5-7
<b>Total .....</b>	<b>15-17</b>

### Requirements for the Engineering and Applied Science Major

(Physics emphasis)

See the Engineering section of the *Catalog*.

### Requirements for the Physics Minor

(35 credits; 15 upper division)

PHY 1101, 1102, 1103 General Physics or PHY 1121, 1122, 1123 Physics for Science and Engineering .....	15
PHY 2321 Intermediate Physics .....	5
PHY 3311 Advanced Physics Lab .....	4
PHY xxxx upper-division physics course .....	11

### Total .....

35

A maximum of 5 upper-division credits may be selected from either EGR 3401 or 3871.

### Physics Courses

**PHY 1101 GENERAL PHYSICS (5)** Prerequisites: MAT 1110. The first quarter of a general introduction to physics, intended for biology and pre-med majors. Covers mechanics. Lectures and one laboratory each week. Attributes: Physical Sciences and Natural Science B.

**PHY 1102 GENERAL PHYSICS (5)** Prerequisite: PHY 1101. The second quarter of a general introduction to physics, intended for biology and pre-med majors. Covers heat, sound, electricity and magnetism. Lectures and one laboratory each week. Attributes: Physical Sciences and Natural Science B.

**PHY 1103 GENERAL PHYSICS (5)** Prerequisite: PHY 1102. The third quarter of a general introduction to physics, intended for biology and pre-med majors. Covers light, atomic, molecular and nuclear physics. Lectures and one laboratory each week. Attributes: Physical Sciences and Natural Science B.

**PHY 1110 INTRODUCTION TO THE NATURE OF SCIENCE (5)** Provides a lecture, demonstration, discussion course in the physical sciences. Examines the scientific method in light of what it does and does not do. Covers selected scientific concepts and theories, drawing most of the examples from the field of physics. Special emphasis will be given to the worldwide energy cycle and how humankind uses and changes things. A major consideration will be sustainability of our lifestyle – short term and long term. Not recommended for students with more than one high school science course. Attributes: Physical Sciences and Natural Science B.

**PHY 1111 UNIVERSITY SCHOLARS PHYSICS (5)** A general introduction to physics, intended for students in the University Scholars Program. The course will cover Newtonian mechanics and planetary motion, thermodynamics and electromagnetics. Special emphasis will be given to historical relationships and the effects on current Western thought. One laboratory each week.

**PHY 1121 PHYSICS FOR SCIENCE AND ENGINEERING (5)** Prerequisite: MAT 1225 may be taken concurrently. The first quarter of an introduction to physics using calculus. Covers mechanics. Lectures and laboratory each week. Attributes: Physical Sciences and Natural Science B.

**PHY 1122 PHYSICS FOR SCIENCE AND ENGINEERING (5)** Prerequisite: PHY 1121 and MAT 1225. The second quarter of an introduction to physics using calculus. Covers gravitation, oscillations, fluid mechanics, thermal physics, waves and electrostatics. Lectures and laboratory each week. Attributes: Physical Sciences and Natural Science B.

**PHY 1123 PHYSICS FOR SCIENCE AND ENGINEERING (5)** Prerequisite: PHY 1122. The third quarter of an introduction to physics using calculus. Covers electricity, magnetism and optics. Lectures and laboratory each week. Attributes: Physical Sciences and Natural Science B.

**PHY 1135 ASTRONOMY: INDIVIDUAL AND THE UNIVERSE (5)** An integrative general introduction to astronomy, including astronomical observation and measurement, the solar system, extragalactic phenomena and cosmology. Includes the scientific method and worldview implications. (Not recommended for students who have taken NMS 1110). Attributes: Physical Sciences and Natural Science B.

**PHY 1142 EARTH SYSTEM SCIENCE (5)** An interdisciplinary introduction to the processes, interactions and development of the earth's biosphere, geosphere and hydrosphere. Special emphasis will be given to current environmental issues and environmental stewardship. Attributes: Physical Science and Natural Science B.

**PHY 1150 INTRODUCTION TO GEOLOGY (5)** Surveys geology, including identification and origin of rocks and minerals, the processes of forming the present state of the earth, interpretation of geologic features and of the human impact on landscape. Laboratory experiences and/or field trips emphasized. Attributes: Physical Sciences and Natural Science B.

**PHY 1910 SPECIAL TOPICS IN PHYSICS SEMINAR (1)** Registration Approval: Instructor. Prerequisites: One of the following must be taken concurrently: PHY 1101, 1102, 1103, 1121, 1122, 1123. Provides a direct study of current problems and research areas in physics such as astrophysics, chaos and complexity, particles and fields, and relativity. May be repeated for credit two times.

**PHY 2321 INTERMEDIATE PHYSICS (5)** Prerequisites: MAT 1228 and either PHY 1103 or 1123. (MAT 1228 may be taken concurrently). Introduction to the physics of the 20th century: relativity, waves and quanta with applications to areas of contemporary physics such as atoms, nuclei, particles and solids.

**PHY 3120 PHYSICAL SCIENCE AND SOCIETY (5)** Introduces contemporary topics in natural sciences that have technological and social implications; examines the present social structure and environment of the natural sciences. Attributes: Upper Division and Writing Course.

**PHY 3311 ADVANCED PHYSICS LAB (4)** Prerequisite: PHY 2321, or may be taken concurrently. Laboratory applications of electronics and instrumentation. Attribute: Upper Division.

**PHY 3312 ADVANCED PHYSICS LAB (2)** Prerequisites: PHY 2321 and 3311. Provides an integrated advanced laboratory course including experiments in optics, solid-state physics, atomic physics and nuclear physics. Attribute: Upper Division.

**PHY 3313 ADVANCED PHYSICS LAB (2)** Prerequisites: PHY 2321 and PHY 3312. Provides an integrated advanced laboratory course including experiments in optics, solid-state physics, atomic physics and nuclear physics. Attribute: Upper Division.

**PHY 3401 THERMODYNAMICS (4)** Prerequisites: CHM 1211, MAT 1228, and either PHY 1103 or PHY 1123. Studies, at the macroscopic level, equilibrium properties of matter, conservation laws, equations of state, and transformations of state for systems in which temperature is an appropriate variable. Considers engineering applications. Course Equivalents: CHM 3401 and EGR 3401. Attribute: Upper Division.

**PHY 3841 DYNAMICS (5)** Prerequisites: MAT 1228, 2401, and PHY 1101 or 1121. Study of vectorial treatment of Newton's laws for undamped and damped linear, rotational and vibrational motion in several coordinate systems. Includes solving problems for particles and rigid bodies using energy, momentum and angular momentum conservation laws. Course Equivalent: EGR 3841. Attribute: Upper Division.

**PHY 4242 ATMOSPHERIC SCIENCE (2-5)** Registration Approval: Instructor. Prerequisites: PHY 1103 or 1123, and MAT 1228. Studies structure and composition of the atmosphere, radiative and convective processes: dynamics and distribution of the atmosphere; cloud physics; introduction to climatology and the upper atmosphere. Offered on demand. May not be repeated. Attribute: Upper Division.

**PHY 4243 GEOPHYSICS (2-5)** Registration Approval: Instructor. Prerequisites: PHY 1103 or 1123, MAT 1228, 2228. Studies rotation and figure of the earth, gravity field, seismology, geomagnetism, heat flow, age and internal structure of the earth. Offered on demand. May not be repeated. Attribute: Upper Division.

**PHY 4310 ELECTROMAGNETICS (5)** Prerequisites: PHY 1103 or 1123, MAT 1228, 2228 and MAT 3724 is recommended. Study of transmission lines as lumped-circuits, electrostatics, magneto-statics, boundary conditions, electromagnetic waves and introduction to applications such as skin effect, reflections, wave-guides, antennas, and optics. Includes computer and laboratory experiments. Course Equivalent: EE 4310. Attribute: Upper Division.

**PHY 4311 OPTICS AND LASERS (5)** Prerequisite: PHY 1123. General theory of geometrical optics, physical optics, fiber optics, polarization and coherent states, optical devices. Lectures and one laboratory each week. Offered on demand. Course Equivalent: EE 4311. Attribute: Upper Division.

**PHY 4341 QUANTUM MECHANICS (5)** Prerequisites: PHY 2321, MAT 2228. Surveys basic wave mechanics, quantum mechanical operators, dynamics of the wave functions, traveling waves, bound states. Offered alternate years. Attribute: Upper Division.

**PHY 4342 ATOMIC PHYSICS (5)** Prerequisite: PHY 4341. Studies the hydrogen atom, perturbation theory, one-electron atoms, fine and hyperfine structure. Explores Zeeman and Stark effects. Introduction to multi-electron atoms. Offered alternate years. Attribute: Upper Division.

**PHY 4391 NUCLEAR AND PARTICLE PHYSICS (5)** Prerequisite: PHY 4342 or permission of instructor. Study of the fundamental interactions and elementary particles, resonance states and nuclei. Emphasis on invariance principles, conservation laws and simple applications of quantum theories and the theory of special relativity. Discussion of experimental methods including particle detectors and accelerators. Offered alternate years. Attribute: Upper Division.

**PHY 4441 STATISTICAL PHYSICS (3-5)** Prerequisites: PHY 3401. Studies classical and quantum statistical mechanics, Bose and Fermi statistics and applications to physical systems. Offered alternate years. Attribute: Upper Division.

**PHY 4491 SOLID STATE PHYSICS (2-5)** Prerequisite: PHY 2321; PHY 4441 recommended. Focuses on lattice statics and dynamics, electrons and Fermi surfaces, transport phenomena, semiconductors, and superconductivity. Offered alternate years. Course Equivalent: EE 4491. Attribute: Upper Division.

**PHY 4900 INDEPENDENT STUDY (1-5)** Registration Approval: Independent Study Agreement. Student works independently with a faculty member on a mutually agreed upon topic. May be repeated for credit up to 5 credits. Attribute: Upper Division.

**PHY 4905 INDEPENDENT STUDY IN PHYSICS (1-5)** Registration Approval: Independent Study Agreement. The area of study to be mutually agreed upon by the student and a physics faculty member. May be repeated for credit up to 5 credits. Attribute: Upper Division.

**PHY 4910 PHYSICS SEMINAR (1-5)** Registration Approval: Instructor. Prerequisite: Upper-division standing in physics major. Seminar with both student and faculty participation on current problems and research areas in physics. May be repeated for credit up to 5 credits. Attribute: Upper Division. Class open to physics majors. Class not open to freshmen and sophomores.

**PHY 4940 INTERNSHIP IN PHYSICS (1-5)** Registration Approval: Intern Learning Contract Required. Provides a significant learning experience to be obtained in a closely supervised work-study program. May be repeated for credit up to 5 credits. Attribute: Upper Division. Class not open to freshmen and sophomores.

**PHY 4970 SENIOR PROJECT LABORATORY (1-5)** Prerequisites: PHY 3313 and senior standing. Independent research directed toward satisfaction of requirement of senior project for graduation with major in physics. May be repeated for credit up to 5 credits. Attribute: Upper Division. Class not open to freshmen, sophomores and juniors.

### Faculty

**Robert C. Hughson**, *Professor of Electrical Engineering, Engineering Science and Physics*; B.S., Seattle Pacific College, 1959; M.S., University of Washington, 1961. At SPU part-time 1960-61; full-time since 1961.

**John M. Lindberg**, *Assistant Professor of Physics*; *Chair of Physics*; B.S., B.A., North Park College, 1983; M.S., University of Washington, 1986; Ph.D., Heriot Watt University, 1999. At SPU since 1999.

**Lane Seeley**, *Assistant Professor of Physics*; B.S. University of Puget Sound, 1994; M.S., Montana State University, 1996; Ph.D. University of Washington, 2001. At SPU since 2001.

## Political Science and Geography

Alexander Hall  
(206) 281-2158  
[www.spu.edu/depts/polisci](http://www.spu.edu/depts/polisci)

**John West**, *Chair*; **Kathleen Braden**, **Douglas Durasoff**, **Reed Davis**

Seattle Pacific's political science program seeks to graduate leaders who want to influence politics and public policy during the 21st century. Political science majors at SPU wrestle with some of the most fundamental questions underlying the political order: What is the relationship between Christian principles and public policy? How can

*"From Seattle to Washington, D.C., to the international arena, SPU political science majors are engaging the culture and changing the world. We equip you to stand for truth in an age of spin, and to be an agent of grace in a world broken by sin."*

John West  
Political Science



Christians model both the character and truth of Jesus Christ in the public square? How should we live as a local, national and global community?

To assist in the exploration of these questions, political science majors at SPU receive broad training in political philosophy, government, law, public policy, geopolitics, international relations and the political behavior of individuals and groups. In addition, majors are provided with peer support and co-curricular activities through the SPU Political Union, a nonpartisan student group.

Study of political science is especially useful for careers in law, public administration, government service, international affairs, journalism, teaching and several fields of business. Dual majors or complementary minors are encouraged. Minors offered by the department include political science, geopolitics and leadership studies. Special study programs in Washington, D.C., and France further enrich students' academic experience. For more information about these special study programs, send e-mail to Professor Reed Davis at rdavis@spu.edu.

### Faith and Politics Component

Political science majors at SPU are asked to integrate their understanding of the political world with the Christian faith. To facilitate this, the department offers three courses that focus on the intersection between faith and public life: POL 2641 Christianity and American Politics, which studies the history of Christian involvement in politics from America's founding to today; POL 3410 Moral Foundations of Democracy, which explores the moral and spiritual roots of representative democracy; and POL 4644 Political Science Capstone Seminar, which challenges students to reflect on the relationship between faith and politics in light of their entire collegiate experience. (POL 4644 is required of all political science majors.)

### Political Science Internships

Political science majors at SPU are strongly encouraged to gain real-world experience through internships, and faculty in the department work with students to arrange internships appropriate to their career interests. Internships are arranged with a wide variety of organizations, including public-policy groups, media organizations, and government offices at both the local and national level. Credit is offered through POL 4940 Political Internships.

### Admission to the Political Science Major

To qualify for admission to the major, a student must have a 2.5 minimum GPA in previous courses in the major. Students are encouraged to apply for the major by the end of their sophomore year.

### Requirements for the Political Science Major

(For all three tracks, 25 credits must be upper division.) (Refer to page 64 for a summary of degree requirements.) Political science majors at SPU choose to organize their studies according to one of three tracks: general, which provides the most flexibility; public policy and law, which is especially appropriate for those considering careers in

government or who plan to attend law school; and international affairs, which is designed for those interested in global politics and policy. In addition to the course requirements for these tracks, majors are encouraged to fulfill their Exploratory Curriculum mathematics requirement by taking a statistics course such as SOC 2360 Introduction to Statistics in Social and Behavioral Sciences, MAT 1360 Introduction to Statistics or BUS 2700 Statistics for Business and Economics. Whenever possible, majors are also strongly encouraged to take POL 4643 Methods of Political Analysis in their junior (rather than senior) year.

Any course substitutions must be approved by the department chairperson. No more than a total of 10 hours of internship or independent study can be applied in meeting the required hours in political science, but additional credits above the required hours may be added. For students who wish to enhance their degree with additional specialization, applied coursework beyond the required credits and in associated majors or minors can be arranged in consultation with the political science advisor.

### General Track

(51-55 credits)	
POL 1110 Introduction to Politics .....	5
Select one course from the following two:	
POL 1120 American Government (5)	
POL 2464 State and Local Politics (5) .....	5
POL 2320 Comparative Political Systems .....	5
Select one course from the following:	
POL 2641 Christianity and American Politics (5)	
POL 3410 Moral Foundations of Democracy (5)	
POL 3440 International Peace and World Order (5)	
POL 3125 Issue Seminar (3-5)	
POL 3550 Social Darwinism and Politics (3-5)	
POL 4911 Advanced Seminar (3-5) .....	3-5
Select one course from the following two:	
POL 4000 Public Policy and Administration (5)	
POL 4450 American Constitutional Law (5) .....	5
POL 4642 Theories of the Political System .....	5
POL 4643 Methods of Political Analysis .....	5
POL 4644 Political Science Capstone Seminar .....	3
POL Electives .....	15-17
<b>Total .....</b>	<b>51-55</b>

### Public Policy and Law Track

(54-58 credits)	
POL 1110 Introduction to Politics .....	5
POL 2464 State and Local Politics .....	5
POL 2320 Comparative Political Systems .....	5
POL 3780 Law and Society .....	5
Select at least three of the following:	
POL 3410 Moral Foundations of Democracy (5)	
POL 2641 Christianity and American Politics (5)	
POL 3320 Political and Economic Development of Nations (5)	
POL 3430 Presidency and Congress (5)	
POL 3450 Politics, Parties and Interest Groups (3)	
POL 3550 Social Darwinism and Politics (3-5)	

SOC 4250 Sociology, Policy and Law (5)	
POL 4450 American Constitutional Law (5) .....	11-15
POL 4000 Public Policy .....	5
POL 4642 Theories of the Political System .....	5
POL 4643 Methods of Political Analysis .....	5
POL 4644 Political Science Capstone Seminar .....	3
Electives (consult with advisor)* .....	5
<b>Total .....</b>	<b>54-58</b>

\*POL 4940 Internship strongly recommended.

### International Affairs Track

(56-58 credits)	
POL 1110 Introduction to Politics .....	5
GEO 1110 World Regional Geography .....	5
POL 2320 Comparative Political Systems .....	5
Select at least two of the following:	
HIS 2452 History of Modern Global Systems (5)	
or POL/HIS 3670 American Foreign Relations (5)	
POL 2330 International Relations (5)	
POL 3170 Geopolitics (5)	
POL 3440 International Peace and World Order (5) .....	10
Select at least two of the following:	
POL 3320 Political and Economic Development of Nations (5)	
POL 4310 International Political Economy (5)	
GEO 3500 Geography of Natural Resources (5)	
POL 4911 Advanced Seminar (3-5) .....	8-10
POL 4642 Theories of the Political System .....	5
POL 4643 Methods of Political Analysis .....	5
POL 4644 Political Science Capstone Seminar .....	3
Electives (consult with advisor) .....	10
<b>Total* .....</b>	<b>56-58</b>

\*In addition, at least one year of a foreign language or equivalent is required.

### Requirements for the Political Science Minor

(30 credits; 15 upper division)	
POL 1110 Introduction to Politics .....	5
Select one course from the following:	
POL 2320 Comparative Political Systems (5)	
POL 2330 International Relations (5)	
POL 3320 Political and Economic Development of Nations (5) .....	5
Select one course from the following:	
POL 1120 American Government and Politics (5)	
POL 2464 State and Local Politics (5) .....	5
Select one course from the following:	
POL 2641 Christianity and American Politics (5)	
POL 3410 Moral Foundations of Democracy (5)	
POL 4642 Theories of the Political System (5)	
POL 4643 Methods of Political Analysis (5) .....	5
Electives .....	10
<b>Total .....</b>	<b>30</b>

### The Geopolitics Minor

SPU offers no baccalaureate degree specifically in geography, but studies in geography may be combined with political science for a geopolitics minor. Geography, along with history, is a critical service component for students

majoring in other disciplines such as social-science education, and it provides an important dimension to a liberal arts education. For more information, send e-mail to Douglas Durasoff at dd@spu.edu.

### Requirements for the Geopolitics Minor

(30 credits; 15 upper division)	
GEO 1110 World Regional Geography .....	5
GEO/POL 3170 Geopolitics .....	5
POL 2330 International Relations .....	5
Select one course from the following:	
POL 2320 Comparative Political Systems (5)	
POL 3320 Political and Economic Development of Nations (5)	
GEO 3500 Geography of Natural Resources (5) .....	5
Select one course from the following:	
POL 4642 Theories of the Political System (5)	
POL 4643 Methods of Political Analysis (5) .....	5
Select one course from the following:	
GEO 4920 Directed Readings in Geography (5)	
GEO or POL 4940 Internship (5)	
Advisor-approved upper-division course in Political Science (5) .....	5
<b>Total .....</b>	<b>30</b>

### The Leadership Studies Minor

Designed for student leaders, this interdisciplinary program draws on courses from such disciplines as political science, sociology, business, psychology and philosophy. Admission to the leadership studies minor is selective and requires an application submitted to the Office of Student Life. E-mail Kathleen Braden at kbraden@spu.edu or Scott Strawn at sstrawn@spu.edu for application information.

### Requirements for the Leadership Studies Minor

(30 credits; 15 upper division)	
<b>Core Requirements</b>	
POL 2900 Foundations of Leadership (offered every other year) .....	5
POL 4930 Political Science Practicum .....	5-10

### Competency Areas

The three categories below are based on competencies for Student Leadership Programs developed by the Council for Advancement of Standards in Higher Education. All prerequisites must be satisfied and students are responsible for seeking a place in each class (many of these courses may require careful advance planning on enrollment because they are often full or designated first for majors). No more than 10 credits may double-count to fulfill both the student's major and the minor in leadership studies. If a course is listed in two categories, a student can count it only toward one.

**Understanding Organizations or Human Social Behavior**

(at least 5 credits)

BUS 3614 Organizational Behavior for Managers .....	5
BUS 3439 Motivation and Leadership .....	5
COM 4265 Organizational Communication .....	5
HIS 3670 History of Foreign Relations .....	5
POL 3430 The Presidency and Congress: Politics of National Leadership .....	5
POL 3780 Law and Society .....	5
POL 3450 Politics, Parties and Interest Groups .....	3
PSY 3439 Motivation and Leadership .....	5
PSY 3600 Small-Group Leadership .....	2
PSY 3438 (cross-listed as SOC 4440) Social Psychology .....	5
PSY 4410 Cross-Cultural Psychology .....	3
SOC 2440 Small-Group Dynamics .....	5
SOC 3215 Social Inequality .....	5
SOC 3862 Racial and Ethnic Minorities .....	5
WST 2350 Introduction to Women's Studies .....	5

**Foundations for Leadership: Moral, Ethical and Justice Dimensions**

(at least 5 credits)

BUS 3400 Business Ethics .....	5
COM 4177 Communication Ethics .....	5
HIS 3395 European Intellectual History .....	5
HIS 3405 Western Spirituality .....	5
HIS 3406 Christianity in America (cross-listed as THEO 3303) .....	5
POL 4642 Theories of the Political System (must be taken as well as POL 4643 to count toward minor) .....	5
POL 2641 Christianity and American Politics .....	5
GEO/POL 3170 Geopolitics .....	5
GEO 2207 Economic Geography .....	5
PHI 3601 Ancient Philosophy .....	5
PHI 3702 Social Ethics .....	3
POL 3410 Moral Foundations of Democracy .....	5
SOC 3215 Social Inequality .....	5
SOC 4260 Complex Organizations .....	5

**Personal Development and Skills**

(at least 5 credits)

BUS 3620 Management Information Systems .....	5
BUS 2600 Managerial Communication .....	2
BUS 3657 Human Resource Management .....	5
COM 2323 Argumentation: Art of Inference .....	5
COM 2227 Small Group Discussion .....	5
COM 3160 Conflict Management .....	3
COM 3322 Persuasion: Social Influence and Responsibility .....	5
POL 4000 Public Policy and Administration .....	5
POL 4643 Methods of Political Analysis (must be taken as well as POL 4642 to count toward minor) .....	5
PSY 3442 Psychology of Personality .....	5
PSY 2470 Life-Span Development .....	5
PSY 2422 Psychology of Personal Growth .....	3
SOC 4308 The Helping Relationship .....	5

Since some courses are not offered every year, students should check a current *Time Schedule* for course offerings.

**Geography Courses**

**GEO 1110 WORLD REGIONAL GEOGRAPHY (5)** Provides familiarity with character of major world regions. Emphasizes variations in levels of economic development and resource distribution among nations, and appreciation for diversity of world cultures. Attributes: Social Science Integration and Social Science B.

**GEO 3170 GEOPOLITICS (5)** Current world events are explored from a variety of social-science disciplines (political science, history, economics and political geography). Topics vary, but always include an examination of Christian views on geopolitical conflicts and the role of international law in solving disputes. Course Equivalent: POL 3170. Attributes: Contexts for Society: Hist./Geog., Social Science B and Upper Division. Class not open to freshmen.

**GEO 3500 GEOGRAPHY OF NATURAL RESOURCES (5)** Examines geographic distribution and economic valuation of the earth's resources both within American public policy choices and at the international level. Compares notions of wise use, consumption, sustainability and stewardship in relation to Christian tradition. Attributes: Contexts for Society: Hist./Geog., Social Science B and Upper Division. Class not open to freshmen.

**GEO 3677 THE NATURE OF CITIES (5)** Explores generally from multi-disciplinary perspectives the character and content of cities from their origin to present pattern. Special emphasis is placed on the city theme in Scripture. Topics include attitudes about cities over time, the spread of civilizations in history, the changing economic base of cities and selected contemporary land-use and urban-planning problems. Students who have taken SBS 1677 may not take this course. Attributes: Social Science B and Upper Division.

**GEO 4900 INDEPENDENT STUDY (1-5)** Registration Approval: Independent Study Agreement. Student works independently with a faculty member on a mutually agreed upon topic. May be repeated for credit up to 15 credits. Attribute: Upper Division.

**GEO 4911 ADVANCED SEMINAR (1-5)** Seminars studying theoretical or practical issues in geography and geopolitics. See current *Time Schedule* for topic. May be repeated for credit up to 15 credits. Course Equivalent: POL 4911. Attributes: Upper Division and Writing Course. Class not open to freshmen and sophomores.

**GEO 4920 DIRECTED READINGS (1-5)** Registration Approval: Independent Study Agreement. Attribute: Upper Division.

**GEO 4940 INTERNSHIP (1-5)** Registration Approval: Intern Learning Contract Req. Attribute: Upper Division.

**GEO 4970 RESEARCH IN GEOGRAPHY (1-5)** Registration Approval: Instructor. Prerequisite: 10 credit hours in geography. Attribute: Upper Division.

**Political Science Courses**

**POL 1110 INTRODUCTION TO POLITICS (5)** Analyzes the theory and practice of politics by discussing different approaches to the nature of political knowledge and the significance that this knowledge has for political leadership and citizenship. Although the focus is primarily on political behavior in the United States, opportunity will be taken to examine political practices within other countries (comparative politics) and among other countries (international relations). May be taken through distance learning. Attributes: Social Science Introductions and Social Science B.

**POL 1120 AMERICAN GOVERNMENT AND POLITICS (5)** Surveys the founding principles of the American political system and examines the development and operation of major national institutions such as Congress, the presidency, the bureaucracy, the Supreme Court, political parties and the media. Attribute: Social Science B.

**POL 2320 COMPARATIVE POLITICAL SYSTEMS (5)** Analyzes how nations are governed; democracies, authoritarian systems and developing countries are studied in light of political analysis and with attention to basic questions of human well-being.

**POL 2330 INTERNATIONAL RELATIONS (5)** Introduces the international political system, contrasting concepts of national interest to increasing global interdependence. Examines concepts of power, influence and ideology; discusses interactions among

ideals and realities in policy-making processes and their relationship to individual citizens. Attributes: Social Science Integration and Social Science B.

**POL 2464 STATE AND LOCAL POLITICS (5)** Analyzes contemporary state and local governmental institutions and how they operate within America's federal system. Special emphasis on public-policy issues such as health care, crime, education, welfare and land use. Offered alternate years.

**POL 2641 CHRISTIANITY AND AMERICAN POLITICS (5)** Explores the benefits and dangers of Christian involvement in American politics from the start of the nation to today. Topics addressed include the role of Christianity in America's founding, the reasons for religious liberty and practical guidelines for Christians seeking to influence public policy. Uses case studies of actual political controversies. Attributes: Social Science Integration and Social Science B.

**POL 2900 FOUNDATIONS FOR LEADERSHIP (5)** This course examines the implications of the Christian faith for leadership. Of particular focus are issues of personal motivation, character and spirituality as they relate to interpersonal relations and organizational leadership. Required for the minor in leadership studies. Offered alternate years.

**POL 3125 ISSUE SEMINAR (3-5)** Current and enduring national and world issues are analyzed in the context of political science methods, concepts and Christian ethical standards. Topic varies. (Example: "Morality and Politics.") Course may be taken again as long as the topic is different. May be repeated for credit four times. Attribute: Upper Division.

**POL 3170 GEOPOLITICS (5)** Current world events are explored, from a variety of social-science disciplines (political science, history, economics and political geography). Topics vary but always include an examination of Christian views on geopolitical conflicts and the role of international law in solving disputes. Course Equivalent: GEO 3170. Attributes: Social Science Integration, Social Science B and Upper Division. Class not open to freshmen.

**POL 3320 POLITICAL AND ECONOMIC DEVELOPMENT OF NATIONS (5)** Studies theories and experiences of "nation-building," both political and economic, primarily in lesser developed countries. Evaluates concepts of authority, economic growth and human well-being, and the policies used to achieve these in different cultures and systems. Offered alternate years. Attribute: Upper Division. Class not open to freshmen.

**POL 3345 MODERN RUSSIA (5)** Surveys Russian social, cultural and political history with primary attention to examining the tsarist, revolutionary and Soviet eras, for their enduring effects on current development and change in Russia today. Course Equivalent: HIS 3345. Attributes: Contexts for Society: Hist./Geog., Social Science B, Upper Division and Writing Course. Class not open to freshmen.

**POL 3350 MODERN FRENCH POLITICAL THOUGHT (5)** Registration Approval: Travel Studies Form. Reviews major themes of modern French liberalism from the French Revolution to the 20th century. Also introduces students to the major institutions of modern French politics. Special emphasis will be placed on the ideas and influence of Christian thinkers such as Pascal, Montesquieu, Tocqueville, Maritain and Weil. Taught Summer Session only in Europe. Attribute: Upper Division.

**POL 3410 MORAL FOUNDATIONS OF DEMOCRACY (5)** Reviews the classical, modern and Christian contributions to the development of Western democratic thought. Analyzes a wide range of critical political opinion and biblical literature in order to understand the moral foundations of Western democracy. Thinkers reviewed include Plato, Tocqueville, Augustine, Madison, Jefferson, Lincoln, Simons and Dahl. Offered alternate years. Attributes: Upper Division and Writing Course. Class not open to freshmen.

**POL 3430 THE PRESIDENCY AND CONGRESS: POLITICS OF NATIONAL LEADERSHIP (5)** Analyzes executive-legislative relations by reviewing Constitutional principles and the political culture of the Washington community, with emphasis on the presidency as an instrument of national leadership. Offered alternate years. Attribute: Upper Division. Class not open to freshmen.

**POL 3435 MARXISM: 20TH CENTURY THEORY AND PRACTICE (3)** Examines the development of varieties of Marxist theory and practice in the 20th century. Compares the Soviet, European, Chinese and Latin American experiences with Marxist thought and practice. Offered alternate years. Course Equivalents: ECN 3635 and HIS 3435. Attribute: Upper Division. Class not open to freshmen.

**POL 3440 INTERNATIONAL PEACE AND WORLD ORDER (5)** A study of conflict and conflict resolution in the international system, drawing upon resources from negotiation theory, peace studies, Biblical models, international law and international organization, with analysis of varying world-order models. Course Equivalent: HIS 3440. Attributes: Contexts for Society: Hist./Geog., Social Science B and Upper Division. Class not open to freshmen.

**POL 3450 POLITICS, PARTIES AND INTEREST GROUPS (3)** Examines the role of political parties in contemporary American government and the implications of weakened parties for governing. The place of interest groups and political action committees is also surveyed, with special attention to the roles PACS play in campaigns and elections. Offered alternate years. Attributes: Upper Division and Writing Course. Class not open to freshmen.

**POL 3550 SOCIAL DARWINISM AND POLITICS (3-5)** Explores the impact of Darwinism and scientific materialism on such fields as criminal justice, medicine, economics, welfare and education during the past century. Topics include eugenics, the Scopes trial, biological defenses in criminal law and evolutionary theories of morality. Attribute: Upper Division and Writing Course.

**POL 3670 HISTORY OF AMERICAN FOREIGN RELATIONS (5)** Studies the United States as a participant in the international system, from colonial dependency to superpower. Proposes a theoretical model for interpreting American foreign policy and applies this framework to historical events considered chronologically. Considers questions of morality in relation to foreign policy. Course Equivalent: HIS 3670. Attributes: Contexts for Society: Hist./Geog., Social Science B, Upper Division and Writing Course. Class not open to freshmen.

**POL 3780 LAW AND SOCIETY (5)** Studies the role of law in society and provides an introduction to the American legal system. Includes case studies of such issues as product liability, environmental law, civil disobedience and assisted suicide. Features guest speakers from the legal community. Especially recommended for students considering law school. Offered alternate years. Attribute: Upper Division. Class not open to freshmen.

**POL 4000 PUBLIC POLICY AND ADMINISTRATION (5)** A study of public-policy making, with special attention paid to the policy process in its implementation and evaluation stages. Using case studies, analyses of specific policies are undertaken in such areas as budgeting, education, civil rights, energy and social services. Offered alternate years. Attribute: Upper Division. Class not open to freshmen.

**POL 4310 INTERNATIONAL POLITICAL ECONOMY (5)** Examines the nature and dynamics of the global economy in relation to the economies and political systems of nations and to theories and models of national, regional and global economic growth. International trade, business and government policy are studied in this context. Offered alternate years. Course Equivalent: ECN 4310. Attribute: Upper Division. Class not open to freshmen.

**POL 4450 AMERICAN CONSTITUTIONAL LAW (5)** A study of the U.S. Constitution and the Supreme Court, and the special role of "constitutional" law in American government and society. Leading court opinions in areas such as separation of powers, federalism and civil liberties and civil rights are analyzed. Topic alternates between "Civil Liberties and Civil Rights" and "Federalism and Separation of Powers." Recommended for students interested in law school. May be repeated for credit one time. Attribute: Upper Division. Class not open to freshmen.

**POL 4642 THEORIES OF THE POLITICAL SYSTEM (5)** Explores major themes of normative political thought by reviewing the key works of Plato, Aristotle, Augustine, Aquinas, Machiavelli, Locke and Rousseau. Reviews the nature of justice and governance, of citizenship and obedience, and examines a variety of Christian perspectives on these issues. Topic alternates between "Ancient Political Thought" and "Modern Political Thought." May be repeated for credit one time. Attributes: Upper Division and Writing Course. Class not open to freshmen.

**POL 4643 METHODS OF POLITICAL ANALYSIS (5)** Explores approaches and methods by which political scientists work with empirical evidence to develop knowledge and theory about the nature of political behavior in society. Students are strongly encouraged to take this course during their junior year whenever possible. Attribute: Upper Division. Class not open to freshmen.

**POL 4644 POLITICAL SCIENCE CAPSTONE SEMINAR (3)**

Challenges students to reflect on the relationship between faith and politics in light of their entire collegiate experience. To be taken during a student's senior year. Required for all political science majors. Attribute: Upper Division. Class open to political science majors. Class not open to freshmen, sophomores and juniors.

**POL 4900 INDEPENDENT STUDY (1-5)** Registration Approval: Independent Study Agreement. Prerequisites: Junior standing; at least 15 credits in political science. Designed to develop intensive examination of selected areas of interest in political thought, institutions or behavior through a program of directed readings and/or research approved by a political science faculty member. (Maximum of 10 credits applicable to POL major.) May be repeated for credit up to 15 credits. Attribute: Upper Division. Class not open to freshmen and sophomores.

**POL 4911 ADVANCED SEMINAR (1-5)** Prerequisite: Upper-class standing. Seminars studying theoretical and/or practical issues in politics, government and political science. See current *Time Schedule* for topics. May be repeated for credit up to 25 credits. Course Equivalent: GEO 4911. Attributes: Upper Division and Writing Course. Class not open to freshmen.

**POL 4930 LEADERSHIP MINOR PRACTICUM (1-5)** Registration Approval: Instructor. Prerequisite: Admission to minor. Provides faculty/staff oversight of co-curricular experience in campus leadership positions (defined as those advised within Office of Student Life or Campus Ministries). Instruction via learning contract, readings, assignments and meetings with instructor. May be repeated for credit up to 10 credits. Class not open to freshmen.

**POL 4940 POLITICAL INTERNSHIPS (1-15)** Registration Approval: Intern Learning Contract Req. Prerequisites: Junior standing, at least 15 credits in political science. Provides opportunities for practical experience in national, state or local governmental bodies and agencies or political organizations. Available with a program designed in advance and approved by a political science faculty member. (Maximum of 10 credits applicable to POL major.) May be repeated for credit up to 30 credits. Attribute: Upper Division. Class not open to freshmen.

**Faculty**

**Douglas Durasoff**, *Professor of Political Science*; B.A., Michigan State University, 1966; M. Phil., Yale University, 1969; Ph.D., 1978. At SPU since 1986.

**Reed Davis**, *Associate Professor of Political Science*; B.A., M.A., University of Pennsylvania, 1978; Ph.D., University of Virginia, 1991. At SPU since 1989.

**Kathleen Braden**, *Professor of Geography; Associate Vice President for Academic Affairs and Dean of Students*; B.A., Boston University, 1972; M.A., University of Washington, 1974; Ph.D., 1981. Fulbright Scholar, USSR, Finland and Japan, 1977-78. At SPU since 1982.

**John G. West Jr.**, *Department Chair and Associate Professor of Political Science*; B.A., University of Washington, 1986; Ph.D., The Claremont Graduate School, 1992. At SPU since 1994.

**Pre-Law**

[www.spu.edu/depts/polisci/prelaw.htm](http://www.spu.edu/depts/polisci/prelaw.htm)

**John West and Reed Davis, Advisors**

Seattle Pacific University provides assistance to students considering law school through a pre-law advising program sponsored by the Department of Political Science and Geography. Pre-law is not a major and therefore has no required courses. However, all students considering law school are strongly encouraged to take the two-course sequence, POL 3780 Law and Society and POL 4450

American Constitutional Law (offered alternate years). In addition, students should request from the pre-law advisors a copy of the handout, *Pre-Law at SPU*, which lists all law-related courses offered by SPU, as well as important information about the law school admission test (LSAT), legal internships and student membership in the Christian Legal Society. Students interested in a legal career should contact the pre-law advisors in the Political Science Department as early as possible during their study at SPU. The pre-law advisors will assist pre-law students in choosing a major and a course of study appropriate to law school. They will also advise students about how to prepare for the LSAT. For more information, contact Professor John West at (206) 281-2162, or e-mail him at [jwest@spu.edu](mailto:jwest@spu.edu); or contact Professor Reed Davis at (206) 281-2395, or e-mail him at [rdavis@spu.edu](mailto:rdavis@spu.edu).

**Recommended Courses for Pre-Law Students**

All pre-law students are encouraged to take the following two-course sequence:

POL 3780 Law and Society ..... 5

POL 4450 American Constitutional Law ..... 5

*Note: Law and Society is offered on alternate years.*

Pre-law students are also encouraged to take other law-related courses at SPU as their schedule permits. These include:

BUS 2414 Legal Environment of Business ..... 5

BUS 3414 Business Law ..... 5

JRN 3301 Media Law ..... 5

SOC 3371 Crime and Delinquency ..... 5

SOC 4250 Sociology, Policy and Law ..... 5

In addition, pre-law students are encouraged to take courses that strengthen their skills of writing, speaking and analysis, which are crucial to success in law school and the legal profession. Some of these courses include:

COM 1321 Speaking Before Groups ..... 5

COM 2323 The Art of Inference ..... 5

COM 3321 Advanced Public Speaking ..... 5

COM 3628 Foundations of Western Rhetoric ..... 5

PHI 1001 The Power of Logic ..... 5

PHI 2001 Advanced Logic ..... 3

ENG 2101 Intermediate College Writing ..... 3

ENG 3301 Writing to Be Read ..... 3

JRN 2101 Introductory Newswriting ..... 4

JRN 3101 Advanced Newswriting ..... 4

**Pre-Professional  
Health Programs**

Miller Science Learning Center  
(206) 281-2140

[www.spu.edu/depts/biology/premed](http://www.spu.edu/depts/biology/premed)

Seattle Pacific University offers faculty advising for a number of pre-professional programs that prepare students

to transfer into professional programs at other institutions. Contact the individual program coordinator for detailed information.

**Pre-Medicine and Pre-Dentistry**

**A. Kenneth Moore**, *Coordinator*, Department of Biology  
It is important to stress that medicine and dentistry are recognized as areas in the healing arts. As such, they are best served by practitioners well grounded in the liberal arts, human sciences and the pure sciences.

Strong competition exists for admission to professional schools, especially in medicine, and it is important to obtain advising from the coordinator of pre-medicine and pre-dentistry to plan a strong program. To become a competitive candidate, a student must be well acquainted with the requirements and procedures as outlined below.

There are several factors considered by medical and dental selection committees. They include the following: the student's grades; the MCAT or DAT scores; a letter of evaluation from the pre-professional health science committee; other support letters; clinical and/or research experience; and an interview with the medical or dental school admissions committee.

**Medical School Admissions Checklist****First two college years**

1. Select a curriculum that will challenge your abilities and interest in the liberal arts and the basic sciences and fulfill more than minimum pre-medical requirements. Be sure that other courses taken are in areas of interest that will usually be reflected in a good performance and will enhance your liberal arts background. There is no required or recommended major. Select your major in the field that interests you the most.
2. Get to know your pre-medical advisor and advisory committee, and how they function. Speak with students who are seniors and learn of their experiences with both.
3. Involve yourself with extracurricular commitments that are of interest to you, reflect your interest in medicine and demonstrate service to the community.
4. Develop friendships with members of the faculty who share common interests with you. This will enable them to better function in a support capacity during your application process.
5. Learn as much as you can about medicine from physicians, medical students, local hospitals, etc.
6. Try to achieve an outstanding undergraduate record and grade-point average. Should you do poorly in an area, repeat the course or take a similar course to demonstrate your ability.
7. Arrange with the pre-medical advisor for your premedical field experience (NMS 3980) toward the end of your second year.

**Third year**

1. Continue to improve or maintain a high academic performance.
2. Obtain a copy of the Association of American Medical Colleges' Medical School Admission Requirements. Study its contents and make note of any changes or new schools of medicine that may have new entering classes.
3. Prepare for the MCAT (you may choose to enroll in special courses taught to improve test taking).
4. Discuss your relative chances of entrance to medical school with your pre-medical advisor and other members of the faculty who you hold in high regard. Be realistic! If your chances appear to be excellent, visit and talk to schools of your interest. Speak to their students to learn about the curriculum design and general attitudes.
5. Carefully assess your chances for entrance into medical school and apply to the schools that interest you most and where you think you might have a better chance of admission.
6. If you are prepared to take the MCAT, apply in early winter to take the test given in April.
7. At the end of your junior year, write to the medical schools of interest to you and ask for bulletins.
8. Use the early summer to complete all application forms (e.g., AMCAS and ACOMAS forms and mail them early). Adhering to deadlines is considered showing minimal interest.

**Fourth year**

1. Be sure that all necessary materials have been forwarded to AMCAS or the medical schools of your interest (i.e., transcripts, recommendations and MCAT scores).
2. Make arrangements with the coordinator to have an interview with your pre-medical advisory committee. Upon request, the committee will provide an appropriate letter of recommendation for you to the schools to which you apply.
3. If you haven't taken the MCAT, apply in early summer to take that test in August.
4. If your MCAT scores are poor or only average consider retaking the test.
5. Complete all scholarship and loan applications as soon as possible. To be eligible for financial aid, you must complete the FAFSA form. Consider other means of financing if necessary.
6. In early Autumn Quarter, continue to evaluate your admission potential. You may decide to apply to additional medical schools. If so, be aware of their application deadline dates so that your application is eligible for consideration.
7. If you are admitted to the school of your choice, notify all other schools in which you are no longer interested as a courtesy to them.
8. As the school year progresses, send any additional items (such as first quarter grades) to the schools considering your application.

- If you are placed on the waiting list, continue to add to your record all additional credits, honors, experiences, etc., to strengthen your application.
- If you are admitted to medical school, forward your deposit and begin planning for housing and loans, etc.
- If you are not admitted, consider and discuss alternatives with the coordinator.

### A summary of procedure

- Open a file with the coordinator of pre-medicine and pre-dentistry as soon as possible in your first year.
- Schedule Pre-Medical or Pre-Dental Field Experience (NMS 3980).
- Arrange for a pre-professional health science committee interview and committee evaluation letter.
- Take the MCAT in either April of your junior year or August of your senior year.
- Submit your application to medical school during the summer between your junior and senior years.

### General Coursework for Pre-Medical and Pre-Dental

Since specific requirements vary from school to school, students should become familiar with the specific requirements of the medical or dental schools to which they intend to apply. However, nearly all medical and dental schools have at least the following minimal expectations:

Chemistry (including one year general, one year organic) .....	30
Biology (one year general plus selected upper-division core courses) .....	20-25
Physics .....	15
English .....	10
Math (one year college level mathematics) .....	15
<b>Total</b> .....	<b>90-95</b>

Additional science courses are strongly recommended in anatomy, biochemistry, cell biology, developmental biology, genetics, histology, physical chemistry and physiology. Some medical schools also suggest a knowledge of calculus. All applicants must complete a minimum of 135 quarter credit hours (three years) of academic work. However, with the increasing competition to enter medical and dental schools, it is rare for applicants to be admitted with less than four years of undergraduate work and a bachelor's degree.

### Physical Therapy

**A. Kenneth Moore**, *Coordinator*, Department of Biology  
In order to meet American Physical Therapy Association accreditation standards, all physical therapy educational programs are required to lead to a graduate (master's) degree. Therefore, students seeking admission to a physical therapy educational program need to complete a bachelor's degree in any field, plus include the following prerequisite coursework:  
ENG 1105 Writing in College  
or ENG 2205 Writing to Be Read..... 3

BIO 2101, 2102, 2103 General Biology .....	15
BIO 2129, 2130 Human Anatomy and Physiology .....	10
BIO 3351 General Microbiology .....	5
CHM 1211 General Chemistry .....	5
CHM 2371, 2372, 2373 Organic Chemistry .....	15
PHY 1101, 1102, 1103 General Physics .....	15
Computing and Applications (e.g., CSC 1120, 1121, 1122, 1123, 1124, 1126) .....	3
Statistics (e.g., MAT 1360, HSC 4044) .....	5
PSY 1180 General Psychology .....	5
PSY 4460 Abnormal Behavior .....	5

### Pre-Optometry

**A. Kenneth Moore**, *Coordinator*, Department of Biology  
The need for a well trained doctor of optometry is increasing. Admission committees for four-year programs leading to the doctor of optometry consider the following factors: strength and breadth of academic record, OAT scores, evidence of work (paid or volunteer) under the supervision of a professional in optometry, extra curricular activities and community service, and strength of recommendations and on-campus interviews.

Enrollments are limited and admission is selective. All pre-optometry courses must be completed before entering a college of optometry. The following represents a minimum pre-optometry program:

BIO 2101, 2102, 2103 General Biology (some schools prefer BIO 2129 and 2130 and BIO 3351) .....	15
CHM 1211 General Chemistry .....	5
CHM 2371, 2372, 2373 Organic Chemistry .....	15
Mathematics (including a course in Calculus) .....	15
MAT 1360 or HSC 4044 Statistics .....	5
PHY 1101, 1102, 1103 or 1121, 1122, 1123 Physics .....	5
Psychology .....	5
English (Must include a course in expository writing) .....	9
<b>Total</b> .....	<b>89</b>

## Professional Studies

**Joyce Quiring Erickson**, *Dean*, College of Arts and Sciences  
The Professional Studies Program is for students transferring to Seattle Pacific University with an approved technical or professional degree from the community college system. This program allows students to receive a bachelor's degree by completing liberal arts requirements and a minor. Currently the minors offered in the program include computer science, engineering and organizational behavior. Students must meet all prerequisites for the minor as well as a minimum of 30 credits. Minor requirements are listed within the discipline. A maximum of 90 community college credits are transferred into this program. Students must complete the following:

- 10 credits in Foundations.
- The foreign language requirement as outlined in the B.A. Requirements section of the *Catalog*.
- 5 credits in a class designated as "W"

- Fulfill each category listed below.
- 30 credits in a minor.
- Minimum of 180 college-level credits.
- Minimum of 60 upper-division credits (3000-4999).

### Requirements for the Professional Studies Major

(65-80 credits, plus 30 credits in a minor)	
Foreign Language Requirement (0-15 credits) or Language and Culture class (5) .....	0-15
<b>Foundations</b> (10 credits)	
UFDN 3001 .....	5
UFDN 3000 .....	5
<b>Communication</b> (5 credits)	
USEM 3000 (W) .....	5
<b>Social Sciences</b> (15 credits)	
Select one course from the following:	
ECN 2101 Microeconomics (5)	
PSY 1180 General Psychology (5) .....	5
Select two courses from the following:	
GEO/POL 3170 Geopolitics (5)	
HIS 3440 International Peace and World Order (5)	
POL 3670 (W) History of American Foreign Relations (5) .....	10
<b>Biological Sciences</b> (5 credits)	
BIO 1100 Biological Science .....	5
<b>Physical Science</b> (5 credits)	
CHM 1110 Introduction to the Nature of Science .....	5
<b>Mathematics</b> (5 credits)	
Select one course from the following:	
BUS 2700 Statistics for Business and Economics (5)	
MAT 1360 Introduction to Statistics (5)	
PSY/SOC 2360 Intro to Stats for Soc and Behavioral Science (5) .....	5
<b>Humanities</b> (5 credits)	
Select one course from the following:	
ENG 2248 New International Fiction (5)	
ENG 1110 Literature and Faith (5) .....	5
Select one course from the following:	
EUR 3287 Mythology in Literature (5)	
UCOR 3000 University Core (5) .....	5
<b>Fine Arts</b> (10 credits)	
Select one course from the following:	
TRE 1110 Theatre Experience (5)	
MUS 2605 Survey of Popular Music (5) .....	5
Select one course from the following:	
FPA 3101/3111 Arts and American Culture (5)	
COM/TRE 3780 Introduction to Film (5) .....	5
<b>Total</b> .....	<b>65</b>

## Psychology, Family and Community, School of

Marston Hall  
(206) 281-2987  
www.spu.edu/depts/pfc/psych/

**Mícheál D. Roe**, *Chair*; **M. Kathleen Lustyk**, **Delbert McHenry**, **Robert McKenna**, **Les Parrott III**, **Marcia Webb**

The science of psychology explores the nature and causes of behavior, feelings and thoughts, as well as effective ways to maintain psychological and social health. Modern psychology constantly changes as discoveries reveal new understandings, new research possibilities and new applications to the human condition.

Psychology provides an excellent background for careers in counseling, teaching, social service, medicine, nursing, law, business, pastoral ministry and many other areas of work where interpersonal understanding and skills are needed. In fact, our B.A. program allows students to obtain a double major, thereby broadening career opportunities. Our more comprehensive B.S. program combines behavioral and natural sciences and is particularly relevant for students with interests in the more experimental and laboratory side of psychology. The B.S. program also prepares students for further study and careers in fields such as physiological psychology, health psychology and behavioral medicine, and it is an effective major for pre-medicine students.

Seattle Pacific University's location in an urban area provides students with opportunities to gain field experiences in mental health clinics, social service agencies, educational institutions, hospitals and in the business world. An internship coordinator is available to ensure a match between preparation, abilities and interests of the student and the demands of the field experience. Teaching assistantships, research assistantships and less formal opportunities to work with psychology faculty on research projects are available to interested and qualified students. Leadership skills can be enhanced by training and practicum as small-group discussion leaders.

The psychology program at SPU endeavors to accomplish four goals: (1) To provide students with solid academic and experiential grounding in the theory, research and practice of the field of psychology; (2) to prepare and inspire able and motivated students to enter and contribute to the field of psychology; (3) to nurture students toward valuing themselves and others as persons of worth, created in God's image; and (4) to empower students to act in this world. That is, actively celebrating God's human and non-human creation, actively showing mercy and compassion to the vulnerable, and actively challenging and changing aspects of society that deny or denigrate persons.

To qualify for admission to the major, a student must have a 2.0 minimum GPA.

**Requirements for the B. A. in Psychology**

(61 credits; 36 upper division)

Prerequisite to declaring major: Successful completion of PSY 1180 General Psychology.

(Refer to page 64 for a summary of degree requirements.)

**Core Courses**

PSY 1180 General Psychology ..... 5

PSY 4688 History and Systems in Psychology ..... 5

PSY 4915 Senior Seminar ..... 3

Select one from the following experiential courses:

PSY 4940 Internship

PSY 4970 Independent Research ..... Minimum of 3

Psychology Exit Examination ..... 0

**Methods in Psychological Research**

PSY 2360 Introduction to Statistics in Social and

Behavioral Science, *or* equivalent ..... 5

PSY 3448 Tests and Measurements in Psychology ..... 5

PSY 3588 Psychological Research Methods ..... 5

**Social Psychology**

PSY 3438 Social Psychology ..... 5

**Cognitive Psychology**

PSY 3885 Learning and Cognition ..... 5

**Physiological Basis of Behavior**

PSY 4488 Physiological Psychology ..... 5

**Distribution**

Select 5 credits from each of the following two areas:

**Developmental Psychology**

PSY 2470 Life-Span Developmental Psychology (5)

PSY 3460 Child Developmental Psychology (5)

PSY 4420 Adolescent Developmental Psychology (5) ..... 5

**Clinical/Counseling-Related Areas of Psychology**

PSY 3442 Psychology of Personality (5)

PSY 4460 Abnormal Psychology (5)

PSY 4470 Counseling Theory and Practice (5) ..... 5

**Electives**

Minimum of 5 additional credits in

PSY as open electives\* ..... 5

**Total** ..... 61**Requirements for the B.S. in Psychology**

(87 credits; 50 upper division)

Prerequisite to declaring major: Successful completion of PSY 1180 General Psychology.

(Refer to page 64 for a summary of degree requirements.)

**Core Courses**

PSY 1180 General Psychology ..... 5

PSY 4688 History and Systems in Psychology ..... 5

PSY 4915 Senior Seminar ..... 3

Select one from the following experiential courses:

PSY 4940 Internship

PSY 4970 Independent Research ..... Minimum of 3

Psychology Exit Examination ..... 0

**Methods in Psychological Research**

PSY 2360 Introduction to Statistics in Social and

Behavioral Science *or* equivalent ..... 5

PSY 3448 Tests and Measurements in Psychology ..... 5

PSY 3588 Psychological Research Methods ..... 5

PSY 4428 Advanced Statistical Analysis ..... 5

**Social Psychology**

PSY 3438 Social Psychology ..... 5

**Cognitive Psychology**

PSY 3885 Learning and Cognition ..... 5

**Distribution**

Select 5 credits from each of the following two areas:

**Developmental Psychology**

PSY 2470 Life-Span Developmental Psychology (5)

PSY 3460 Child Developmental Psychology (5)

PSY 4420 Adolescent Developmental Psychology (5) ..... 5

**Clinical/Counseling Related Areas of Psychology**

PSY 3442 Psychology of Personality (5)

PSY 4460 Abnormal Psychology (5)

PSY 4470 Counseling Theory and Practice (5) ..... 5

**Natural Science and Human Behavior**

PSY 4488 Physiological Psychology ..... 5

At least 6 credits from the following courses:

BIO 4418 Neurobiology (5)

FCS 3320 Maternal and Child Nutrition (3)

FCS 3340 Human Nutrition (3)

HSC 3035 Human Sexuality (3)

PSY 4485 Psychobiology of Women (5) ..... 6

**Natural Science**

BIO 2129 Human Anatomy and Physiology ..... 5

BIO 2130 Human Anatomy and Physiology ..... 5

CHM 1211 General Chemistry ..... 5

CHM 1330 Organic and Biological Chemistry ..... 5

**Total** ..... 87**Requirements for the Psychology Minor**

(30 credits; 15 upper division)

PSY 1180 General Psychology ..... 5

Open electives in PSY\* ..... 25

**Total** ..... 30\*Both PSY 1250 and PSY 2250 (*Relationship Development I**and II*) must be successfully completed if the student desires

to apply these courses toward a psychology major or minor.

†Offered alternate years.

**Psychology Courses****PSY 1180 GENERAL PSYCHOLOGY: INDIVIDUAL IN****GROWTH (5)** Introduces psychological principles of intrapersonal

dynamics, interpersonal relationships, human development, ab-

normal behavior and the psychological processes of learning,

perception, motivation and cognition. Attributes: Social Science

Introductions and Social Science A.

**PSY 1250 RELATIONSHIP DEVELOPMENT I (2)** A foundation

course introducing healthy relational principles through self-

exploration of interpersonal needs and dynamics. Includes the

application of psychological research to gender differences, fam-

ily of origin issues, relational needs and the dating process.

**PSY 2250 RELATIONSHIP DEVELOPMENT II (2)** Prerequisite:

PSY 1250. Presents the conceptual and practical basis for making

healthy relational commitments. Includes the application of psy-

chological research to friendship, love, intimacy, marital myths

and mate selection. Class not open to freshmen and sophomores.

**PSY 2360 INTRODUCTION TO STATISTICS IN SOCIAL AND****BEHAVIORAL SCIENCES (5)** Prerequisites: High school algebra or

equivalent, satisfactory completion of math proficiency requirement

and PSY 1180. Presents the conceptual basis and application of

statistical analysis in social and behavioral research. Includes de-

scriptive statistics, correlation and regression, hypothesis testing and

inferential statistics. An introduction to analysis of variance and non-

parametric statistics will also be provided. Course Equivalent: SOC

2360. Attributes: Quantitative Reasoning and Mathematics. Class

open to psychology and sociology majors.

**PSY 2361 RESEARCH EXPERIENCE IN PSYCHOLOGY (1)**

Registration Approval: Instructor. Prerequisite: PSY 1180. Pro-

vides introductory experiences in the conduct of actual empirical

research in social and behavioral science. May be repeated for

credit up to 3 credits.

**PSY 2422 PSYCHOLOGY OF PERSONAL GROWTH (3)** Prerequi-

site: PSY 1180. Views adjustive processes in terms of coping

with struggles in life. Building on an understanding of adjust-

ment, growth and self, the course explores coping strategies

dealing with physical, cognitive, emotional and social influences.

Attribute: Wellness.

**PSY 2470 LIFE-SPAN DEVELOPMENTAL PSYCHOLOGY (5)**

Prerequisite: PSY 1180. Surveys human development from con-

ception to death, focusing on the interacting processes of phys- ical,

cognitive, social, emotional and moral development within

socio-cultural contexts, including developmental tasks and transi-

tions associated with developmental stages.

**PSY 3438 SOCIAL PSYCHOLOGY (5)** Prerequisite: PSY 1180.

Studies human social behavior and social influence processes. Major

topics include affiliation, aggression, altruism, attraction, attitude

formation and change, competition, compliance, conformity, coopera-

tion and persuasion. SOC 4440 may be substituted for PSY 3438 in

the psychology major, although PSY 3438 is the recommended

course. Students may not receive credit for both PSY 3438 and SOC

4440. Course Equivalent: SOC 4440. Attribute: Upper Division.

**PSY 3439 MOTIVATION AND LEADERSHIP (5)** Prerequisite:

PSY 1180. Presents the theories and principles of motivation and

leadership with practical applications in business, church, com-

munity and educational settings. Course Equivalent: BUS 3439.

Attribute: Upper Division.

**PSY 3442 PSYCHOLOGY OF PERSONALITY (5)** Prerequisite:

PSY 1180. Surveys the major theoretical views of personality

with emphasis on comparison, contrast and practical implications

for improving the understanding of self and others. Attribute:

Upper Division.

**PSY 3448 TESTS AND MEASUREMENTS IN PSYCHOLOGY****(5)** Prerequisites: PSY 1180 and PSY 2360 or equivalent. Explores

the nature and use of measurement and evaluation, psychometric

theory and standardized testing. Develops concepts and skills in

the development, selection, administration and interpretation of

psychological and educational tests and non-testing means of

evaluation. Attribute: Upper Division. Class not open to freshmen

and sophomores.

**PSY 3460 CHILD DEVELOPMENTAL PSYCHOLOGY (5)** Prerequi-

site: PSY 1180. Surveys child development from conception

through late childhood, focusing on the interacting processes of

physical, cognitive, social, emotional and moral development

within socio-cultural contexts, including parent-child relation-

ships. Includes an introduction to the observation, measurement

and evaluation of children. Attribute: Upper Division.

**PSY 3588 PSYCHOLOGICAL RESEARCH METHODS (5)** Pre-

requisites: PSY 1180 and PSY 2360 or equivalent. Explores the

nature of scientific inquiry, the variety of psychological research

methods, the design of internally and externally valid studies and

the application to designs of statistical techniques. Develops

skills in locating, interpreting and evaluating published research.

**PSY 4402 PSYCHOLOGY OF RELIGION (3)** Prerequisite:

PSY 1180. Focuses on psychological processes of religious moti-

vation, rituals, recruitment, conversion, and the development and

maintenance of religious beliefs. Stages of faith development

and the effects of religion on psychological functioning will be

explored. Attribute: Upper Division. Class not open to freshmen

and sophomores.

**PSY 4410 CROSS-CULTURAL PSYCHOLOGY (3)** Prerequisite:

At least one introductory course in the social and behavioral

sciences. A comparative study of perception, cognition and life-

span development in non-Western cultures. Special focus is

placed on understanding Western and non-Western worldviews

and their relationship to such topics as child-rearing practices,

psychosocial adjustment and spiritual expression. Attribute: Up-

per Division. Class not open to freshmen and sophomores.

**PSY 4420 ADOLESCENT DEVELOPMENTAL PSYCHOLOGY****(5)** Prerequisite: PSY 1180. Provides an overview of adolescent

development focusing on the interaction of the physical, cogni-

tive, emotional, moral, social, familial, educational and voca-

tional dimensions within socio-cultural contexts. Includes an

introduction to the observation, measurement and evaluation of

adolescents. Attribute: Upper Division.

**PSY 4428 ADVANCED STATISTICAL ANALYSIS (5)** Prerequi-

sites: PSY 2360. An advanced course in statistical analyses, par-

ticularly relevant for students with interests in conducting social

and behavioral research. Topics include multiple regression, fac-

tor analysis and advanced applications of Analysis of Variance.

Offered alternate years. Attribute: Upper Division.

**PSY 4460 ABNORMAL PSYCHOLOGY (5)** Prerequisites: PSY

1180. Provides critical analysis of the history, etiology and symp-

tomatology of abnormal behavior with reference to modern meth-

ods of assessment and treatment. Emphasizes an

interdisciplinary approach to understanding maladaptive behav-

ior. Attribute: Upper Division.

**PSY 4470 COUNSELING THEORY AND PRACTICE (5)** Prerequi-

sites: PSY 1180 and PSY 3442. Provides an overview of the

current approaches and techniques of psychological counseling.

Examines the critical issues of counseling with an emphasis on

personal skill development. Provides application through use of

role play, supervised experiences and video tape recording. At-

tribute: Upper Division.

**PSY 4485 PSYCHOBIOLOGY OF WOMEN (5)** Prerequisite: PSY

1180. Addresses how endocrinology, anatomy and physiology

influence female behavior, affect and quality of life during sev-

eral time segments across the life span. Issues such as the phys-

ical and psychological development of the female, the

bi-directional relationship between hormones and behavior, preg-

nancy, childbirth and lactation, and menopause will be addressed

in both a physical and social context. Attribute: Upper Division.

Class not open to freshmen and sophomores.

**PSY 4488 PHYSIOLOGICAL PSYCHOLOGY (5)** Prerequisite:

PSY 1180. The biological bases of behavior are explored through

essential concepts in anatomy, physiology, biochemistry and

pharmacology within the context of behavioral processes. Intro-

duction to sensation and perception provided. The nervous and

endocrine systems are presented as a foundation for behavior.

Attribute: Upper Division.

**PSY 4688 HISTORY AND SYSTEMS OF PSYCHOLOGY (5)**

Prerequisite: PSY 1180 and a minimum of 25 hours of psychology.

Gives an historical review and philosophical analysis of the de-

velopment of psychology as a discipline. Emphasis is given to the

relationship between specific historical antecedents and contem-

porary trends in psychology. Attributes: Upper Division and Writ-

ing Course. Class not open to freshmen and sophomores.

**PSY 4900 INDEPENDENT STUDY (1-5)** Registration Approval:

Independent Study Agreement. Prerequisite: PSY 1180. Students will

carry out an extensive exploration of a topic in psychology. Study is

under supervision of a psychology faculty member and builds on

previous course preparation in psychology. Objective is to provide

greater depth in analysis, synthesis and evaluation of the topic of

interest. Substantial reading and writing expected. Credits may

not be applied toward the minimum 30 needed to complete the

minor. May be repeated for credit up to 15 credits. Attribute: Upper

Division. Class not open to freshmen and sophomores.

**PSY 4910 TOPICAL SEMINAR IN PSYCHOLOGY (1-5)** Registration Approval: Instructor. Seminar-style course designed to consider contemporary and controversial issues in psychology. Not offered every year. Attribute: Upper Division. Class not open to freshmen and sophomores.

**PSY 4915 SENIOR SEMINAR IN PSYCHOLOGY (1-5)** Prerequisites: PSY 1180, PSY 2360 or equivalent, PSY 3588 and at least 35 credits completed in psychology. A capstone experience in psychology integrating psychological theories and research in the context of the liberal arts and the Christian faith. Attribute: Upper Division. Class open to psychology majors. Class open to seniors.

**PSY 4940 INTERNSHIP IN PSYCHOLOGY (1-5)** Registration Approval: Intern Learning Contract Req. Prerequisite: PSY 1180. Provides field experience in some phase of psychological work in the community. Builds on previous course preparation in psychology. 25 hours of field work will be completed for each credit. A minimum of five hours per week on-site required. Participation in a biweekly seminar is also required. Credits may not be applied toward the minimum 30 needed to complete the minor. For students desiring placements in social-service agencies, SOC 4310 and SOC 4380 are recommended. May be repeated for credit up to 15 credits. Attribute: Upper Division. Class not open to freshmen and sophomores.

**PSY 4970 INDEPENDENT RESEARCH (1-5)** Registration Approval: Instructor. Prerequisites: PSY 1180, PSY 2360 or equivalent, PSY 3588. Student will carry out empirical research under the supervision of a psychology faculty member and synthesize the findings in a written research report. Objective is to apply skills in research methods and data analysis. Credits may not be applied toward the minimum 30 needed to complete the minor. Credits variable up to a maximum of 3 per term. May be repeated for credit up to 9 credits. Attribute: Upper Division. Class not open to freshmen and sophomores.

### Faculty

**M. Kathleen B. Lustyk**, Associate Professor of Psychology; B.S., University of Washington, 1988; Ph.D. University of Washington, 1992. At SPU since 1996.

**Delbert S. McHenry Jr.**, Associate Professor of Psychology; B.A., Central Washington State College, 1967; M.S., Central Washington University, 1968; Ph.D., Michigan State University, 1973. At SPU since 1973.

**Robert B. McKenna**, Associate Professor of Psychology; Director, Degree Completion Program; B.A., Seattle Pacific University, 1990; M.B.A., Seattle Pacific University, 1992; Ph.D., Claremont Graduate University, 1998. At SPU since 1999.

**Les Parrott III**, Professor of Psychology; Director, Center for Relationship Development; B.A., Olivet Nazarene University, 1984; M.A., Fuller Theological Seminary, 1988; Ph.D., Fuller Graduate School of Psychology, 1990. At SPU since 1989.

**Mícheál D. Roe**, Professor of Psychology; Chair, Department of Psychology; B.A., Revella College, University of California, 1973; M.Ed., University of Washington, 1975; Ph.D., University of Washington, 1981. At SPU since 1988.

**Marcia Webb**, Assistant Professor of Graduate Psychology; Supervisor, Internship Program; B.A., Wheaton College, 1985; M.A., Wheaton Graduate School, 1986; M.Div., Fuller Theological Seminary, 1995; Ph.D., Fuller Graduate School of Psychology, 1995. At SPU since 1996.

## Russian

See Languages and Special Programs

## Science Education

See Education

## Social Service

See Sociology

## Sociology

Alexander Hall  
(206) 281-2158

**David Diekema**, Chair; **Martin Abbott**, **David Caddell**, **Jennifer McKinney**, **Kevin Neuhouser**, **Cynthia Price**

The Department of Sociology offers a major and a minor in sociology. Within the major, students may choose a social service emphasis. To qualify for admission to the major, a student must have a 2.5 minimum GPA and 15 credits of completed work in the discipline. Sociology is the systematic study of groups, how they influence individuals and the effects of their collective interaction. Sociology courses focus on characteristics of these groups and examine the society that they form. The central premise of sociology is that the individual cannot be understood apart from societal and interpersonal contexts. Therefore, coursework is designed to help students gain perspective on themselves and the world around them through an analysis of social structure and culture.

Students majoring in sociology have secured positions in government, business, industry and private research agencies. Others hold jobs in planning agencies and research departments of city, county, state and federal government and religious organizations, law enforcement agencies and many other settings. The sociological perspective has also proven invaluable for students entering any of the helping professions. Advanced positions in these areas often require graduate training. Students desiring to focus on social service are offered courses that provide an overview of theory and skills necessary to enter helping professions that provide direct services to people in need. Many graduates take entry-level positions in the areas of child welfare, mental health, gerontology, delinquency and in programs that alleviate poverty. A social service background assists and encourages students to prepare for graduate work, especially in the areas of social work, counseling, teaching or health care professions.

### Requirements for the Sociology Major

(53 credits; 25 upper division)

(Refer to page 64 for a summary of degree requirements.)

#### Required core courses

SOC 1110 Introduction to Sociology ..... 5

SOC 2310/4310 Foundations of Social Service\* ..... 5  
 SOC 2360 Introduction to Statistics in SBS (5)  
   or MAT 1360 Introduction to Statistics (5) ..... 5  
 SOC 3751 Introduction to Research Methods (5) ..... 5  
 SOC 4702 Classical Sociological Theory ..... 5  
 Select 5 credits from each of the following four areas:

#### Social Institutions

SOC 2252 Marriage and the Family (5)  
 SOC 3410 Medical Sociology (5)  
 SOC 3420 Political Sociology (5)  
 SOC 4252 Sociology of Family (5)  
 SOC 4380 Social Service Organizations (5)  
 SOC 4820 Sociology of Religion (5) ..... 5

#### Social Problems

SOC 3370 Sociology of Deviance (5)  
 SOC 3371 Crime and Delinquency (5)  
 SOC 4210 Women in the Third World (5)  
 SOC 4250 Sociology, Policy and Law (5) ..... 5

#### Individual in Society

SOC 2440 Small-Group Dynamics (5)  
 SOC 3270 Socialization (5)  
 SOC 4308 The Helping Process (5)  
 SOC 4440 Social Psychology (5) ..... 5

#### Social Stratification

ANT 2250 Cultural Anthropology (5)  
 SOC 3215 Social Inequality: Power and Privilege (5)  
 SOC 3862 Race and Ethnic Minorities (5) ..... 5  
 A choice of one of the following:

SOC 4910 Seminar †(3)  
   or SOC 4930 (3-15)  
   or SOC 4940 (2-15)  
   and SOC 4941 Internship Seminar (1) ..... 3-18  
 Electives ..... 5  
**Total ..... 53-68**

\* Students who elect the seminar option (SOC 4910) will not be required to take SOC 2310/4310. Instead, they will take an additional 5 credits of elective. Though not required to take SOC 2310/4310, taking this course will count toward your degree requirement. Students who elect to take the social service emphasis must, in addition to SOC 2310/4310, take SOC 4308 and SOC 4380.

† Students will select a seminar of their choice, preferably during their senior year, from one of the rotating seminars offered that academic year.

### Requirements for the Sociology Minor

(30 credits)

SOC 1110 Introduction to Sociology ..... 5  
 SOC 3751 Introduction to Research Methods ..... 5  
 Select one course from each of the following three areas:

#### Social Institutions

SOC 2252 Marriage and the Family (5)  
 SOC 3410 Medical Sociology (5)  
 SOC 3420 Political Sociology (5)  
 SOC 4252 Sociology of Family (5)  
 SOC 4380 Social Service Systems (5)  
 SOC 4820 Sociology of Religion (5) ..... 5

#### Social Problems

SOC 2310/4310 Foundations of Social Service (5)  
 SOC 3370 Sociology of Deviance (5)

SOC 3371 Crime and Delinquency (5)  
 SOC 4210 Women in the Third World (5)  
 SOC 4250 Sociology, Policy and Law (5) ..... 5  
**Individual in Society**  
 SOC 2440 Small-Group Dynamics (5)  
 SOC 3270 Socialization (5)  
 SOC 4308 The Helping Process (5)  
 SOC 4440 Social Psychology (5) ..... 5  
 Elective ..... 5  
**Total ..... 30**

Students should consult a sociology advisor to create a course of study that best accommodates their educational program.

### Anthropology Courses

**ANT 1110 GENERAL ANTHROPOLOGY (5)** Provides a survey of the sub-disciplines that make up anthropology: physical anthropology, archeology and cultural anthropology. A cross-cultural study of the physical and cultural changes experienced by humankind in response to a continuous process of adaptation, change and development. Attribute: Social Science A.

**ANT 2250 CULTURAL ANTHROPOLOGY (5)** Focuses upon the comparative study of human cultures: technological, economical, social, political and religious systems with examples drawn from selected cultures of the world. Attributes: Social Science Integration and Social Science A.

**ANT 4900 INDEPENDENT STUDY (1-5)** Registration Approval: Independent Study Agreement. Student works independently with a faculty member on a mutually agreed upon topic. May be repeated for credit up to 15 credits. Attribute: Upper Division.

**ANT 4920 READINGS IN SELECTED FIELDS (1-5)** Registration Approval: Independent Study Agreement. Prerequisites: 15 upper-division credits of "B" grade work in the discipline. May be repeated for credit up to 14 credits. Attribute: Upper Division.

**ANT 4970 INDEPENDENT RESEARCH (1-5)** Registration Approval: Instructor. Prerequisite: "B" grade work in the discipline. May be repeated for credit up to 30 credits. Attribute: Upper Division.

### Sociology Courses

**SOC 1110 INTRODUCTION TO SOCIOLOGY (5)** Basic principles for understanding social relationships. This course is a comprehensive introduction to the field of sociology, including analyses of the mutual interaction of society and the individual; major theoretical perspectives; methods for obtaining sociological knowledge; and major problems and issues that confront societies. Note: Emphasis from a United States, Third World or social problems perspective will be offered in different sections. The Sociology Department will be able to identify which course has which emphasis. Attributes: Social Science Introductions and Social Science A.

**SOC 2252 MARRIAGE AND THE FAMILY (5)** Surveys the family as an institution and a mode for personal living: marital adjustment, parent-child relationships, changing family patterns, and family disorganization and reorganization. Course Equivalent: FCS 2252.

**SOC 2310 FOUNDATIONS OF SOCIAL SERVICES (5)** This course is intended to be an introduction to social services, social welfare policy and the profession of social work in the United States. Social welfare programs designed to ameliorate or reduce the impact of social problems including poverty, child maltreatment, delinquent behavior, mental illness or problems associated with growing old will be explored. The role of human-service providers, especially social workers, is a cornerstone of the course. Liberal, conservative and radical political ideologies and the differing approaches to solving social problems will be discussed. The intersection of faith/religion and social services is integrated into all course content. Course Equivalent: SOC 4310. Attributes: Social Science Introductions and Social Science A.



**SOC 2360 INTRODUCTION TO STATISTICS IN SOCIAL AND BEHAVIORAL SCIENCES (5)** Prerequisites: High school algebra or equivalent, and SOC 1110. (If the student registers for SOC 2360, SOC 1110 is a prerequisite; PSY 1180 is a prerequisite for PSY 2360). Presents the conceptual basis and application of statistical analysis in social and behavioral research. Includes descriptive statistics, correlation and regression, hypothesis testing and inferential statistics. An introduction to analysis of variance and non-parametric statistics will also be provided. Course Equivalent: PSY 2360. Attributes: Quantitative Reasoning and Mathematics. Class open to psychology and sociology majors.

**SOC 2440 SMALL-GROUP DYNAMICS (5)** Examines the small group as the primary source of social order. This course explores the internal processes of small groups, the impact of small groups on their individual members and the relationship of small groups to larger social structures. Offered alternate years.

**SOC 3215 SOCIAL INEQUALITY: POWER AND PRIVILEGE (5)** Analyzes societal organization based on residence, occupation, community, class and race, power structure in the community and social mobility patterns. Offered alternate years. Attributes: Upper Division and Writing Course.

**SOC 3270 SOCIALIZATION (5)** Prerequisite: SOC 1110. Socialization is the process by which individuals develop into social beings. Various theories of socialization and human development will be utilized to explore the role played by social structure and institutions in the integration of the individual into society. We will examine infant and early childhood socialization, the role of the media and social institutions in socializing children and adults, adult stages of development and the role of history in socializing cohorts of people. Attribute: Upper Division.

**SOC 3370 SOCIOLOGY OF DEVIANCE (5)** Examines a variety of nonconforming behavior such as alcohol abuse, drug use, mental illness, violent crime, homosexuality and prostitution. The course focuses on issues of social definition and causal explanation. Attribute: Upper Division.

**SOC 3371 CRIME AND DELINQUENCY (5)** Studies crime and delinquency in modern society, focusing on both individual and social causes of crime and delinquency. Attribute: Upper Division.

**SOC 3410 MEDICAL SOCIOLOGY (5)** Prerequisite: SOC 1110 or permission of instructor. The study of the relationships between social institutions and the development of medicine as a profession. Also studied is the social demography of health, doctor-patient interactions and ethical dilemmas developing from rapid technological advances. Attribute: Upper Division.

**SOC 3420 POLITICAL SOCIOLOGY (5)** Prerequisite: SOC 1110. This course is an introduction to "political sociology," the analysis of the interaction between politics, society and economy. To focus the analysis, the course is oriented by two questions: What is the social basis of political power? and What is the social basis for democratic regime stability or instability? Attribute: Upper Division.

**SOC 3750 LATIN AMERICA (5)** Traces the history of Latin America with particular attention to the development of political, economic, social and religious institutions. Course Equivalent: HIS 3750. Attributes: Upper Division and Writing Course. Class not open to freshmen.

**SOC 3751 INTRODUCTION TO RESEARCH METHODS (5)** Prerequisite: SOC 2360 or MAT 1360. Explores the development of social research; nature of scientific inquiry, basic methods and techniques, and the examination of representative sociological and political studies from the standpoint of methodology. Note: PSY 3588 may be substituted for SOC 3751 in sociology and related majors, although SOC 3571 is the preferred course. Students may not receive credit for both SOC 3751 and PSY 3588. Attributes: Upper Division and Writing Course.

**SOC 3862 RACIAL AND ETHNIC MINORITIES (5)** Comparative study of the nature of minority relations, methods and problems of group adjustment, and positions of various minority groups in the United States and other multiracial societies. Attribute: Upper Division.

**SOC 4210 WOMEN IN THE THIRD WORLD (5)** An exploration into the variety of conditions that constrain the material, social, and spiritual well-being of Third World women. The course will examine how contemporary processes of social and economic change in the Third World impact women and how "development" could better address their needs. Attribute: Upper Division. Class open to juniors and seniors.

**SOC 4250 SOCIOLOGY, POLICY AND LAW (5)** The legal process and the creation of public policy are both influenced by the cultural context of the time. This course discusses the influence law and public policy have on individual groups of people and society at large. While legal issues will be discussed, this course will focus on sociological perspective of law. Offered alternate years. Attributes: Upper Division and Writing Course.

**SOC 4252 SOCIOLOGY OF FAMILY (5)** Prerequisite: SOC 1110. This is an advanced course exploring the nature of the institution of the family in society. In general, the course will examine the evolution of the family over time, as well as current issues and crises as they may be applicable to public policy. In addition, we will examine current debates and questions in the field of family sociology. The goal of this course is to provide the student an understanding of the family as a social institution in American life. Offered alternate years. Attribute: Upper Division.

**SOC 4308 THE HELPING RELATIONSHIP: THEORY AND SKILLS (5)** This course examines the knowledge base and practice skills necessary to the development of effective client/helper relationships in the human-service professions. Students will simultaneously focus on two areas of learning: The first level pertains to understanding the steps and key skills necessary to successfully utilize a task-centered model of problem solving. This includes an introduction to and practicing of basic interviewing skills especially active listening and the effective use of questions. The second level of learning is directed at assisting each student to deepen their degree of self awareness pertaining to their values, family histories, religious beliefs and biases that might facilitate or create barriers in building effective helping relationships with clients. The class material will touch on the importance of diversity issues prevalent in our society such as gender, ethnicity, race, religious and sexual distinctions. Attribute: Upper Division.

**SOC 4310 FOUNDATIONS FOR SOCIAL SERVICE (5)** This course is intended to be an introduction to social services, social welfare policy and the profession of social work in the United States. Social welfare programs designed to ameliorate or reduce the impact of social problems including poverty, child maltreatment, delinquent behavior, mental illness or problems associated with growing old will be explored. The role of human-service providers, especially social workers, is a cornerstone of the course. Liberal, conservative and radical political ideologies and the differing approaches to solving social problems will be discussed. The intersection of faith/religion and social services is integrated into all course content. Course Equivalent: SOC 2310. Attributes: Social Science Introductions, Social Science A, Upper Division and Writing Course.

**SOC 4380 SOCIAL SERVICE ORGANIZATIONS (5)** This course is intended to be an overview of the methods, structures and goals for delivering social services to people in need. The first portion of the quarter will focus on social service methods such as the delivery of services to individuals and families, groups, communities and social services delivered through the church. The second portion of the quarter will be devoted to examining human-service agencies. Topics that will be covered are funding sources, bureaucratic structure, organization goals for clients, client-organization relationships, worker-client relationships and worker burnout. Attribute: Upper Division.

**SOC 4440 SOCIAL PSYCHOLOGY (5)** Studies the individual within the context of larger social patterns and forces. Includes the major theories, methodological approaches and substantive areas of investigation that figure prominently in social psychology (e.g., social interaction, gender, deviance, aggression, conformity, etc.). PSY 3438 may be substituted for SOC 4440 in the sociology major, although SOC 4440 is the recommended course. Students may not receive credit for both SOC 4440 and PSY 3438. Course Equivalent: PSY 3438. Attribute: Upper Division.

**SOC 4702 CLASSICAL SOCIOLOGICAL THEORY (5)** Explores the major theoretical issues raised by classical theorists such as Weber, Simmel, Marx, Durkheim, Mead and their influence on contemporary social theory. Attributes: Upper Division and Writing Course.

**SOC 4703 CONTEMPORARY SOCIOLOGICAL THEORY (5)** Prerequisite: SOC 1110. This is an introduction to the major contemporary theoretical programs in sociology, e.g., exchange approaches, symbolic interactionism, structural theories, feminist theories. Emphasis will be placed on the basic assumptions and

elemental ideas of the various theories, and the relevance of these ideas for understanding contemporary society. Attribute: Upper Division.

**SOC 4820 SOCIOLOGY OF RELIGION (5)** An analysis of religion as a social form, including the rise of Christianity, religious social perspectives, conversion and commitment processes, sect and cult, charisma and its routinization, religion and inequality, secularization and social change. Attributes: Upper Division and Writing Course.

**SOC 4900 INDEPENDENT STUDY (1-5)** Registration Approval: Independent Study Agreement. Student works independently with a faculty member on a mutually agreed upon topic. May be repeated for credit up to 15 credits. Attribute: Upper Division.

**SOC 4910 SEMINAR (1-5)** Registration Approval: Instructor. Provides a seminar experience in emerging and in specialized topics within sociology such as family violence, death and dying, etc. Fulfills capstone requirement. May be repeated for credit up to 12 credits. Attribute: Upper Division. Class open to sociology majors.

**SOC 4920 READINGS IN SELECTED FIELDS (1-5)** Registration Approval: Independent Study Agreement. Prerequisites: 15 upper-division credits of "B" grade work in the discipline. May be repeated for credit up to 10 credits. Attribute: Upper Division.

**SOC 4930 PRACTICUM IN SOCIOLOGY (1-15)** Registration Approval: Intern Learning Contract Req. Prerequisites: SOC 2310 or SOC 4310 and SOC 4308 and SOC 4380. SOC 4308 or SOC 4380 may be taken concurrently. Provides field experience for those students seeking opportunities in direct services, particularly in the area of case management. These students will relate sociological methods and social work skills to an applied setting. A learning contract describing learning objectives must be developed by the student and approved by the faculty sponsor. Additional information and all placement approvals are obtained from the internship coordinator for the Sociology Department. May be repeated for credit up to 15 credits. Corequisite: SOC 4941. Attribute: Upper Division. Class not open to freshmen and sophomores.

**SOC 4940 INTERNSHIP IN SOCIOLOGY (1-15)** Registration Approval: Intern Learning Contract Req. Prerequisite: SOC 2310 or 4310. Provides field-experience opportunities for students to relate sociological methods and the sociological framework to an applied setting and to expand their learning through an experiential approach. A learning contract describing learning objectives must be developed by the student and approved by the faculty sponsor. Additional information and all placement approvals are obtained from the internship coordinator for the Sociology Department. May be repeated for credit up to 15 credits. Corequisite: SOC 4941. Attribute: Upper Division.

**SOC 4941 PRACTICUM/INTERNSHIP SEMINAR (1-5)** Provides a seminar experience for students who are currently enrolled in either an internship or practicum course in sociology. The class is student directed and topics discussed are related to the student's field experience. Fulfills capstone requirement. May be repeated for credit up to 5 credits. Attribute: Upper Division.

**SOC 4970 INDEPENDENT RESEARCH (1-5)** Registration Approval: Instructor. Prerequisite: "B" grade work in the discipline. May be repeated for credit up to 15 credits. Attribute: Upper Division.

## Faculty

**Martin L. Abbott**, *Professor of Sociology*; B.S., Portland State University, 1974; M.A., Pepperdine University, 1976; Ph.D., Portland State University, 1984. At SPU since 1985.

**David Caddell**, *Associate Professor of Sociology*; B.A., California Baptist College, 1986; M.A., California State-Fullerton, 1989; Ph.D., Purdue University, 1992. At SPU since 1994.

**David A. Diekema**, *Assistant Professor of Sociology*, *Chair of Sociology*; B.A., Calvin College, 1982; M.A., University of Wisconsin-Milwaukee, 1985; Ph.D., University of Iowa, 1990. At SPU since 1992.

**Jennifer McKinney**, *Assistant Professor of Sociology*; B.A., Kentucky Wesleyan College, 1991; M.S., Purdue University, 1995; Ph.D., 2001. At SPU since 2001.

**Kevin Neuhouser**, *Associate Professor of Sociology*; B.A., Taylor University, 1980; M.A., Indiana University, 1986; Ph.D., 1990. At SPU since 1996.

**Cynthia Price**, *Associate Professor of Sociology*; *Director of General Education and Faculty Advising*; B.A., Westmont College, 1983; M.A., Washington State University, 1986; Ph.D., 1990. At SPU since 1993.

## Spanish

See Languages

## Student-Designed Major

Student-designed majors are intended for students with high academic achievement with a particular interest crossing the boundaries of disciplinary majors. A student may design an individualized major of courses selected from the various disciplines that apply to their special interest. Once a student has discussed a possible special major with a faculty advisor, he or she should submit the Student-Designed Major Application form, a proposed program, a statement of purpose and rationale, and an advisor's and school's signature of approval to the Undergraduate Policy and Evaluation Committee. The proposal should provide evidence that the student has considered courses or learning experiences that will provide an opportunity to integrate content and skills from the various disciplines in his or her program. The committee may suggest changes, but once the proposal has been approved a contract will be placed in the student's file in Student Academic Services.

A student must have a minimum SPU cumulative GPA of 3.0 to apply for a student-designed major. A student-designed major must be applied for no later than the first quarter of a student's junior year. Student-Designed Major Application Forms are available from Student Academic Services. All standards governing a major as described elsewhere in the *Catalog* will apply to student-designed programs.

## Textiles and Clothing

See Family and Consumer Sciences

## Theatre

Crawford Music Building  
(206) 281-2205  
www.spu.edu/depts/fpa

**Donald Yanik**, *Chair*, **Andrew Ryder**, **George Scranton**, **Steve Beatty**, *Technical Director*

The mission of the Department of Theatre is to educate, train and prepare theatre artists of character and

competence who will engage and transform the culture through faithful use of their creative gifts and talents.

The study of theatre provides students with opportunities to explore personal values, develop personal skills and acquire techniques of insight and critical reasoning – all within a distinctive philosophical and artistic environment. Students in theatre are exposed to a sizable body of dramatic literature, theory and historical study, leading to the development of an informed perspective of the role of theatre as a social, spiritual and artistic institution. The experience is a liberalizing one, designed to allow the student to explore and develop herself or himself as both an individual and as an artist. By the nature of the art itself, the production and performance process is inherent to undergraduate theatre study. Many of the courses offered by the department focus on skills associated with performance, play writing, directing, designing and technical theatre crafts. In addition to the classroom experience, an extensive production program is maintained. The performance schedule is divided among main stage, studio, laboratory and touring productions, with titles selected to reflect a wide range of dramatic forms and styles. Special emphasis is given to plays that deal with positive values and the relationship between theatre and the Christian faith.

### Career Opportunities

The curriculum of the theatre program is designed both to prepare interested students for graduate studies and to serve as a groundwork for the placement of committed Christians in the culture-shaping world of the professional theatre. Career opportunities for theatre majors extend beyond acting into other specialties such as set design, lighting and costume design, stage management, promotion and publicity, play writing, directing and business management. Additionally, the skills acquired as a major – skills of self-knowledge, communicative social interaction, presentation of self, personal discipline, risk-taking, cooperative group effort and sensitivity to others – are important to many career applications other than those allied specifically with the theatre. Theatre majors find that they are prepared through their art to serve especially well in those careers associated with working with the public.

### Admission to the Theatre Major

Formal admission to a major in theatre is accomplished at the end of the first quarter of the sophomore year, or in the case of transferring students beyond the sophomore level, in the second quarter of residence. To qualify for admission as a major in the theatre program, the student is required to have completed 12 credits of work with a 2.5 GPA in theatre and to complete and submit for the theatre faculty's approval an application for admission. Application should be made through the Office of Fine Arts on forms available there.

### Requirements for the Theatre Major

(70 credits; 30 upper division)  
(Refer to page 64 for a summary of degree requirements.) Students majoring in the study of theatre must fulfill the following requirements: earn a minimum of 70 credits in theatre studies and applications, with a minimum of 30 upper-division credits, and they must demonstrate a growing ability in theatrical criticism, artistic awareness and personal theatrical skills. Theatre majors must successfully complete a senior project in acting, directing, design or play writing. This project must include both an approved prospectus and some form of public demonstration made during the student's senior year. The senior project, developed with advisor consultation and approved by the theatre faculty, is expected to be the independent work of a mature student artist. It is considered the culmination of the student's undergraduate training and must be of substantial merit, reflecting an informed artistic sensitivity and philosophy. (Up to 3 credits of TRE 4961 Special Projects may be accumulated in the completion of this requirement.) TRE 4100 Arts and Religious Experience is highly recommended (meets general education Arts and Humanities A).

### Core Courses

TRE 1930/3930 Performance Practicum*	2
TRE 1931/3931 Production Practicum*	6
TRE 1720 Stagecraft	5
TRE 1810 Playscript Analysis	3
TRE 1340 Acting I: Fundamentals (5) or, alternately, TRE 1310 The Actor's Art	5
TRE 2340 Acting II: Character	5
TRE 2420 Theatre and Drama: Tragedy (5) or TRE 2421 Theatre and Drama: Comedy (5)	5
TRE 2732 Scene Design and Technical Drawing	5
TRE 3710 Play Directing	5
TRE 4910 History of the Theatre	5
TRE Electives	24
<b>Total</b>	<b>70</b>

\*A maximum of 12 credits of practica offerings may be applied toward the major; any number toward the B.A. degree.

### Admission to the Theatre Minor

Formal admission to a minor in theatre is accomplished by the end of the sophomore year, or in the case of transferring students beyond the sophomore level, in the second quarter of residence. The student is required to complete and submit for the approval of the theatre faculty an application for minor status. Application should be made through the Office of Fine Arts on forms available there.

### Requirements for the Theatre Minor

(35 credits; 15 upper division)  
Students earning a minor in the study of theatre must fulfill the following requirements: earn a minimum of 35 credits in theatre studies and applications, with a minimum of 15 credits in upper-division credits; and they must demonstrate a growing ability in theatrical

criticism, artistic awareness and personal theatrical skills. TRE 4100 Arts and Religious Experience is highly recommended. (It meets general education Arts and Humanities A.)

TRE 1720 Stagecraft	5
TRE 1810 Playscript Analysis	3
TRE 1340 Acting I: Fundamentals (5) or, alternately, 1310 The Actor's Art	5
TRE 2420 Theatre and Drama: Tragedy (5) or TRE 2421 Theatre and Drama: Comedy (5)	5
TRE 3710 Play Directing	5
TRE Electives	17
<b>Total</b>	<b>35</b>

A maximum of 8 credits of practica offerings may be applied toward the minor; any number toward the B.A. degree.

### Theatre Courses

**TRE 1110 THE THEATRE EXPERIENCE (5)** A study of the theatre as both a distinctive art form and a social instrument, considered from three viewpoints: those of the artist, the spectator and the critic. Requires attendance at five to six evening theatrical performances. Extra fees required for events, collected in class. Attribute: Arts and Humanities A. Class not open to theatre majors.

**TRE 1310 THE ACTOR'S ART (5)** Intended for non-theatre majors or minors. An introduction to the actor's task in preparation for the dramatic performance; focuses on developing sensory awareness, observation skills, selective imagination and ensemble relationships through improvisation and scene-work. No credit for students who have taken TRE 1340. Attribute: Arts and Humanities A.

**TRE 1340 ACTING I: FUNDAMENTALS (5)** Registration Approval: Instructor. Designed for intended theatre majors or minors or others with extensive acting experience. Prepares students for dramatic performance through intensive work in sensory awareness, observation skills and selective imagination. Develops ensemble relationships through improvisation and scene-work. No credit given for students who have taken TRE 1310. Attribute: Arts and Humanities A.

**TRE 1720 STAGECRAFT (5)** An introduction to the backstage crafts of theatrical production and management, intended to give the student a broad understanding of the basic principles and technical procedures used in theatrical production management and the design and production of scenery, costumes, lighting and sound. Corequisite: TRE 1931.

**TRE 1810 PLAYSRIPT ANALYSIS (3)** Foundational approaches to problems of script analysis. Reading and analysis of representative plays from the distinct perspectives of playwright, actor, designer and director. Attendance at selected theatrical productions and critical response.

**TRE 1930 PERFORMANCE PRACTICUM (2)** Registration Approval: Instructor and audition. Offered for performance- or directing-related activity associated with approved theatrical productions. May be repeated an unlimited number of times. Attribute: Arts and Humanities A.

**TRE 1931 PRODUCTION PRACTICUM (2)** Offered for design, technical theatre or management activity associated with approved theatrical productions. May be repeated an unlimited number of times. Attribute: Arts and Humanities A.

**TRE 2304 UNIVERSITY PLAYERS (1)** Registration Approval: Instructor and audition. May be repeated an unlimited number of times. Class not open to freshmen.

**TRE 2320 STAGE MOVEMENT (3)** Specialized movement for the actor, including work in physical flexibility, balancing, equilibristics, circus techniques, hand-to-hand combat and use of theatrical masks for performance. Offered alternate years.

**TRE 2340 ACTING II: CREATING CHARACTER (5)** Prerequisite: TRE 1310, 1340 or permission of instructor. Improvisation and scene-work exploring the problems of characterization as developed through both internal and external performance techniques.

**TRE 2350 THEATRE VOICE (3)** A study of vocal production as related to the actor's craft. Analysis and exercises designed to

promote relaxation, natural breathing, organic vocal production, articulation, phrasing and projection. Offered alternate years.

**TRE 2420 THEATRE AND DRAMA: TRAGEDY (5)** The nature of tragedy and tragic expression in the theatre as revealed by selected playscripts and theoretical works drawn from the history of Western civilization. Attribute: Arts and Humanities A.

**TRE 2421 THEATRE AND DRAMA: COMEDY (5)** Principle theories of the comic as presented in the theatre and preserved in playscripts drawn from the history of Western civilization. Attribute: Arts and Humanities A.

**TRE 2733 SCENE PAINTING (3)** Instruction in the basic scene-painting practices and techniques for the stage. Includes blending, spattering, wood, brick, marble, stenciling and foliage, as well as surface material preparation. Offered alternate years. Class open to freshmen and sophomores.

**TRE 2740 INTRODUCTION TO LIGHTING AND SOUND (3)** Prerequisite: TRE 1720. Introduction to stage lighting and sound, covering theatrical sound equipment, lighting equipment and instruments, and the principles of lighting and sound design. Offered alternate years.

**TRE 2950 SPECIAL TOPICS IN THEATRE (2-5)** Topic and credits to be announced in the *Time Schedule* when offered. Topics offered usually only once, and only upon evidence of significant student interest. Possible topics include great themes of drama, medieval drama, the Oriental theatre, theatre architecture, contemporary playwrights and the like. Class not open to non-matriculated students.

**TRE 3321 ELEMENTS OF MIME (3)** An introduction to the theory and practice of mime, the language of gesture. Offered alternate years. Attribute: Upper Division.

**TRE 3340 ACTING III: STYLES (5)** Explores analysis and performance techniques for plays of specialized historic and stylistic genre, including scene-work drawn from classical, Elizabethan, mannerist, realist, epic and other dramatic materials. Offered alternate years. Attribute: Upper Division.

**TRE 3710 PLAY DIRECTING (5)** Prerequisite: TRE 1810 or permission of instructor. Consideration of the aesthetics and techniques of directing through exercises in achieving visual, auditory and kinesthetic effects. Includes play selection, organization, casting and rehearsing. Practical application. Attribute: Upper Division. Class not open to freshmen and sophomores.

**TRE 3720 STAGE MAKEUP (3)** An introduction to the techniques and application of stage makeup for straight and corrective character, old-age character, fantasy, special-character effects and crepe hair techniques. Offered alternate years. Attribute: Upper Division.

**TRE 3733 SCENE DESIGN AND TECHNICAL DRAWING (5)** Prerequisite: TRE 1720. An introductory course of scene design with emphasis on analysis and interpretation of the script, use of research material and a developmental process of design. Includes an introduction to and the application of standard practices of drafting. Attribute: Upper Division. Class open to theatre majors. Class not open to freshmen.

**TRE 3750 COSTUME AND PERIOD STYLES (5)** An introductory, developmental course with emphasis on analysis and interpretation of the script for costume plot, designer's sketches and presentation. Also includes a survey of period styles of costume, architecture, ornament, furniture and its application to stage design. Offered alternate years. Attribute: Upper Division.

**TRE 3780 THE ART OF FILM (5)** The goal of this course is to develop students' abilities to view films critically and to deepen their understanding of the film experience. The course first teaches analysis of narrative strategies, shot properties, mise-en-scene, editing, acting and the use of sound in film, particularly classical Hollywood cinema. The course then focuses on the study of different genres of films and how they present ideological points of view and fulfill certain wishes of the spectator. Offered alternate years. Course Equivalents: COM 2780, COM 3780 and TRE 2780. Attributes: Arts and Humanities A and Upper Division. Class not open to freshmen.

**TRE 3800 THEATRE EDUCATION METHODS (3)** Registration Approval: Instructor. Explores contemporary methods and trends in the teaching of high school theatre, emphasizing management of a production program; critical response to artistic experiences; contexts of theatrical works, connections within the arts and pedagogy. Attention is given to AATE standards and Washington

Essential Academic Learning Requirements in the Arts. Attribute: Upper Division. Class not open to freshmen and sophomores.

**TRE 3930 PERFORMANCE PRACTICUM (2)** Registration Approval: Instructor and audition. Offered for performance or directing-related activity associated with approved theatrical productions. May be repeated an unlimited number of times. Attributes: Arts and Humanities A and Upper Division. Class not open to freshmen and sophomores.

**TRE 3931 PRODUCTION PRACTICUM (2)** Offered for design, technical theatre or management activity associated with approved theatrical productions. May be repeated an unlimited number of times. Attributes: Arts and Humanities A and Upper Division. Class not open to freshmen and sophomores.

**TRE 4100 THE ARTS AND RELIGIOUS EXPERIENCE (5)** Shows the interdependence of the arts and worship, dealing with such subjects as ritual, liturgy, architecture, the plastic, dramatic and musical arts. Artistic symbolism is studied, with an opportunity to plan and implement a group worship experience using the arts as an integral part of the course. Attributes: Arts and Humanities A, Fine Arts Core, Upper Division and Writing Course. Class not open to freshmen and sophomores.

**TRE 4304 UNIVERSITY PLAYERS (1)** Registration Approval: Instructor and audition. May be repeated an unlimited number of times. Attribute: Upper Division. Class not open to freshmen and sophomores.

**TRE 4760 PLAYWRITING (5)** Prerequisite: TRE 1810 or permission of instructor. Seminar discussion and conferences in the writing of actual playscripts. Offered alternate years. Attributes: Upper Division and Writing Course. Class not open to freshmen and sophomores.

**TRE 4770 CREATIVE DRAMATICS (3)** Presents a workshop exploring methods to move children from their inner circle of knowledge and experience to their outer circle of thought, expression and product through the use of creative drama. Offered alternate years. Attribute: Upper Division. Class not open to freshmen and sophomores.

**TRE 4900 INDEPENDENT STUDY IN THEATRE (1-5)** Registration Approval: Independent Study Agreement. May be repeated for credit up to 15 credits. Attribute: Upper Division. Class not open to freshmen and sophomores.

**TRE 4910 HISTORY OF THE THEATRE (5)** Survey of the history of the theater from pre-classical to modern times, tracing development and changes in theater architecture, social purpose, the role of the theater artist and the nature of theatrical experience. Offered alternate years. Attributes: Upper Division and Writing Course. Class not open to freshmen and sophomores.

**TRE 4943 THEATRE INTERNSHIP (1-5)** Registration Approval: Intern Learning Contract Req. Prerequisites: 15 credits of "B" or better work in theatre; an internship plan approved by the theatre faculty. Supervised application of theatre skills in the marketplace. May be repeated for credit up to 10 credits. Attribute: Upper Division. Class open to theatre majors. Class not open to freshmen and sophomores.

**TRE 4950 SPECIAL TOPICS IN THEATRE (1-5)** Registration Approval: Instructor. Topic and credits to be announced in the *Time Schedule* when offered. Topics offered usually only once, and only upon evidence of significant student interest. Possible topics include great themes of drama, medieval drama, the Oriental theatre, theatre makeup, theatre architecture, contemporary playwrights and the like. May be repeated for credit up to 10 credits. Attribute: Upper Division. Class not open to freshmen and sophomores.

**TRE 4951 SPECIAL TOPICS IN THEATRE (1-5)** Registration Approval: Travel Studies Form. Attribute: Upper Division.

**TRE 4961 SPECIAL PROJECTS IN THEATRE (1-5)** Registration Approval: Instructor. Individual research and conferences in area of specialization within the theatre discipline, culminating in the presentation of a project. May be repeated for credit up to 10 credits. Attribute: Upper Division. Class open to theatre majors. Class not open to freshmen and sophomores.

## Faculty

**Andrew Ryder**, *Associate Professor of Theatre*; B.A., Anderson University, 1990; M.A., Michigan State University, 1994; Ph.D., Bowling Green State University, 1997. At SPU since 2000.

**George Scranton**, *Professor of Theatre*; B.A., Seattle Pacific College, 1968; M.A., 1971; M.A., University of Washington, 1975; Ph.D., The Graduate Theological Union, 1994. At SPU since 1970.

**Donald P. Yanik**, *Professor of Theatre, Chair of Theatre*; B.S., Anderson College, 1964; M.Ed., University of Nebraska, 1970; M.F.A., Southern Methodist University, 1981; Fulbright Scholar, Taiwan, 1993-94. At SPU since 1985.

## Theology, School of

Alexander Hall  
(206) 281-2342

www.spu.edu/depts/theology

**Miriam Adeney, Kerry Dearborn, Tim Dearborn, Robert Drov Dahl, Douglas Koskela, Eugene Lemcio, Randy Maddox, Dave Nienhuis, Delia Nüesch-Olver, John R. Levison, Priscilla Pope-Levison, Edward Smyth, Frank Spina, Richard Steele, Dwight Van Winkle, Robert Wall**

The study of theology at Seattle Pacific has two goals: (1) to develop students' ability to employ the Christian faith for analyzing, interpreting and evaluating various value systems operative in our world; and (2) to guide students toward a thoughtful, vital, owned Christian faith.

The first goal recognizes that Christian faith and practice is one option among many in the marketplace of ideas in a secular world. The goal of the School of Theology is to assist students to know what they believe so that they have an informed faith, and to understand the sources of authority by which they regulate their lives, so that they have a confident faith. They can then respond positively to other belief systems and to non-Christian values and practices from the perspective of an intelligent faith validated by Christian integrity and lifestyle.

The second goal recognizes that students come to the University from a variety of backgrounds. The goal of the School of Theology is to guide students toward a reflective, vibrant Christian faith that is "owned" in the sense that students take personal responsibility for their faith and behavior and for the decisions they have made. These goals reflect SPU's identity as a Christian, liberal arts university and the School of Theology's commitment to helping students understand and appreciate the ways that Christian thought and life are shaped by and accountable to Scripture, Christian tradition, reason and experience.

The School of Theology serves all SPU students through courses meeting University foundations requirements. These requirements, described elsewhere in this *Catalog*, introduce students to the biblical heritage, formative practices and doctrinal commitments of historic Christianity.

The School of Theology offers majors in educational ministry and Christian theology. Both majors are built on the foundation of a common core reflecting the "Wesleyan Quadrilateral" of Scripture, Christian tradition, reason and experience. Each major then adds additional credits in specialized coursework. The school also offers four minors: Christian Scriptures, educational ministry, youth ministry,

and global and urban ministries. A minor in one of these areas will enrich the Christian perspective in a student's chosen major and strengthen the connection between Christian faith and one's life in the workplace, in the home, in the church and in the world. An International Service Certificate Program is also offered to those interested in living and working as a Christian in a multicultural setting.

## Majors

Prerequisites to applying for a major in the School of Theology include that students must have a cumulative GPA of 2.00 or higher in all previous college credits and have attained at least a "B-" grade in a University Foundations course.

## Educational Ministry Major

**Robert Drov Dahl**, *Contact*

The field of educational ministry, traditionally known as Christian education, is an interdisciplinary area addressing the question of how we facilitate spiritual development in persons. To answer this question, the field explores the foundational theological disciplines, the social sciences and educational philosophy. A major in educational ministry is recommended for students interested in spiritual development and the educational/equipping ministry of the church. It provides a pre-professional course of study within a liberal arts perspective for students pursuing full-time ministry in a church or parachurch setting. Occupationally, educational ministry majors work within church and parachurch organizations. Possible church roles include director of Christian education, youth director and children's director. Possible parachurch settings include student development, Christian service organizations, Christian camping and curriculum design. Some also combine a major in educational ministry with education certification to prepare for elementary school teaching.

## Requirements for the Educational Ministry Major

(57 credits)

(Refer to page 64 for a summary of degree requirements.)

The requirements for the major are in addition to meeting the Foundations requirements.

### Christian Scriptures

Select two upper-division Scripture courses ..... 10

### Christian Heritage

Select two courses from the following:

THEO 3301 Early and Medieval Christianity (5)  
THEO 3302 Reformation and Modern Christianity (5)  
THEO 3303 Christianity in America (5)  
THEO 3631 Women in Christianity ..... 10

### Christian Doctrine

Select one upper-division doctrine course ..... 5

### Christian Ministries

THEO 2710 Foundations for Educational Ministry ..... 5  
THEO 2720 Curriculum and Instruction ..... 5  
THEO 3710 Human Development and Christian Faith ..... 5  
THEO 4710 Current Issues in Educational Ministry ..... 3  
THEO 4720 Leadership in Educational Ministries ..... 5

THEO 4731 Child Development and Educational Ministry ..... 3  
THEO 4732 Adolescent Development and Educational Ministry ..... 3  
THEO 4733 Adult Development and Educational Ministry ..... 3  
**Total** ..... **57**

## Christian Theology Major

**Richard Steele**, *Contact*

As the study of Christian belief and practice with the goal of fostering faithful Christian life, theology is necessarily multidisciplinary. The Christian theology major is designed to cultivate an appreciation for how Scripture, tradition, reason and experience rightly inform theological reflection. The value of this major within the liberal arts is to nurture those skills and capacities required of a thoughtful and articulate faith. As a result of majoring in Christian theology, the student is well prepared either for the workplace or for graduate study in the humanities or the professions. Besides enriching the student's life with God, this major also seeks to enhance the student's service to the church.

## Requirements for the Christian Theology Major

(58 credits)

The requirements for the major are in addition to meeting the Foundations requirements.

(Refer to page 64 for a summary of degree requirements.)

### Christian Scriptures

Select one course from the following:

THEO 3110 Torah (5)  
THEO 3120 The Former Prophets (5)  
THEO 4110 The Latter Prophets (5)  
THEO 4120 The Writings (5) ..... 5

Select one course from the following:

THEO 3210 The Gospels (5)  
THEO 3220 Acts (5)  
THEO 4210 The Letters of the New Testament (5)  
THEO 4220 The Book of Revelation (5) ..... 5  
THEO 4290 Biblical Theology ..... 5

### Christian Heritage

Select two courses from the following:

THEO 3301 Early and Medieval Christianity (5)  
THEO 3302 Reformation and Modern Christianity (5)  
THEO 3303 Christianity in America (5)  
THEO 3631 Women in Christianity (5) ..... 10

### Christian Doctrine

THEO 3401 Exploring Christian Doctrine ..... 5  
THEO 4401 Representative Theologians ..... 5

### Christian Ethics

Select one of the following:

PHI 1002 Introduction to Ethics (5)  
THEO 3501 Christian Ethics (5)  
THEO 3510 Christianity and Society (5) ..... 5

### Christian Ministries

Select one of the following:

THEO 2710 Foundations for Educational Ministry (5)  
THEO 3710 Human Development and Christian Faith (5) ..... 5

Select one of the following:

- THEO 3640 Cross-Cultural Communication (3)
- THEO 4601 Multiethnic Ministry (3)
- THEO 4610 World Religions (3) ..... 3

**Philosophical Backgrounds**

- PHI 1004 Survey of Western Philosophy (5) ..... 5

**Capstone**

- THEO 4495 Christian Theology Capstone ..... 5

**Total** ..... **58**

**Minors**

**Christian Scriptures Minor**

**Robert Wall, Contact**

The purpose of the Christian Scriptures minor is to lead students into more mature understanding of Scriptures' teaching about God. Not only is this minor designed to be intellectually invigorating, but each course also intends to relate scripture to Christian formation in spiritually enriching and challenging ways. Course by course, students will learn how to interpret Scripture with skill and grace, discovering the historical, literary and theological aspects of different biblical writings and the practical implications of each for Christian faith and witness today.

**Requirements for the Christian Scriptures Minor**

(30 credits)

UFDN 2000: Christian Scripture (5)

Select one course from the following:

- THEO 3110 Torah (5)
- THEO 3120 The Former Prophets (5) ..... 5

Select one course from the following:

- THEO 3210 The Gospels (5)
- THEO 3220 Acts and Letters of Paul (5) ..... 5

Select one course from the following:

- THEO 3130 The Latter Prophets (5)
- THEO 3140 The Writings (5) ..... 5

Select one course from the following:

- THEO 3230 The Letters of the New Testament (5)
- THEO 3240 The Book of Revelation (5) ..... 5

THEO 4601 Biblical Theology ..... 5

**Total** ..... **30**

**Educational Ministry Minor**

**Robert Drov Dahl, Contact**

Issues in spiritual development and the educational/equipping ministry of the church affect all Christians. A minor in educational ministry provides an ideal program for exploring these issues and strengthening a student's ability to serve in present and future life roles: church leader or teacher, Christian parent, a profession that involves a helping relationship and other roles concerned with nurturing spiritual development.

**Requirements for the Educational Ministry Minor**

(31 credits)

THEO 2710 Foundations of Educational Ministry ..... 5

THEO 2720 Curriculum and Instruction ..... 5

THEO 4720 Leadership in Educational Ministry ..... 5

Select two courses from the following age-level courses:

- THEO 4731 Child Development and Educational Ministry (3)
- THEO 4732 Adolescent Development and Educational Ministry (3)
- THEO 4733 Adult Development and Educational Ministry (3) ..... 6

One course from the Christian Doctrine section ..... 5

Elective course work in educational ministry ..... 5

**Total** ..... **31**

**Youth Ministry Minor**

**Edward Smyth, Contact**

Reaching today's youth with the gospel requires dedicated, capable leadership. The minor prepares students for effective ministry with youth.

**Young Life Program**

Students may combine the youth ministry minor with a supervised internship with Young Life. Interns may work toward full-time placement after college through Young Life's church partnership program or as full-time Young Life staff. For more information, contact the School of Theology.

**Requirements for the Youth Ministry Minor**

(33-38 credits)

COM 1101 Introduction to Interpersonal Communication ..... 5

PSY 4420 Adolescent Developmental Psychology ..... 5

THEO 2710 Foundations for Educational Ministry ..... 5

THEO 3710 Human Development and Christian Faith ..... 5

THEO 4732 Adolescent Development and Educational Ministry ..... 3

THEO 3630 Field Service Methods (3)  
or SOC 3862 Racial and Ethnic Minorities (5) ..... 3-5

Select one course from the following:

- COM 1321 Speaking Before Groups (5)
- COM 2227 Small Group Discussion and Leadership (5)

THEO 2720 Curriculum and Instruction (5) ..... 5  
and

COM 4940 Internship (2-5)  
or THEO 4940 Internship (2-5) ..... 2-5

**Total** ..... **33-38**

Recommended courses: Students wanting to supplement the minor with additional coursework should consider courses in Christian Scriptures, Christian doctrine, Christian ministries and communication.

**Global and Urban Ministries Minor**

**Delia Nüesch-Olver, Contact**

The global and urban ministries (GUM) minor serves students in all majors, training Christians to make a difference in the world. This program offers a minor, an internship and a certificate. It works closely with the Office of Campus Ministries. The internship may be completed either through the course, Interpreting the City, or through a minimum of six weeks spent in residence in an ethnic community overseas or locally, working on an academic project. In the term preceding the field experience, the student will enroll in 1 credit of independent study with a

GUM professor to design the project. Following the field experience, the student will enroll in 1 credit of independent study to write a paper summarizing the field research. An internship will earn 5 credits, including the independent study credits.

**Requirements for the Global and Urban Ministries Minor**

(30 credits)

THEO 2620 Introduction to Global and Urban Ministries ..... 5

THEO 3640 Cross-Cultural Communication ..... 3

THEO 3630 Field-Service Methods ..... 3

THEO 4610 World Religions ..... 3

Select two courses from the following:

THEO 3601 Multi-Ethnic Ministries (3)

THEO 4602 Issues in Latin American Christianity (3)

THEO 4603 Issues in Asian/African Christianity (3) ..... 6

Elective(s) ..... 5

THEO 4940 Internship (5)

or THEO 4620 Interpreting the City (5) ..... 5

**Total** ..... **30**

**International Service Certificate**

This brief program offers useful training for students who hope to live and work multi-culturally as Christians, but who cannot take enough courses to earn a minor in global and urban ministries.

**Requirements for the International Service Certificate**

(9-11 credits)

THEO 3610 Living in Another Culture (3)  
or THEO 3640 Cross-Cultural Communication (3) ..... 3

An elective course in global and urban ministries ..... 3-5

An approved course in the student's major (i.e., international business)

or a second course in global and urban ministries ..... 3-5

**Total** ..... **9-13**

**Greek Courses**

**GRK 1101 ELEMENTARY GREEK (3)** Emphasizes the essentials of Koine Greek grammar and syntax, enabling the student to read the New Testament with a beginner's facility and with the potential to study other kinds of biblical and non-biblical Koine Greek literature. Offered summer quarter only.

**GRK 1102 ELEMENTARY GREEK (3)** Prerequisite: GRK 1101 or equivalent. Emphasizes the essentials of Koine Greek grammar and syntax, enabling the student to read the New Testament with a beginner's facility and with the potential to study other kinds of biblical and non-biblical Koine Greek literature. Offered summer quarter only.

**GRK 1103 ELEMENTARY GREEK (3)** Prerequisites: GRK 1101 and 1102 or equivalent. Emphasizes the essentials of Koine Greek grammar and syntax, enabling the student to read the New Testament with a beginner's facility and with the potential to study other kinds of biblical and non-biblical Koine Greek literature.

**Christian Scriptures**

**THEO 3100 COMMUNITY BIBLE STUDY (2)** Study of a selected book or particular theme of the Bible. Each quarter a new book or theme will be explored with particular attention give to its part in the formation of Christian life. All members of the SPU community are encouraged to "tune in CBS" (Community Bible

Study)! May not be used to satisfy School of Theology major or minor requirements. May be repeated for credit up to 18 credits. Attribute: Upper Division.

**THEO 3110 TORAH/PENTATEUCH: THE OLD TESTAMENT GOSPEL (5)** Prerequisite: UFDN 2000 or 3001. Focuses on the first five books of the Bible known as Torah or Law (i.e., Pentateuch). Besides "law," Torah also means "instruction, teaching, story or narrative." As the first major section of the Bible, Torah is foundational to the rest of the Biblical witness. In this course, we will carry out a close reading of the text with a view to ascertaining the primary theological emphasis of a narrative that begins with creation and ends with the death of Moses. Reading Torah "as Scripture" informs our approach. Comparing this approach to a primarily modern reading will be an important feature of the course. Attributes: Upper Division and Writing Course.

**THEO 3120 THE FORMER PROPHETS: ENTERING AND LEAVING THE PROMISED LAND (5)** Prerequisite: UFDN 2000 or 3001. Consisting of the first half of the second major section of the Old Testament (Prophets), the former prophets contain Joshua, Judges, Samuel and Kings. The stories contained in this extensive segment feature the fortunes and misfortunes of Israel, the people through whom God is attempting to bless the world. An understanding of the former prophets is requisite for understanding the latter prophets (Isaiah, Jeremiah, Ezekiel and The Twelve), as well as other parts of the Old and New Testaments. In this course, we will carry out a close reading of the text with a view to ascertaining the primary theological emphasis of a narrative that begins with Israel's entry into the Promised Land and ends with Israel's removal from that same land. Reading former prophets "as scripture" informs our approach. Comparing this approach to a primarily modern reading will be an important feature of the course. Attributes: Upper Division and Writing Course.

**THEO 3130 THE LATTER PROPHETS: ISAIAH (5)** Prerequisite: UFDN 2000 or 3001. What did the prophets proclamation mean to their original hearers? What did the book of Isaiah mean to its original audience? What did it mean to the writers of the New Testament? What does it mean to us? Attributes: Upper Division and Writing Course.

**THEO 3140 WRITINGS OF THE OLD TESTAMENT: GOD AND HUMAN EXPERIENCE (5)** Prerequisite: UFDN 2000 or 3001. Why should we praise God? How should we praise God? How should we relate to God when we are suffering? How do we succeed in life? What is the meaning of life? Why do the righteous suffer? This class studies the book of Psalms, Proverbs, Job and Ecclesiastes. Attributes: Upper Division and Writing Course.

**THEO 3210 FOUR GOSPELS AND ONE JESUS (5)** Prerequisite: UFDN 2000 or 3001. "Will the real Jesus please stand up?" A major revolution in society's and the church's views of Jesus would occur if he were allowed to speak and act on his own terms. So, in this course, students will be engaged in direct study of the gospel accounts in parallel form (alongside one another) and according to their authors' literary methods. Attribute: Upper Division.

**THEO 3220 PROPHECY, POWER AND POLITICS: READING ACTS TODAY (5)** Prerequisite: UFDN 2000 or 3001. Acts tells the exciting story of the first believers who continued the ministry of the risen Jesus from Jerusalem to Rome. Acts is also one of Scripture's most strategic books, providing the New Testament's introduction to the biblical letters by introducing us to their implied authors and audiences. Our classes will carefully study the book of Acts with particular attention on how its story of the church's mission fulfills Old Testament promises to Israel, continues the Gospel's story of Jesus and prepares us to study the New Testament letters in order to fashion a vigorous Christian faith for today's world. Attribute: Upper Division.

**THEO 3230 FAITH AND WORKS: NEW TESTAMENT LETTERS (5)** Prerequisite: UFDN 2000 or 3001. The two collections of New Testament Letters – Pauline (Romans-Philemon) and Catholic (James-Jude) – combine to give the New Testament student a balanced understanding of the Christian faith. These letters are among the most frequently consulted biblical writings in formulating what Christians believe and how they should behave in the world. Our classes will seek to clarify the historical, literary and theological differences between these two collections in order to demonstrate why both are necessary in forming a more robust understanding of the Christian gospel. Attributes: Upper Division and Writing Course.

*"My task is to equip students to understand the theological and contextual realities of our urban and multiethnic world. I strive to develop global Christians who will participate in God's transformation of the world."*

**Delia Nüesch-Olver**  
Theology



**THEO 3240 THE BOOK OF REVELATION: BACK TO THE FUTURE (5)** Prerequisite: UFDN 2000 or 3001. Instead of being the "problem child" of the New Testament and the "happy hunting ground of kooks and weirdoes," this book, if read intelligently and sympathetically, can become the Bible's crown jewel. We will also note how many of its themes have had a profound influence on art, music, literature and modern psychology. Attributes: Upper Division and Writing Course.

**THEO 4000 FROM THE OLD TESTAMENT TO THE NEW (5)** Prerequisite: UFDN 2000 or 3001 and one 3000-level Scripture course. The historical period between the Old and New Testaments proved vital to the formation of Judaism and the rise of Christianity. Students will study this extraordinary era to identify its pivotal historical events, to explore the innovative ways authors of important literary texts such as the Dead Sea Scrolls interpreted Israel's scriptures, and to evaluate the significance of early Jewish writings such as those found in the Old Testament Apocrypha, for understanding the New Testament and the emergence of Christianity. Attribute: Upper Division.

**THEO 4290 BIBLICAL THEOLOGY: READING THE WHOLE BIBLE AS SCRIPTURE (5)** Prerequisite: One 3000-level Scripture class. The Bible testifies in a variety of ways to what God did in Israel and in Christ to get the world back on track. Most people find this biblical testimony fascinating and compelling. In addition, those who regard the Bible as God's gift to the community of faith will find its message indispensable for their spiritual, moral and theological formation. Attributes: Upper Division and Writing Course.

### Christian Heritage

**THEO 3301 EARLY AND MEDIEVAL CHRISTIANITY (5)** A survey of Christianity from its post-Apostolic origins to the end of the middle ages. Initially, evaluates the formation of orthodoxy, the challenge of heterodoxy, early monasticism, missions to Western Europe; then explores the achievement of the medieval church through a study of the papacy, scholasticism and the Crusades. Course Equivalent: HIS 3401. Attribute: Upper Division. Class not open to freshmen.

**THEO 3302 REFORMATION AND MODERN CHRISTIANITY (5)** A survey of European and Latin American Christian history from the 16th century to the present. Attention will be given to the Protestant and Catholic reformations of the 16th century; to the colonization and evangelization of the Americas in the 16th and following centuries; to the rationalism, orthodoxy and pietism of the 17th century; to the revivalism of the 18th century; to the historicism and liberalism in the 19th century; and to the emergence of neo-orthodoxy, the ecumenical movement and liberation theologies in the 20th century. Course Equivalent: HIS 3402. Attribute: Upper Division. Class not open to freshmen.

**THEO 3303 CHRISTIANITY IN AMERICA (5)** A survey of the development of American Christian thought and institutions from the 17th century to the present. Representative works by major thinkers of different historical periods and denominational affiliations will be studied. Particular attention will be given to the contemporary religious landscape, that is, to the varieties of American church life today. Attribute: Upper Division. Class not open to freshmen.

**THEO 3305 TOPICS IN THE HISTORY OF CHRISTIANITY (3-5)** Specific focus varies. Current topic: "Western Spirituality: Heretics, Mystics and Monks" (3). Explores various spiritual movements from the early church to the 16th century, with special attention to their contributions to mainstream Catholic and Protestant traditions. May be repeated for credit up to 10 credits. Course Equivalent: HIS 3405. Attribute: Upper Division. Class not open to freshmen.

**THEO 3631 WOMEN IN CHRISTIANITY (5)** This course integrates church history, biblical study and Christian theology to develop students' understanding of women in Christianity. The class will include a survey of women in the Christian tradition, including women of faith in the Bible and in church history. Students will gain understanding of the philosophical and cultural contexts of biblical references to women and will probe the biblical texts to gain insight into their meaning and their implications for the present. Contributions selected women have made to the church and the world will be

highlighted. Theology, ministry style, community and family dynamics, and challenges faced by women today will be discussed. This course may be taken toward the women's studies minor. Attribute: Upper Division. Class not open to freshmen.

### Christian Doctrine

**THEO 3401 EXPLORING CHRISTIAN DOCTRINE (5)** Prerequisite: UFDN 3000 or 3100. In-depth study of selected areas of Christian doctrine. Deepens awareness of the biblical and practical roots of Christian doctrinal reflection as well as of the doctrinal consensus and diversity in the Christian tradition. Specific doctrinal focus will vary by quarter. Doctrinal areas regularly offered include God the Father, Christology, Holy Spirit, theological anthropology, church and sacraments, and eschatology. May be repeated for credit two times. Attribute: Upper Division.

**THEO 3501 CHRISTIAN ETHICS (5)** Prerequisite: UFDN 3000 or 3100. Explores the question "What does it mean to lead a Christian life?" Discusses the practice of those spiritual disciplines and the cultivation of those moral virtues that properly characterize a follower of Jesus. Addresses several moral issues of special concern to the contemporary church, such as gender relations, sexual conduct and the accumulation of wealth. Attribute: Upper Division.

**THEO 3510 CHRISTIANITY AND SOCIETY (5)** Prerequisite: UFDN 3000 or 3100. Focuses on the public dimension of Christian life. How ought Christians to engage their culture? How do we insure that such engagement is truly Christian? Several contemporary social issues will be considered. Attribute: Upper Division.

**THEO 4401 REPRESENTATIVE THEOLOGICALS (5)** Prerequisite: UFDN 3000 or 3100. Considers the work of a major Christian theologian or group of theologians who share a distinctive theological approach. Provides models of the "craft" of theological activity and probes the distinctive emphases of various Christian traditions and theological movements. Examples of theologians considered include Augustine, Karl Barth, Dietrich Bonhoeffer, Jonathan Edwards, John Wesley, the Eastern Christian fathers, liberation theologians and women theologians. May be repeated for credit two times. Attribute: Upper Division.

**THEO 4495 CHRISTIAN THEOLOGY CAPSTONE (5)** Prerequisite: UFDN 3000 or 3100. Intensive study of a topic of contemporary theological interest. Intentionally incorporates the breadth of the theological disciplines in addressing the topic. Some representative topics include Christianity and ecology, Christianity and science, Christian theology and the imagination, and theological aesthetics. May be repeated for credit two times. Attribute: Upper Division.

### Global and Urban Ministries

**THEO 2620 INTRODUCTION TO GLOBAL AND URBAN MINISTRY (5)** This course provides an overview of the city in contemporary society. It introduces the student to the vocabulary, strategies, models and theological foundations for urban ministry.

**THEO 3601 MULTI-ETHNIC MINISTRIES (3)** Studies how the growing multiplicity of cultures affects the fabric of America, provides a theological framework for understanding ethnic differences, prepares students to minister among people different from themselves and proposes a Christian response to multiculturalism. Attribute: Upper Division.

**THEO 3610 LIVING IN ANOTHER CULTURE (3)** Addresses practical issues of coping, bonding, lifestyle, family, religions, medical and economic development, evangelism, worship and team building in another culture. Required for summer ministry teams. Attribute: Upper Division.

**THEO 3630 FIELD SERVICE METHODS (3)** Half of this course is laboratory work in cross-cultural ministry in Seattle. The other half of the course is theoretical classroom analysis, research and critique, applying missiological knowledge to personal mission experience. Attribute: Upper Division.

**THEO 3640 CROSS-CULTURAL COMMUNICATION (3)** This course gives students tools for systematic analysis and theological critique of a culture and empathetic encounter with other peoples. Texts will include case studies and novels. The class will explore culturally contextualized community development, health care, agriculture, microbusiness, evangelism, leadership development, music, ethnotheology and skills for coping with culture stress. Attribute: Upper Division.

**THEO 4602 ISSUES IN LATIN AMERICAN CHRISTIANITY (3)** This course will deal with contemporary issues facing Latin American Christians, with attention to history, theology, ethnicities, ministry among the poor and contextualized Christian witness. Protestants will be emphasized, but Catholics also will be included. Ministry issues will include leadership training and youth. Hispanics in the Pacific Northwest will be a focus. Field experience in Spanish-speaking churches in Metro Seattle will be part of the class. Offered alternate years. Attribute: Upper Division.

**THEO 4603 ISSUES IN ASIAN/AFRICAN CHRISTIANITY (3)** This course will deal with contemporary issues facing Asian and African Christians, with attention to history, theology, ethnicities, ministry among the poor and contextualized Christian witness. Field experience in African and Asian churches in Metro Seattle will be part of the class. Offered alternate years. Attribute: Upper Division.

**THEO 4610 WORLD RELIGIONS (3)** Primal religions: Islam, Buddhism, Hinduism, Confucianism, Taoism and Shinto are explored. Each faith is set in philosophical and cultural context. Applications for effective Christian witness are developed, showing appreciation for the faiths and contrasting with them. Common elements that Christianity share with each faith are suggested. Apologetic bases for contrasting Christian faith with others are delineated. Attribute: Upper Division.

**THEO 4620 INTERPRETING THE CITY (5)** Prerequisites: THEO 2620 and THEO 3630, 3640 or 4610. This course studies the complexity of 21st-century urban culture, including systems such as health care, media, social services, politics, education, entertainment, business, as well as the influence of various ethnic, religious, and social groups and their values. Students will identify their own cultural biases and assumptions, and develop a personal theology of urban ministry. This course is an inter-disciplinary course utilizing theology and the social sciences. Attribute: Upper Division.

### Educational Ministries

**THEO 2710 FOUNDATIONS FOR EDUCATIONAL MINISTRY (5)** Introduces students to the definition, scope and nature of the church's teaching ministry. The task of educational ministry is designing teaching/learning experiences and environments that facilitate Christian formation. Students will examine the theological, theological, historical, philosophical and psychosocial foundations for educational ministry.

**THEO 2720 CURRICULUM AND INSTRUCTION (5)** Provides a systematic approach to curriculum development and instructional theory for Christian education including theological, sociological and psychological concerns at each age level. Emphasis is on effective Bible teaching.

**THEO 2900 FOUNDATIONS FOR LEADERSHIP (5)** Registration Approval: Instructor. This course will provide students with the opportunity to understand the relationship of Christian spirituality to personal integrity, interpersonal relationships and the leadership of all organizations. Students will explore biblical examples of leadership and examine their own motivation and approaches to leadership. Special emphasis will be placed on practical skills in personal management, scheduling, prioritization, as well as the leadership of committees. Class not open to freshmen.

**THEO 3710 HUMAN DEVELOPMENT AND CHRISTIAN FAITH (5)** Studies the integration of theology and life-span psychology in an attempt to understand the process of becoming and being Christian. Stage theories of development, human religious experience and metaphorical and narrative theology are addressed. Attribute: Upper Division.

**THEO 4710 CURRENT ISSUES IN EDUCATIONAL MINISTRY (3)** Current topics of interest that relate directly to educational ministry within and beyond the local church. Each year the topics change but will be relevant to current educational ministry issues. Attributes: Upper Division and Writing Course. Class open to Christian theology and educational ministry majors.

**THEO 4720 LEADERSHIP IN EDUCATIONAL MINISTRIES (5)** Prerequisite: THEO 2710. A study of leadership from four perspectives: theological issues in leadership; understanding oneself as a leader; leadership behavior and skills; and leadership in a team context. The course focuses on preparation for a leadership position in educational ministry. Attributes: Upper Division and Writing Course.

**THEO 4731 CHILD DEVELOPMENT AND EDUCATIONAL MINISTRY (3)** Prerequisites: THEO 2710, 3710. Studies age-group characteristics, needs and interests of children with special emphasis on program development and teaching techniques related to program ideas. Attribute: Upper Division.

**THEO 4732 ADOLESCENT DEVELOPMENT AND EDUCATIONAL MINISTRY (3)** Addresses the issues of adolescent development including personal identity, peers, culture and family. Attempts to translate theory of development into the practice of youth ministry. Attribute: Upper Division.

**THEO 4733 ADULT DEVELOPMENT AND EDUCATIONAL MINISTRY (3)** Prerequisite: THEO 2710, 3710. Studies the various periods of adulthood from the standpoint of characteristics, needs, aims, material and methods of teaching. Emphasizes the teaching process for adults in terms of andragogy (a shared approach to learning) as opposed to pedagogy. Attribute: Upper Division.

**THEO 4940 INTERNSHIP (1-15)** Registration Approval: Intern Learning Contract Required. Prerequisites: 25 credits in theology coursework at SPU; current enrollment as a major or minor in the School of Theology. May be repeated for credit up to 15 credits. Attribute: Upper Division.

### Faculty

**Miriam Adeney**, Associate Professor of Global and Urban Ministries; B.A., Wheaton College, 1967; M.A., Syracuse University, 1969; Ph.D., Washington State University, 1980. At SPU since 1976. (Continuing part-time.)

**Kerry Dearborn**, Associate Professor of Theology; B.A., Whitman College, 1972; M.A., Fuller Theological Seminary, 1988; Ph.D., University of Aberdeen, U.K., 1994. At SPU since 1994.

**Tim Dearborn**, Associate Professor of Theology; Dean of the Chapel; B.A., Whitman College, 1972; M.T.S., Harvard Divinity School, 1974; Th.M., Fuller Seminary, 1978; Ph.D., University of Aberdeen, U.K., 1988. At SPU since 1999.

**Robert R. Drov Dahl**, Professor of Christian Ministries and Education; B.A., Seattle Pacific College, 1971; M.A., Wheaton Graduate School, 1974; Ph.D., Michigan State University, 1980. At SPU since 1978.

**Douglas Koskela**, Instructor in Theology; B.A., Seattle Pacific University, 1995; M.Div., Duke Divinity School, 1998; doctoral candidate, Southern Methodist University. At SPU since 2001.

**Eugene E. Lemcio**, Professor of New Testament; B.S., Houghton College, 1964; M.Div., Asbury Theological Seminary, 1968; Ph.D., Trinity College, Cambridge University, 1975. At SPU since 1974.

**John R. Levison**, Professor of New Testament; B.A., Wheaton College, 1978; B.A., Cambridge University, 1983; M.A., Cambridge University, 1983; Ph.D., Duke University, 1985. At SPU since 2001.

**Randy Maddox**, Paul T. Walls Professor of Wesleyan Theology; B.A., Northwest Nazarene College, 1975; M.Div., Nazarene Theological Seminary, 1978; Ph.D., Emory University, 1982. At SPU since 1998.

**Dave Nienhuis**, Instructor in Theology; B.A., Seattle Pacific University, 1990; M.Div., Duke Divinity School, 1996. At SPU since 1999, now studying at the University of Aberdeen, Scotland.

**Delia Nüesch-Oliver**, Associate Professor of Global and Urban Ministries; B.S., Mercy College, 1983; M.A., Long Island University, 1984; Ph.D., Syracuse University, 1997. At SPU since 1998.

## Women's Studies

**Jennifer Maier**, Director

As an institution that centers its mission in the historical Christian faith, Seattle Pacific University affirms that women are created in God's image, redeemed by Christ and called to lives of scholarship, service and leadership. Prompted by that affirmation, SPU offers an interdisciplinary women's studies minor and welcomes both male and female students to pursue it. The primary goals of the women's studies minor are (1) to establish in the campus community an awareness of the overlooked values, neglected contributions and marginalized perspectives of women; (2) to assure that students have the time and opportunity to explore women's issues fully in light of the Christian faith; and (3) to provide resources for incorporating women's issues and contributions into other pertinent disciplinary courses. The women's studies minor provides a course of study that stretches across disciplines, encouraging interdisciplinary thought and scholarship. It teaches skills of critical analysis, problem solving and value judgments. Because of its adaptable course requirements and final project, the minor can be designed in such a way as to complement majors in areas such as sociology, psychology, religion, history, communication, English, foreign languages, political science, family and consumer sciences, and business.

### Admission to the Women's Studies Minor

Applicants for a minor in women's studies must have (1) sophomore standing; (2) a cumulative GPA of 2.5 or higher in all college work applicable to the B.A.; and (3) a grade of at least a "C-" in WST/SOC 2350 Introduction to Women's Studies. Application can be made at either the English or the sociology offices.

### Requirements for the Women's Studies Minor

The women's studies minor consists of at least 30 credits, of which 15 must be upper division. Course requirements include WST 2350 Introduction to Women's Studies, at least one course from each of four core areas and a final

**Priscilla Pope-Levison**, Professor of Theology, B.Mus., DePauw University, 1980; M.Div., Duke University, 1983; Ph.D., University of St. Andrews, 1989. At SPU since 2001.

**Frank A. Spina**, Professor of Old Testament, B.A., Greenville College, 1965; M.Div., Asbury Theological Seminary, 1968; M.A., University of Michigan, 1970; Ph.D., 1977. At SPU since 1973.

**Richard Steele**, Associate Professor of Moral and Historical Theology, B.A., Haverford College, 1974; M.Div., Yale Divinity School, 1978; Ph.D., Marquette University, 1990. At SPU since 1994.

**Dwight W. Van Winkle**, Professor of Old Testament, B.A., Stephen F. Austin State University, 1974; Th.M., Dallas Theological Seminary, 1978; Ph.D., Clare College, Cambridge University, England, 1983. At SPU since 1981.

**Robert W. Wall**, Professor of the Christian Scriptures, B.A., Valparaiso University, 1969; Th.M., Dallas Theological Seminary, 1973; Th.D., 1978. Additional graduate study at Perkins School of Theology, Southern Methodist University. At SPU since 1978.

independent study that consists of an integrative paper, project or internship.

### Program Requirements

WST 2350 Introduction to Women's Studies ..... 5  
WST 4940 Internship  
or 4960 Independent Project ..... 3-5

### Institutions and Society

Select at least one course from the following:

ANT 2250 Cultural Anthropology (5)  
FCS/SOC 2252 Marriage and the Family (5)  
FCS 3875 Clothing and Human Behavior (3)  
SOC 3215 Social Inequality (5)  
SOC 3270 Socialization (5)  
SOC 4210 Women in the Third World (5)  
SOC 4252 Sociology of Family (5)  
SOC 4910 Family Violence Seminar (3) ..... 3-5

### Literature and the Arts

Select at least one course from the following:

ENG 2234 Literature by Women (5)  
ENG 3334 American Ethnic Literature (5)  
ENG 3338 Contemporary Fiction (5)  
ENG 3351 Victorian Poetry and Fiction (5)  
FCS 3870 History of Costume (5)  
FRE 3205 Topics in French Literature: Heroines (5) ..... 5

### Psychological and Human Development

Select at least one course from the following:

HSC 3035 Human Sexuality (5)  
FCS 3320 Maternal and Child Nutrition (3)  
PSY 4910 Psychobiology of Women (3) ..... 3-5

### Religion and Culture

Select at least one course from the following:

HIS 3405/THEO 3305 Western Spirituality: Heretics,  
Mystics and Monks (5)  
THEO 3303 Christianity in America (5)  
THEO 3631 Women in Christianity (5) ..... 3-5  
Electives from any courses listed above as needed ..... 3-5

**Total** ..... **30**

*Note: Not all courses are offered every year. Check the Time Schedule for current offerings. Information concerning additional courses that will fulfill requirements for the minor is available from the women's studies' director.*

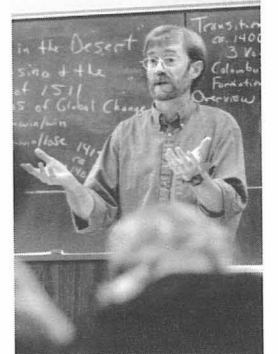
### Women's Studies Courses

**WST 2350 INTRODUCTION TO WOMEN'S STUDIES (5)** This course looks at women's autobiographies, introduces theoretical approaches to gender and offers an interdisciplinary survey of women's issues relating to such areas as the church, spirituality, economics, health, vocation, social and political activity, and literary and artistic expression.

**WST 4940 INTERNSHIP (1-5)** Registration Approval: Intern Learning Contract Req. A final, independent project in women's studies that consists of an internship involving some form of written reflection and assessment. Attribute: Upper Division.

**WST 4960 INDEPENDENT PROJECT (1-5)** Registration Approval: Instructor. A final, independent project in women's studies that consists of an individual research project, investigating some topic in depth and culminating in an integrative paper that demonstrates interdisciplinary scholarship and independent thought. Attribute: Upper Division.

## Additional Faculty



# Additional Faculty

(Including graduate faculty, library faculty, part-time lecturers and emeriti faculty.)

**Roy Barsness**, Associate Professor of Graduate Psychology; Director of Clinical Training; B.S., Minot State University, 1975; M.A., Fuller Theological Seminary, 1981; Ph.D., California School of Professional Psychology, Los Angeles, 1988. At SPU since 1990.

**Nathan Brown**, Associate Professor of Graduate Psychology, Clinical and Consulting Psychologist; Dean of the School of Psychology, Family and Community; B.A., University of Maryland, 1977; M.A., Fuller Theological Seminary, 1984; Ph.D., Fuller Graduate School of Psychology, 1985. At SPU since 1994.

**Ray Doerksen**, Director of Learning Resources; B.A., Tennessee Temple University, 1966; M.A., Michigan State University, 1967; M.L.S., University of Western Ontario, 1970; M.A., Western Conservative Baptist Seminary, 1979. At SPU since 1997.

**Gary R. Fick**, Professor and Library Specialist for Natural Sciences; B.A., State University of New York-Buffalo, 1971; M.S., 1973; M.L.S., 1974; M.A., University of Washington, 1983. At SPU since 1974.

**Jeffrey T. Fouts**, Professor of Education; Director of Washington School Research Center; B.S., Oklahoma Christian College, 1971; M.A., Pepperdine University, 1973; M.S., Portland State University, 1979; Ed.D., 1983. At SPU since 1984.

**Claudia Grauf-Grounds**, Chair and Associate Professor of Marriage and Family Therapy; B.A., Stanford University, 1976; M.A., Fuller Theological Seminary, 1978; Ph.D., University of Southern California, 1988. At SPU since 2000.

**D. Patrick Hopp**, Assistant Professor of Graduate Psychology, Clinical Faculty; B.S., University of Washington, 1991; M.A., Fuller Graduate School of Psychology, 1994 and 1996; Ph.D., 1998. At SPU since 2000.

**Don J. MacDonald**, Professor of Graduate Psychology and Marriage and Family Therapy; B.A., University of Texas, 1972; M.S., Indiana University, 1973; Ph.D., Michigan State University, 1984. At SPU since 1980.

**Aileen Maddox**, Library Specialist for the Social Sciences and Business; B.A., Northwest Nazarene College, 1975; M.L.S., University of Iowa, 1989. At SPU since 1998.

**Michelle Naden**, Associate Professor of Marriage and Family Therapy; Director of Clinical Training; B.S., Pacific Union College, 1980; M.S., Loma Linda University, 1984; M.A., University of Southern California, 1987; Ph.D., University of Southern California, 1989. At SPU since 1993.

**Tina Sellers**, Instructor of Marriage and Family Therapy; B.A., San Diego State University, 1982; M.S., Seattle Pacific University, 1991. At SPU since 1992.

**Kathy Shelby-Martin**, Assistant Professor and Library Specialist for Education, Music and Counseling; B.M., University of Massachusetts, 1983; M.L.S., Indiana University, 1985; M.S., University of Oregon, 1992. At SPU since 1992.

**John Thoburn**, Associate Professor of Graduate Psychology and Marriage and Family Therapy; Director of Clinical Services; B.A., University of Kansas, 1976; M.Div., Fuller Theological Seminary, 1984; Ph.D., Fuller Graduate School of Psychology, 1991. At SPU since 1996.

**David Wicks**, Assistant Professor; Instructional Design Specialist and Coordinator for Technology and Learning; B.S., Missouri Western State College, 1986; M.S., Northwest Missouri State University, 1990. At SPU since 1998.

**Beverly Jo Wilson**, Assistant Professor of Graduate Psychology; B.A., California State University-Fresno, 1985; M.A., California State University-Fresno, 1987; Ph.D., University of Washington, 1994. At SPU since 1998.

## Part-Time Lecturers

**Marshall Bradley**, Business Law; B.A., University of Washington, 1980; J.D., 1984. At SPU since 1998.

**Roger L. Cox**, Information Systems Management; B.S., B.A., Olivet Nazarene University, 1969; M.S., Indiana University, 1972; B.S., USAF Technical Training Center, 1975; M.S., University of Southern Mississippi, 1977. At SPU since 1980.

**Ron DeVries**, Graduate Psychology; B.A., Calvin College, 1987; M.A., Fuller Theological Seminary, 1992; Ph.D., Fuller Graduate School of Psychology, 1996. At SPU since 1999.

**Margaret Diddams**, Assistant Professor of Graduate Psychology; Psychologist; B.A., Wheaton College, 1982; M.A., New York University, 1988; Ph.D., New York University, 1994. At SPU since 1993.

**Donald S. Doty**, Managerial Communication; B.S., California Polytechnic State University, 1980; M.B.A., 1982. At SPU since 1999.

**Daniel M. Eernisse**, Business Ethics; B.A., University of Washington, 1985; M.Div., Regent College, 1989. At SPU since 1992.

**Char Forslund**, Christian Education; B.A., Seattle Pacific College, 1964. At SPU since 1991.

**Robin Gray**, Marriage and Family Therapy; B.A., University of Washington, 1978; M.S., University of Washington, 1981; Ph.D., Florida State University, 1992. At SPU since 1995.

**Caprice D. Hollins**, Marriage and Family Therapy; B.A., Seattle University, 1990; M.A., California School of Professional Psychology, 1996; Ph.D., California School of Professional Psychology, 1998. At SPU since 1999.

**John E. Lastelic**, Physics and Engineering; B.S., University of Kansas, 1965; M.S., University of LaVerne, 1978. At SPU since 1994.

**Nancy Buffington Lucks**, Managerial Communication; B.A., Antioch Seattle University, 1989; Ph.D., Union Institute, 1992. At SPU since 1984.

**Guy Oram**, Graduate Psychology and Clinical Psychologist; B.A., Whitman College, 1987; M.A., University of Massachusetts, 1990; Ph.D., University of Virginia, 1994. At SPU since 1999.

**Jonathan Parle**, Electrical Engineering; B.S., University of California 1968; M.S., University of California, 1970. At SPU since 1989.

**Wayne Robertson**, Clinical Professor in Information Systems Management; B.S., California State University, 1984; M.S., 1986. At SPU since 1999.

**Ruby Takushi**, Graduate Psychology; B.A., University of Hawaii at Manoa, 1984; M.A., Fuller Theological Seminary, 1989; Ph.D., Fuller Graduate School of Psychology, 1990. At SPU since 1998.

**Tom Tsagalaskis**, Marriage and Family Therapy; B.S., San Jose State University, 1982; M.Div., Holy Cross School of Theology, 1986; M.S., Seattle Pacific University, 1999. At SPU since 1993.

**John van Keppel**, Missions and Cross-Cultural Communications; B.A., University of Kansas, 1980; M.Div., Regent College, 1990; Ed.D., Seattle Pacific University, 2000. At SPU since 1990.

**Linda Wagner**, Reading Specialist; B.A., Central Washington, 1970; M.Ed., Seattle Pacific University, 1992. At SPU since 1982.

**James D. Winship**, Business Law; B.A., Northwestern University, 1970; J.D., 1973; M.B.A., University of Chicago, 1976. At SPU since 1999.

## Emeriti

**Roger Anderson**, Physics; B.S., University of Washington, 1951; Ph.D., 1961; National Science Foundation Science Faculty Fellow, University of Illinois, 1968-69; Interdisciplinary Post-Doctoral Fellow, Duke University, 1972-73; Senior Scientist at Gulf Research, 1978. At SPU 1961-97. Emeritus since 1997.

**Arthur Leon Arksey**, English; B.A., Greenville College, 1948; M.A., University of Illinois, 1952. At SPU 1959-92. Emeritus since 1992.

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**R. Reed Boyce**, Urban and Regional Studies; B.S., University of Utah, 1956; M.S., 1957; Ph.D., University of Washington, 1961. At SPU 1976-97. Emeritus since 1997.

**Janet Leslie Blumberg**, English; B.A., University of Washington, 1968; M.A., 1969; Ph.D., Harvard University, 1976; At SPU 1974-2001. Emerita since 2001.

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**C. Melvin Foreman**, Sociology; B.A., Seattle Pacific College, 1942; M.Th. Biblical Seminary in New York City, 1945; M.A., University of Washington, 1955; Ph.D., 1957. At SPU 1948-52 and 1953-85. Emeritus since 1985.

**Fan Mayhall Gates**, English; B.A., Baylor University, 1956; M.A., Mississippi State University, 1963. At SPU since 1963. Emerita since 1999.

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**Marcia Reed**, *Part-Time Bibliographic Specialist in Fine and Performing Arts*; B.A., University of Washington, 1951; M.Libr., 1953. At SPU 1961-92. Emerita since 1991.

**Alice M. Reid**, *Biblical Studies*; B.A., Wheaton College, 1934; M.R.E., New York Theological Seminary, 1943. At SPU 1960-78. Emerita since 1978.

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 B.A., Westmont College, 1983; M.A., Washington State University, 1986; 1990. At SPU since 1993.

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 Dean, School of Business and Economics  
 Associate Professor of Law and Ethics  
 B.A., University of California-Berkeley, 1976; J.D., Yale Law School, 1979. At SPU since 2001.

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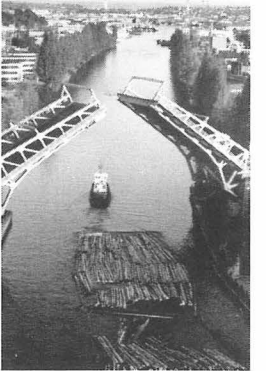
# Alumni Association

The Seattle Pacific University Alumni Association is an organization of former students and graduates. The current executive board has 21 positions, nine of which are elected on rotation each year. The Young Alumni Council works in concert with the Alumni Board. Four times a year, Seattle Pacific University publishes and sends free to alumni the tabloid newspaper, *Response*. All alumni are urged to keep the Association informed of changes in address and employment, births, marriages and any other information of interest to their fellow members. The Alumni Center is located at 316 W. Nickerson. Area meetings are held throughout the nation under the leadership of area alumni representatives. There are also many local events, including Casey Alumni Retreat, Homecoming and reunions. The Association assists the University through referral of prospective students and campus volunteer services. Alumni participate in "Phonathon" (the annual University fundraising drive) for the benefit of SPU. The Alumni staff is employed by the University for the coordination of the Association's activities.

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Calendar, Campus Map  
and Index



# University Calendar 2002-2003

## Autumn Quarter 2002

Labor Day (Holiday)	Monday, September 2
Class Instruction Begins	Monday, September 30
Waitlist Ends	Tuesday, October 1
Last Day to Register or Add Courses*, to Register Without Late Fee, or to Apply for Audit	Friday, October 4
Last Day to Apply for Pass/No Credit, Independent Study and Internships and Individual Instruction	Friday, October 11
Student Reading/Faculty In-Service Day	Thursday, October 17
Last Day to Withdraw From Courses	Friday, November 8
Veterans Day (Holiday)	Monday, November 11
Winter Registration for Admitted Students Currently in Attendance Begins	Monday, November 18
Winter Registration for Graduate or New Admits Begins	Monday, November 25
Thanksgiving (Holiday)	Thu.-Fri., November 28-29
Winter Registration for Non-Admitted Students Begins	Monday, December 2
Last Class for Day Classes	Monday, December 9
Final Examinations or Last Class for All Evening Classes	Mon.-Wed., December 9-11
Final Examinations for All Day Classes	Mon.-Wed., December 9-11
Grades Due	Monday, December 20

## Winter Quarter 2003

Class Instruction Begins	Monday, January 6
Waitlist Ends	Tuesday, January 7
Last Day to Register or Add Courses*, to Register Without Late Fee, or to Apply for Audit	Friday, January 10
Last Day to Apply for Pass/No Credit, Independent Study and Internships and Individual Instruction	Friday, January 17
Martin Luther King Jr. Day (Holiday)†	Monday, January 20
Last Day to Withdraw From Courses	Friday, February 14
Presidents Day (Holiday)†	Monday, February 17
Spring Registration for Admitted Students Currently in Attendance Begins	Monday, February 24
Spring Registration for Graduate or New Admits Begins	Monday, March 3
Spring Registration for Non-Admitted Students Begins	Monday, March 10
Last Class for Day Classes	Tuesday, March 14
Final Examinations or Last Class for All Evening Classes	Mon.-Wed., March 17-19
Final Examination for All Day Classes	Mon.-Wed., March 17-19
Spring Vacation	March 20-28
Grades Due	Thursday, March 27

## Spring Quarter 2003

Class Instruction Begins	Monday, March 31
Waitlist Ends	Tuesday, April 1
Last Day to Register or Add Courses*, to Register Without Late Fee, or to Apply for Audit	Friday, April 4
Last Day to Apply for Pass/No Credit, Independent Study and Internships and Individual Instruction	Friday, April 11
Summer Registration Begins	Tuesday, April 15
Good Friday (Half-Day Holiday)	Friday, April 18
Last Day to Withdraw From Courses	Friday, May 9
Autumn Registration for Admitted Students Currently in Attendance Begins	Monday, May 12
Autumn Registration for New Admits Begins (PREMIERE)	Saturday, May 17
Autumn Registration for Graduate Students Begins	Monday, May 19
Memorial Day (Holiday)	Monday, May 26
Autumn Registration for Non-Admitted Students Begins	Tuesday, May 27
Last Class for Day Classes	Friday, May 30
Student Reading/Faculty In-Service Day	Monday, June 2
Final Examinations or Last Class for All Evening Classes	Mon.-Thu., June 2-5
Final Examination for All Day Classes	Tue.-Thu., June 3-5
Ivy Cutting	Friday, June 6
Commencement	Saturday, June 7
Grades Due	Monday, June 16

## Summer Quarter 2003

Summer Session Begins	Monday, June 9
Full Payment Required at Time of Summer Registration Begins	Tuesday, July 1
Independence Day (Holiday)	Friday, July 4
Grades Due	Friday, September 12

Evening Classes include all classes that begin after 4:30 p.m. The last day of class is the week prior to the scheduled final.

\*Evening/weekend students may register through the first class session or through the fifth day (whichever is later). Late fees will be charged if registration occurs after the fifth day of the instructional quarter. Students must process a registration petition to be considered for later registration with supporting statements from each instructor.

†Monday evening classes will meet on Martin Luther King Jr. Day and Presidents Day in order to have the required class sessions.

# Seattle Pacific University Campus

## Buildings

- Alexander Hall (1) D4
- Alumni Center (2) D2
- American Cultural Exchange (54) D2
- Art Center (3) F3
- Bank (4) D2
- Beagle Hall (5) D4
- Bertona Classrooms (65) E3
- Bookstore (6) D2
- Center for Professional Development (67) C2
- Crawford Music Building (7) D4
- Credit Union (55) E4
- Demaray Hall (DH) (8) B2
- First Free Methodist Church (9) E4
- Gwinn Commons (10) B3
- Hillford House (Private) (12) A4
- Human Resources Building (19) D2
- Library (14) B3
- Marston Hall (37) C3
- Martin Square (64) B3
- McKenna Hall (15) C2
- McKinley Hall (16) D4
- Miller Science Learning Center (MSLC) (18) D1
- Peterson Hall (20) C3
- Royal Brougham Pavilion (22) E2
- Science Building (29) (Opens 9/03) C3
- Student Union Building (SUB) (24) D3
- Tiffany Loop (11) D3
- Two West Dravus (26) F4
- Walls Advancement Center (23) F3
- Watson Hall (40) C3
- Weter Hall (28) B3
- University Services Building (29) B4

## Residence Halls/Apartments

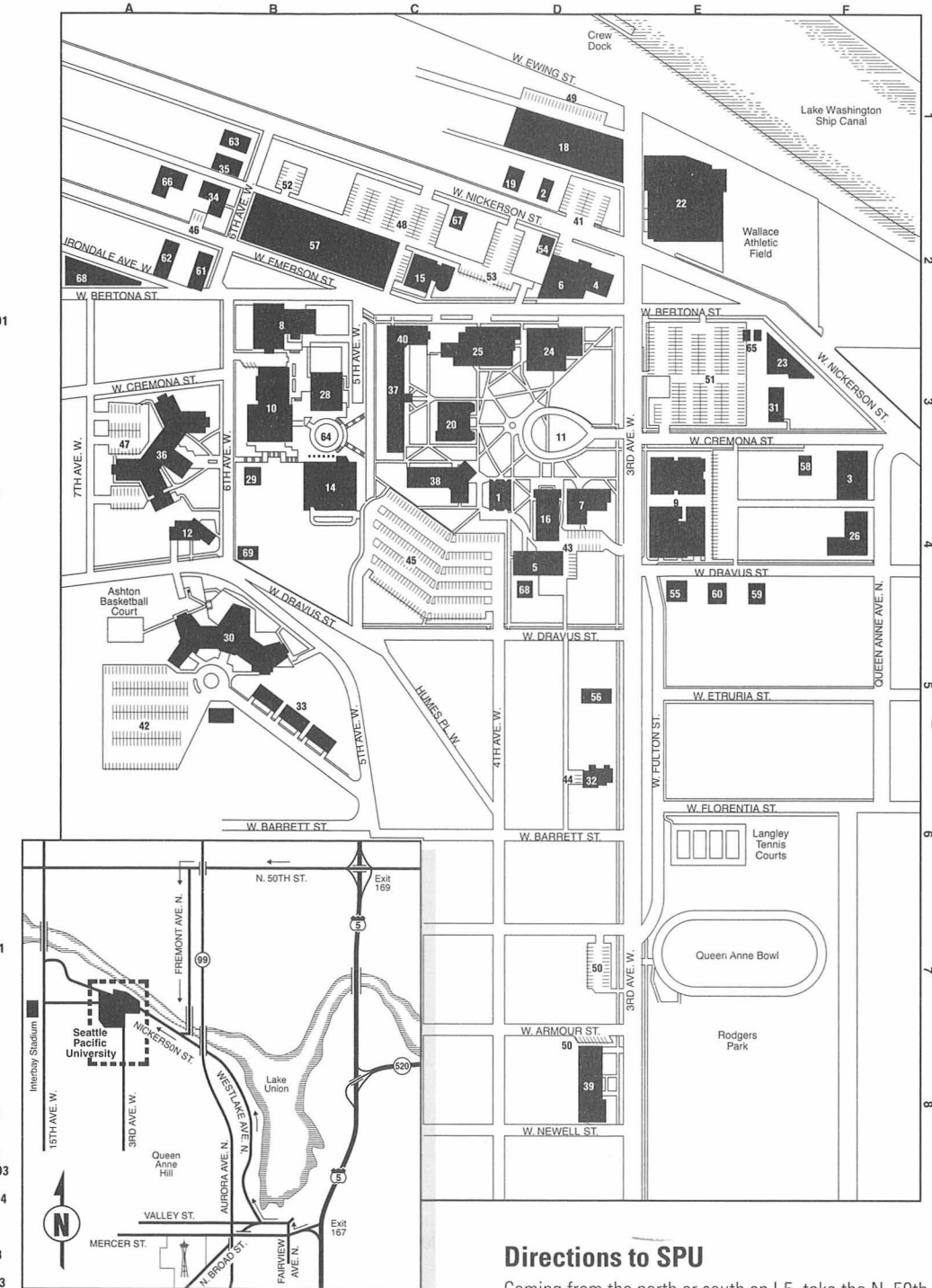
- Ashton Hall (30) B5
- Bailey Apartments (56) D5
- Davis Apartments (32) D6
- Etruria Duplexes (33) B5
- Emerson Hall (57) B2
- Falcon Apartments (34) B2
- Falcon Duplex (35) B2
- Falcon Fourplex (63) B1
- Hill Hall (36) A3
- Moyer Hall (38) C3
- Robbins Hall (39) D8
- 650 W. Bertona Apartments (68) A2
- 34 W. Cremona Apartments (31) F3
- 35 W. Cremona Apartments (58) F3
- 37 W. Dravus Apartments (59) E4
- 49 W. Dravus Apartments (60) E4
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- 608 W. Emerson Apartments (66) A2

## Parking Lots

- Alumni Center (41) D2
- Ashton (42) A5
- Crawford (43) D4
- Davis (44) D5
- Dravus (45) C4
- Emerson Underground (57) B2
- Falcon Apartments (46) B2
- Hill (47) A3
- McKenna (48) C2
- Miller Science Learning Center (MSLC) (49) D1
- Robbins (50) D7
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- Sixth Avenue West (52) B2
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## Offices/Services

- Academic Affairs, DH 210 (8) B2
- Admissions (Undergraduate), DH 120 (8) B2
- Alumni (2) D2
- Art Center Gallery (3) F3
- Associated Students, Main Level SUB (24) D3
- Bach Theatre, McKinley (16) D4
- Business and Finance, DH 250 (8) B2
- Campus Ministries, Second Floor SUB (24) D3
- Career Development, Second Floor SUB (24) D3
- Center For Learning, Lower Moyer (38) C3
- College of Arts and Sciences, Alexander (1) D4
- Computer and Information Systems, Lower Marston (37) C3
- Controller, Upper Weter (28) B3
- Conference Services, 3220 Sixth West (29) B3
- Continuing Studies, DH 350 (8) B2
- Counseling Center, Main Level Watson (40) C3
- Credit Union (55) E4
- Development (23) F3
- Disabled Student Services, Lower Moyer (38) C3
- Falcon's Landing, Main Level SUB (24) D3
- Health Services, Main Level Watson (40) C3
- Human Resources (19) D2
- Image Journal, Second Watson (40) C3
- KSPU Radio, Main Level Weter (28) B3
- Landscape (23) E3
- Mailing Services, Lower Marston (37) C3
- Maintenance and Storage, Two West Dravus (26) F4
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- Plant Services, Two West Dravus (26) F4
- President's Office, DH 210 (8) B2
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- Residence Life, 3220 Sixth West (29) B3
- Safety and Security, 601 W. Emerson (61) A2



## Directions to SPU

Coming from the north or south on I-5, take the N. 50th Street Exit (#169) marked "Seattle Pacific University." Turn west onto N. 50th and proceed to Fremont Avenue N. Turn left onto Fremont and cross the Fremont Bridge. Turn right immediately after the bridge onto Florentia Street. Go one block and turn right onto Nickerson Street. Continue on Nickerson to Third Avenue W. and turn left. You are now on campus. Remain on Third for three blocks, then turn right onto W. Dravus Street and right again into the tiered parking lot (#45 on the map).

- School of Business and Economics, McKenna (15) C2
- School of Education, Peterson (20) C3
- School of Health Sciences, Third Marston (37) C3
- School of Psychology, Family and Community, First Marston (37) C3
- Seattle Pacific Foundation, Upper Weter (28) B3
- Student Academic Services, DH 120 (8) B2
- Student Financial Services, DH 10 (8) B2
- Student Life, Second Floor SUB (24) D3
- Student Publications, 3210 Fourth West (68) D4
- SUB Student Lounge and Lockers, Lower SUB (24) D3
- Transfer Student Services, DH 120 (8) B2
- University Advancement, DH 220 (8) B2
- University Communications, Lower Weter (28) B3
- University Relations, DH 253 (8) B2
- University Services, 3220 Sixth West (29) B4
- Weter Student Lounge, Main Level Weter (28) B3

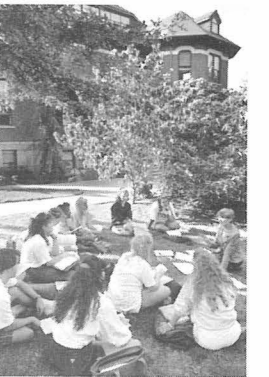
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# How to Apply

Use these checklists whether you're entering directly from high school or transferring from another institution. For more details about the transfer process, see SPU's brochure, "The Transfer Student Guide." Application forms are located on the pages following.

Once you've applied to Seattle Pacific University, what happens next? Turn the page for information about what you can expect.

Seattle Pacific University welcomes your application for admission.

Your application and each of your supporting credentials will be carefully reviewed. Since each applicant to SPU is evaluated on his or her individual merits, it is extremely important that these materials present a full and accurate record of your academic and personal qualifications.

Questions? If you need assistance in completing the admission application process, please call the Office of Admissions at (206) 281-2021 or (800) 366-3344 toll-free. If you have questions about financing your education, please call Student Financial Services at (206) 281-2061 or (800) 737-8826 toll-free.

## Admission Checklist

**Application Materials.** Submit your application materials to the Office of Admissions, including:

- SPU Undergraduate Admission Application
- 2002-2003 Early Action Form (Submit this form with your application if you are applying under the Early Action Plan. Due December 1, 2002. See form for details.)
- \$45 Application Fee
- Academic Recommendation
- Personal Recommendation
- Essays (2)

**Test Scores (High School Students Only).** Request that official SAT I or ACT scores be sent to the Office of Admissions. Scores must be sent directly from SAT or ACT in order to be considered official, or they must be posted on your official high school transcript. **SPU's school code for the SAT is 4694; for the ACT, it is 4476.**

**Transcripts.** Request that official transcripts for all courses taken (high school and college) be sent to the Office of Admissions. For the transcripts to be considered official, they must be sent directly by the school to SPU in a sealed envelope. If any high school or college work is currently in progress, please ask your school to forward another transcript when the work is complete.

## Scholarships and Financial Aid Checklist

**Scholarships.** The SPU Undergraduate Admission Application is also your application for most SPU scholarships. Information provided in the section on "Involvement and Activities" is particularly important for determining scholarship eligibility. *You will automatically be considered for any scholarships for which you are eligible.*

**Deadline for high school students (includes Running Start) entering Autumn 2003:** You must submit a completed SPU application by March 1, 2003, to be considered for merit scholarships.

**Deadline for transfer students entering Autumn 2003:** You must submit a completed SPU application by April 15, 2003, to be considered for merit scholarships.

**Fine Arts and Athletic Scholarships.** Auditions are required for fine arts scholarships. You may request an application by calling (206) 281-2205. For information about athletic scholarships, call (206) 281-2085.

**Financial Aid.** To apply for need-based financial aid, you must submit the Free Application for Federal Student Aid (FAFSA). You may obtain a form from your high school counselor or from Student Financial Services at SPU. You may also apply via the Web at [www.fafsa.ed.gov](http://www.fafsa.ed.gov). If final tax information is not available when you are submitting the FAFSA, you're encouraged to provide estimates. Don't wait! The earlier you apply for financial aid, the better the financial aid offer you can expect. **SPU's school code for the FAFSA is 003788.**

**Deadline for high school students (includes Running Start) entering Autumn 2003:** To be eligible for the maximum amount of financial aid, you must submit the FAFSA as soon as possible after January 1, 2003, and submit a completed SPU application by March 1, 2003.

**Deadline for transfer students entering Autumn 2003:** To be eligible for the maximum amount of financial aid, you must submit the FAFSA as soon as possible after January 1, 2003, and submit a completed SPU application by April 15, 2003.

## 2003-2004 Early Action Form

### After You Apply: What You Can Expect From SPU

- Admission Decision.** The SPU Admissions Committee will begin making admission decisions for Autumn Quarter 2003 after December 1, 2002. In most cases, a decision regarding your admission will be made one to two weeks after all application materials have been received. If an interview is required, you will be contacted by phone.
- Admission Wait-List.** Students who meet SPU's admission requirements will be offered admission immediately. Students who do not fully meet admission requirements, however, may be placed on a wait-list. These students will be notified of their wait-list status and given further instructions.
- Scholarship Announcements.** The SPU Scholarship Committee will begin announcing scholarships for Autumn Quarter 2003 in mid-January 2003 and continue the announcements on a biweekly basis as long as funds are available. *Students must be admitted to SPU before they can receive any scholarships.*
- Need-Based Financial Aid Awards.** SPU will send out need-based financial aid awards for Autumn Quarter 2003 beginning in mid-March 2003. *Students must be admitted to SPU before they can receive a financial aid package.*

### After You're Admitted: The Steps to Enroll

- Admission Packet.** Once you have been admitted to SPU, you will receive a packet of information with everything that you need to enroll. Besides your letter of admission, the packet will include information about housing, advising, registration and New Student Orientation.
- Housing Information Card.** Complete and return the Housing Information Card found in your Admission Packet. This will initiate the application process for on-campus housing.
- Medical History Form.** Complete and return the confidential Medical History Form found in your Admission Packet.
- Decision to Enroll/Advance Payment.** Indicate your decision to enroll at SPU by sending your \$200 advance payment to the Office of Admissions. Advance payments for students entering Autumn Quarter 2003 are due on or after May 1, 2003, the National Candidates' Reply Date.
- Premiere/Early Registration.** Reserve a place at one of SPU's early advising and registration events called "Premiere." Held between May and September at on- and off-campus sites, these one-day events allow you to take care of "business" before arriving at SPU for New Student Orientation.
- New Student Orientation.** Plan to attend New Student Orientation, a four-day introduction to life at SPU, immediately preceding the first day of Autumn Quarter classes.

If Seattle Pacific University is your first choice, we invite you to apply under the Early Action Plan. **This Early Action Form, along with the Undergraduate Admission Application, must be postmarked by December 1, 2002. All remaining application materials must be received by March 1, 2003.**

Early Action students receive priority consideration in financial aid, scholarships and housing assignments, provided they meet financial aid and housing deadlines. SPU also assists Early Action students by offering discounted tickets to Senior Preview or Campus Preview, as well as a transportation allowance to attend one of these events. Early Action students may elect to visit at a different time and will receive complimentary meals, housing on campus and an allowance for transportation to the campus. Contact the Office of Admissions for details. **The Early Action Plan is a non-binding agreement.**

The \$200 advance payment must be received in the Office of Admissions no later than May 1, 2003.

### Request for Early Action Status

*Seattle Pacific University is my first choice, and I intend to enroll as a student beginning Autumn Quarter 2003. I request Early Action status when my application for admission is considered.*

Signature \_\_\_\_\_ Date \_\_\_\_\_

**Please type or print.**

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Social Security Number \_\_\_\_\_

**Return this form with the Undergraduate Admission Application and \$45 application fee by December 1, 2002.**

*Mail it to:*

Jennifer M. Kenney, Director of Undergraduate Admissions  
 Seattle Pacific University  
 3307 Third Avenue West  
 Seattle, Washington 98119  
 Fax: (206) 281-2544



# Undergraduate Admission Application

This form, along with school transcripts, SAT or ACT scores, the two essays, and academic and personal recommendations will be considered when evaluating your application to Seattle Pacific University. The information provided will also be used to determine scholarship eligibility. In order to give us an accurate picture of your academic and personal qualifications, please respond clearly and completely to each of the following questions. Attach additional pages if necessary.

For the most timely response, SPU recommends that you submit all application materials in one packet.

**Please type or print. (This application must be completed by the student.)**

Quarter/year applying for  Autumn\_\_ (Deadline: June 1)  Winter\_\_ (Deadline: Nov. 15)  Spring\_\_ (Deadline: Feb. 15)  Summer\_\_ (Deadline: May 15)

Status applying for  Freshman  College Transfer

Have you requested admission information from SPU in the past?  Yes  No

Have you applied to SPU before?  Yes  No If yes, when? Quarter \_\_\_\_\_ Year \_\_\_\_\_ Were you admitted?  Yes  No

If you were previously admitted, did you enroll in classes?  Yes  No When did you last attend? \_\_\_\_\_

## personal information

1. Name \_\_\_\_\_  
Last First Middle Preferred Name Former Name

2. Sex  Male  Female

3. Present Address \_\_\_\_\_  
Number and Street City State Zip Code Country

Daytime Phone (\_\_\_\_\_) \_\_\_\_\_ Evening Phone (\_\_\_\_\_) \_\_\_\_\_

How long will you receive mail at this address? Until \_\_\_\_\_ Your E-Mail Address \_\_\_\_\_  
Mo / Day / Yr

4. Permanent Address \_\_\_\_\_  
Number and Street City State Zip Code Country

Phone (\_\_\_\_\_) \_\_\_\_\_

5. Social Security No. \_\_\_\_ / \_\_\_\_ / \_\_\_\_\_ 6. Birthdate \_\_\_\_\_ 7. Birthplace \_\_\_\_\_  
Mo / Day / Yr

8. Country of Citizenship \_\_\_\_\_ Current Visa Type \_\_\_\_\_ Are you a resident alien?  Yes  No

Is English your first language? (Optional)  Yes  No Resident Alien No. A- \_\_\_\_\_

In what other languages are you fluent? (Optional) \_\_\_\_\_

9. (Optional) How would you describe yourself? (Please check.)  
 American Indian  African American  Hispanic American  Hawaiian  
(Please specify origin.) \_\_\_\_\_  
 Alaskan Native  Caucasian/White  Asian American  Other  
(Please specify origin.) \_\_\_\_\_ (Please specify origin.) \_\_\_\_\_

10. (Optional) Name of Church You Attend \_\_\_\_\_ Denomination \_\_\_\_\_

Address \_\_\_\_\_  
Number and Street City State Zip Code

Phone (\_\_\_\_\_) \_\_\_\_\_

**family information**

Note: Adult learners (24 years of age or married) do not need to complete this section, unless it applies.

**11. Father or Legal Guardian**

Name \_\_\_\_\_ Living?  Yes  No

Address \_\_\_\_\_  
Number and Street City State Zip Code Country

Phone (\_\_\_\_\_) \_\_\_\_\_

Father's Occupation \_\_\_\_\_ Employer \_\_\_\_\_

Colleges Attended by Father \_\_\_\_\_

Degrees Earned \_\_\_\_\_

If your father is an alumnus of SPU, please indicate year of graduation: \_\_\_\_\_

**12. Mother or Legal Guardian**

Name \_\_\_\_\_ Living?  Yes  No

Address \_\_\_\_\_  
Number and Street City State Zip Code Country

Phone (\_\_\_\_\_) \_\_\_\_\_

Mother's Occupation \_\_\_\_\_ Employer \_\_\_\_\_

Colleges Attended by Mother \_\_\_\_\_

Degrees Earned \_\_\_\_\_

If your mother is an alumna of SPU, please indicate year of graduation: \_\_\_\_\_

**13.** Check here if one or both of your parents is a full-time, ordained, practicing Christian minister or missionary.  Yes  No  
 (Optional: This information determines eligibility for ministerial scholarships and will not be used for admission purposes.)

**14. Brothers and Sisters in High School**

Name _____	Year of H.S. Graduation _____	Name _____	Year of H.S. Graduation _____
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**15. Family Members Currently Attending SPU**

Name _____	Name _____
------------	------------

**16.** (Optional) Are you the first person in your immediate family to attend college?  Yes  No

**educational plan**

**17.** Intended Major \_\_\_\_\_

If undecided, what subject area or career interests you? \_\_\_\_\_

**18.** (Optional) Please list each of the colleges and universities to which you are applying.

1. _____	2. _____	3. _____
<small>School City, State</small>	<small>School City, State</small>	<small>School City, State</small>

**educational background**

**19.** When will (or did) you graduate from high school? \_\_\_\_\_ **20.** Do you have a GED?  Yes  No  
Mo / Yr

**21.** Are you a home-schooled student?  Yes  No

**22.** Have you taken the SAT I or ACT?  Yes  No Test Date \_\_\_\_\_ Scores: \_\_\_\_\_ SAT: \_\_\_\_\_ ACT: \_\_\_\_\_  
V M Composite

Did you take the SAT I or ACT twice?  Yes  No Test Date \_\_\_\_\_ Scores: \_\_\_\_\_ SAT: \_\_\_\_\_ ACT: \_\_\_\_\_  
V M Composite

**23.** (Freshman Applicants) Please list all the courses you are taking in your senior year. Please note whether any are Advanced Placement, International Baccalaureate or honors courses.

1. _____	5. _____	9. _____
2. _____	6. _____	10. _____
3. _____	7. _____	11. _____
4. _____	8. _____	12. _____

**24.** (Freshman Applicants) Have you ever been enrolled in a college or university course for which you also received high school credit?  Yes  No

If so, at which college or university have you been enrolled? \_\_\_\_\_

Are you participating in the Washington State Running Start Program?  Yes  No

**25.** List all high schools, colleges, universities and post-secondary institutions you have attended. (Please give full names.) *You are required to send official transcripts from each institution even if you do not expect to transfer credit.*

Name of High School	City, State	Dates of Attendance
_____	_____	_____
_____	_____	_____
_____	_____	_____

Name of College, University or Post-Secondary School	City, State	Dates of Attendance	Approx. # of Credits Earned	Degrees Earned
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

**26.** (Transfer Students) Are you a member of the Phi Theta Kappa Honor Society?  Yes  No

**27.** Will you be applying for a scholarship with ROTC?  Yes  No

**28.** If you are not currently in school, please describe your activities (e.g., work, travel, community service, etc.) since you were last enrolled. \_\_\_\_\_

**additional information**

**29.** Do you plan to apply for financial assistance?  Yes  No

If yes, the Free Application for Federal Student Aid (FAFSA) was/will be filed on: \_\_\_\_\_  
Date

**30.** Preference for Living Arrangements  On Campus  Off Campus  
 Note: Unmarried students under 20 years of age on October 1 must live on campus, unless they are living with parents or relatives and have been approved to live off campus by the Office of Student Life.

**31.** In which of the following would you like to participate? (Check as many as apply.)

<input type="checkbox"/> Band	<input type="checkbox"/> Theatre	<input type="checkbox"/> Campus/Urban Ministry	<input type="checkbox"/> Student Publications	<input type="checkbox"/> Intramural Sports
<input type="checkbox"/> Choir	<input type="checkbox"/> Visual Arts	<input type="checkbox"/> International Missions	<input type="checkbox"/> Student Leadership	<input type="checkbox"/> NCAA Athletics
<input type="checkbox"/> Orchestra	<input type="checkbox"/> Debate	<input type="checkbox"/> Honors Programs	<input type="checkbox"/> Study Abroad	_____

Specify sport(s)

**32.** Have you visited the SPU campus?  Yes  No  
 If yes, what was the occasion?  
 Personally Arranged Visit  Senior Preview/Campus Preview  Other Campus Event (Please name.) \_\_\_\_\_

**33.** How did you hear about Seattle Pacific University? Was there a particular person(s) who influenced your decision to apply (SPU faculty or staff member, current student, alum)?

**34.** What was the most important factor in your decision to apply for admission?



# Academic Recommendation

**To be completed by applicant:**

**Note to Applicant:** An Academic Recommendation is a required part of your application for admission. *This recommendation should be completed by a high school teacher, counselor or official; or a college advisor or official. Adult learners should select someone to complete this recommendation who is familiar with their academic record and/or goals. This recommendation may not be completed by a family member or the same person who completes your Personal Recommendation.*

**Please type or print.**

Applicant's Name \_\_\_\_\_ Social Security Number \_\_\_\_\_

Address \_\_\_\_\_  
Number and Street City State Zip Code

Please check if you wish to waive your right under the Family Educational Rights and Privacy Act of 1974 to access this recommendation.

**To be completed by respondent:**

**Note to Respondent:** The above student is applying for admission to Seattle Pacific University. We value your comments and ask that you provide a full and candid report so that fair consideration may be given to the applicant. The student has access to his/her file, which will include your recommendation (unless he/she has waived that right above). This provision is made in accordance with the Family Educational Rights and Privacy Act of 1974.

Your recommendation is a significant part of the student's application for admission. The student *cannot be considered for admission to SPU without this recommendation.*

**Please type or print.**

1. How long have you known the applicant? \_\_\_\_\_
2. In what context have you known the applicant? \_\_\_\_\_

**3. Academic Performance**  
How would you rate this student in the following areas?

	Outstanding (Top 10%)	Good	Average	Below Average
Motivation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Self-Discipline	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Creativity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
College Preparedness	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**4. Character and Personal Qualities**  
How would you rate this student in the following areas?

	Outstanding (Top 10%)	Good	Average	Below Average
Leadership	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Self-Confidence	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Concern for Others	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Personal Initiative	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

5. Seattle Pacific University seeks to admit academically qualified students who desire a challenging and distinctly Christian education in the liberal arts, sciences and professions. Please write a summary appraisal of the applicant's qualifications for admission and potential for success at SPU. What talents and strengths would enable this student to succeed at Seattle Pacific? Are there any academic or personal traits that might hinder the applicant's success? Please explain.

6. I recommend this applicant for admission:

	With Enthusiasm	Strongly	Fairly Strongly	Without Enthusiasm	Not Recommended
For Academic Promise	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
For Character and Personal Promise	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
For Leadership Potential	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overall Recommendation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Name (Please print.) \_\_\_\_\_ Date \_\_\_\_\_

Signature \_\_\_\_\_ Position \_\_\_\_\_

High School/College/Organization \_\_\_\_\_

Address \_\_\_\_\_  
Number and Street City State Zip Code

Phone (\_\_\_\_) \_\_\_\_\_  SPU Alum Class of \_\_\_\_\_

Please return to:

Jennifer M. Kenney, Director of Undergraduate Admissions  
 Seattle Pacific University  
 3307 Third Avenue West  
 Seattle, Washington 98119  
 Fax: (206) 281-2544

seattle pacific **university**

## Personal Recommendation

*To be completed by applicant:*

**Note to Applicant:** A Personal Recommendation is a required part of your application for admission. *This recommendation should be completed by a minister, youth worker, employer or professional associate who is familiar with your character and values. It should not be completed by a relative or the same person who completes your Academic Recommendation.*

**Please type or print.**

Applicant's Name \_\_\_\_\_ Social Security Number \_\_\_\_\_

Address \_\_\_\_\_  
Number and Street City State Zip Code

Please check if you wish to waive your right under the Family Educational Rights and Privacy Act of 1974 to access this recommendation.

*To be completed by respondent:*

**Note to Respondent:** The above student is applying for admission to Seattle Pacific University. We value your comments and ask that you provide a full and candid report so that fair consideration may be given to the applicant. The student has access to his/her file, which will include your recommendation (unless he/she has waived that right above). This provision is made in accordance with the Family Educational Rights and Privacy Act of 1974.

Your recommendation is a significant part of the student's application for admission. The student *cannot be considered for admission to SPU without this recommendation.*

**Please type or print.**

1. How long have you known the applicant? \_\_\_\_\_

2. In what context have you known the applicant? \_\_\_\_\_

3. Character and Personal Qualities

How would you rate this student in the following areas?

	Outstanding (Top 10%)	Good	Average	Below Average
Leadership	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Self-Confidence	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Concern for Others	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Personal Initiative	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

4. It is our intent to admit students who will succeed in and benefit from a Christian environment, although a profession of Christian faith is not necessary for admission to Seattle Pacific University. How would you describe this applicant's understanding of and/or commitment to the Christian faith? How is this manifested in the church and community?

5. Seattle Pacific University seeks to admit academically qualified students who desire a challenging and distinctly Christian education in the liberal arts, sciences and professions. Please write a summary appraisal of the applicant's qualifications for admission and potential for success at SPU. What talents and strengths would enable this student to succeed at Seattle Pacific? Are there any academic or personal traits that might hinder the applicant's success? Please explain.

6. I recommend this applicant for admission:

	With Enthusiasm	Strongly	Fairly Strongly	Without Enthusiasm	Not Recommended
For Academic Promise	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
For Character and Personal Promise	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
For Leadership Potential	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overall Recommendation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Name (Please print.) \_\_\_\_\_ Date \_\_\_\_\_

Signature \_\_\_\_\_ Position \_\_\_\_\_

Church/Organization \_\_\_\_\_

Address \_\_\_\_\_  
Number and Street City State Zip Code

Phone (\_\_\_\_\_) \_\_\_\_\_  SPU Alum Class of \_\_\_\_\_

Please return to:

Jennifer M. Kenney, Director of Undergraduate Admissions  
 Seattle Pacific University  
 3307 Third Avenue West  
 Seattle, Washington 98119  
 Fax: (206) 281-2544

# Seattle Pacific: A Christian University

The clear Christian commitment of Seattle Pacific University has remained the same for more than a century. We continue to believe that the finest education is informed by Christian faith.

As a university, Seattle Pacific's mission is one of educational inquiry. Believing that our faith calls us to excellence – both intellectually and spiritually – we actively strive to provide the highest quality education available. In keeping with this, academic freedom and integrity are highly prized.

What does this mean to you? It means that, as a student, you'll be taught by professors who approach their disciplines from a Christian perspective. But you will not be told what to believe. Instead, through the educational process of inquiry, discussion and experience, you'll be encouraged to develop a mature, personal faith.

You will be challenged at Seattle Pacific. But the University seeks to create an environment that balances freedom and support as you grapple with difficult questions. Our goal is to help you emerge with an even deeper Christian conviction and a desire for Christian leadership and service.

Seattle Pacific works hard to maintain strengthen its

Christian environment. One way in which we accomplish this is by selecting faculty and staff members who are unapologetically Christian, share the same essentials of faith and exhibit a vital concern for the faith development of students.

Another way is through the University's Christian Faith Exploration program, which includes worship services, faculty-led small groups, urban and global service opportunities, forums, reflection retreats and other spiritual growth opportunities. All full-time undergraduate students must meet SPU's Christian Faith Exploration requirement.

Students are also asked to adhere to community standards of behavior. They are expected to refrain from academic cheating; sexual immorality; use of tobacco, alcohol or illegal drugs; and participation in acts of racial or sexual harassment. These are not "rules for rules' sake," but they are intended to show respect for SPU's Christian tradition and for other community members.

Seattle Pacific University doesn't use the word "Christian" lightly when describing itself. Our Christian identity is as important to us today and it was a century ago. We believe that without faith, knowledge is incomplete.

## Seattle Pacific University Nondiscrimination Policy

It is the policy of Seattle Pacific University not to discriminate on the basis of race, color, national origin, sex, age or disability in admission and access to, or treatment or employment in its programs or activities, as required by section 504 of the Rehabilitation Act of 1973, as amended, the Americans with Disabilities Act, as amended (to the extent applicable to the University), Title IX of the Educational Amendments of 1972, as amended, Title VI of the Civil Rights Act of 1964, as amended, and the Age Discrimination Act, as amended, and their implementing regulations.

As a religious educational institution operating under the auspices of the Free Methodist Church of North America, Seattle Pacific University is permitted and reserves the right to prefer employees or prospective employees on the basis of religion.

If students have any questions regarding this policy, they should contact the following persons:

### Section 504 Coordinators:

Primary: Director of the Center for Learning ..... (206) 281-2272  
 Secondary: Associate Vice President for Academic Affairs/Dean of Students (206) 281-2123

### Title IX Coordinators:

Primary: Assistant Vice President and Dean, Enrollment Management ..... (206) 281-2650  
 Secondary: Director of Human Resources ..... (206) 281-2065

If you believe you may have been discriminated against in violation of this policy, please contact the Section 504 coordinators, the Title IX coordinators, the Office of Campus Life or the Office of Human Resources for a copy of the University's grievance procedures.

Seattle Pacific University  
 3307 Third Avenue West  
 Seattle, WA 98119

*This publication is certified as true and correct in content and policy as of the date of publication. The University reserves the right, however, to make changes of any nature in programs, calendar, academic policy or academic schedules whenever these are deemed necessary or desirable, including changes in course content, class rescheduling, and the canceling of scheduled classes or other academic activities.*



Seattle  
Pacific  
UNIVERSITY

Engaging the culture,  
changing the world.

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Seattle, WA 98119  
(206) 281-2000  
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