## Seattle Pacific University Catalog 1998-1999

Seattle Pacific University

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Seattle Pacific University
1998-99 Undergraduate Catalog


## SPU Reference Guide

| General Information . General University Fax . |  |
| :---: | :---: |
| Academic Programs |  |
| Office of the Provost | 281-2125 |
| College of Arts and Sciences. | 281-2165 |
| School of Business and Economics | 281-2970 |
| School of Education. | 281-2214 |
| School of Health Sciences | 281-2233 |
| Admissions, Undergraduate |  |
| Undergraduate Application Process | 281-2021 |
| Toll Free Number . | 1-800-366-3344 |
| Fax | 281-2669 |
| Email | admissions@spu.ed |
| Campus Housing .......................... | 281-2188 |
| Career Planning | 281-2018 |
| EveningWeekend Classes | 281-2121 |
| Spiritual Activities | 281-296 |
| Student Academic Services |  |
| Graduation/Transfer Student Services . | ………..... 281-2021 |
| Registration Dates ................ | 281-2031 |
| Fax. | 281-266 |
| Email | ....... sasinfo@spu.edu |
| Student Financial Services | ..... 281-206 |
| Toll Free Number | 1-800-737-8826 |
| Fax | 281-2835 |
| Student Government | 281-2126 |

.. http://www.spu.edu/ SPU events calendar can be 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 189 .

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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

Consult the Index in the back of the Catalog for specific categories of information such as entrance requirements, fees, computer science major, etc.
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.)
. Admissions application materials are located in the back of the Catalog.
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 $1-800-366-3344$.

## About Seattle Pacific University

"As a community of learners, Seattle Pacific University seeks to educate and prepare students or service and leadership. We are committed to vangelical 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
"We are in the business of changing lives. Our goal is to equip our graduates with competence, confidence, hope, and wisdom to become the kind of people who can
literally change the literally change the
world. Yes, that's it, our graduates can our graduates can
indeed change the world."

Philip W. Eaton President

## A Christian University for the 21 st Century

With a long and distinguished history in Christian higher education, Seattle Pacific University approaches the new
century positioned to serve and to lead in the city, the wort and the church. At a time when the legacy of the secularized modern university is under scrutiny, Seattle Pacific provides more than 3,300 students with a high-quality, comprehensive education grounded on the gospel of Jesus Christ. This Combination of vital scholarship and thoughtful faith is a powerfuu one that brings about lasting change in the lives
our graduates, and in the people and communities they erve.
Located just minutes from downtown Seattle, the urba center of 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 the coming century.
Guiding the work of Seattle Pacific University are three preeminent goals:
First, we seek to graduate people of compeimportant. 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 Second, we seek to become people of wisdom. s 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, who are able to speak clearly and intelligently about their convictions
Third, we seek to model a grace-filled community. As we serve our students and commit ourselves to the life of the mina, we believe our best work is one in community In our life tosether at Seattle Pacific, we

strive to treat each other and all people with respect, mong 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 tradition results in an invigorating spiritual and educationa experience for students.

## Historically Orthodox

Seattle Pacific traces its distinctive Christian mission to the eighteenth century Evangelical Revival in England led by
John Wesley. Influenced by the Pietists Wesley sought 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 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 nineteenth century Holiness Movement whe Free Methodist Church - SPU's founding denomination - wasley'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 o
the practice of renting pews (hence the term "Free"). In the practice of renting pews (hence the term "Free"). In
the late nineteenth 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.

## 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. Based on the witness he Holy Spirit and the authority of Scripture, Seattle Pacific affirms Jesus Christ as Savior and Lord. We use the term "evangelical" to point to a Christian faith which embraces Christ's transforming power and aims toward Christlikeness in the lives of God's people. In response to God's own love - particularly in the life, death and resurrection of soul, mind and strength. 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 Chris.

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 Seatle Pacific's proach 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. approach to the Bible as well as our study of the world. 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

 EducationScholarship of Wisdom
Scholarship of Wisdom
Christians have historically believed in a rich way of knowing involving the whole human being: mind, heart and soul.
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 nineteenth century, however, university learning had largely been reduced to an extreme application of the scientific method, where the truth consisted of only last half-century, scientism has lost its claim to certitude in the minds of scholars. In a post-modern world, the "uni"versity has become a "multi"-university, where the only standards for learning are those of individual disciplines. As a Christian university, Seattle Pacific's purpose is the scholarly pursuit of truth, guided not by scientism or study of God's creation, and a responsible involvement 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

## The Common Curriculum

Research shows that most university students don't see a connection between general education requirem 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 good-paying job. It was within this context that Seattle Pacific University faculty conducted a
multi-year examination of general education. They looked at multi-year examination of general education. They looked at life, and what should constitute the core of a distinctly SPU education.
The result is ground-breaking. 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 five percent of four-year institutions in the United States, most of them very smal and homogenous, offer such a curriculum. Until now, no comprehensive university in an urban setting with an equal mix of residential and commuter students require

The Common Curriculum at Seattle Paciic puts the "uni" ack in university by introducing the relevance and unity of nowledge. SPU students begin in the first quarter of thei freshman year with University Seminar, an intensive 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 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 Univer Christian Formation, Christian Scriptures and Christion 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 he "SPU Canon," a set of literary and artistic works to be 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 art eks to build these qualities of heart, ind and action:

- love of God and neighbor
- love of learning;
- moral judgment;
- intellectual, moral and spiritual discernment;
- critical thinking;
- aesthetic awareness;
- discipline of habits
- active service in the wider world,
- responsiveness to human diversity; and
- responsiveness to change

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

- Christian faith, scripture and theology;
- fine and performing arts;
- foreign languages and cultures;
- humanities;
- natural science and mathematics
- Social sciences; an
development.
The curriculum is also designed to form liberally
ducated persons who exhibit increasing proficiency in
- written communication
- quantitative reasoning
- collaborative learning
- critical thinking;
- aesthetic analysis and discernment;
- investigation;
- information literacy; and physical, emotional and spiritual well-being


## 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 Canada and the Pacific Rim. The city is virtually surrounded by water and mountains, so seagulls, bridges, ferryboats and now-capped peaks are part of everyday life
The region is home to corporate giants like Microsoft, ooeing and Nintendo, headquarters for World Relief and orld Vision, and site of the renowned fred Hutchinson esult of business ties and exchanges with nations like Japan, Korea and Russia.
Known as an "arts" town, Seattle has the highest live heatre attendance per capita of any major city. It is also the only Northwest city to field teams in all three major league ports: the Seattle Supersonics, regular NBA playoff 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 Fred Hutchinson Cancer Research Center, KING TV, the mpty Space Theatre, the State Attorney General's Office he Seattle Opera, The Children's Project and others.

## Pacific Northwest

Because of its natural assets, the Pacific Northwest offers nparalleled recreational opportunities: hiking, skiing, boating, fishing and scuba diving, to name a few. One of the horeline is by ferryboat. Or day trips from campus can lea ou 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. A 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 trained for missionary service by teachers whose lives represented the highest in Christian values. Nils Peterson 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 work to erect the school's first structure the much hard "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 peration, the seminary registered 34 students in a college preparatory curriculum that included primary and was added, later named In Petersen ad administration building 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 fo eacher training. During this time the college began to 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 ere the focus of the 1930 s . The first summer school was accredited in 1933. Full accreditation of the College's our-year liberal arts program came in 1936 by the Northwest Association of Schools and Colleges.
Following World War II, the college grew from some 400 tudents to 1,400 . In 1949, a School of Recreational Leadership was launched, paving the way for increased sports. During this time, Royal Brougham Pavilion was begun, built to serve not only college interests but used as eans of outreach to city youth as well. From its founding to 944, the school had built only four permanent buildings; between $1944-59$, five more were constructed for academic
purposes. In 1955 , SPC accuired 155 acres on Whidhey Island arposes. In I955, SPC acquired 155 acres on Whidbey Islan study and outdoor education.
The 1960s became the college's golden age of expansion, especialiy in terms of facilities. In nine years, 15 new buildings and/or facilities were completed; major emodeing to 10 existing buildings created new, usable
space; more than 70 real estate accuisitions were record 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 which would grow to be the model inservice 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 college officially becmme Se titinately, on June 5, 1977, the During the 1980 s, 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 emphasi Enrolment grew
in 1989 .
The 1990s have seen 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 is high with $85 \%$ o fuil-time faculty members holding a doctoral or the highest
degree in their field. In 1994, as part of its successful $\$ 25$ million capital campaign, SPU opened a $\$ 10$ million library

## Seattle Pacific University

that now serves as the heart of the academic program. A unique common Curriculum, to be launched in Autum Quarter 1998, promises an innovative approach to gener Comprehensive Plan for the 21st Century that brings together planning streams for education, enrollment, endowment and facilities to ensure the University's success for its second hundred years.
Presidents of Seattle Pacific University
Alexander A. Beers, Ph.B., M.A. ..................... 1893-1916
Orrin E. Tiffany, Ph.D. $\square$ 1916-1926
C. Hoyt Watson, Litt.D. $\qquad$ 1916-1926
1926-1959
C. Dorr Demaray, Litt.D $\qquad$ 1959-1968 David L. McKenna, Ph.D. $\qquad$ 959-1968

David C. Le Shana, Ph.D. $\qquad$ 1982-1991 991-1994
Curtis A. Martin, Ph.D. $\qquad$
E. Arthur Self, Ph.D. $\qquad$ 4-1995
Philip W. Eaton, Ph.D. $\qquad$

## Our Traditions

New Student Convocation. This convocation service has its roots in a 1932 convocation where new students an
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 the new students as they embark on their SPU journey
Chapel/Forum. Community worship, concerts, presentations on special topics and evensong services are all part of Seattle Pacific University's extensive Chapel/ Forum program. Monday and Wednesday morning chapel offers students experiences in worship, faith issues and/or praise. Other Chapel/Forum opportunities address a variety of topics dealin
development.

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 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 community-wide event that takes place in the Loop assortment of lights, 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.
vy Cutting. vy Cutting has been a part of spring raduation rites since 1922 when the first lvy Planting particinyte is in lyy Cutting ceremony where each senio 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 graduation.
Baccalaureate. The Baccalaureate Service is one of worship and reflection, planned by members of the senior the graduation day ceremonies and held in the University Church.
Commencement. Commencement is a time-honored eremony, which recognizes the scholarship, service and 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 Si graduates has
recent years.

## Our Accreditation and Affiliation

The history of the growth of Seattle Pacific University is inked to the educational community of which it is a part. I successive steps from 1921 to 1937, Seattle Pacific was Since 1936 , the University has been fully accredited by the Northwest 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 recognized by members of the various regional associations and by leading graduate schools throughout the Washington, Washington Friends of Higher Education, Christian College Consortium, and the Coalition of Christian Colleges and Universities.
The University is accredited by the National Council for Accreditation of Teacher Education (NCATE) at both basi (undergraduate) and advanced (graduate) levels. It 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 eachers.

The dietetics specialization in the food and nutritional sciences program has been granted approval by The Division of Education Accreditation accrediting body recognized by the Council on Postsecondary Accreditation and the United States Department of Education. This means a graduate of SPU with dietetic specialization is eigible to apply for a 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 at Seattle Pacific is accredited by the washingon state Nursing Care Quality graduate programs are accredited by the National League

## for Nursing. <br> SPU is a full member of the National Association of

 Schools of Music.The electrical engineering program is accredited by the Engineering Accreditation Commissio Seattle Pacific meets the requir
Commission on Christian Education of the Free Methodis Church for preparation of ministers and missionaries and is also approved by the Department of Christian Education of collegiate preparation of ministers denominations for tle The University is a member of the
Collegiate Schools of Business and the Associntion for Continuing Higher Education. Seattle Pacific is also approved by the United States Government for education of pterans and their dependents under the applicable public laws.

## Our Resources for Learning

Seattle Pacific University students benefit from facilities and technology designed to meet educational needs:

The Library
Completed in 1994, the Library is a spacious four-level faciity that serves as the center for academic endeavors
outside the classroom. It provides collections, services
echnology 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 6,00 new titles each year, including more than 1,400 current eriodical titles and an ever-expanding microfiche collectio The collection is accessible on-lin hrough the campus computer network via its automate catalog. In addition, fundamental library processes of irculation, reserves, acquisitions, cataloging and serials control are also facilitated through the same integrated printers, low-cost duplicating facilities and audiovisual listening and viewing stations are available as well.
In addition to standard reference resources, more than 20 subject-specific CD-ROM databases are accessible through a local area network. With support from a librarian, Rere than accessible.
An interlibrary borrowing service is available to students, faculty and staff. As a member of OCLC (On-line Computer Library Center) and the WLN (Western Librar Network), 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

Technology and Learning Center The Archer Technology and Learning Center in the Library is duplication services and the management of a multimedi laboratory. Academic multimedia lab equipment includes Windows and Macintosh computers, CD-ROM units, scanners, video digitizers, color and laser printers, and video editing systems available for faculty and students
working on class projects.

## Seattle Pacific



Student Computer Labs across campus. Some of the computer labs are highly specialized for specific academic programs while other labs are designed for general purposes. In most of the student labs, a stancard set of academic sotware tools is provided 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, and other local and remote networked Lesources.
brary: There are three computer labs in the Library: Macintosh computers - and an open lab with 20 NT computers and 15 PowerMacintosh computers. The Library also has a number of terminals for library catalog searches, 12 computer stations that are able to search CD-ROM databases, and five computers dedicated for Internet only.
Miller Science Learning Center: There are three computer labs in the Miller Science Learning Center. A large open lab has 38 MS-Windows computers and 16 terminals; the Electrical Engineering Design Lab has eight workstations; and the Electrical Engineering "Computer Aide Engineering" Lab has 10 MS-Windows computers. Writing Lab: The Humanities Writing Lab in Tiffany
contains four MS-Windows computers for instruction and support of basic writing skills.
Music Keyboard Lab: The music Lab in Beegle Hall Music Keyboard Lab: The music Lab in Beegle Hall
Lent contains eight high-end Macintosh computers attached to
MIDI keyboards.
McKenna Lab: The USWest Computer Lab in the Schoo McKenna Lab: The USWest Computer Lab in the Schoo lab and business class use.

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 arge-screen projectors and Windows-based PCs (installed in 12 classrooms), to
equipped electronic classrooms (three on campus) equippet 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 On-campus network connectivity and access to the Internet
(part of the information highway) 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 World Wide Web is widespread. Many routine student transactions
(registration, class schedules access to grades) can be completed via the World Wide Web at the individual student's convenience. 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 email from campus-provided modem connections.

## Technology Services in the

 Residence Hallsof the campus residence hals units are provided a full compliment of technology resources that include: network connections to the local campus computers and the Internet a connection for each student), cable IV connections

## Computer Ownership

The University provides a wide range of general purpose and seecialized computer resources on campus, but for the speciaized computer resources on compus, but learning and use of computers students ar strongly encouraged to purchase their own computer. SPU supports both Windows and Apple Macintosh computers in ur student lab environments and the residence halls. The oice of computers and software is left to the individual student.

Technology Instruction and Assistance he use of computers and networked resources is an important part of the academic program at Seattle Pacific. Assistance in learning how to use these resources is available in many forms. A 40-page booklet "SPUnet Systems Ind Internet User Guide" is distributed to students; there are many training sessions offered for help in using campus computer labs; and Computer and Information System provides a central computer HelpDesk.

# 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.

Students build connections on campus with faculty
and peers, through work experiences and campus and peers, through work experiences and campus
activities. (Pages 27,30-33.)

Students receive a registration card to register in advance for the next quarter. After reading this information a student makes an appointment with his or her faculty advisor. (Page 157.)

Students who are current on their student account and making satisfactory progress toward their degree are eiigble to enrol
subsequent quarters. (Pages 20-22, 24)


Each April, students participate in Academic April, where undergraduate students take the next steps in academic open houses class chapels and othe events to progress to the next academic level.
$\leftarrow$
Freshmen: Participate in the Freshman Chapel and select an intended major. A new faculty advisor may be assigned to the student in their area of study. Sophomores: Participate in the Sophomore Class Chapel and begin the process of applying for and being accepted into a major.
apply for graduation. Students will recaive a checklist of their progress toward their bachelor's degree. Seniors: Participate in the Senior Class Chapel, prepare for the transition to vocation or graduate school. Prepare for Commencement and graduation

## Admissions

Seattle Pacific University admits students who exhibit academic characteristics which predict their success in the University programs to which they seek enrollment and 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, preferably the course pattern outlined by high school counselors. 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. Admission to the ACCESS Program may be granted to applicants who have a high school grade point average or SAT-I/AC scores below average. Admission to the Universit 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 ře-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 park-like and reminiscent of an earlier age. Yet this classic setting is only
few minutes from the busting cosmopolitan cty 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.
Avisit includes transportation to and from commercial carriers, overnight accommodations and discount hotel rates for parents. Meals on campus are provided, as are complete
campus and city tours campus and city tours.
There are several 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 0 attend classes, meet professors, live in the residence social events. The
Senior Preview. This weekend event occurs in the Autumn and is a special opportunity for Seniors to attend lasses, meet professors and participate in community activities SP Fridays. On special SPU Fridays, small groups of spective students receive the red-carpet treatment with Individual Visit. visit for you on another day. a all at (206) 281-2021 tetle Pacific University, simply give take care of the details.

Application for Admission
General Instructions For All Applicants stadents interested in applying for admission should request admission materials early by contacting Undergraduate Admissions. Prospective applicants who are still in high school should request these materials early in
their senior year. ir senior year.
graduate for admission must be received in beginning of the quarter for which a student wishes to the enroll. The application deadlines for 1998-99 are:

| To Be Admitted For: | All Materials Must <br> Be Received By: |
| :--- | :--- |
| Autumn 1999 | June 1, 1999 |
| Winter 2000 | November 15, 1999 |
| Spring 2000 | Febbuary 515,2000 |
| Summer 2000 | May 15, 2000 |

Each applicant is responsible for providing all items required with the application, including a $\$ 35$ nonefundable application fee.

Students desiring financial aid and scholarship consideration should file the Free Application for Federal
Student Aid (FAFSA) with the Feder possible after January 1 and submit all application materials before March 1. Financial aid award decisions (scholarships, grants, loans, student employment) for students who meet these deadijnes are processed beginning the second week of March. Further information and instructions for inancial aid applications may be obtained from Student Financial Services.

Procedures for Students Entering Directly from High School

1. Application - Complete the "Seattle Pacific University Application for Admission" and send to
the Office of Admissions early in the sevent semester (first semester of the senior year) alon with the $\$ 35$ application fee and the two required essays. Seattle Pacific University also accepts the uniform application for Washington State college and universities. An application supplement is ll students who submit the
2. 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 counsel are encouraged to provide additional information, if they desire.
3. 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 testing information are as follows: College Entrance Examination Board (SAT-I), Box 1025, Berkeley, CA 4701; American College Testing Program (ACT), P.O. Box 414 lowa City, lowa 52290. It is recommended that applicants take the SAT-I or ACT by January of

## heir senior yea

academic recommend - Applicants should request an counselor familiar with their academic qualifica
and a personal recommendation from a minister, outh leader, employer, or professional assoc (Use forms with application materials.)

## Procedures for Transfer Students

1. Follow steps 1,2 and 4 listed above.
. Send in official transcripts from all college
2. Students who have earned an Associate of Arts degree (transfer program) from a Washington Oregon or California community college or from
Central College, KS will enter with junior standing and all general education requirements including the foreign language requirement, fulfilled.
3. All transter students should review the Transfer Student section on the following pages for furthe information on SPU's transfer policies.

## Home Schooling

SPU recognizes that greater numbers of students ar receiving instruction at home instead of through a traditional high school program. Students who are home schooled are required to complete all the admission steps outlined under Procedures for Students Entering Directly from High School. Official high school transcripts need to be obtained from local high schools which certify Otherwise, home school students must provide an acceptable score on the G.E.D. and a profile detailing their course patterns and subject material taken during high school.

## Early Admission

Qualified students may enroll at SPU prior to completing all required units in high school. Only students highy) 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 school record and test scores, and a letter of recommenda tion 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 GED) is required in order to receiv

## dvanced Placement/CLEP/International

## Baccalaureate/PEP

Matriculated students at SPU 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 general education 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. II students believe courses may also fulfill major requireents, they may contact the appropriate department for their review

| Recommended AP Equivalents: |  |  |  |
| :---: | :---: | :---: | :---: |
| AP Test | Credits | GE Category | SPU Acceptance |
| Amer-Govt | 5 | 3A | POL 1120 |
| Comp-Govt | 5 | 3A | POL 2320 |
| Art-Drawing | 3, 2X | 5D | ART 1102 |
| Art-General | 5 | 5 C | Fine Arts Core |
| Art-History | 5 | 5 C | Fine Arts Core |
| Biology | 5 | 4 A | BIO 2101 with a score of 4 or 5 |
| Chemistry | 5 | 4B | CHM 1211 with a score of 4 or 5 |
| CSC-A | 5 X if AB | ot taken | Elective course with a maximum of 5 credits for either CSC test. |
| Econ-Micro | 5 | 3B | ECN 2101 |
| Econ-Macro | 5 | 3B | ECN 2102 |


| AP Test | Credits | GE Category | SPU Acceptance |
| :---: | :---: | :---: | :---: |
| Lang-Comp | 3, 2X | 2B | ENG 1105 |
| Lit-Comp | 5 | 5 A | ENG 1110 |
| His-Amer | 5 | 3 C | HIS 2502/2503 |
| HIS-Europ | 5 | 3 C | HIS 1202 |
| French-Lang | 5 | 2 A | FRE 1103 |
| French-Lit | 5 | 5B | Lit Option |
| German-Lang | 5 | 2A | GER 1103 |
| Latin-Vergil | 5 | 5B | Lit Option |
| Latin-Horace | 5 | 5B | Lit Option |
| Math-AB | 5 | 4 C | MAT 1225 with a score of 4 or 5 . |
| Math-BC | 10 | 4 C | MAT 1225, 1226 |
|  |  |  | with a score of 4 or 5 . |
| Music-Lit | 5 | 5 C | Fine Arts Core |
| Music-Theory | 5 | 5 D | Fine Arts Core |
| Phy-B | 5 | 4 B | PHY 1101 |
| Phy-C Mechan | 5 | 4 B | PHY 1121 |
| Phy-C Electr | 5 | 4 B | PHY 1121 |
| Psy | 5 | 3B | PSY 1180 |
| Spanish-lang | 5 | 2A | SPN 1103 |
| Spanish-Lit | 5 | 5B | Lit Option |

. 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 accepted.
No more than 30 quarter credits earned via correspondence and/or media courses (e.g.,
cassette, $T V$ video)--inclusive of both residence and transfer credits-may be applied to a bachelors degree. Exception: Existing Washington State
community college associate degree transfer agreements will be honored as they apply to gene education requirements.
6. 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 Caiifornia community be honored as they apply to general education requirements and class standing at entry.
7. Credits in excess of 20 in any one term will not be transferred. Courses taken concurrently by media correspondence or extension at more than institution as well as non-credit courses are
included
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. activity and applied music courses, ordinarily are not transferable.

## tudents Entering From Regionally

## Unaccredited Colleges

welcomes transfer students from all institutions. While the absence of accreditation raises questions concerning recounize tha quality of an institution's programs, SPU recognizes that institutions may not seek accreditation for ariety of reasons related to mission, sponsoring entity requirements, etc. SPU will, therefore, review credential. fficial transcript and copy of the unaccredited institution 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 transterred. Vocational, technical and practic courses will be transferred only with faculty
approval.
2. To be accepted a course must have a grade of "C"
(2.0) or better.
Only courses of
transfer (except least 2 quarter credits will music).
3. The cumulative GPA of transferable courses must be 2.0 or better (on 4.0 scale)

Courses comparable to SPU general education
categories or courses will apply to the appropriate GE categories.
A maxnum 10 credits in Biblical Literature courses may be accepted as elective credits only.
7. Application of credits to major requirements is a
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 American College Test (ACT).
Transfer Students/Foundations Requirements All credits earned at a recognized accredited institution in areas offered by SPU will usually be accepted without at SPU, an associate degree (Washington, Oregon and California community college transfer program or Centra College, KS ), are considered to have completed the Genera Education (but not Foundations) requirements, including the foreign language requirement, of SPU.

SPU considers the foundations requirements to be at the heart of its approach to higher education. Therefore Foundation requirements at SPU.
Transfer students with junior or senior standing upon admission will complete 10 credits in foundation studies with 5 credits in Biblical Heritage and 5 credits in Christian Perspectives, and each transfer student with freshman or sophomore standing

If a transfer student has taken Bible courses at a member institution of the Coalition for Christian Colleges and Universities, up to 10 credits may be accepted toward the fulfillment of the foundations requirement. If a transfer student has taken Bible courses from an accredited the Biblical Heritage requirement. If Bible courses have been transferred from another accredited Christian libera arts college which is not a member of the Coalition of Christian Colleges and Universities, up to 5 credits may be granted toward fuifilment of the
irement.
Transfer Students must meet all degree requirements under Degree Path Two.

## 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 stude 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 application)
school, college or university must:

1. Submit a TOEFL score of 550 minimum
2. Submit official college and/or secondary school ranscripts with a 3.0 GPA or higher on a 4.0 scal
(equivalent to a U.S. "B" average)
3. Provide an official confidential statement of financial support in U.S. dollars (such as an official enrollment.
4. Submit 2 recommendations and a personal essay 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 Rest of 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 Students may meet the SPU English proficiency equirement by completing the ACE language course by reciving a full recommendation from the American Cultural Exchange Program (ACE) on the SPU campus. Students who eceive a un recommendation from ACE are not required to abmit a TOEFL score.

## U.S. Citizens (Immigrants) Who Are

## Non-native English Speaking

tudents whose first language is not English and who wis enter SPU directly from high school or to transfer from another institution must demonstrate English proficiency by submitting a satisfactory Scholastic Aptitude Test (SAT-I) Verbal score. If a SAT score is not available, students may substitute a TOEFL score of 550 minimum, or a satisfacto score from the Michigan Placement Test taken at the
American Cultural Exchange (ACE) program on the SPU campus. Immigrants may meet the SPU English proficiency requirement by completing the ACE language course by receiving a full recommendation from the American Cultural Exchange Program (ACE) on the SPU campus.

## To Accept an Offer of Admission

Students who have applied for admission will receive a etter notifying them of their eligibility approximately two to four weeks from the date all relevant information -
application forms, transcripts, test scores and recommenaccept an offer of admission, follow these steps

## 1. TUITION DEPOSIT

A $\$ 200.00$ tuition deposit is the student's acknowledgment of acceptance. This deposit should be submitted to the Office of Undergraduate Admissions. This guarantees a place in classes. This deposit is credited to the student's account and is applied toward the initial tuition payment.

## 2. HOUSING REGISTRATION

All students, whether or not they plan to live on campus, must submit the Housing Registration Card found in the admissions packet. Upon receipt of this card, students will e mailed detailed housing materials, including information deposit.

## 3. HEALTH RECORD

Along with the notification of admission, each student will receive a medical health history form, to be completed and required of students who are 1) entering SPU for the first time, 2) returning atter an absence of more than one
calendar year, or 3 ) have previously attended summer quarter but are entering regular University classes for the students enrolled for at least 9 credits. Insurance information is available in Stucent Financial Services. University Student medical insurance plan. Any exceptions to this requirement are subject to the approval of the Healt Center. Proof of comparable coverage from a provider either based in the United States or an acceptable reciprocal agreement is necessary for waiver approval.

## Application for Readmission

Reactivation forms are available in Undergraduate Admissions and should be filled out by:

1. Former students who have not been enrolled within nine quarters (two calendar years) prior to the quarter away from SPU for less than two years, he/she may register for classes without completing paperwork for Undergraduate Admissions
additional transfer work must be submitted as well
2. Students who applied or were admitted to SPU but did not attend within that academic year (autumn through summer quarter). If it has been over two years since the student's original application, a new
rgraduate Admissions will inform the tudert 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 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 recalcuated to ind

## 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 individuaized academic support, monitoring and advising. Additionally, students enroll in two study skills classes to equip them for college course expectations and to clarify ACCESS program may be an expectation for some student upon admission or may be a voluntary option. The charge for three quarters of participation is $\$ 250$. Questions about the program can be directed to Educational Services.

## Disabled Student Services

The University assists with program access through a variety requiring special assistance should contact Education Services (206/281-2457) 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 matriculation. Premiere is a one-day program which provides students with the opportunity to confer with an davisor about the selection of classes, register for classes, receive an official university ID card, take the Math
Proficiency test (if required) and make financial arrangements. Once students have completed Premiere, hey will be prepared to go through new student orientation.

## Orientation of New Students and Familie

 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 Guarter. All of these sessions are designed to help new tudents prepare for 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 essential information for a successful transition to university life.

## Post-Baccalaureate Admission

tudents who have been awarded a baccalaureate degree and wish to complete a second undergraduate degree may apply through the office of Undergraduate Admissions. tudents should contact the Office of Undergradua Admissions or the Post-Baccalaureate Admission ation include: a completed and signed Post-Baccalaureate Admission Application, \$35.00 application fee, one letter of recommendation addressing character and academic ability an official copy of the final transcript from the institution which granted your baccalaureate degree (showing the ranted degree), any additional transcripts showing postfound in the application for admission.
ote to SPU graduates: SPU graduates do not need to submit letter of recommendation. Only transcripts reflecting wor tother institutions must be submitted


## Costs and <br> Financial Aid

## 1998-99 Tuition and Fees

The administration of Seattle Pacific is committed to providing high quality Christian education at a reasonable price. This is achieved through a dedicated faculty who provide nationally recog nized 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 the University's financial stability for both 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 which 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 other 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 are prepared to assist. The goal of all inquirers. It is the hope of Seattle Pacific that alludents will not only have exceptional education experiences, but will also feel that same commitment to excellence and service throughout all of the support areas of the institution.

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, payable in U.S. dollars (\$U.S.). The following charges not apply to courses offered by the Division of Continuing Studies, including summer quarter courses. The Division of Continuing Studies courses and fees are published in a separate catalog. (Special agency degree program tuition rates are established by separate contract.)

## Undergraduate Tuition

(Autumn 1998-Spring 1999)
Per quarter for courses numbered 0000-4999
8 or fewer total credits, per credit $\qquad$

- 11 total credits, per credit 2-17 total credit
... .232 .00
$\$ 406.00$ Additional per credit hour over 17 ............................................. $\$ 406.00$ Tuition for arranged courses ......................................... res apply


## Advance Payments

Resident students ....
$\$ 200$ advance payment (applied as a credit towards account)
Commuter students ............................................. $\$ 201$
$\$ 200$ advance payment (applied as a credit towards
account)
A full refund of the $\$ 200$ advance payment is available if Undergraduate Admissions receives the student's written equest before July 1 for autumn quarter, or 30 days prior to he beginning date of subsequent quarters. Students $\$ 100.00$ room deposit along with their housing application Applicants may request a refund of their deport up until a Appicicants may requesta refund of their deport up until a fter they have completed their contract obligation.

## Special Instruction, Examination,

 Certification, and Other Credit Fees (For specific classes with fees, refer to the 1998-99 Time MusicIndividual instruction fee
1000-2000 level (per credit) ................................. $\$ 125.00$ Piano class instruction fee (two periods weekly), per quarter.
 quarter Theory lab fee, per quarter
Nursing
Nursing application holding fee .................................. $\$ 100.00$
NLN Diagnotic Readiness Exam ...................... $\$ 4000$
Clinical practicum fee (selected courses), ..... Teacher Education
Iternship fee, per quarter ....................................... $\$ 75.00$
aith Tradition in Western Cultures,
$\qquad$ .. 850.00

## Special Examination Fees

Rescheduled final exam fee, per course
edit by exa emination fee lees $\$ 60.00$Per-ccursit-hour fee ......$\$ 100.00$

## 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, wit Schedule and/or revision listings.

## Administrative and Special Fees

Administrative
Application fee. $\qquad$
 If received after $\qquad$ Late registration fee** .................................................................... Late registration fee**
Official transcript fee
 Teacher certification fee....

I.D. replacement card (includes temp) ................................................ Temp ID replacement card..... ACCESS program fee

* A student who has been admitted to the University and subsequently registers for courses is considered a
matriculated student. A matriculation fee of $\$ 50.00$ assessed only once, at the time of an admitted student 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 graduation checksheet, etc.
**Students may register for evening courses (courses beginning at 4:30 p.m. and later) through the first class, session; however, $\$ 20.00$ late enrollment fee is charged quarter. See the University calendar for dates
${ }^{* * *}$ Applications for parking permits may be obtained through the Office of Safety and Security


## Student Services Fees

Education placement files: to be paid every placement year (Nov-Oct.) in which file is actively used. Initial registration lee waived for interns the year they become certificated. Registration fee $\ldots, \ldots . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . ~ \$ 5.00$


Two-four credits (each). . Five or more credits (each) .................................... $\$ 5.0$ and/or email of job listings, from February through October)
Current students ............................. $\$$ $\$ 7.00 / \mathrm{mo}$ or $\$ 15.00$ for
SPU alum ............................................. $\$ 11.00 / \mathrm{mo}$ or $\$ 25.0$ Community ...................................... $\$ 15.00 /$ mo. or $\$ 35.00$ Psychological testing (administration, for 3 conserecutive month Psychological testing (administration, interpretation, and counseing with regard to aptitude, skills, personaity
analysis, and placement) ........... based on actual costs of materials and scorin Counseling Center services (per session) ..............variable Student Health Center services
Residential students .........................included in Room and Board charge Commuter students ......... $\$ 15.00$ per quarter on first visit
Tests and pharmaceuticas. ...... based on actual costs materials, special procedures and equipment

## 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 current insurance will cover them out of their home area to supplement these basic services. The University offers information on a medical insurance plan for accidents, sickness, and prolonged illness which is available to all undergraduate matriculated students (and their families) enrolling at the University for a minimum of 9 credits and al matricuated graduate students (and their families)
enrolled for a minimum of 4 credits. The University recommends this medical insurance to cover unanticipated expenses that could otherwise interrupt educational endeavors. Enrollment and benefit summary information for this voluntary plan is available in the Student Health Center and Student Financial Services.
All international students are required to enroll in the Unversity student medical insurance plan. Any exceptions Center. Proof of comparable coverage from a provider either based in the United States or an acceptable reciprocal agreement is necessary for waiver approval. Services or the Health Center. Waivers can be obtained the Health Center only and must be complete prior to the tenth 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 tenth day of the quarter. Once an application has been made, insurance coverage will be in effect for the schoo
year. An additional application must be submitted for summer quarter coverage.

## Special Study Programs

Students enrolled in special study programs (e.g., European Quarter, Latin American Studies, 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 th students may meet the tour departure date. Study tours must be paid in full prior to departure

Senior Citizen Program
In keeping with the goal of service, SPU has a program that fers tuition-free courses to persons 65 years of age or oider. Senior adults of this age bracket may attend on-campus undergraduate classes as auditors or for academic credit. They may take courses in special interes areas and/or complete a bachelo's's degree. The only
limitation to the program is the availability of space in particular classes. Registration for senior citizens who us 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 Undergraduate Admissions. Non-matriculating students need only register at Student cademic Services.

Charges for Room and Board - Per Year

## Residence Halls (2 per room)

Platinum meal plan $\qquad$
old meal plan..

ronze meal plan ........................... $\$ 3,35$
Triple room rate is $\$ 600.00$ less per year)

## Robbins Hall

2-person (Block 25/\$100 Adv Pts) $\qquad$ $\$ 4,542$
$. \$ 3,942$

Campus Apartments
2-person
4 -person

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..................
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Theme Housing
+person (Block 25 Aut quarter only) $\qquad$ . $\$ 3,581$
Block 50 (per purchase)
Block 25 (per purchase) $\qquad$

Detailed descriptions of meal plans are mailed with the housing con
(206) 281-2188.
The dining hall 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 efund 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 closures of Residence Life Guidebook.

Estimated University Expense for 1998-99 (Undergraduate - full time)

| Per <br> Quarter | Per <br> Year |
| :--- | ---: |
| $\$ 4,847$ | $\$ 14,541$ |
| $\$ 1,858$ | $\$ 5,574$ |
| 708 | 2,124 |
| $\$ 7,413$ | $\$ 22,239$ |


ansportation, average cost TOTAL

## Financial <br> Arrangements and Services

## Registration

SPU uses the BANNER Information System to process registration materials and complete financial arrangements When a student has made a selection of preferred courses and accomplished the necessary preliminary steps of the Student Academic Services for entry into the system. When the student's enrollment is accepted by 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 also Refunds and Account Adjustments). All students then receive from Student Financial Services a statement of their charges. Students who are financial aid recipients must complete all the required paperwork before any financial aid will be credited to their
student account. In addition, certain types of financial aid, student account. In addition, certain types of financial aid,
such as loans and Washington State Need Grants, cannot be issued until the check and/or signature card has been signed by the student in Student Financial Services.

## 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. A copy of Financial Services to an additional address (such as the student's parent) at the student's 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 Ofer of Financial Assistan account. It remains the student's responsibility, however 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 should include the student's name and student identification number. Such checks may be mailed to Seattle Pacific University, Student Financial Services, 3307 Third Avenue West, Seattle, WA 98119 , or delivered in person. Students may phone, mail, or fax their Visa or Mastercard payment, noting

## Payment Policy

## International Students

Students who are not citizens of the U.S. or Canada have the same payment options as U.S. students, who must make ful payment prior to the first day of classes, or make appication
to Student Financial Services to use the extended payment option (see below). If a third party is involved (such as an embassy) the University will bill the third party directly provided the student has filed the appropriate documents
with Student Financial Services. All tuition, fees, and other charges are payable in U.S. dollars (\$U.S.)

United States and Canadian Students Students may choose to meet financial obligations in two ways: (1) payment in full on or before the first day of option. If a student does not formally apply for the extended payment option, the student is assumed to be choosing to pay in full by the first day of the quarter. Students participating in study tours are not eligible for the the extended payment option fails to make the required payments, the missed payment(s) will be considered past due and will be subject to interest charges. If nonpayment continues, the student may be withdrawn from their extended payment option and may not be permitted to made in US. dollars ( $\$ U S$.

## Payment in Full

Students may meet their financial obligations each quarter by paying in uill by October 12 for autumn, January 11 for winter, and April 12 for spring.
Three Month Extended Payment Option If students choose this option, the total charges, after all three equal payments. In order to particinate in this plan the student must fill out a payment plan application and return it to Student Financial Services with the first payment and an application fee of $\$ 25$ according to the following schedule (a new application must be submitted each quarter)

## Autumn quarter 199

Application Deadline/First Payment ........ September 10, 1998 ThirdFin Payment.................................... October 12, 1998 November 10, 199

## Winter quarter 1999

Application Deadline/First Payment ......... December 10, 1998 Second Payment......................................................... 10,199
Spring quarter 1999
Application Deadline/First Payment ................ March 10, 1999 Second Payment.... $\qquad$ April 12, 1999
... May 11, 1999

Example: Payment Alternatives
A student registers for a full course load ( $12-17$ credits) for autumn quarter, and lives in a University residence hall. The total balance is:
Tuition - Autumn

| Per Quarter | Per Year |
| :---: | :---: |
| \$4,847 | \$14,541 |
| 1,858 | 5,574 |
| 6,705 | 20,115 |
| (500) | (1,500) |
| \$6,205 | \$18,615 |
| Option 1 | Option 2 |
| Pay in Full | 3-Month Plan |
|  | $\$ 25$ set-up fee \$2,076 |
| \$6,205 | \$2.077 |
|  | \$2.077 |

*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

Students whose tuition is reimbursed by their employer may be eligible for this program. Documentation confirming enrollment in an employer reimbursement program is mately 30 days after the quarter ends. All other fees and charges are due when billed. Call Student Financial Services for more details.

## Interest Charges

A monthly interest charge ( $15 \%$ per annum, $1.25 \%$ per month) will be assessed against any past due portion of the balance shown on the student's last statement of accoun adherence with the chosen payment option.

## Unpaid Student Charge

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 deny enrollment, including advance registration, or 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 gency for collection of the total amount due, plus all collection costs applicable

## Late Registration Charges

in order to provide prompt, efficient service to the students who register at SPU each quarter, certain times are Financial Services to process enrollment materials and handle student payments.
A late registration fee of $\$ 20.00$ is charged if a student and a course to their schedule of classes in Student to the University Calendar for specific dates). Students may egister for evening courses (courses beginning 4:30 p.m. and later) through $4: 30 \mathrm{p}$.m. on the fifth day of the quarte receives a typed petition from the student explaining the extenuating circumstances. The student must seek petition is pending. Extenuating circumstances include: ilness, injury, death in the family, problems with
immigration. In all cases, the final decision to approve or deny a late registration will be made by Student Academic Services. Each late course addition will incur a $\$ 20$ Late Registration Fee,
subsequent quarter in advance of new students. Dates for registration of both groups are publicized widely on campus.

## Prepaid Accounts and Credit Balances

 Many students and parents find it convenient to budget for part or all of a quarter's costs in advance of the required payment dates. In order to accommodate this need, fundsmay be paid into an individual student account at any time may be paid into an individual student account at any time
after the student's formal admission to the University. Withdrawals of credit balances from a student's accou must be requested in writing by the student, along with the presentation of an SPU ID card or other picture ID. To allow adequate processing time, withdrawal of credit balances will take 24 hours from date of request. Credit balance withirawara requests should be sent to Seattie Pacific Seattle, WA 98119.

## Banking Service

The SPU Credit Union is located beside the First Free Mjechodist Church and US Bank is located on campus adjacent to the University Bookstore. Commercial banking ervices are conveniently available to students. A cash

## Refunds and Account Adjustments

If a student decides to add or drop courses, withdraw fron 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 Stude handled by filing the change of registration form in Stude Academic Services or on the SPU Homepage using the
BANNER Information System via the World Wide Web. If complete withdrawal is contemplated, and/or if the studen plans to cancel the residence hall contract, proper notification must also be provided to the Office of University ervices (see the Residence Life Guidebook for withdrawal procedures).
If a student does not provide proper written notification o the University or on the SPU Homepage using the 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 orm 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 enroliment changes result in a refunc tuition will be refunded according to the schedule which
ollows. If the refund results in a credit balance on the account, the student may obtain a check by submitting a wing balance to thudent Financial Services. If there aplied against the owing balance. Any questions regarding ition refunds should be referred to Student Financial Services.

## Schedule of Tuition Refunds for Day and

 Evening Classes
## A week is defined as five <br> rst day of refled as five business days beginning on the

 irst week of the classroom instruction.)First week of the quarte

ourth and fifth week of the quarter.
ixth and following weeks of the quarter ........................ 25\%

## examples:

1. 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 that for 15 .
2. A student who was originally enrolled for 13 rops one 3 -credit course the second week of citas he refund is as follows: hell tuition (13 credits)
 Difference... 5 percent refund................................................................. $\$ 90$ Assume the above student drops a 5 -cre.............. $\$ 1$. the second week of class. The refund is as follows Full tuition ( 13 credits) .................................. $\$ 4,847$ uition for 8 credits ( $\$ 232$ Difference ... 5 percent refund
fund ...............
 drops 2 credits and at the same time fords 3 credits during the second week of class. The result is as follows:
Old level - 11 credits $(\$ 406 \times 11)$...................... $\$ 4,466$ New level - 12 cr

84
Assume separate days:
Drop 2 credits (from 11 to 9)
efund $=75$ percent of $\$ 406 \times$
Add 3 credits (from 9 to 12)
12 credit
$\qquad$
6. A student completely withdraws from all courses in the second week: Full tuition 13 credits) $. \$ 4,847$ Student owes $\frac{-3,365}{\$ 1,212}$

## 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 withdrawa process.

## Complete Withdrawal

If, during a quarter, a student who receives financial aid completely withdraws from the University, the tuition refund culated as described above and applied first to the student's inancial aid source(s), and the balance, if any, is credited to the student account. The amount of tuition refund will be returned to financial aid sources based on Federal guidelines in the following order: Federal SLS loan unsubsidized Fedeal Plus Loan; Federal Perkins 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 further information.

## Room and Board/Room Refunds

Students who withdraw from University housing will be refunded their room and board charges based on the following schedule (the first week of the quarter begins the day the residence halls officially open and ends the Saturday after the first day of classes):

Withdrawal during first week of the quarter $\qquad$ ... $90 \%$ Withdrawal during the second week of the quarter ....... Withdrawal during the fourth and
Withdrawal during the fourth an
There is no refund for students withdrawing after the fifth week of the quarter. A week is defined as the first day in housing through the Saturday after classes begin. Astudent who cancels his or her room and board $\$ 50,00$ of the room deposit if canceled before July 1 and will forfeit the total $\$ 100.00$ room deposit if canceled fter July

Room and Board Cancellation Charges for Continuing Students
Students contract for housing for the full academic year. Students may request a refund for the $\$ 100$ room deposit once they complete their contract obligation, or if they
cancel their room and board contract in writing for the following quarter within one month of the residence hall closing date of the current quarter.

## 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
er parents is calculated according to a federally-mandate system called federal need analysis, which takes into ccount many factors representing the family's financial situation. To the extent funds are available, the University will supplement the amount expected from the family wit scholarships, grants, loans, or employment (singly or in
various combinations) up to the amount of the student's documented financial need. The amount and source of assistance will be determined on the basis of available unding 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 undergrad
ate degree or teacher certification from SPU. Media te degree or teacher certification from SPU. Media Full-time enrollment ( 12 credits per quarter) is required or scholarship eligibility.

## Application Proces

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

1. Complete the admissions process and been admitted to the University.
. Complete the Free Application for Student Aid (FAFSA packet) and mail it to the Central Processor. The FAFSA packet may be obtained at a secondary school or a college financial aid office.

If requested to do so, the student and his or her family must also provide additional documentation required to by completing a FAFSA each year.
To apply for scholarships through SPU, the student must:

1. Complete the admissions process. The admission application also serves at the scholarship
Complete the other requirements as specified under the scholarship listing

## Application Deadlines

SPU does not have a deadline for financial aid application. 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 atter 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 lication materials must be received by Mroch 1 for his 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. The proportion of each type of aid varies from
student to student and year to year depending upon student eligibility and the amount of funds available in the various programs.
Freshmen who meet the admission and financial aid application deadlines will typically receive notification of awards the first week of April; transfer students typically are notified the first week of May

The student must validate acceptance of the financial Assistance by the specified deadline.

## Disbursement of Financial Aid

Once a student has completed the financial aid application award process, has tufililed al the requirements listed on 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 funded by the State 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 a promissory note in Student Financial Services, the loans may be applied to his/her account.
3. Federal Stafford Loan (subsidized and unsubsidized): Once the student has taken a loan application to a bank for processing, the bank will send the funds to SPU one of two ways. If the bank student has given the bank authorization to send the loan funds electronically, the funds will be automatically applied to the student's account. If the student has not given authorization to the bank, the student will need to sign an authorization card in
Student Financial Services before the loan funds will be applied to the studentís 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.
4. Washington State Need Grant and the Educational Opportunity Grant (EOG) are disbursed via che
which is available for the student to pick up in which is availabie or the student to pick up in of the quarter.
The balance due on a student's account can be paid fron tudent employment, summer savings, parent contribution (if dependent), and other resources.

## Satisfactory Progres

To remain eligible for financial assistance, a student is expected to complete his/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 at the University. At the completion of the second year
study the student must maintain a cumulative 2.0 GPA. 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
80\% of the credit hours attempted at SPU Students averaging $80 \%$ satisfactory completion of credits attemp will be eligible to be considered for financial aid. Current financial aid recipients must satisfactorily complete a minimum of $80 \%$ of all attempted credit hours each academic year. For normal academic progress, full time
undergraduate students are expected to complete an
verage 12 credits per quarter. At this rate, a student is expected to complete an undergraduate degree in five ears. Part time students enrolled in an undergraduate degree or certificate granting program must complete minimum of 6 credits per quarter or $80 \%$ of attempted
credits, whichever is greater. Graduate students must號 complete a minimum of 4 credits per quarter or 80 percent calculated percentage will be rounded up to the nearest full credit hour. Completed credits are determined from Coursework which has received a grade of A, B, C, D, or P at

## he 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 or 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 $80 \%$ of attempted credits each academic year will be placed on financial aid probation during the 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 Sompleted to bring the student back into coA 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 inancial aid. Written appeals due to extenuating circumstances should be submitted to the studentis Financial Services counselor. Please note that some financial aid programs may have criteria which vary from the above-stated progress standards. Detailed information rovided to all students along with the Offer of Financial Assistance.

## Refund/Repayment

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

## Veterans' Benefits

SPU is approved by the Higher Education Coordinating Board ooffer educational assistance to matriculated students who qualify for veterans' benefits. These benefits may not gen or media courses. The certiied to receive 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. Full-time enrollment ( 12 credits per quarter) is
required for scholarship eligibility. Complete information required for schoarship engibly. Complete informai Services.

Seattle Pacific University Merit Fellowships ar awarded to entering freshmen selected on the basis of demonstraed National Meit Semi Finalists or Finalists Renewable.
Seattle Pacific University Free Methodist Scholar Award is awarded to an entering freshman based on a 3.15 GPA with a minimum SAT score of 1300 ; demonstrated church, school, and community involvement; and affiliation conferences. Renewable. Trustee's Scholar Aw
freshmen on the basis of academic excellence and wito demonstrate leadership potential through school, church and community involvement. Renewable.
ROTC Academic Achevement Awards are awarded to ROTC academic scholarship. Renewable. Contact Student Financial Services for application procedures. President's Scholar Awards are awarded to entering freshmen and transfer students based on academic excellence and whio demonstrate leadership potentia through sch
Renewable.
Provost's Scholar Awards are awarded to entering freshmen and transfers based on outstanding academic achievement and who demonstrate leadership potentia through school, church and community involvement.

## Renewable.

Phi Theta Kappa Transfer Scholarship is awarded for academic excellence to an entering transfer student who has earned an Associate of Arts degree
Dean's Scholar Awards are awarded to entering
freshmen and transfers based on academic achievement and who demonstrate leadership potential through school, church and community involvement. Renewable.
freshmen who are admitted by March 1. To receive this award Student Financial Services must receive a letter from the student's secondary school confirming valedictorian status.
Washington Scholar Awards are available to students who have been designated as Washington Scholars by th Renewable.
Faculty/Staff Scholarships are funded by donations from employees of SPU. The fund supports school scholarships and recognizes outstanding students in each o the academic disciplines.
Fine and Performing Arts Scholarships are awarded 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 tudents who participate in the SPU Singers or Chancel Players. Auditions are presented before the fine arts faculty
and University Advancement. d University Advancement emonstrated outstanding ability in to students who hare ymnastics and volleyball, women's and men's basketball, cross-country, and track. Contact the Athletic Office for urther information.
inisterial Scholarships are awarded to fulltime, pastors or missionaries from the United States or Canada. Renewable.
SPU Alumni Scholarships are awarded to fulltime, dependent, undergraduate children of Seattle Pacific niversity graduates. Renewable.
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 tudents who are chosen by a scholarship committee with organized Christian church in the United States or ervices and must provide that office with a letter of confirmation for each scholarship awarded by October 15 . Contact Student Financial Services for further information. Minority Church Partnership Awards provide matching scholarships to students who receive a scholarship from Complete information about this program is available in the Office of Campus Life.
Seattle Pacific University Grants are awarded to andergraduate students on the basis of financial need, as stablished by a processed FAFSA.
ederal Pell Grants. This federal program provides ants to quall amilergraduate students from moderate Federal Supplemen
Grant (SEOG). This federal program provides funds to the University for grants to students with financial need a etermined by a processed FAFSA.
Washington State Need Grant (WSNG). This state program provides financial assistance to students enrolled high financial need. Student Financial Services will nominate eligible students to the Washington State Higher Education Coordinating Board and will notify those who qualify. Department of Religion majors are not eligible. A are available.

## Other Scholarship Fund

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 egarding specific application deadlines and details can be directed to Student Financial Services
Ackerley Merit Award
Arthur Andersen and Company Merit Award
ophie Anderson Trust Fund
hilip Ashton Scholarship
Lowell Berry Memorial Scholarship

Harold and Lois Best Scholarship
Tony and Thelma Bettencourt Sch ony and Thelma Bettencourt Scholarships Brohamer Nursing Scholarship Robert W. Burwell Engineering Scholarships Callen Missions Scholarship Carpenter Scholarship Cascade College Alumni Scholarship Causey Biology Scholarship
Causey Theatre Scholarshi Chapman-Stewart Scholarship Ben Cheney Scholarship Chevron, USA Merit Award Cochrane Scholarship Custom Business Systems, Inc., Scholarship Deffenbaugh Electrical Engineering Scholarship Dietzman Scholarship C. Dorr Demaray Scholarship

Deshazer Scholarship.
Kim Drone Scholarship
Winifred Rhoades Emmanuel Music Scholarship Ethnic Diversity Scholarship Farmers Insurance Group Scholarship Charles Fogg Scholarship C. Melvin Foreman Scholarship Charles and Pearl Foster Scholarship Class of 39 Nellspring Scholarship
Clayton E. Gibson Scholarship Bertha Gilbertson Music Scholag Roy Glancy Athletic Scholarship Glaser Foundation Disabled Student Scholarship Lydia Green Nursing 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 Helsel 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 Hutchinson Memorial Scholarsh Larry Issak Scholarship Larry Issak Scholarship Dorothy Kennedy Scholarship Dorothy Kennedy Wellspring Scholarship Kirkpatrick Scholarship
Sarah Louise Knight-Wimpy Scholarship Kreider Home Economics Scholarship
Michael K. Lake Classical Guitar Scholarsh Arthur and Gloria E. Langer Scholarships Harriet and Winifred Leighton Music Scholarships Le Master Nursing Scholarship Lemcio-Philipchuk Scholarship Lesser Nursing Scholarship Margaret McCarty Scholarship McClurg Vocal Performance Scholarship David L. McKenna Scholarship McNeese Athletic Scholarship Alice C. Marston Schola
Merrick Scholarships
tto M. Miller Physics Scholarship
iiller/Wellspring Scholarship
Minority Student Leadership Scholarship
Morgan Engineering Scholarship
Burton Moyer Scholarship
Native American Youth Scholarship Lloyd E. Northrup Jewish Student Scholarships orthrup Scholarship
ursing Leadership Scholarship
Proressional Aurses Traineeship Grants
Pacific Coca-Cola Scholarship
Peat-Marwick Scholarship
arl Phillips Scholarship
Ellen Joyce Pinnt Religion Scholarship
Registered Nurses Scholarship Catherine M. Richey Memorial Scholarship ichards Teacher Education Scholarship Robichaud Scholarship
lifford E. Roloff History Scholarship Rosser-Danielson Speech Scholarship Mildred M. Schoenhals Music Scholarship igma Rho Scholarship
heard Alumni Falconette Scholarship Ken Smith, Sr. Computer Science Scholarship Marge Snyder Memorial Nursing Scholarship ternberg Athletic Scholarship Margaret Sutton Scholarsh Roy Swanstrom Centurion Scholarship Robert L. Taylor Memorial Scholarship Alfred A. Thorn World Missions Scholarship W. Thuesen Trust Fund

Vereide Memorial Scholarshhip Walters Nursing Scholarship Washington Auto Dealer Scholarship Washington Mutual Scholarship obert L. and Buelah N. Whitlow Scholarship Wimpy Scholarship

## Loans

Federal Perkins Loan. This program combines funds rom the government and SPU. The borrower must satisfy eligibility requirements as established by the United States Department of Education, and demonstrate financial need. erkins Loans carry a simple interest rate of $5 \%$ and are epayable over a period of 10 years following graduation or school. No interest is charged while students are in school and during a nine month grace period thereafter.

| Sample Repayments |  |
| :---: | :---: |
| Loan Amount | Quarterly Payments |
| \$3,500 | \$112 |
| \$4,000 | \$128 |
| \$5,000 | \$160 |
| \$6,000 | \$192 |

Nursing Student Loan Program. Nursing students with th least sophomore standing are eligible for loans to assist $t$ meeting their educational expenses. Loans carry a simple interest rate of 5\% and are repayable over a loyear period study.

Federal Stafford Loans (subsidized and unsubsidized) These loans are made through banks, savings and loan ssociations, asis who satisfies the eligibility requirements as ply who salls the United States Department of Parent Loan for Undergraduate Students (PLUS). arents of dependent undergraduates can borrow money hirough lenders to help supplement educational costs. Th PLUS Loan has a variable interest rate not to exceed $10 \%$ ave payments deferred. Contact Student Financial Service or more information.
SPU Undergraduate Student Loan Program. This rogram, sponsored by SPU, was created to provide assistance to needy students. Specificic information about the rogram, student eligibility criteria, and application forms re available in Student Financial Services.
rom which, under emergency conditions, limited of money may be borrowed for up to 90 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 available to all SPU students, whether or not they are financial aid recipients.
All employment opportunities are posted outside Student Financial Services and on the SPU Homepage on the Web (see Financial Services and Transactions). Once receive payment from the Student Payroll office if they wor on-campus and payment directly from their employer if they work off campus. It is the studentís responsibility to make payment on hi/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 regardless of their financial aid eligibility. For those students who have been awarded work-study they will ber 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 form non-work study funds. Therefore, any on-campus job is available to any student and
Financial Services will determine after the student is hired if the job should be classified as a work-study or non-work study job.

## Community

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 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
employing work-study students. There are severa hundred jobs available and any wages earned through this program d the FAFSA (Free Application for Federal Aid) for the next year. Please note, Religion Department majors are not eligible for the State Work-Study program.

## Off Campus Employment - Regular Part-time Jobs

There are many part-time jobs posted in Student Financial Services from local employers. These jobs are availab


## Campus Life

A complete understanding of education recognizes that learning occurs both in and out of the classroom. At SPU the campus life department is charged with partnering with faculty, staff, students and others to create an integrated educational experience. We value the personal and community experiences that enhance our capacity to learn, to love and to develop an understanding of integrity and justice. These qualities, along with the ability to work hard and play hard, are an integral part of SPU's model of education. The Division of Campus Life is dedicated to fulfilling and enriching the mission of SPU by providing educational services and cocurricular opportunities which develop women curricular opportunitites wholeness through scholarship, leadership, service, and excellence in all endeavors.

## Student Life

The Department of Student Life is dedicated to enhancing a vital campus community through dynamic curricular and cocurricular opportunities. By way of collaborative
partnerships with student government and University departments, Student Life:

- creates opportunities for corporate worship, fellowship,
service and traditions,
- builds lastinl relationships, partnerships and a sense of - responsibility to the community,
- spoisors social, educational and cultural programming to build understanding of different cultures and world views - provides leader
opportunities,
opportunities,
- coordinates orientation for new students,
- encourages students to find innovative solutions for - encourrages solving and conflict resolution,
- froblilitates campus communication and information services, and
-aticulates and implements University policy


## Student Leadership

SPU is recognized for the quality of student leaders and leadership programs. Our programs help students identify personal abilities and foster a supportive environment wherein they can be utilized. Working in close coordination
with the Associated Students of Seattle Pacific, we offer with the Associated Students of Seattle Pacific, we offe classes, quarterly events and a diversity of leadership activities. Specific programs include various clubs and organizations, eaderssip practicums, the accis
student publications and the Student Senate.

## Community Expectations

Students of SPU are members of the SPU community. All communities (families, cities, companies) expect that thei members will uphold certain standards of behavior and contribute to the welfare of the group in specific ways. The
expectations of the Seattle Pacific community, explained below, are standards in behavior which reflect the education in the context of a Wesleyan heritage.
Christian institutions, like Christian individuals, are suided by the Biblical standards of moral integrity, social consciousness, personal health and an effective Christian witness. The University's behavioral standards are designed to provide a positive learning environment and to promote the intellectual, social, spiritual and physical well seing of al Students. it is contingent upon a student's agreement to abide University is contingent upon a students expectations. These behavioral expectations are by these expectations.
outlined in this catalog and more thoroughly explained in the Student Handbook.

In keeping with University expectations and to ensure a spirit of Christian community, SPU does not permit students to: (1) violate local, state or federal laws; (2) participate in activites which disrupt the educational process of the University; (3) participate in cohabitation and/or sexually immoral conduct, including extramarital and homosexual activity, (4) use or possess tobacco, alcoholic beverages or illegal drugs or abuse either prescription octs which involve prembling or dishonest behavior; (6) participate in acts gambling or dishonest behaviord whol other forms of which involve racial, sexual articipating in these activities are subject to denial of admission, cancellation of registration and/or disciplinary action up to and including dismissal from the University. However, the University maintains respect and concern for each individual and provides a redemptite process. In order to maintain an effective chistian westices of
students are expected to avoid questionable praction entertainment, conduct and appearance.
To promote the values of corporate worship, integration of faith and learning, and equipping students for Christian leadership and service, the Chapel/Forum program offers a diversity of options, including morning chapes, faculy-led small groups, urban ministry, special or more) are required to earn 15 chapel/forum credits per quarter.
A student's signature on the application for admissions signifies an agreement to support and conform to the socia standards of SPU. Non-matriculated students admitte
special programs of the University are expected to speckaowledge these goals by maintaining the social standards of the institution while on campus or while involved in University related activities.

## Programs

The following Student Life programs are designed for The following Student Life programs are dution.
students to make the most of their education

## Associated Student of Seattle Pacific

(ASSP)
The Associated Students of Seattle Pacific, in order to further a spirit of community, ensure a voice in institutional further a spirit of comote an atmosphere conducive to indivividual and corporate growth with a Christ-centered perspective. At SPU the trustees, administration, faculty, staff, and students will promote the best interest of the student and of the institution in fulfilling its mission in higher education.

As an independent and fully student run organization, our purpose is to represent the students to the faculty and student body. The ASSP provides representation through a Student Senate, social and educational events through the Student Union Board including a number of University Traditions, a student newspaper, yearbook and literary journal through the Board of Student Publications, and partnership with Campus Ministries.

## Campus Ministrie

As a part of our education mission and philosophy, the University seeks to involve student in activities both in and out of the classroom which will expose them to a worldvie and lifestyle informed by Christian faith. These include fellowships and opportunities to serve people in our city and around the world. Additionally, we believe participation in the activities of a local church and other events can be helpful to a student's spiritual formation.

Campus Ministries sponsors both on-and off-campus programs promoting such growth. Chapel/Forum is a opportunity to share in various forms of worship and learning and to hear guest and faculty speakers, musica Chapel attendance is required of all full-time ( 12 credits o more) undergraduate students. Further explanation of this quirement can be found in the Student Handbook.
portunities to minister within the community, urban and worldwide context. Small groups exploring a variety of topics surrounding Christian faith and community exist for residential and commuter students alike.

Student Ministry Coordinators are students who are selected to help raciitate ministry opportunities in the
traditional residence halls. An all-campus gathering, Group, brings $350+$ students together for fellowship each week. Urban Involvement gives students ministry experience in Seattle, which is one of the most dynamic urban centers in America. SPRINT prepares and sends students to take part in cross-cultural ministry on a world-
wide scale. Further information on these and other option can be found in the Student Handboos and other option publications distributed by Campus Ministries.

## Center for Relationship Development

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 witnesse 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.
Funded by a grant from the Murdock Charitable Trust, he Center is dedicated to fostering positive relationships, eammates, siblings, bosses or potential marriage partner the Center aims to solve relationship problems before the egin. Its efforts focus on three major areas: education, treach, and research.

## Education

Along with the Seattle Pacific Department of Psychology, the Center for Relationship Development annually sponsors two
academic courses in relationship development. Relation ship Development I focuses on practical principles for bincing healthy relationships. The class addresses such family of origin concerns, unconscious relationship needs
find and the dating process. Relationship Development I/ is a advanced course presenting a practical basis for making healthy relational commitments. It focuses on such topi covenant relationships.
Outreach
The Center for Relationship Development also sponsors special programs designed to meet specific relationship (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
TYe Marriage Mentor Club. A unique feature of the serve as mentors during the newlywed's first married year. 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 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. In also continuously
evaluates its programs to ensure their effectiveness.

Student Programs
Getting involved is an essential element for success in college. Student Programs is committed to helping students maximize their educational experience through a full spectrum of opportunities and programs.
Events and Programs
Seattle Pacific is a thriving and active community with a wide variety of programs, events, and activities.
We work hard at providing quality social, cultural, and educational programs. Additionally, Student Programs which:
-fosters new programming ideas,
-evaluates and gives input on established traditions, and -assists in the coordination of the University Maste Calendar to insure concerted programming.

## Information services

Uni-Com is a student run campus information and service st floor of the Student Union Building Its various services includes handling phone calls, welcoming visitors, assisting with vending machines, issuuing bus, swim, and Seattle Art Museum passes, as well as managing the lost and found.

## Assessment

Each year the University is involved in assessing student setter the quality of our service as well as improve the learning environment.

## Educational Services

Educational Services provides co-curricular programs designed to enhance the classroom experience and enrich cross cultural understanding. Campus programming and classes, as well as individual advocacy and advising are offered by the department staff. The Academic Support Center, the Career Development Center, International Programs and Ethnic Minority Students Outreach are maximize their college experience and life after college graduation.

## Academic Support

Student success within the classroom is a commitment of SPU faculty and staff. In order to support the educationa success of all students the Academic Support Center offers number of classes and seminars throughout the academic tutoring for many classes are available to undergraduate students. Many students participate in the ACCESS program which provides individualized academic support, monitoring and advising to first year students.
Center staff also coordinates services for students with learning and physical disabilities to promote academic and co-curricular program accommodified student with a disability requiring assistance an accommodations should contact the Academic Support Center (Tiffany 100; (206) 281-2457) to set up an intake interview to determine the level and type of services needed. Students are required to provide documentation that describes their disability and the recommended documentation of the disability should have occurred within the last three years. For full accommodation services, students need to identify themselves to the Center staff a least three weeks prior to the quarter of needed services.

## Career Development

The move from college to career represents a transition of major importance. The goal of the Career Detvelopment plans and transitions based on an understanding of their own abilities, interests, and faith values,
Some of the career exploration services offered are individual counseling, vocational testing and classroom instruction. The Student Career Connection program allows
students the opportunity to meet with a professional in their field of interest to obtain first-hand information about the field. An extensive Career Resources Library contains information on occupations, employers, graduate schools, career planning and job search topics. A computerized career guidance system and access to web-based caree resources are also available

The Internship Program, coordinated by the Career Development Center, offers students opportunities to
further clarify their career goals and 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, international and recreation.

Job search assistance is provided on topics such as resume writing, interviewing skills and job search strategie as well as through individual counseling. An on-campus
ecruiting program brings representatives from national and cal companies, government and non-profit agencies, and chool districts to campus to interview students. Job stings are available in notebooks in the Career Resources ve placement file system is maintained for School of ducation graduates.
Career Development Center Staff also teach a course on Career Exploration and Planning.' This one-credit class assists students in exploring and defining their academic and faith commitments inform yocational choice

## Ethnic Minority Student Outreach

 The SPU community values the diversity that American students from various cultures and experiences bring to the campus. Students, faculty, and staff members promote campus awareness and sensitivity to multi-ethnic and multi cultural perspectives through a variety of seminars, programs and cultural showcases. Multi-ethnic students areencouraged to share their cultural experience within the university through programs like the Martin Luther King Day and the Native American Week. Opportunities for
involvement include the Committee on Racial and Ethnic Affairs, the Student of Color Cadre, and the Seattle Coalition or Educational Equity. Al students are inited to participat tions, and social justice.

## International Programs

eattle Pacific University, located in a major urban center within the Pacific Rim, recognizes the importance of maintaining a global perspective. To that end, Internationa Programs provides support to international students, study service and cross cultural programs for all member study, service and cross cultural programs it an membe community. Al students are invited to participate in the international fellowship and educational programs, he international Club, and the 'Christianity From a World View' Cadre.

## University Services

## Residential Life

SPU takes pride in the fact that their education progran goes beyond the classroom by providing experience in

SPU provides housing for approximately 1,3
undergraduate students in traditional and apartment
settings. The residence halls vary in size from 120 to 400 residents. These halls are divided into floors containing wo- and three-person rooms, common bathroom facilities and in many cases, a floor lounge.

All rooms are supplied with single beds, mattresses, desks, dressers, chairs, a telephone, television cable service and internet access. Campus apartments typically house two or four students and include kitchens. Returning students are given priority for living in these apartments. Traditional indicated in the residence hall contract.
Limited housing is also available for graduate students and families. Guest housing units are available at a minimal cost on a first-come, first-served basis for family or friends visiting students.

## Determining Residence Statu

SPU has a commitment to a living-learning community. For that reason, all undergraduate students enrolled for 9 or more credits are required to live on campus unless one the following applies: The student lives at home wit parents, legal guardians or spouse; the student is 21 years of age or older; or the student has achieved senior status Infrequent exceptions to this policy are made if unusua circumstances warrant such a decision. Students who believe they have circumstances warranting special consideration to live off-campus must gain approval from the mpus Housing Petition form on which the situation and reasons are described.

Petitions for off-campus housing must be received by
the Office of University Services no later than June 1 for th subsequent academic year.

Further information regarding housing and food service is available through the Office of University Services, (206)

## Housing Registration

All students living off-campus must complete and return an Off-Campus Housing Registration Card to the Office of University Services.
Students planning to live on campus must complete the Campus Housing Appiication and submittit with 1 Ro priority system which includes the date on which the Campus Housing Application and the room deposit are received by the University.

## Campus Dining Services

All students who reside in traditional halls contract for one of four flexible meal plans. In addition to offering continuous meal service, the plans entitle participants to bar, the convenience store or espresso cart. Meal plan options are also available for the apartment resident,
commuter student, faculty and staff.
The goal of Campus Dining Services is to offer a variety of nutritious, high quality food, prepared and served by associates who take pride in their job. The quarterly meal meal the day residence halls open and ending with the evening meal on the last day of examinations.

## Athletics

## Intercollegiate Athletics

Seattle Pacific University athletics provides an arena wherein student-athletes are guided toward excellence in physical performance and leadership through the
participating in intercollegiate sport at the highest possible evel. In so doing, athletics fosters pride in the University and creates a window through which the world may witness. We believe that intercollegiate athletics is a means to an end, not an end in itself, that the process is as important as the product and that the person is more important than the
program. We are fully committed to the academic success of each student-athlete, their physical welfare and to the principles of fair play and amateurism as defined by the NCAA.

SPU is a member of the NCAA Division II and fields the
Following intercollegiate teams:
Baskethall. $\begin{array}{ll}\text { Basketball: } & \text { men, women } \\ \text { Crew: } & \text { men, women } \\ \text { Cross country: } & \text { men, women } \\ \text { Gymnastics: } & \text { women }\end{array}$
Gymnastics: women
Soccer: Track \& field: men, wome Volleyball: women
The Falcons have achieved outstanding regional and nationa success over the years competing against other NCAA
institutions in Divisions I III, and III in addition to local institutions which have now become NCAA members and have joined our existing Pacific West Conference. Phone 206-281-2085 Web site: www.spu.edu/depts/athletics/

## Intramural-Recreational Sport Program

 All SPU students are encouraged to participate in our comprehensive program of intramural competitions and ecreational sport activtics. Opportuites incluc 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 students faculty and staff. Phone: 206-281-2881 Web site: www.spu.edu/depts/intramurals.
## Ombudsman

The service of an Ombudsman is available to all students to assist in the resolution of problems to enable the Seattle Pacific community to better meet students' needs. Working logether with University staff and the student, the problems. The individuals serving this role within the University are the Dean of Enrollment Services and the Dean of Student Development and Campus Life.
Upon request, the student is apprised of the appropriate process to appeal within any office or area of the University a decision to an Ombudsman, a student must first complete the office or area process of appeal. This process is
typically a written appeal to the department head, the 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 Ombudsman for final review The appal be brought to an Ombudsman for final review. The appeal
should include all information which was submitted through should include all information which was submitted through
the area appeal process. The Ombudsman will review the the area appeal process. The Ombudsman will review th department head involved with the student.

The decision of an Ombudsman 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 Ombudsman is final.

## Baccalaureate Degree Requirements



## Baccalaureate Degree Requirements

While Seattle Pacific University makes every effort o provide students with effective academic dvising, the final responsibility for meeting all each individual student
The University Catalog under which the tudent enters serves as the official record of admission, general academic and general raduation requirements, with the exception of tandards governing the completion of a major andor minor. The quarter in which a student is aceepted by the school or department offering the major or minor will determine the University 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 Handbook for details.)

## Two Degree Paths

Undergraduate students entering Seattle Pacific University are currently assigned to one of two ifferent degree paths based on when they enter PU and their class status at entrance. The primary difference between the two paths is in th make-up of required general education courses.
To determine which degree path you must follow, use these simple definitions:
New Freshman: Students entering Autumn Quarter 1998 who have not taken college-level ourses since graduating from high school or who raduated from high school in 1998 will follow Degree Path One, which includes the Common Curriculum and Exploratory Curriculum.

New Transfers: Students entering Autumn New Transfers: 1998 who have transfer credits earned after high school graduation will follow Degree Path Two, which includes the Foundations Program and General Education Program.
Continuing Students: Students entering prior to Autumn Quarter 1998 are considered continuing undergraduate students and are foilowing Degree Path Two, which includes the Foundations Program and General Education Program.

If you have questions about which degree path you must follow, contact your undergraduate academic counselor in Student Academic Services Demaray Hall 120.


## Degree Path One

OR NEW FRESHMEN (Students entering in 1998-99 who have not taken college level courses since graduating from high school.).



Specific Requirements and Policie

1. A minimum of 180 credits.
. A cumulative grade point average of at least 2.0 in a courses applicable to the degree.
. A cumulative grade point average of at least 2.0 in a
courses taken at Seattle Pacific University.
$3000-4999$ credits arned in courses numbered
least 45 credits earned in residence as a mamination student. Credits earned by examination do not satisfy the residence equirement. If only one year is taken at Seattle
Pacific University, it must be the senior year.
The last 15 credits prior to degree completion must
Achievement of satisfactory scores on required proticiency test in mathematics and placement tes in English or completion of required remedial
coursework.
2. Satisfactory completion of an academic majo Incoming freshmen and sophomores are required to uniors are required to complete 5 credits; and coming seniors are required to complete 3
credits. (See section on Writing Courses.)
3. Students are expected to apply for a major in April of their sophomore year. Application for major orms are available in the school or division office. based on the Catalog year when the major or minor is declared. For example, a student declaring a ajor in Spring 1998 is subject to all majo
requirements listed in the 1997-98 Catalo
4. Policies and procedures for baccalaureate degree completion:
applying must be accepted into a major prior to foring for graduation. Students are responsible wailaplying for graduation. Applications are available in Student Academic Services, Application deadlines appear under the
Graduation section of the Catalog (page 158).
b. A transfer student with junior or senior status must apply for acceptance into a major after completing 30 SPU credits.
c. Students may change their application for graduation and should notify their undergraduate academic counselor of the change at least on avance of the previous intended
d. Degrees will not be posted to student academic transcripts nor diplomas ordered until all requirements are completed, including any outstanding " r " and " N " grades.
e. The official record of degree completion is the official SPU academic transcript.

There are four areas of competency that must be met to receive a bachelor's degree from Seattle Pacific University. hese competencies may be fulfilied in a variety of ways. All undergraduate students at Seattle Pacific University must demonstrate math and English competency early in their determine competency and assign any necessary remedial coursework, proficiency tests are administered to incoming students. Exams are to be taken before or during the first week of study at the University. Students will not be permitted to register the second quarter until these tests have been taken or the coursework. The tests are administered during Pr Autumn Quarter student orientation and at other times hiroughout the year. Math and English competencies must e completed within the first three quarters of attendance t SPU. Foreign language competency and writing requirements must be met before a degree is awarde tudents are not required to take the proficiency or placement tests.

## A. Math Skills Competenc

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

By scoring 500 or more on the SAT-I exam if taken prior to April 1995.
April 1995 or later.
. By scoring 25 or more on the ACT test.
4. By receiving a grade of C (2.0) or better in MAT 1225 Caclus, or its college equivalent. (MATI 1221, Survey of By passing the University's Math 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.
The mathematics proficiency test covers pre-high school mathematics and emphasizes problem-solving An analys f errors is done and areas of weakness are determined. Any student whose score on this test falls below accepted onege entrance level norms will be required to strengthen courses during the first year of registration Before tudents are p inmitt to take any mation. Before other than arithmetic review) or any courses using mathematics, they must either pass the mathematic proficiency test or complete the required work in MAT 0125. Arithmetic review courses are not considered collegeevel courses. Credits earned in MAT 0121-MAT 0125 do no ount toward the 180 minimum credits required for raduation.

## Writing Skills Competenc

ability to write well, in English, is essentia mmary educated person and an able Christian not already taken and passed a college-level writing composition) course on a college or university campus will e required to take the English Placement Test, which aken during high school does not count in this context as college-level writing). Any student who wishes to enter Phase I of teacher certification must take the English Placement Test prior to entering Phase 1 , regardless of any sriting coursework he or she has taken.
Students whose score on this test indicates they do no yet write on the college level will be required during their
first year of registration to enroll in coursework the twoquarter sequence, ENG 0101 and 0102 , or only ENG 0102, depending upon placement) that will raise their ability to he college level. Once they have completed one or both of hese courses, as required, they must enroll in ENG 1101 , he introductory college-writing course.
Simaly at the collegcores nhate that they can write ourse in writing (ENG 1101) in order to succeed in colle will be required to take that course before or during their third quarter at SPU.

ENG 0101 and 0102 are not considered college-leve ourses. Credits earned in these courses do not count toward the 180 minimum credits required for graduation

## C. Foreign Language Competency

For many students, the general education foreign language For many students, the general education foreign language 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 language (grade
$9-12$ ) with a minimum grade of $\mathrm{C}[2.0]$ in the final year.
2. Be a native speaker of a language other than English. . Attain a grade of $\mathrm{C}[2.0]$ or better in the third quarter or above of an SPU course in a language other than modern English
3. Obtain a professional reference attesting to proticiency in a anguage 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.
4. Transfer a course equivalent to, or more advanced than, 1103 (the third quarter in an elementary-leve course must have been taken at an accredited postsecondary institution whose credits are accepted for transfer by SPU. The grade in the transferred course must be C $[2.0]$ or better.
5. Take a proficiency test and achieve a "passing" rating in a language other than English. The test hould be admimistered by a qualined testing center such as a college or university and the results sen Student Academic Services. If the test is not he criteria for achieving a "passing" rating should accompany the results.

The Common
Curriculum
(Total of 35 credits)
. Enter SPU with Advanced Placement credits in a
language other than English.
8. Take a CLEP test in a language other than English. A University Seminar score in the 50th percentile on a CLEP test is the minimum accepted by SPU
rersity ) which has been take fulfill the SPU foreign language requirement if the me 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 curriculu at SPU are French, German, Latin, Russian and Spanis Other languages are offered through the Division of Continuing Studies in affiliation with the Washington
Academy of Languages. A student wishing to meet the general education language requirement by a competency test in a language other than one which is part of the regular curriculum will be assessed a fee if SPU arranges for the test.

## Foreign Language Substitution Policy for

 Documented DisabilityQualified students with current professional documentation of less than five years, which specifically certifies that the student possesses a disability, and clearly indicates the ry language, may be able to utilize the "Foreign Language education foreign language requirement Contact Educational Services for more information

## D. Writing 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 writ 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 for how it is said). These courses normally provide opportunities for revision as well.

## 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-Christian Scriptures (5)

The Exploratory
Curriculum
(Total of 40 credits)

Arts and Humanities
( 10 CREDITS B.S., 15 CREDITS B.A.)
A. ARTS (Art, Music, Theatre) $\qquad$ 3-6 CREDITS
Choose from among the following course (3 each)
ART 1102, 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 2425, ART 3425, ART 4425 Media Studio-Weaving (3 each) ART 2428, ART 3428, ART 4428 Media Studio-
Ceramics (3 each)
ART 3603 History of Christian Art (5)
ART 3604 History of Renaissance (5)
ART 3605 History of Modern Art (5)
ART 3606 History of Asian Art (5)

ART 3607 History of American Art (5) [Writing course]
ART 3609 Photography, History and Criticism (3)
FCS 1710 Design Fundamentapls (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, 1251,1252 Piano Class ( 2 )
MUS 1260, 1261 Class Instruction Voic
MUS 1260, 1261 Class Instruction: Voice (2)
MUS 2312, 4312 Menís Choir (2)
MUS 2350 or MUS 4350 Concert Choir (2)**
MUS 2351 or MUS 4351 Symphonic Wind Ensemble (2)**

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US 2353 or MUS 4353 Symphony Orchestra (2)**
MUS 2605 Survey of Popul
UUS 2654 Worl
US 2655 World Music (3)*
UUS 3401 Music and Worship ( (
MUS 3602 Magic of Opera (5)
MUS 4401 Song of the Church (3)
TRE 1110 The Theatre Experience (5)
TRE 3780 Art of Film (5)
RE 1310 The Actor's Art (5)
TRE 1930 Acting I: Fundamentals (5)
TRE 1931, 3931 Production Practicum (2) TRE 2420 Theatre and Drama: Tragedy (5) RE 2421 Theatre and Drama: Comedy (5)
*Must take both lecture and lab simultaneously to fulfill ategory requirements.
wricur up to 5 credits toward Exploratory

Elementary education certification students may take MUS 500 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, ,
PHILOSOPHY) 3-6 CREDITS
hoose from among the following courses:
LA 3104 Survey of Ancient Greek Literature (5)
LA 3170 Classical Civilization (HIS 3170 ) (5)
CLA 3204 Survey of Classical Latin Literature (5) [Writing course]
OM 101 Introduction to Interpersonal Communication (5) COM 1321 Speaking Before Groups 110 Literature and Faith (5) ENG 2230 Literature of the American West (5) ENG 2234 Literature by Women (5)
NG 2248 Non-Western Literature (5)
NG 3334 American Ethnic Literature (5)
EUR 1110 Heritage of Europe (5)
Classics of Eastern European Literature (5)
EUR 3287 Mythology in Literature (5) [Writing course] RE 2102, 2103 Niveau Intermediaire ( 5 each) RE 3205 Topics in French (5)
GER 2101, 2102, 2103 Das Zweite Jahr (5 each)
GER 3206 Topics in German Language and Literature (5)
HI 2231 Logic I ( 3) Faith and Philosophy (5)
PHI 4785 Aesthetics
tt and Human Values (3)
PN 2101, 2102, 2103 Intermediate Spanish (5 each) PN 4401 Topics in Spanish Literature (3)

For education certification students only: EdRd 4516 (5) Children's Books may be taken toward credit in category B.
C. ONE ADDITIONAL COURSE IN A DIFFERENT DISCIPLINE .................................. 3-6 CREDIT
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 additiona course

## Social Sciences

(10 CREDITS)
A. ANTHROPOLOGY, PSYCHOLOGY, SOCIOLOGY $\qquad$ .... 5 CREDIT Choose from among the following courses:
ANT 1110 General Anthropology (5)
ANT 2250 Cultural Anthropology (5)
PSY 1180 General Psychology (5)
SOS 2310 or SOS 4310 Foundations of Social Service (5)

## B. ECONOMICS, GEOGRAPHY, HISTORY,

POLITICAL SCIENCE ......................... 5 CREDITS Choose from among the following course
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) [Writing course]
HIS 1201 Medieval Europe (5)
HIS 1500 Introduction to U.S. History (5)
HIS 2502 The U.S. to 1876 (5)
HIS 2503 The U.S. Since 1876 (5)
HIS 2503 The U.S. Since 1876 (5)
HIS 2452 Modern Global Systems (5)
HIS 3345 Modern Russia (POL 3345) (5) [Writing course]
HIS 3670 American Foreign Relations (POL 3670) (5)
[Writing course]
HIS 3710 Comparative Third World History (5)
HIS 3710 Comparative Third World History (5) [Writing course]
HIS 3720 Rise of Islamic Civilization (5) [Writing course] HIS 3730 Modern Middle East (5) [Writing course] [Writing course]
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

( 10 CREDITS B.A., 15 CREDITS B.S.)
A. BIOLOGICAL SCIENCE. $\qquad$ .... 5 CREDITS
Choose from among the following course 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 1102 Individual and Environment (5) BIO 2101, BIO 2102, BIO 2103 General Bio BIO 2129, BIO 2130 Anatomy and Physiology ( 5 each)*

* Must take both to fulfill Biological Science requirement.

B PHYSICAL SCIENCES ......................... 5 CREDITS
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
PHY 1121, PHY 1122, PHY 1123 Physics for Science and Engineering (5 each)
PHY 1135 Astronomy (5)
PHY 1150 Introduction to Geology (5)

## Mathematics

(5 CREDITS)
Choose from among the following courses
SUS 270 tistics for Business and Economics (5)
HSC 4044 Biomedical Tests, Measurements and Statistic
MAT 1221 Survey of Calculus (5)
MAT 1225 Calculus I (5)
MAT 1360 Introduction to Statistics (BUS 1360) (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: Completion of Phase I is a prerequisite.


The Major Curriculum

## Specific Standards Governing the

## 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 requirements for a major without review and pproval 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. Major requirements must be met in full. These are specified in the sections of the Catalog assigne o 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 entitled Areas of Instruction.
may not be applied to a major.
4. The student must apply for a major and be accepte by the school or department in which he/she declares a major. The acceptance date determines the Catalog under which major requirements will b
applied.
5. The school or department in which a student completes a major must certify to the University registrar that he/she has satisfactorily met the evaluative and proficiency standards for such a major.
. 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 simultaneously to earn a double major.

## Specific Standards Governing the <br> \section*{ompletion of a Minor}

1. Students are not obligated to specify a minor area o Hudy in order to recmet be working toward a maior 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 $3000-$-499. Requirements for specific minors may be found in the school or department sections of this 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. In all cases it is necessary to apply for and be accepted for the minor field. This determines the applied. The school or department in which a student completes a minor must certify to the University registrar that he/she has satisfactorily met all requirements for the minor.

## Limitations on Credit Applicable Toward a

 Degree1. 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
2. Seattle Pacific University may a
combined total from a community coll to 90 credit college, unaccredited Bible college or institute AP/CLEP/PEP credits toward a baccalaureate degree See limits under Credit by Exam.
3. A student may earn up to 10 credits towards a baccalaureate degree in skills courses approved by Committee.
4. Students may enroll in 5000 level courses but the 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 towards an undergraduate
6. Credits in excess of 15 credits taken as a nonmatriculated student may not be applied to a post baccalaureate degree.

## Graduation Checklist

Students may wish to track their progress toward graduation by taking their quarterly grade reports, along with the filling out the appropriate completed courses on the graduation requirements checklist on the following page

Seattle Pacific University
1998-99 Graduation Requirements Checklist: DEGREE PATH ONE NAME $\qquad$ SSN $\qquad$ CLASS AT ADMISSION/RE-ADMISSION MAJOR $\qquad$ MINOR $\qquad$ FACULTY ADVISOR(S) $\qquad$
Checklist prepared by $\qquad$ Date Reflects coursework completed through $\qquad$

## $\checkmark$ Check off each box when requirement is completed.

DEG
E REQUIREMENTS


EXPLORATORY CURRICULUM Arts and Humanities
10 credits $B S$, 15 credits 10 creditst BSS, 15 crededits BA)
frts: Art, Music, Theatre - $3-6$ credits


Humanities: Classics, Communication,
English, , Uuropean Studies, Philosophy $-3-6$

$\square$ Math Proficiency Test passed, waived or ALL required lab credits completed
Date: Credits remaining
$\square$ Writing Placement Test passed, waived or ALL required lab credits completed Date:__Lab Credits remaining___ See Degree Path One in 1998-99 Catalog


Not including courses below 1000 level

- At least 4 credits must be complete

D 1180
Date: 180
$\square$ Minimum 60 upper division credits

- $3000-4999$ level

Date $\qquad$ - 60
$\square$ All classes in Major comple See requirements below
$\square$ All classes in Minor* complete Major/Minor Requirements - Each student must have applied and Minor.

- Major/Minor checksheet will be sen
alisor
- All grades in the MajorMinor must be a
C- (1.7) or better. (.1) or beller
$\qquad$


## Degree Path Two:

FOR NEW TRANSFERS AND CONTINUING STUDENTS (Students entering in 1998-99 who have earned transfer credits after high school graduation and students entering prior to Autumn Quarter 1998)


Specific Requirements and Policies

1. A minimum of 180 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.
At least 60 credits earned in courses numbered $3000-$
4. At least 45 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.
5. The last 15 credits prior to degree completion must be earned in residence.
6. Achievement of satisfactory scores on required proficiency test in mathematics and placement test proficiency test in mathematics and placement te coursework.
7. Satisfactory completion of an academic major 9. 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
8. Stedits.ents are expected to apply for a major in April of their sophomore year. Application for major forms are available in the school or division office. All degree requirements for a major or minor are based on the Catalog year when the major or mino is declared. For example, a student declaring a major in Autumn 1997 is subject to all major
9. Policies and procedures for baccalaureate degree completion:
a. Students must be accepted into a major prior to applying for graduation. Students are responsible for applying for graduation. Applications are Application deadlines appear under the Graduation section of the Catalog (page 158) 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 graduation quarter.
d. Degrees will not be posted to student academic ranscripts nor diplomas ordered until all quirements are cons" " N " grades. outstanding "I" and " N " grades official SPU academic transcript letion is the

There are four areas of competency that must be met to receive a bachelor's degree from Seattle Pacific University These competencies may be fulfilled in a variety of ways. A 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. Exams are to be taken before or during will not beek of study at the University. Student quarter until these tests have been taken or student registers for all necessary remedial coursework. The tests are administered during Premiere Autumn Quarter student orientation and at other times throughout the year. Math and English competencies must be completed within the first three quarters of attendance at SPU. Foreign language competency and writing Unless stipulated by their major, post-baccalaureate students are not required to take the proficiency or placement tests.

## A. 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:
prior to April 1995
2. By scoring 580 or more on the SAT-I exam if taken

April 1995 or later.
3. By scoring 25 or more on the ACT tes

By reciving a grade of C (2.0) or better in MAT 122 Survey of Calculus, does not meet this requirement.)
5. By passing the University's Math Proficiency
6. Examination. 0125 at the required level of proficiency during the first year of enrollment.

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 course (other than arithmetic review) or any courses using mathematics, they must either pass the mathematic proficiency test or complete the required work in MAT 0125 Arithmetic review courses are not considered collegecount toward the 180 minimum credits required for graduation.

## B. 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 a college-level writing (composition) course on a college or university campus w samples their writing. (AP credit in English composition taken during high school does not count in this context as college--level writing). Any student who wishes to enter Phase I of teacher certification must take the English Placement Test prior to entering Phase I, regardless of any writing coursework he or she has taken, yet write on the college level will be required during their first year of registration to enroll in coursework (the twoquarter sequence, ENG 0101 and 0102, or only ENG 0102 depending upon placement) that will raise their ability to the college level. Once they have completed one or both of these courses, as required, they must enroll in ENG 1101, the introductory college-writing course

Students whose scores indicate that they can write minimally at the college level but need the introductory
course in writing (ENG 1101) in order to succeed in college will be required to take that course before or during their third quarter at SPU.

ENG 0101 and 0102 are not considered college-level toward the 180 minimum credits required for graduation.

## C. Foreign Language Competenc

 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 ofmeeting this requirement listed below

1. Show by your high school transcript that you have completed a third-year course in a language grade
$9-12$ ) with a minimum grade of $\mathrm{C}[2.0]$ in the final year.
2. Be a native speaker of a language other than English.
3. Attain a grade of $\mathrm{C}[2.0]$ 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 example, a student who has lived for years in another culture might request a reference from 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--evel
SPU course) in a language other than English. The course must have been taken at an accredited postsecondary 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 credits in a
8. Take a CLEP test in a language other than English. score in the 50 th percentile on a CLEP test is the minimum accepted by SPU.
9. American Sign Language (ALS) which has been take at the college or university level may be used to ime spent in classroom instruction is equal to the 5 -credit requirement. No other forms of sign anguage 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 Division of Academy of Languages. A student wishing to meet th general education language requirement by a competency test in a language other than one which is part of the regula curric
test.

## Foreign Language Substitution Policy for

 Documented DisabilitQualified students with current professional documentation of less than five years, which specifically certifies that the student possesses a disability, and clearly indicates language, may be able to utilize the "Foreign Language Substitution Policy" as the means to satisfy the general education foreign language requirement. Contac Educational Services for more information.

## D. Writing 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 only for what is said but for how it is said). These courses normally provide opportunities for revision as well.


Foundations
(Total of 15 credits)
(Courses designated by a $\mathbf{\Delta}$ can also be taken by distance Coung iee Lintations on Credit Applicale Torand Degree section of the Catalog.)

## Transfer Stud

(See page 14 for information.)

1. CHRISTIAN PERSPECTIVES ............... 5 CREDITS Choose from among the following courses: PHI 1100 or PHI 3100 Faith and Philosophy (5) PH 3340 Values, Faith and Social Issues (5) REL 1501 Dynamics of Christian Formation (5) REL 1610 or REL 3610 Christian Biography (5) REL 2720 Introduction to Theoology (5)
2. Biblical heritage ..... 10 CREDITS To meet Biblical Heritage foundations requirements,
a. Choose Bu
a. Choose BIL 1220 Exploring Biblical Literature,
followed by at least 5 credits of 3000 -evel BIL coursework (except BIL 3101 or BIL 3201 )
b. Choose one introduction course (BIL 3101 Old

$$
\text { Testament } \mathbf{\Delta}
$$

$$
\begin{aligned}
& \text { or BIL } 3201 \text { New Testament } \mathbf{A} \text { ) followed by at }
\end{aligned}
$$ least 5 credits of a 3000 -level BLL course.

c. Choose BIL 3101 Old Testament $\triangle$ and BIL 3201 New Testament $\mathbf{A}$.

Option a or b is recommended, although any BIL course may be taken for Biblical Heritage, provided prerequisites ave been met.

General
Education (Total of 35 credits)

Baccalaureate Dedre Requirements Degree

Courses designated by a can also be taken by distance earning. See Limitations on Cre

## 1. Wellness (3 Credits)

Choose from among the following courses
FCS 1301 Wellness (HSC 1301, PE 1301) (3)
PSY 2422 Psychology of Personal Growth (3)

## 2. Communication (3-18 credits)

A. FOREIGN LANGUAGE
............. 0-15 CREDITS previous coursework or demonstrated competency

Electrical Engineering and RNB students are not required to take foreign language courses. Students California College Transfer Program or Central College, KS) have completed all general education, including oreign language requirements. Students majoring in classics (student-designed), communication, English European studies, language arts and philosophy, please refer to the requirements for the major for additional foreign language requirement.
B. ORAL OR WRITTEN COMMUNICATION. $\qquad$ .. 3 CREDITS
Choose from among the following courses:
COM 1101 Introduction to Interpersonal
Communication (5)
Communication (5)
COM 1321 Speaking Before Groups (5)
ENG 1101 Writing in College ( 3 )
ENG 1101 Writing in College (3)
ENG 2215 Imaginative Writing ( 3 ) Writing (3)
ENG 3206 Technical Writing (3) [Writing course]
ENG 3207 Business Writing ( 3 ) [Writing course]
ENG 3208 Professional and Business Writing (5)
[Writing course]
ENG 4401 Creative Non-Fiction (3) [Writing course
3. Social Sciences ( 15 credits)
A. SOCIAL SCIENCE INTEGRATION ... 5 CREDITS Choose from among the following courses.
ANT 2250 Cultural Anthropology (5)
GEO 1110 World Regional Geography (5)
HIS 2452 Modern Global Systems (5)
HIS 3501 Colonial and Revolutionary America (5)
[Writing course]
POL 1120 American Government and Politics (5) A POL 2330 International Relations (5)
POL 2641 Christianity and American Politics (5)

INTRODUCTIONS ........................... 5 CREDITS
ECN 1100 Fundamentals of Economics (5)
ECN 2101 Microeconomics (5)
ECN 2102 Macroeconomics (5)
POL 1110 Introduction to Politics (5)
PSY 1180 General Psychology (5)
SOC 1110 Introduction to Sociolog
SOC 1110 Introduction to Sociology (5)
SOS 2310 or SOS 4310 Foundations of Social Service (5)
C. CONTEXTS FOR SOCIETY: HISTORY/

GEOGRAPHY ................................. 5 CREDITS
Choose from among the following courses:
GEO 3170 Geopolitics (POL 3170) (5)
GEO 3500 Geography of Natural Resources (5)
HIS 1201 Medieval Europe (5)
HIS 1202 Modern Europe ( 5 )
HIS 1202 Modern Europe (5)
HIS 1500 Introduction to U.S. History (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 3670 American Foreign Relations (POL 3670) (5)
[Writing course]
HIS 3710 Comparative Third World History (5) [Writing course]
HIS 3720 Rise of Islamic Civilization (5) [Writing course]
4. Natural Sciences ( 15 credits)
A. BIOLOGICAL SCIENCES ................ 5 CREDITS

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
BIO 1102 Individual and Environment (5)
BII 2101, BIO 2102, BIO 2103 General Biology ( 5 each)
BIO 2129, BIO 2130 Anatomy and Physiology (5 each)*
B. PHYSICAL SCIENCES $\qquad$ 5 CREDITS
CHM 1110 Introduction to the Nature of Science
(PHY 1110 ) (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)
$\stackrel{\text { PHFY } 1150 \text { Introduction to Geology (5) }}{ }$
C. QUANTITATIVE REASONING
$\qquad$
$\qquad$ 5 CREDITS BUS 2700 Statistics for Business and Economics (5) HSC 4044 Biomedical Tests, Measurements and Statistics (5)
MAT 1221 Survey of Ca
MAT 1225 Calculus I (5)
MAT 1360 Introduction to Statistics (BUS 1360) (5) MAT 1521 Introduction to Contemporary Math (5) MAT 2530 Survey of Mathematics I ( 3 )**
MAT 2531 S Survey of Mathematics (I) ()$^{* *}$ MAT 2531 Survey of Mathematics II (2)**
SOC 2360 Introduction to Statistics in SBS (PSY 2360) (5)
${ }^{*}$ **F Must take both to fulfill category requirements. **For education certification students only: Completion of
Phase I is a prevequisite.

## 5. Literature and The Arts ( 20 credits)

A. LITERATURE CORE $\qquad$ .5 CREDITS
Choose from among the following cours...........s.
EUR 1110 Heritage of Europe ( 5 )
B. LITERATURE OPTIONS $\qquad$ .. 5 CREDITS Choose from among the following courses: CLA 3104 Survey of Ancient Greek Literature (5)
CLA 3170 Classical Cvilization (HIS 3170) (5) CLA 3204 Survey of Classical Latin Literature (LAT 3204) (5) [Writing course]

ENG 2230 Literature of the American West (5)
ENG 2233 Issues of Faith in Literature (5) $\mathbf{4}$
ENG 2234 Literature by Women (5)
ENG 2248 Non-Western Literature (5)
EUR 3247 Classics of Eastern Europe Literature (5) [Writing course]
EUR 3287 Mythology in Literature (5) [Writing course FRE 2102, 2103 Niveau Intermediaire ( 5 each) FRE 3205 ' Topics in French (5)
GER 2101, 2102,2103 Das Zweite Jahr ( 5 each)
GER 3206 Topics in German Language and Literature (5) PN 4401 Topics in Spanish Literature (3) ( 5 each) TRE 2420 Theatre and Drama: Tragedy (5) * TRE 2421 Theatre and Drama: Comedy (5) *

* TRE 2420 and TRE 2421 may be taken for options credit under either Literature or Fine Arts, but may not be used for credit in both.

For education certification students only: EdRd 4516 (5)
Children's Books may be taken toward options credit
Children's Books may be taken toward options credit.
C. FINE ARTS CORE $\qquad$ 5 CREDITS Choose from among the
ART 1181 The Visual Arts Lab
FPA 1101 Arts in American Culture (3)*
FPA 1111 Arts in American Culture Lab (2)
FPA 4100 Arts and Religious Experience (5) [Writing course]
FCS 1710 Design Fundamentals (5)
MUS 1600 Exploring and Understanding Music (5) MUS 2604 Soundscape (5)
MUS 2605 Survey of Popular Music (5) TRE 1110 The Theatre Experience (5)
TRE 3780 Art of Film (5)

Must take both lecture and lab simultaneously to fulfill category requirements.

## D. FINE ARTS OPTIONS

$\qquad$ 5 CREDITS
Choose from among the following courses. (3 each)
ART 1102, ART 1103, ART 1104 Drawing Studio (3 each)
ART 2302 Painting Studio-Oil
ART 2422 Metals Studio (3)

(3 each)
ART 2428, ART 3428, ART 4428 Media Studio-Ceramics
(3 each)
ART 3602 History of Ancient Art (5)
ART 3603 History of Christian Art (
${ }^{\text {ART }} 3605$ History of Modern Art (5)
ART 3606 History of Asian Art (5)
ART 3607 History of American Art (5) [Writing course
ART 3609 Photography, History and Criticism (3)
EUR 3100 Foundations of European Art (2)
MUS 1250, 1251, 1252 Piano Class (2)
MUS 1260, 1261 Class Instruction: Voice (2)
MUS 2312, 4312 Men's Choir (2)
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 2654 World Music (3)
MUS simultneously wich Lab (2) Must be taken
MUS 3401 Music and Worship (2)
MUS 3602 Magic of Opera (5)
MUS 4401 Song of the Church (3)
PHI 4785 Aesthetics: Art and Human Values (5)
[Writing course]
TRE 1310 The Actor's Art (5)
TRE 1930 3930 Performance Practic
TRE 1931, 3931 Production Practicum (2)
TRE 2420 Theatre and Drama: Tragedy (5)
TRE 2421 Theatre and Drama: Comedy (5)
TRE 2421 Theatre and Drama: Comedy (5) **
*May be repeated for up to 5 credits toward general education requirements.
*TRE 2420 and TRE 2421 may be taken for options credit under either Literature or Fine Arts, but may not be used for credit in both.
Elementary education certification students may take MUS 3500 Fundamentals of Music for Future Teachers (2), and 3502 Music in Special Education (3) toward Fine Arts credit
(Courses designated by a $\mathbf{\Delta}$ can also be taken by distance Credit Applicable Toward a Degree section of the Catalog.)


The Major Requirements

## Specific Standards Governing the

## Completion of a Major

1. A major requires a minimum of 45 credits. A minimum of 23 creditt is required in courses require more. No more than 75 credits may be equired or controlled by a school in designating requirements for a major without review and pproval of the Undergraduate Policies and Evaluation Committee.
2. A major is required for completion of either the
3. Majolr requirements must be met in full. Thee.

Major requirements must be met in full. These are specified in the sections of the Catalog assigned to the various schools or departments of the University. These requirements state total credits, upper-division credits, prescribed courses and upporting courses. For a list of approved majors,
4. A transfer student must earn a minimum of 15 upper-division credits in a major at Seattle Pacific University, although some programs require more.
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 accepte by the school or department in which he/she the Catalog under which major requirements will be applied.
7. The school or department in which a student completes a major must certify to the University evaluative and proficiency standards for such a
major. A student may simultaneously complete a double
8. A student may simultaneously complete a double major. Both majors may be in a B.A. cates a category and one in a B.S. category. All requirements for each major must be completed simultaneously to earn a double major.

Specific Standards Governing the

## mpletion of a Minor

1. Students are not obligated to specify a minor area o study in order to receive the B.A. or B.S. degree orde, a student must be working towards a majo 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 he school or department sections of this Catalog. For a list of approved minors, see the Catatog section entitled Areas of Instruction.
3. Transfer students must earn a minimum of 15 credits in a minor at SPU, 10 credits of which mus Coursework with a "P" or a grade below "C-" (1.7) will not be applied to a minor.
4. In all cases it is necessary to apply for and be accepted for the thor field. This determines the解 applied. The school or department in which a student completes a minor must certify to the University registrar that he/she has satisfactorily met all requirements for the minor.
Limitations on Credit Applicable Toward Degree
5. No more than 30 resident or transfer credits earned via correspondence and/or distance learning to a bachelor's degree. No more than 5 credits earned via correspondence and/or distance learning courses may be applied toward the foundations requirements. Exception: Existing Washington State community college associate degree transfer
agreements will be honored.
Prerequisite to taking a media course in Biblical or senior standing and must document prior completion of a regularly scheduled course in either Introduction to the Old Testament or New Testament to obtain permission of the instructor to register.
Seattle Pacific University may accept up to 90 credits combined total from a community college, junior college, unaccredited Bible college or institute, or AP/CLEP/PEP credits toward a baccalaureate degree. See limits under Credit by Exam.
6. A student may earn up to 10 credit baccalaureate degree in skills courses approved Committee.
7. Students may enroll in 5000 level courses, but they will not apply to undergraduate degree program
Credits in excess of 45 taken as a non-matriculated student will not apply towards an undergraduate egree
Credits in excess of 15 credits taken as a nonmatriculated student may not be applied to a post baccalaureate degree.

## Graduation Requirements Checklist

Students may wish to track their progress toward graduation by taking their quarterly grade reports, along with the filling out the appropriate completed courses on the raduation requirements checklist on the following page.

## Additional Bachelor's Degree

A second bachelor's degree may be earned upon
mpletion of a minimum of 45 credits subsequent to the
ranting of the first degree. The student must be accepted
a major; this determines the Catalog under which majo the following conditions

If the first degree was earned at SPU:
Fitteen of the 45 credits required for the second
degree must be taken at SPU.
2. At least 15 upper-division credits in the major must
be earned at SPU.
Of the 45 credits required for the second degree, up to 15 credits may be earned prior to the granting of the first degree providing the credits ar
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 45 required credits earned at SPU.
2. No more than 15 credits taken as a non-matriculated may apply toward the additional bachelor's degree.
3. A student who has not previously matriculated at

SPU must take all 45 credits at SPU.
4. At least 15 upper-drision credits in the major must be earned at SPU.
5. All specified requirements for the second degree credits must be taken at SPU as a part of the secon degree.

An additional degree is distinguished from multiple majors within a single degree. To earn multiple majors within a firs Governing the Completion of a Major.

## Seattle Pacific University

1998-99 Graduation Requirements Checklist: DEGREE PATH TWO

NAME SSN $\qquad$ CLASS AT ADMISSION / RE-ADMISSION

Checklist prepared by $\qquad$ _MINOR $\qquad$
$\qquad$
(T) Check off each box when requirement is completed.

## DEGREE REQUIREMENTS

$\square$ Minimum 180 total credits

- Not including courses below 1000 level
- At least 5 crevidst must be completed at
SPU, including the last 15 credits Date: $\qquad$ $\ldots 180$
Date: $\qquad$ 180


## $\square$ Minimum 60 upper division credits

 - 3000 -4999 levelDate: $\qquad$ - 60

Date: __ $/ 60$
$\square$ All classes in Major complete
$\square \begin{aligned} & \text { All classes in Minor* complete } \\ & \text { Minor not required for graduation }\end{aligned}$
Major/Minor Requirements

- Each student must have applied and been off
Minor.
- A Major/Minor checksheet will be sent
trom your faculy adiso
- All grades in the MajorMinor must be a


## PLACEMENT TEST RESULTS

$\square$ Math Proficiency Test passed, waived or ALL required lab credits completed
Writing Placement Test passed, waived
Writing Placement Test passed, waived
or ALL required lab credits completed or ALL required lab credits completed
Date:
Lab Credits remaining


GENERAL EDUCATION REQUIREMENTS
REQUIREME

1. Wellness (3) $\square$
 NOTES TO STUDENT:
$\qquad$
口

$\qquad$
$\qquad$
$\qquad$

$\qquad$
$\qquad$
$\qquad$

$\qquad$

## Academic Program

## GENERAL

 CHEMISTRY
## The Academic Program

## Scholarship Informed by Faith

The clear Christian commitment of Seattle Pacific University has remained the same for more than 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. 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
${ }_{\text {Art }}$
Theatre
Division of Humanities and Religion
Communication and Journalism
English
Foreign Languages and Literatures Philosophy
Religion
Division of Science and Engineering

## Biology

Computer Science
Engineering
Engineering
Mathematics
Physics
Physics
Pre-professional Programs
Division of Social and Behavioral Sciences ramily and Consumer Sciences History
Physical Educatio ${ }^{\text {Political Science }}$
Sociology

Interdisciplinary

School of Business and Economics Accounting
Business Administration

School of Education
Elementary Certification Secondary Certification Special Education
School of Health Sciences
Nursing

The Division of Continuing Studies
Information can be obtained at (206)281-2121 or (800) 648 -7898 FAX (206) 281-2662 or via the World Wide Web at http:// paul.spu.edd/dcs/ or via the Internet at dcsmkt@spu.edu rofessional Development
SPIRAL-Education Professional Development
Summer School
Evening/Weekend School
Distance Learning

## Graduate Studies

Graduate Studies at Seattle Pacific University emphasize three principal aim: scholarship, research, and professional competence. Responsibility for graduate studies is vested in Senate.

Degrees Offered
Masters of Arts
Teaching (MA)
Teaching English to Speakers of Others 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 (MS
Leadership in Advanced Nursing
Master of Science (M.S.)
Marriage and Family Therapy
Information Systems Management
Physical Education
Doctor of Education (Ed. D.)
Doctor of Clinical Family Psychology (Psy.D.)

## Others Programs

Advanced RN Practitioner (School of Health Sciences) Nurse Practioner Pathways (School of Health Sciences) Superintendent Certification (School of Education)

## The Academic

Program
"Merely accumulating nowledge is not a ufficient preparation or life. By joining the eachings of Scripture he best of human reason, and a critical appreciation of experience and tradition, we at SPU seek to discover the neaning of knowledge and its application in our world."

Bruce Murphy
Provost


AREAS OF INSTRUCTION


* Student-Designed Majors


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. accompanies the discipline. Courses numbered 0001-0999 are used to designate continuing education units or courses offered for credit which is 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 $4000-4999 \mathrm{ar}$

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 |
| 0000 and | $7000-7999$ for doctoral degree programs. Note. son ane

ments.
Title: Title of the course. In the Catalog, a title which has a "Title: Title of the course. In 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 which provides information about the course. Some courses will contain additional
information related to prerequisites, course fees or long information related to prerequisites, course fees or long
distance learning options, known as media (e.g., cassette, distance learning options, known as media (e.f., casset
videocassette, television). Prerequisites need to be fulfilled prior to registering for the listed course Repeat Limits: Courses which may be repeated for credit state the number of times the course may be repeated or the maximum number of repeatable credits. Courses whic have been identified as repeatable will appear multiple times on a transcript and will have the credits and GPA's calculated into the quarterly and cumulative grade point
information, until the limit has been reached. Once reached, the repeat rules on page 157 will be applied Co-requisite: Classes noted as co-requisites require concurrent registration with the original listing. Students must enroll during the same quarter for all courses listed as co-requisites.
the course Equivalent: Classes noted as equivalent means he courses are the same and that students will not receive
credit towards 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 157).
Attributes: This information details how the course will be applied when conducting a graduation evaluation (degree
audit). Attributes include writing courses or courses which may be taken via media. may be taken via media
Registration Restriction
been designated for certinegistration restrictions have Open To:" "identifies who may register for the course. The phrase "Class Not Open To:" identifies who may not enroll student level, student classification, or declared major.

## Sample <br> Course Description

(For illustration purposes only.)


## The Academic

## Accounting

See School of Business and Economics section.

## Art

Michael Caldwell, Chair, Timothy Malm, Larry Metcalf The purpose of the art program is fourfold:
(1) to acquaint the student with the fundamental elements various art media, (3) to create an awareness of the value of art by presenting the proper historical and cultural background, and (4) to recognize the interrelationship
between the visual arts and the other creative arts. The between the visual arts and the other creative arts. The
curriculum provides foundational training that prepares students to pursue advanced study, begin work professionally or enter the field of art education. The department reserves the right to retain student work submitted for credit for temporary or permanent exhibition.

Formal admission to a major in art should be completed by the end of the first quarter of the sophomore year, or in level, in the second quarter of residence. To qualify for admission as a major, the student must complete 12 credits of work in art with a minimum 2.5 GPA and submit an application for admission.

Prior to graduation, seniors are required to present a during their studies and submit samples of their work for inclusion in the senior exhibition.

## Requirements for the Art Major

(67 Credits; 34 upper-division)
[See page 42 or 49 for a summary of degree requirements Core Courses
ART 1102, 1103, 1104 Drawing
ART 1202, 1203, 1204 Design
ART 2302 Painting
ART 2421 Printmaking
Studio Emphasis Courses
Drawing.
Metals or Weaving
Art History.
Pro Seminar
Senior Project
Art Elective

ART 1180 may not be included in this total. Information concerning concentrations for teacher preparation is available from the School of Education.
ormal admission to a minor in art should be completed by he end of the first quarter of the sophomore year, or in the in the second quarter of residence. To qualify for admission as a minor, the student must complete 9 credits of work in admission. Prior to graduation, seniors must submit san
their work for inclusion in the senior exhibition.

## Requirements for the Art Minor

( 37 Credits; 15 upper-division)
Core Courses
ART 1102, 1103 Drawing ..................................................... 6
Studio Emphasis Courses
Painting
Cramics....
Printmaking
Art History.
Art Electi

## 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.
ART 11003 DRAWING STUDIO (3) Studies the use of line, per-
spective value and composition in the context of drawing as visual spective, value and composition in the context of drawing as visual
description based on observation and analysis of various motifs. Em phasizes tonal drawing.
ART 1104 DRAWNG STUDIO (3) Studies the use of line, perspective, value and composition in the context of drawing as
visual descriplion based on observation and analysis of various motifs. Emphasizes composition of the pictural space. ART T180 THE VISULAL ARTS ( 3 ) Intcroudceses visual forms
through lecture and studio work. Lectures provid an examination through lecture and studio work. Lectures provide an examination
of the nature of the visual arts from the viewpoint of the artist and the viewer/critic. Corequisite: ART 1181 .
ART 1181 THE VISUAL ARTS LAB (2) Studio work consists of a series of basic exerccises using the visual elements and principles of
organization to create a work of art. Corequisite: ART 1 180 . organization to create work of art. Corequisite:ART 1180. ART principles of the visual arts to projects in a variety of media emphasizing practical problems. Emphasizes two-dimensiona! ${ }^{\text {desigh }} 1203$ DESIGN STUDIO (3) Applies the elements and principles of the visual arts to projects in a variety of media principles on the vicical design problems. Emphasizes three-
emphasizing reat
dimensional design. ART 1204 DESIGN STUDIO (3) Applies the elements and principles of the visual arts to projects in a variety or media Course Equivalent: FCS 1204 .
ART 2206 GRAPHIC DESIGN (3) Prerequisites: ART 1202, to graphic design including use of tooldeas and resources related to graphic design lincluding sse of tools, media, terminology and
development tof layout skills. May be repeated for credit 1 time. ART 2302 PAINTING STUDIO - OIL OR ACRYIIC ( 3 ) Anayzes problems in two-dimensional composition and the expression of volume on the two-dimensional plane emphasizing materials and techniques of acrylic and oil painting.
ART 2421 PRINTMAKING STUDD
with projects in several printins media includind res relief and int intaglio with projects in several printing media including relief and intaglio collagraph. 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

ART 2425 WEAVING STUDIO (3) Teaches the use of various types of looms including hand, table, and floor looms and their application to wearing with reed and other fibers. Teaches the weaving of tapestry or fabric. Emphasizes hand looms.
ART 2428 CERAMICS STUDIO (3) Explores the design and contresses of construction, glazing and loading and firing the kiln.
 ART 2502 ILLLUSTRATION (3) Prerequisites: ART 1102, 1103 , niques of commercial illustration.
ART 2722 SCULPTURE STUDO (3) Prerequisite: ART 1203. Studies of three-dimensional form and composition with the severa techniques (clay, plaster, stone). 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 the problems of anatomical structure with sketching and drawing from the draped model. Class not open to Frestimen.
ART 3114 ILLUSTRATION (5) Prerequisite: ART 2502 or pe mission of instructor. Presents several illustration problems that
allow participants to explore the basic elements of researching allow participants to explore the basic elements of researching,
organizing, and designing an illustration. Examines the steps in the development of a graphic arts program.
ART 3206 GRAPHIC DESIGN - ADVANCED I (3) PrerequiART 3206 GRAPHIC DESIGN - ADVANCED I (3) Prerequi-
site: ART 2206. Introduces the history, terminology, tools and ele site: ART 2206. Introduces the history, terminology, tools and
ments of graphic design. Examines and implements design ments of graphic design. Examines and implements design
concepts, elements and criteria through several design problems.
ART 327 ADVANED DESIGN - INTERIORS (3) Prerequiconcepts, elements and criteria through several design problems.
ART 321 ADVANED DESIN - INTRIRS $(3$ P) Prerequi-
site: ART 1204 or permission of instructor. Applies design prinsite: ART 1204 or permission of instructor. Applies design prin-
ciples to practical problems in interior design. Course Equivalent ciples to pracicice 3714. Class not open to Freshmen and Sophomores. ART 3302 PAINTING STUDIO ADVANCED I - OIL OR ACRYLIC ( 3) Prerequisite: ART 2302 or permission of instructor. Emphasizes indvidaa expression and the study of syles in vario
subject matter. Class not open to: Freshmen.
ART 3315 PAINTING STUDIO - WATERCOLOR (3) Investigates a range of ART 3414.MEDIA STUDIO - PAPER (3) Studies the application of several elements of art to the paper medium by creating
two and three dimensional shapes and forms in paper. Class not open to: Freshmen and Sophomores.
ART 3416 FABRICS STUDIO (3) Teaches the design of decorative fabrics through a variety of meetiods of suff
ment including batik. printing and stitching, Offered alternate years. Class not open to: Freshmen and Sophomores. ART 3421 PRINTMAKING STUDIO - ADVANCED I (3) Prerequisite: ART 2421 or permission of instructor. Studies graphic
art with projects in several of the printing mecia including serigraph. Class not open to: Freshmen and Sophomores. ART 3422 METALS STUDIO - ADVANCED I (3) Prerequisite ART 2422 or permission of instructor. Teaches the raising, solder-
ing and forging of metals into utensils and decorative forms such ing and orging of metals into as jewerry. Emphasizes forming. Class not open to: Frestmen and
Sophomores.
ART 3425 WEAVING STUDIO - ADVANCED I (3) Prerequisite: :RTT 2425 or permission of instructor. Teaches the use of various types of llooms including hand, table, and floor looms and
their application to weaving with reed and other fibers. Teaches weaving of tapestry or fabic. Emphasis: Table looms. Class not open to: Freshmen and Sophomores.
ART 3428 CERAMICS STUDIO - WHELL I (3) Explores the design and construction of pottery. Projects include wheel processes of throwing, glazing and packing and firing the kiln. Empha sizes beginning wheel. Class not open to: Frestmen and
ART 3502 ILLUSTRATION - ADVANCED (3) Prerequisite: ART 2502. Further work in illustration as a form of graphic communication with emphasis on advanced media techniques and concepts. May be repeated for credit 1 time. 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. Specia with direct application to use in the elementary classroom. Specia
emphasis on the role of art in the curriculum and understanding emphasis on the role of art in the curriculum and
the perceptual development of children. Studio periods will be
be augmented with lectures and discussion. Class not open to: Fresh-
men 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 curricu-
lum. Studio periods will be combined witl lum. Studio periods will be combined with lectures and discus-
sions. Offered alternate years. Course Equivalent: EDU 3358. Class not open to: Freshmen and Sophomores. Class not open to: Freshmen and sophomores.
ART 302 HITTORY OF ACIET ART (5) Explores the pic-
torial and plastic expression of the ancient Mediterranean cultures torial and plastic expression of the ancient Mediterranean culture not epen to: Frestmen and Sophomores. ART 3603 HISTORY OF CHRISTIAN ART (5) Explores the symbolic, pictorial and plastic expressions of the Christian faith particulariy emphasizing origin of forms and their development
through the Renaissance. Considers contemporary examples of ecclesiastical art and architecture. Offered alternate yearrs. Class not open to: Freshmen and Sophomores.
ART 3604 HISTORY OF RENAISSAN
ART 3604 HISTORY OF RENAISSANCE ART (5) Explores the pictorial and plastic expression of the Renaissance including
the Mannerist and Post-Renaissance development. Offered alternate years. Class not open to: Freshmen and Sophomores. ART 3655 HISTORY OF MODERN ART (5) Explores the plas-
tic and pictorial expression of Europe and America from the 18th tic and pictorial expression of Europe and America from the 18 th
century to the present particuluarly century to the present particularly emphasizing 20 th century devel-
opment. Offered alternate years. Class not open to. Freshmen and opment. Offe
Sophomores.
ART 3606 HISTORY OF ASIAN ART (5) Examines the art nate years. 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
architecture, painting, and sculpture. Offered alternate years. Architecture, painting, and sculpture. Offered aternate year Sophomores.
ART 3608 ISSUES IN CONTEMPORARY ART (3) A study of art produced since 1970 focusing on current art movements and credit 1 time. Attribute: Writing Course. Class not open to: Fresh-
men and Sophomores.
ART 3609 PHOTOGRAPHY: HISTORY AND CRITICISM (3)
Course traces the history and distinctive properties of photograCourse traces the history and distinctive properties of photogra-
phy with special attention paid to the social context of its development as an art form. May be repeated for credit 1 time. ART 3722 SCULPTURE STUDIO - ADVANCED I (3) Prerequisite: ART 2722 or permission of instructor. Studies of three-
dimensional form and conposition with the several media of sculpture. Emphasizes carving techniques in stone. Class not open to: Freshmen and Sophomores
ART 4112 DRAWING STUDIO - ADVANCED (3) Registration problems in drawing with emphasis on experimentation and the problems in drawing with emphasis on experimentation and the
development of a personal style. Offered alternate years. Clas not open to: Freshmen and Sophomores. INTERIORS (3) Registration Approval: Instructor, Prerequisite
ART 3217 . Sudies in the application of design principles to projects in residential design. May be repeated for credit 1 time. ART 4215 ADVANCED DESIGN II - COMMERCIAL INTERIORS ( $\mathbf{3}$ ) Prerequisite: ART 3217. Studies in the application of design principles to projects in commercial design. May be repeated for creditit time. Class not open to: Freshminen and
Sophomores.
ART 4236 PORTFOLIO (1) Instruction in the development of a professional portfoio including resume and cover letter writing and presentation of samples of creative work. Class open to:
Visual Arts maiars Visual Arts majiors.
ART 4302 PAINTING STUDIO -. ADVANCED II (3) Registration Approval: Instructor. Prerequisites: ART 2302, 3302 . May be tion Approval: Instructor. Prerequiuites: ART 2302, 332). May be
repeated for credit 2 times. Class open to: Visual Arts majors.
Class open to. 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 collagraph. May be repeated for credit 1 time. 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, soljewelry. Emplasizes casting. May ber repeated for credit 2 times. Class not open to: Freshmen and Sophomores.
ART 4425 WEAVING STUDIO - ADVANCE sites: ART 2425, 3425 or permission of instructor. Teaches the use of various types of looms including hand, table, and floor looms and their application to weaving with reed and other fibers. Teaches the advanced weaxing of tapestry or yardage. Emphasis: Double weave. M
be repeated for credit 2 times. 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 con-
struction of pottery Projects include wheel processes on construc tion glazing and loading and firing the kiln. Emphassizes advanced wheel. May be repeated for credit 2 times. Class not open to: Fresl men.
ART
4722 SCULPTURE STUDIO - ADVANCED II (3) PrerequiART $\begin{aligned} & \text { ARte: ART } 3722 \text { or permission of instructor. Studies of f thee-dimen- } \\ & \text { and }\end{aligned}$
 Emphasizes site specificits sulpture and art in ine public place. May be
repeated for credit 2 times. Class not open to: Freshmen and Sopho
mores. mores.
ART 4849 WORKSHOP IN ELEMENTARY ART - DRAWING AND PAINTING (2) Provides experimentation and practice with
crayon, pencil, and charcoal, tempera and watercolor, ink with particucrayon, pencil, and charcoal, tempera and
lar emphasis on drawing and painting as related to the elementary child. May be repeated for credit up to 8 credits. Class not open to: Freshmen and Sophomores.
ART 4910 PRO-SEMINAR IN ART (1) Prerequisite: Senior stand ing witha major in art or permission of instructor. Deals with prepara
tion of the senior exhibition and explores the problems of setting up tion of the senior exhibrition and explores the probiems of seting up
studio and working professionally. Class poen to: Fine \& Applied Arts majors 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.
Atribute: Writing Course. Class open to: Visual Arts majors. Class not open to: Freshmen, Sophomores and Juniors.
ART 4943 ART INTERNSHIP ( $3-5$ ) Regist
ART 4943 ART IN ENNSHPT (3-5) Registration Approval: Intern Learning Contract Req. An opportunity for art students to gain addi-
tional proficiency and experience in an approved project of the student's own design. May be repeated for credit up to 20 credits.
Class not open
Freshmen and Sophomores. Class not open to: Freshmen and Sophomores Instructor. May be repeated for credit up to 15 credits. Class open to Instructor. May ber repeated or credit tep to
Visual arts majors. Class not opents. to: Freshmen, Sophomores and
Juniors.
ART 4966 SENIOR STUDIO PROJECT (3) Senior designs and completes a visual arts proiect. May be repeated for creditit times.
 Class not open to: Freshmen, Sophomores and Juniors.

## Biology

Bruce Congdon, Chair; Cynthia L. Fitch, A. Kenneth Moore, Timothy Nelson, Richard L. Ridgway The Department of Biology offers curricula leading to the Bachelor of Arts and Bachelor of Science degrees. The B.A. degree programs are designed for students interested in
biology as a liberal arts major and for those desiring pre professional training in medicine, dentistry, veterinary science, optometry or allied health sciences. The B.S. programs are designed for students planning gradua preparation for graduate study in physical therapy.

## Admission to the Major

The application for major status should be made by the beginning of the junior year, after completion of the sequence one quarter and at least 6 credits in the major at SPU.
Applications are considered individually by the biology faculty, but the normal minimum requirements for admission will bea GPA of 2.5 in biology courses.

## Requirements for the Biology Major

See page 42 or 49 for a summary of degree requirements

## B.S. IN BIOLOGY

## Option

(100 Credits; 35 upper-division in biology) his major provides preparation for graduate studies or recommended for students preparing for graduate or professional school. In addition to the requirements indicated below, students select 17 credits of elective courses (upperdivision) from departmental offerings to fuffili degree requirements. Depending upon interests and professional goals, tie elective coursework may be chosen to enp asize boany, courses should be discussed with biology faculty advisors. Students may also choose to take elective coursework at Sheldon Jackson College in Sitka, Alaska for an emphasis in Fisheries or at Washington State University for an emphasis in Forestry.
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 from the following: BIO $3325,3434,4256,4413$, and 4418 . Other re-commended courses include CHM 3225 and 3400 , FCS 1310 or 3340, HSC 3395, MAT 1112/1114 or 1221, PE 3590 and 3595, SOC 1110.

| Required Courses | B.S. I | B.S. II |
| :--- | :---: | :---: |
| BIO 2101 General Biology (was 1111) | 5 | 5 |
| BIO 2102 General Biology (was 1113) | 5 | 5 |
| BIO 2103 General Biology (was 1112) | 5 | 5 |
| BIO 2129 Anatomy and Physiology |  | 5 |
| BIO 2130 Anatomy and Physiology |  | 5 |
| BIO 3310 Ecology | 5 |  |
| BIO 3320 Development | 5 |  |
| BIO 3325 Genetics | 5 |  |
| BIO 4330 Evolutionary Mechanisms | 3 |  |
| BIO 4352 Cell Biology | 5 |  |
| BIO 4413 Animal Physiology <br> or BIO 4415 <br> PIO Pant P351 Microbiology | 5 |  |
| Required supporting courses |  | 5 |
| CHM 1211 General Chemistry | 5 | 5 |
| CHM 2371 Organic Chemistry | 5 | 5 |
| CHM 2372 Organic Chemistry | 5 | 5 |
| CHM 2373 Organic Chemistry | 5 | 5 |

(chart continues on next page)

| CHM 3225 Chemical Equilibrium and Analysis | 5 |  |
| :---: | :---: | :---: |
| CHM 3400 Physical Chemistry for the Life Sciences or CHM 3226 Quantitative and Instrumental Analysis | 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 |
| CSC 1115 Intro to DOS Applications |  | 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 |
| Electives* | 17 | 10 |
| Total | 100 | 108 |


| CHM 2373 Organic Chemistry | 5 | 5 |
| :--- | :---: | :---: |
| CHM 3225 Chemical Equilibrium <br> and Analysis | 5 |  |
| CHM 3400 Physical Chemistry for the <br> Life Sciences | 5 |  |
| MAT 1360 Statistics or HSC 4044 Biomed <br> Tests, Measurements and Stats | 5 | 5 |
| Electives | 25 | 10 |
| Total | $\mathbf{8 5}$ | $78-\mathbf{8 0}$ |


| B.A. Elective Courses Choose acceptable electives as indicated | $\begin{gathered} \text { B.A. I } \\ \text { credits) } \end{gathered}$ | $\begin{gathered} \text { B.A.II } \\ \text { credits } \end{gathered}$ |
| :---: | :---: | :---: |
| BIO 2129 Anatomy and Physiology (5) | X |  |
| BIO 2130 Anatomy and Physiology (5) | X |  |
| BIO 3350 Immunology (3) | X | X |
| BIO 3351 Microbiology (5) | X | X |
| BIO 3432 Vertebrate Biology (5) | X | X |
| BIO 3434 Animal Behavior (5) |  | X |
| BIO 3453 Biodiversity: Plant Identification and Taxonomy(5) |  | X |
| BIO 3456 Biodiversity: Seaweeds and Slime Molds(5) |  | X |
| BIO 4256 Environmental Physiology (5) | X | X |
| BIO 4325 Molecular Biology (5) | X | X |
| BIO 4352 Cell Biology (5) | X |  |
| BIO 4330 Evolutionary Mechanisms (3) |  | X |
| BIO 4361 (CHM 4361) Biochemistry (5) | X |  |
| BIO 4362 (CHM 4362) Biochemistry (5) | X |  |
| BIO 4363 (CHM 4363) Biochemistry (3) | X |  |
| BIO 4413 Animal Physiology (5) | X | X |
| BIO 4415 Plant Physiology (5) |  | X |
| BIO 4418 Neurobiology (5) | X | X |
| BIO 4420 Histology and Microscopic Technology (5) | X | X |
| BIO 4435 Biodiversity: Pests and Parasites (5) | X | X |
| BIO 4615 Issues and Values in Biology (3) |  | X |
| BIO 4900 Independent Study in Biology ( $1-3$ )* | X | X |
| BIO 4930 Biology Practicum (1-3)* | X | X |
| BIO. 4940 Internship in Biology (1-5)* | X | X |
| BIO 4950 Special Studies in Biology(3)* | X | X |
| BIO 4979 Biological Research (1-3)* | X | X |
| Blakely Island Field Station Courses |  |  |
| BIO 4117 Birds of the Pacific Northwest |  | X |
| BIO 4735 Marine Biology of Puget Sound |  | X |
| BIO 4740 Marine Invertebrate Biology |  | X |
| BIO 4744 Marine Botany |  | X |
| BIO 4815 Aquatic Ecology |  | X |
| BIO 4820 Ecomorphology |  | X |
| BIO 4825 Forest Ecology |  | X |
| BIO 4980 Blakely Field Studies |  | X |
| BIO 4981 Marine Ecology |  | X |

*No more than 6 credits of BIO 4950 and no more than 5 B.A. degree in Biology.

## 2371 Organic Chemistry

M 1211 General Chemistry
CHM 2372 Organic Chemistry
(chart continues on next column)

## B.A. IN BIOLOGY

## Option

(85 Credits; 25 upper-division)
The program provides a sound foundation for pre professional training for medicine, dentistry, optometry,
veterinary sciences, as well as certain other health rely 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

(78-80 credits; 30 upper-division)
his program is designed to provide a broad foundation in theal or 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 required CHM courses listed below

| Required Courses | B.A. I | B.A. II |
| :--- | :---: | :---: |
| BIO 2101 General Biology (was 1111) | 5 | 5 |
| BIO 2102 General Biology (was 1113) | 5 | 5 |
| BIO 2103 General Biology (was 1112) | 5 | 5 |
| BIO 3310 Ecology |  | 5 |
| BIO 3320 Development | 5 | 5 |
| BIO 3325 Genetics | 5 | 5 |
| BIO 4352 Cell Biology |  | 5 |
| BIO 4413 Animal Ihysiogy <br> or BIO 4415 Plant Physiology |  | 5 |
| BIO 4615 Issues and Values <br> in Biology <br> PHY 312 |  |  |
| Rhy or |  |  |

Requirements for the Biology Minor
(34-38 Credits; 15 upper-division)
Note that some of the courses in elective categories have rerequisites in chemistry.

## Required courses

BIO 2101, BIO 2102, and BIO 2103 General Biology............. 15
BIO 4615 Issues and Values in Biology.
A minimum of 8 credits each from two of the following four
categories:
BIO 3325 Genetics (5)
BIO 3350 Immunology (3)
BIO 33351 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)
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 4735 Marine Biology (5)
BIO 4740 Marine Invertebrate Zoology (5)
BIO 4744 Marine Botany (5)
Ecology and Evolutio
BIO 3310 Ecology (5)
BIO 4330 Evolutionary Mechanisms (3)
BIO 4820 Ecomorphology (5)
BIO 8825 Forest Ecology (5)
BIO 4950 Special Studies in Biology (3)
BIO 4981 Marine Ecology (5)

## Biology Courses

BIO 1100 BIOLOGICAL SCIENCE (5) Emphasis varies quarerly: Human Nutrition, Human Biology, Biological Diversity, or Marine Biology. Basic concepts include the chemistry of living hings, their structure and function, and their interactions with the vironment. Appliaw intended for non-bioloogy majors; no credit or students who have taken BIO 2101, 2102, ,2103, 2129, 2130 or ave Advanced Placement Biology credit. Also offered at Blakely Sland Field Station: see Summer Bulletin. 1102 INDIVIDUAL AND THE ENVIRONMENT (5) Using the scientific approach, explores the structure and function of the biosphere, the life-support system of our planet. Seeks a sound understanding of human effects and dependence on the enviro BIO 2101 GENERAL BIOLOGY (5) Prerequisites: One year of high school chemistry, CHM 1100, or equivalent. Surveys scientific ethod, chemistry of living organisms, organization and structur of cells and genetics. Includes laboratory. Designed for students nio 2102 GENERAL BIOLOGY (5) Prerequisite: BIO 2101 or permission of instructor. Surveys animal classification, structure anction, development and behovi (5) Prerequisite: BIO 2101 permission of instructor. Surveys the Kingdoms Monera, Protista Fungi, and Plantae, plant structure and function, evolutionary mechanisms and ecology. Includes laboratory

102129 HUMAN ANATOMY AND PHYSIOLOGY (5) Stud sthe structure and function of the human organism. Includes and membranes, skeleta, integumentay, muscular and ne 102130 HUMAN ANATOMY AND PHYSIOLOGY (5) Studes the structure and function of the human organism. Emphasizes he circulatory, immune, respiratory, digestive, endocrine, renal and reproductive systems. Includes Laboratory.
BIO 3310 ECOLOGY (5) Prerequisites: BIO 2102, 2103 and MAT BIO 3310 ECOLOGY (5) Prerequisites: BIO 2102,2103 and
1360 or HSC 4044 . Explores interrelationships of animals and plants and envirionmental factors influencing their distribution. lincludes laboratory Altribute: Writing Course.
BIO 3320 PRINCIPLES OF DEEELOPMENT (5) Prerequi-
sites: $B 102102$ or equalent and MAT 1360 or HSC 4044 Surveys sites: BIO 2102 or equivalent, and MAT 1360 or HSC 4044. Surveys
rinciples of developmental biology in vertebrates and representaprinciples of developmental biology in vertebrates and represe
five invertebrate models. Required laboratory is devoted to experimental and descriptive approaches to the study of
development.
BIO 325 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 chromo-
somes, including DNA replication, transcription and translation. somes, including DNA replication, transcription and translation.
Aspects of quantitative biology including population genetics and Aspects of quantitative biology including population genetics at
biological statisitics will be presented. Includes laboratory. Attribute: Writing Course.
BIO 3350 IMMUNOLO
Bribute: Wro ing Course. 335 IMMUNOLOG (3) Prerequisites: BIO 2101 or 2130 . Surveys specific and non-specific immune responses, the body's response to infection by yiruses, bacteria and other foreign mate-
rial, and current topics in immunological research. No laboratory. Offered alternate years.
BIO 3351 GENERAL MICROBIOLOGY (5) Prerequisite: BIO B10 3313 . Explos the nature of microorganisms and their 21010 or 230. Explores the nature of microorganisms and their
activities, the relationship of microbes to other living organisms activities, the relationship of microbes to to ther ivining organisms,
the biologgo of firuses, immunity and topics in microbiological re-
search. Required laboratory focuses on culturing microbes and
Sterile techniquu. Prerequisites: BIO 2102, 2103. Examines vertebrate life in an evolu tionary context through the study of adaptations, comparative anatomy, paleontology 0 afered diternate years
BIO 3434 ANIMAL BEHAVIOR (5) Prerequisites: BIO 2102, 2103. Examines the mechanisms and evolution of behavior in the major animal groups, exploring the appication of scientific ues ing and methodology to the study of animal behavior. Includes
laboratory discussion. Offered alternate years. Atribute: Writing
Course.
BIO 3453 BIODIVERSITY: PLANT IDENTIFICATION AND TAXONOMY (5) Prerequisite: Blo 2103. Explores sampling, identification and taxonomy of the emajor plant famiuies wilt special
emphasis on the flora of the Pacific Northwest. Includes laboratoryffield studies. Offered alternate years
MOLDS (5) Prerequisite: BIO 2103. Examines the chromista and alga plants specifically considering algae and fungus-like organisms. Their economic and ecologicical importance will be evaluate Their relationship to each other and to plants, animals and true fungi wilb be considered by examining their ultrastructure, physio
alternate years. ${ }_{\text {BIO }} 4256$ E EVIRONMENTAL PHYSIOLOGY (5) Prerequisites: BIO 2102 and CHM 2372. Studies organisms in relation to th physical factors of the environment. Examines physiological and
biochemical aspects of adaptation. Includes laboratory. Offered alternate years. Attribute: Writing Course.
BIO 4325 MOLECULAR BIOLOGY ( $\mathbf{5}$ )
BIO 4325 MOLECULAR BIOLOGY (5) Prerequisites: BIO
organisms including bacteria, viruses, yeast, plants and animals. Principles of molecular genetics and genetic engineering including gene mapping, DNA and RNA isloation, gene cloning, gel electroresearch will be presented. Includes laboratory. Offered alter-
nate years. BIO 4330 EVOLUTIONARY MECHANLSMS (3) Prerequisite
BIO 3310, 3325. Explores population genetics as a mechanism of BIO 3310, 3325. Explores population yenetics as a mechianism of
evolutionary change, including mutation, recombination and selecevolu. Considers speciation, neutral theory, phylogenetic sys
tics, history, and extinction. Includes discussion of micro-
revolutionary and
Non-Matriculated
d. macroevolutionary changes. Class not open to: CHM 2371. Examines structure (5) Prerequisites: BIO 3325 and CHM 2371. Examines structure and functions of bacteria, plants and chemical dynamics. Includes laboratory. Course Equivalent: EGR 4352AAttribute: Writing Course.
BIO 4331 BIOCHEMISTRY (5) Prerequisite: CHM 2373 or 3372 properties of biological compounds: carbobydrates lipids amia acids and proteins and nucleic acids. Metabolism: biochemical energetics, enzymes, electron transport and oxidative phosphoryregulation. Includes laboratory. Course Equivalent:CHM 4361 . BIO 4362 BIOCHEMISTRY (5) Prerequisite: BIO 4361. Continuation of BIO 4361. Studies chemical properties of biologica compounds. carbohydrates, tron transport and oxidative phosphorylation. Integration of metabolism: biochemical genetics, metabolic regulation. Includes laboratory. Course Equivalent: CHM 4362
abIO 4363 BIOCHEuISTRY (3) Prere
Bij 4363 BIOCHEMISTRY (3) Prerequisite: BIO 4362 or permission of instructor. Explores selected topics including: immuno-
globulins and the immune system; bacterial cell walls; membrane transport; hormone action; controlol of expression; genetic code;
miscle contraction ; ell physiology; drug action; protein folding muscle contraction; cell physiology; drug action; protein Hechanism; and mechanisms of infectious disease. Seminar format with leading researchers presenting current work. No laboratory Course Equivalent: CHM 4363
BIO 4413 ANIMAL PHYSIOLOGY (5) Prerequisites: BIO 2102 and CHM 3372 . 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.
BIO 4415 PLANT PHYSIOLOGY (5) Prerequisite Considers photosynthesis, material transport, seed germination Considers photosynthesis, material transport, seed germination,
growth and development, flowering and fruiting, and hormones of plants. The relationship of structure and function will be emphaBIO 4418 NEUROBIOLOGY (5) Prerequisites: BIO 2102 or 2129 and CHM 2372. An introduction to the neurosciences, focus ing 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. BIO 4420 HISTOLOGY AND MICROSCOPIC TECHNOLOGY
(5) Prerequisites: BIO 2102 CHM 2372 Examines microscopic (5) Prerequisites: BBO 2102, Chy 23 . Exas. Examines microscopic ture and the morphological evidences of their function. Emphasizes human histology. Includes laboratory. Offered alternate years.
BIO 443
Brerequisite: BIO 2100 IVSITY: PARASITES AND PESTS (5) medically and economically inportant 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. Bio 4615 ISSUES AND VALUES IN BIOLOGY ( 3 ) Examines
biological though biological thought, especially those historical, philosophical and
ethical aspects bearing on current issues in biology which help ethical aspects bearing on current issues in biology which help
shape a Christian world view and value system offered alternate years. Attribute: Writing Course Class not open to: Freshmen and Sophomores.
BIO 4900 I
BIO 4900 INDEPENDENT STUDY IN BIOLOGY (1-3) Regis tration Approval: Independent Study Agreement. Directed reading
andlor investigation on special topics. May be repeated for credit up to 5 credits
BIO 4930 BI
BIO 4930 BIOLOGY PRACTICUM (1-3) Registration Approval
Instructor. Provides opportunity for appled biology Selected Instructor. Provides opportunity for applied biology. Selected stu-
dents are assigned teaching, grading, lab preparation andor tutoring responsibilitites. May be repeated for credit up to 5 credits.
BIO 4940 BIO 4940 INTERNSHIP IN BIOLOGY (1-5) Registration Approval: Intern Learning Contract Req. Provides a significant learn-
ing experience to be obtained in a closely supervised work-study environnent. May be repeated for credit up to 5 credits.

104950 SPECIAL STUDIES IN BIOLOGY (3) Registration Approval: Travel Studies Form. Provides selected field study topics flerered at discipipline's discretion: Sonoran Desert Biology, Alpine repeated for credit 1 time. Bro 4979 BIOLLGGICAL RESEARCH (1-3) Registration Approval: Instructor. Prerequisites: 15 upper-divis.

## Biotechnology

See Chemistry section.

## Blakely Island Field Station

Bruce Congdon, Director
In 1977, the University was given 900 acres of land and granted an open space conservation easement on anothe
3000 acres on Blakely Island in the San northwestern Washington. The Blakely Island Field Station serves as the teaching site for upper division biology courses in marine, aquatic, and terrestrial ecology, natura history and introductory biology for non-biology 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 ew miles from the mainland, the island is isolated and home to only a few year-round residents. Facilities include 4 students and staff a residence hall with 10 double occupancy rooms, and a dive shop.
The island is surrounded by lush kelp forests, eelgras 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 supports several distinctive forest types.
For more information, contact the Field Station Director 206/281-2899 or bcongdon@spu.edu) or visit our website: http://www spu edu/depts/biology/blakehome.html

## Bakely island Courses

BIO 417 BIRDS OF THE PACIFIC NORTHWEST (3) Pre requisite: BIO 2102. Study of birds of the San Juan Islands and
surrounding waters. Class activities include field observations, surrounding waters. Class activities include field observations, years at the Blakely campus. Extra fee.
BIO 4735 MARINE BIOLOGY (5) Prerequisites: BIO 2102,
2103. Study of the marine environment and the identifiction, 203. Study of the marine enyironment, and the identification, , unique features, and natura history of the organisms inhabiting it. Extra fee.
bio 4740 MARINE INVERTEBRATE ZOOLOGY (5) Prereq uisite: BIO 2102. Provides a field and laboratory course emphasiz ing identification, life histories, habitats and interrelationships of fered in summer at Blakely Island. Extra fee

BIO 4744 MARINE BOTANY (5) Prerequisite: BIO 2103. Pro vides a field and laboratory course emphasizing identification, li,
histories, habitats and interrelationships of marine plants with emphasis on local flora and Blakely Island. Includes laboratory. Normally taught in summer at Blakely sland. Extra fee.
BIO 4815 AOUATIC ECOLOGY (5) Prerequisite: BIO 2102 BIO 4815 AQUATIC ECOLOGY (5) Prerequisite: BIO 2102.
Introduces students to the biology of freshwater organisms. The 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
sland. Extra fee. Class open to: Non-Matriculated and Undergraduate level.
BIO 4820 ECOMORPHOLOGY (5) Prerequisite: BIO 2102. A field course providing an introduction to the study of ecological morphology. Relationships between the en of ranisms are exa ined through a combination of lectures, laboratory work, and fiel observations at Crowley Laboratory on Blakely ISland. BIO 4825 FOREST ECOLOGY (5) Prerequisite: BIO 2103. Examines the organisms that comprise the forest ecosystem and laced on field study of population dynamics, composition and function of the forest community, and the forest as biologically modified habitat. earning experience with student focusing on a single topic or aspect of the Blakely environment (geology, animals, plants and
aquatic terrestial and marine sources). Extra fee. May be requatic, terrestial and marine sources). Extra fee. May be repeated for credit up to 5 credits.
BIO 4981 MARINE ECOLOGY (5) Prerequisites: BIO 2102, 2103. Considers recent advances in marine ecology. Symbiose predation, herbivory, and interactions with the physical eniron the application of ecological techniques to a specific problem and will include the writing of a report describing the resilts. Offered during the summer quarter at Blakely Island. Extra fee. Class op

## Business and Economics, School of

Alexander Hill, Dean; Jonathan Deming, Denise Daniels, Douglas Downing, Randal Franz, Loren Gustafson, Dan Hess, Gary Karns, Herbert Kierulff, Kenneth Knight, Joanna Poznanska James kand, Kegla Schee, Gerolyn Strand, Lisa Surdyk, Kenman Wong
"We prepare students for service and leadershtp in business and society by developing their professional competence and integrity in the context of Christian faith and values.
We are a learning community which prizes educational excellence and effective teaching, supported by scholarship

School of Business and Economics Mission Statement
Specifically, the School of Business and Economics seeks to Present a uniquely value-centered curriculum that system as well as other economic systems;
2. Develop a wide range of student competencies including technical skills. This is achieved through continuous curriculum review and a highly competent faculty who combine academic expertise with professional field experience;

Place a positive emphasis on management skills as asis for all majors to help develop students into successful manager
4. Serve business and not-for-profit organizations by developing capable, motivated graduates, offering
speciaized consulting and research services, and informing leaders in the community of scholarly developments in the fields of business and economics.

Admission to Majors in the School o usiness and Economics
Majors offered by the School of Business and Economics are accounting, business administration and economics. The business administration major offers concentrations in he following areas: (1) Economics, (2) Finance, (3) Students who are interested in a business major are ncouraged to indicate their interest upon arrival at SPU. This indication is made with the Admissions Office. It does not commit the student to a major within the School, but ssures that an advisor from within the School will be ssigned and information abo
For regularly 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 su admission requirements are satisfied.
For students who are declared majors outside the School of Business and Economics, and for nonmatriculated students who wish to take upper-division classes, permission to enroll in certain upper-division classes will require instructor permission along wit evidence that course prerequisites have been met.
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
To be accepted to a major in the School of Business and Economics, the student must have attained at least School of Business and Economics courses (ACCT, BUS, ECN); have demonstrated computer competency by passing CSC 1121, CSC 1126, and BUS 1700, or passing competency exams covering the equivalent; and have achieved a minimum 2.70 cumulative GPA from all institutions or at least a a.00 GPA in the most recent 15 credits at SPU.
Application forms may be obtained in McKenna Hall or Application forms may te use the on-line application on the
students may choose to SBE home page at 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 the most recent 15 credits at SPU. Application forms may be
trained in Mckenna Hall or students may choose to use the n-line application on the

## cholarship Program

The School of Business and Economics has, through the enerous donations of corporations and individuals, several separate scholarships for School of Business and business scholarships should contact the School of Business and Economics. The application deadline for these scholarships is March 1.

## nternships

Internships give students an opportunity to gain practical work experience and to apply their academic background in

## 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 the Catalog
Master's Programs in the School of Business and conomics See the SPU Graduate Catalog for details about he MBA and M.S.:in information Systems Manageme degree progra
information.

## Accounting

oss 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 also prepares the student to respond to the changing future environment and needs for accounting
information.
Students who successfully complete the program will be eigible to take both the Certified Public Accountant (CPA) and the Certified Management Accountant (CMA) examinations

Requireme
(106 credits)
See page 42 or 49 for a summary of degree requirements l tudents desiring to major in accounting must follow the application process described above. To be awarded a gegree with a major in accounting, students must meet the major was made and have a minimum def 45 credation of a the major at SPU.
Students who are planning to obtain any of the Accountant (CPA) Certions such as Certified Public or Certified Internal Auditor (CIA) should contact an Accounting faculty member for advising

## General Core

Demonstration of computer competency is required. This is documented by passing CSC 1121, CSC 1126, and BUS 1700 SBE recommends that accounting majors take both a
ral presentation class (COM 1301 or COM 1321) and a riting class (ENG 1101, ENG 2201, ENG 2215, ENG 320 NG 3207, ENG 3208, ENG 3301, or ENG 4401)

## Core requirements to be completed by first

 quarter sophomore year.ECN 2101 Principles of Microeconomics ........................... 5 ENS 2102 Principles of Macroeconomics... BUS 2414 Legal Environment of Business (5)
or BUS 3414 Business Law (5) sophomore year
ACCT 2361 Financial Accountin
CCT 2362 Managerial Accounting ..................................... 5

These six courses are recommended to be completed in the junior and senior years in this order:
BUS 3400 Business Ethics $\qquad$
BUS 3614 Organizational Behavior


BUS 4644 Operations Management
These requirements should be completed during the junior or senior year:
BUS 3620 Management Information Systems...................... 5
Accounting Core Courses
ACCT 3327 Cost Accounting ...
ACCT 3351 Intermediate Accounting ACCT 3353 Intermediate Accounting ACCT 4362 Accounting Theory and Pro ACCT 3324 Federal Income Taxation ACCT 3328 Auditing. CCT 4351 International Accounting *or 102 credits if...........................................................

## Accounting Course

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 first quarter freshmen.
ACCT 2362 MANAGERIAL ACCOUNTING (5) Prerequisite. BUS 17700 or CSC 1123 or competency xexam. Develops basic concepts and skills for preparing accounting information for manage-
rial decision making purposes. Computer spreadsheet skills are
equired.
CCT 3324 FEDERAL INCOME TAXATION (3) 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. Class not topen to: Freshmen. ACCT 3325 FEDERAL INCOME TAX II (5) This is a continu tion of ACCT 3324. Class not open to: Freshmen.
ACCT 3327 COST ACCOUNTING (5) Prerec ntroduces basic principles of cost accounting as asplied to material labor and manufacturing overhead. Class not open to: Freshmen. ACCT 3328 AUDITING (3) Prerequisite: ACCT 3352. Teaches auditing procedures for veritying the records and reports used to
show the financial condition and operating results of business enterprises. Class not open to: Freshmen and Sophomores. ACCT 3351 INTERMEDIATE ACCOUNTING (5) Prerequisite: ACCT 2362 . Studies the concepts and drinciples of accounting $r$ e events. Includes issues related to the measurement of income. Class not open to: Freshmen.

ACCT 3352 INTERMEDIATE ACCOUNTING II (5) Prerequisite: ACCT 3351. Continuation of 3351 . Class not open to Freshmen.
ACCT 3353 INTERMEDIATE ACCOUNTING III (5) Prerequisite: ACCT 3352. Continuation of 3352. Class not open to: Freshme ACCT 4351 INTERNATIONAL ACCO SCT 3353. Considers and analyze financial accounting concepts relating to consolidated financial statements, translation of foreign financial statements and accounting for foreign translations, international financial reporting and accounting for special
entities. Recommended for CPA examination preparation. Class not open to Freshmen and Sophomores. ACCT 4462 ACCOUNTING THEORY AND PROBLEMS (5) Prerequisite:L ACCT 3353 . Critically examines problem areas of
current interest in financial accounting. Emphasizes investigating the "why's" 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 soned position on the matter. Attribute: Writing Course. Class not open to: Freshmen and Sophomores.

## Business and <br> Economics, School ol <br> <br> Business Administration

 <br> <br> 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 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: (1) Economics, (2) Finance, (3) the following areas: (1) Economics, (2) Finance, (3) Students in all concentrations will take the following common core of classesdescribed below under General Core.
Requirements for the Major
(96 credits)
[See page 42 or 49 for a summary of degree requirements] Students cesiring to major in business adminstation mu awarded a degree with a major in business administration, students must meet the general core requirements and complete at least one 15 credit concentration. Major requirements are based on those in effect at the time declaration of the major was made. Also, a minimum of 45

General Core
Demonstration of computer competency is required. This is documented by passing CSC 1121, CSC 1126, and BUS 1700, or passing competency exams covering the equivalent. SBE recommends that business administration majors take both an oral presentation class (COM 1301 or COM
1321 ) and a writing class (ENG 1101, ENG 2201, ENG 2215, ENG 3206, ENG 3207, ENG 3208, ENG 3301 or ENG 4401), quarter sophomore year:
ECN 2102 Principles of Microeconomics BUS 2414 Legal Environment of Business
$\qquad$
Core requirements to be completed during the sophomore year:
ACCT 2361 Financial Accounting
ACCT 2362 Managerial Accounting
BUS 3250 Business Finance
BUS 2700 Business Finance.
These six courses are recommended to be completed during the junior and senior years in this order
BUS 3400 Business Ethics.
BUS 3614 Organizational Behavior
BUS 3541 Marketing and Society
BUS 3700 Quantitative Methods for Decision Mav................. 5 BUS 4644 Operations Management
r Decision Making BUS 4690 Strategic Management
These four requirements may be completed any time during the junior or senior year
BUS 3620 Management Information Systems.
International Business
BUS 4940 Internship
r-division elective of the student's. choice (from ACCT, BUS, or ECN
Total general core: ..
In addition to the general core students nus credits in one of the following, concentrations: take 1
Management Concentration
BUS 3631 Entrepreneurship.

BUS 4660 Managing Systems Management
Marketing Concentration
BUS 3542 Marketing Research
BUS 4542 Consumer Behavior
BUS 4543 Marketing Managem
Finance Concentration
BUS 3251 Investments.
BUS 4274 Problems in Corporate Finance
BUS 4275 Practice of Finance

## Economics Concentration

ECN 3101 Intermediate Macroeconomics
EN 3102 Applied Economics
formation Systems Concentration
nformation Systems Concentration
CSC 1230 Problem Solving and Programming BUS 4620 Computer Networks.................. Total.

* 93 credi..........................................................

Requirements for the Minor in Busines Administration
The School of Business and Economics offers a business minor for students who want to complement their major 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
the most recent 15 credits at SPU. Application to the minor may also be made on-line at http://www.spu.edu/depts/sbe.
ECN 1100 or ECN 2101 or ECN 2102.
$\qquad$
ECN 1100 or ECN 2101 or ECN 212
BUS 3400 Business Ethics .......
Choose two of these three
BUS 3250 Finance (5)
BUS 3541 Marketing and Society (5)
Choose one other course from ACCT, BUS, or ECN........ 10
Total

## Business Courses

(See Admission to Majors section for requirements to enroll in upper-division courses.)
dus (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.
ing, modifying, saving and printing spreadsheee documents. Entering ing, modifyng, saving and printing spreadsheet documents. Entering
and using formulas and calculations. Editing and importing data. Incorporating graphs. Formatting and enhancing the appe
spreadsheet document. Course Equivalent: CSC 1123 .
spreadsheet document. Course Equivalent: CSC 1123.
BUS 2414 LEGAL ENVIRONMENT OF BUSINESS (5) Studies the relationship between law and business. Includes coverage of laws which impact the employer-employee relationship, product crimes and torts.
cher
crimes and torts.
BUS 2700 STATISTICS FOR BUSINESS AND ECONOMICS (5) Prerequisite: Bus 1770 or CSC 1123 or competency exam. Explores descriptive statistics, probability, random varia
tions, estimation, hypothesis testing, regression and
nonparametric statistics. Course Equivalent
BUS 3250 BUSISESS FINANCQ (5) Prerequisite: ACCT 2361.
Studies the principles of financial markets, interal and Studies the principles of financial markets, internal and externa
sources of funds and their costs to the firm. Includes manage ment of working capital, capital budgeting, valuation issues and financial planning. Class not open to: Freshmen.
BUS 3251 INVESTMENTS (5) Preresusit BUS 3251 INVESTMENTS (5) Prerequisite: BUS 3250. Studies the basic problems and issues concerning development and imple investment risks, types of investments, securities markets and portfolio theory. Also considers securities analysis and valuation
techniques. Class open to: School of Business \& Economics majors. Class not open to: Freshmen.

## Business and Economics

BUS 3400 BUSINESS ETHICS (5) Prerequisite: BLL 1220 or other biblical literature course. 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. Class not open to: Freshmen and Sophomores.
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. Class not open to Freshmen
BUS 3439 MO
sus 3439 MOTIVATION AND LEADERSHIP (5) Prerequisite: BUS 3614. Presents the theories and principles of motivation munity and educational settings. Course Equivalent: PSY 3433 . . . munity and educational settings. Course Equivalent: PSY 3439 .
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. Attribute: Writing Course. Class not open to: Freshmen.

BUS 3542 MARKETING RESEARCH (5) Prerequisites: BU steps and research design, questionnaires, secondary and primary data, sampling, processing and interpreting data, evaluation and effective presentation of findings. Class open to: School of Business \& Economics majors. Class not open to: Freshmen.
BUS 3544 ADVERTISING (5) Prerequisite: BUS 3541 . scribes the theory and practice of advertising and its role in th firm and in the socio-economic system. Discusses techniques and the management of advertising and applies them to the practice of marketing. Class not open to: Freshmen. sites: BUS 3541, , 3614 . Sales planning and organization. Managesites. of the sales force for productivity. Perssonal selling
ment
techniques. Class open to: School of Business \& Economics techniques. Class open to: School of Business \& Economics
majors. Class not open to: Freshmen. majors. Class not open to: Freshmen.
BUS 3614 ORGANIZATIONAL BEHAVIOR (5) An introduction to theory, research, and practice related to the management of organizations. A contingency-based view of organizations is use
to examine interdependencies between organization environto examinin interdependencies between organization ennirinemphasis on the human dimension. Class not open to: Freshmen. BUS 3620 MANAGEMENT INFORMATION SYSTEMS (5) Studies the processes for collecting, verifying, and processing information to assist management in maknging decisionsto achiee tronic data interchange will be examined, with computer
ystems viewed as one part of the complete information systen Class not open to:rreshmen. 3631 ENTEPRENEURSIP (5) 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 personatity 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. Class open to: School of Business \& BUS 3657 HUMAN RESOURCE MANAGEMENT ( Prerequisite: BUS 3614. An introduction to the management of human resources in organizations. Theory, research and practice recruiting and staffing training and developmant performance ppraisal, compensation, organization development, government egulation of HRM and quality of work life will be studied. Class pen to: School of B to: Freshmen.
BUS 3670 MANAGEMENT IN THE NON-PROFIT SECTO (3) Focuses on the management of not-or-profit organizations ncludes analysis of board of directors, management responsibilfies, funding requirements, coordination and direction of volun-
teers, legal issues and public relations. Appropriate for those interested in the management of churches, hospitals, performing groups, social service organizations. Class open to: School of Busieess \& Economics majors. Class not open to: Freshmen.
BUS 3700 OUANTITATIVE METHODS FOR DECISION MAKING (3) Prerequisite: BUS 2700. Uses computers for solving quantitative management decision problems. Includes optimization with derivatives; marginal analysis; linear programming; and forecasting methods.
BUS 3828 INTE
orms of internativATIONAL BUSINESS (5) Covers the major production, marketing, import and export; emphasizes relationships between theory and practice regarding management, governFreshmen.
BUS 4273 SPECIAL TOPICS IN FINANCE (3) Prerequisites: BUS 3250 ; junior standing. Presents lectures and case studies
dealing with cash flow cash budgets, dealing with cash flow, cash budgets, financial forecasting and
establishing and maintaining relationships with financial sourc Also considers capital budgeting, leasing and specialized funding vehicles. Class not open to: Freshmen.
BUS 4274 PROBLEMS IN CORPORA
UUS 4274 PROBLEMS IN CORPORATE FINANCE (5) Pre requisite: BUS 3250 . Gives an in-depth treatment of the more
critical aspects of financial decision making introduce critical aspects of financial decision making introduced in BUS
3250 , utilizing lectures and case studies. Topics typically include
mergers and acquisitions forecasting and cosh 3250, utilizing lectures and case studies. Topics typically include
mergers and acquisitions, forecasting and cash budgeting, valua-

We want to develop students who are no only competent in business practice, ut who demonstrate eadership in the usiness community hrough their service and integrity. Denise Daniel Management

tion techniques and capital structure issues. Class open to: Schoo of Business \& Economics majors. Class not open to: Freshmen.
BUS 4275 THE PRACTICE OF FINANCE (5) Prerequisite: BUS 4274. Applies tools and concepts in all phases of finance to real situations through projects and case studies. Class open to: School of Business \& Economics majors. Class not open to: Freshmen.
BUS 5422 CONSUMER BEHAVIOR (5) Prerequisite: BUS when they buy Special emphasis will he placed on interrating cognitive, behavioral and ethical concepts in the study of consum behavior, and the relationships of consumer behavior with market ing strategies. Class open to: School of Business \& Economic
maiors. Class not open to: Freshmen. majors. Class not open to: Freshmen.
BUS 4543 MARKETING MANAGEMENT (5) Prerequisite: BUS 4542. Deals in depth with the planning, executing and controlling of marketing strategies and tactics. Uses a computer simula
tion and a case format. Class open to:School of Business \& Economics majors. Class not open to: Freshmen.
BUS 4620 COMPUTER NETWORS (5) Prere 3620. The components, development and management of computer networks are studied. Topics include: telecommunications, erations and management, client/server network issues, distributed systems, buusiness applications of networks, hands-on
network installation. Class open to: Shool of Business \& Econo network instalation. Class spen to: School of Business \& Econon ics majors. Class not open to: Freshmen and Sophomores.
BUS 4622 INFORMATION AND DATABASE SYSTEMS (5) Prerequisites: BUS 3620, CSC 1230 . Database concepts and management issues are explored from information modeling to the imformation modeling databse desisn and maniplation quey languages, integrity, reliability, distributed database, database management, design and implementation of a database application. BUS 4644 OPERATIONS
BUS 3614 , 3700. Analyzes theory and application of the systems approach to production management. Provides a focus on the dec sion making process, the design and control of manpower, mater Class open to: School of Business \& Economics majors Class not open to. Freshmen and Sophomores.
BUS 4660 MANAGING SYSTEMS (5) Prerequisites: BUS 3614
and 3657. This management course is a problem-focused look at and 3657. This management course is a problem-tocused look at
or ranizational systems. Building upon a systems-theory organizational systems. Building upon a systems-theory moder we
will explore the macro-level issues and dynamics of whole organi zations. 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. Class open to: Business Adminis open to: Freshmen and Sophomores. BUS 4661 SPECIAL TOPICS IN MANAGEMENT (3) Prereq-
uisite: BUS 3614 Students anayze current issues in improving the uisite: BUS 3614 Students analyze current issues in improving the effectiveness of organizations. Class open to: Business Administra-
tion majors and Business and Economics Majors. Class not open to: Freshmen and Sophomores.
BUS 4690 STRATEGIC MANAGEMENT (5) Prerequisites: BUS $3250,3541,3614,3700,3400$, and 4644. Explores strategy forperformance designed to aid organizations to achieve the purpos and objectives of both small and large businesses. Attribute: Writ ing Course. Class not open to: Freshmen and Sophomores.
BUS 4900 INDEPENDENT STUDY IN BUSINES ( $1-5$ ) BUS 4900 INDEPENDENT STUDY IN BUSIINESS (1-5)
Registration Approval: Independent Study Agreement The stud 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 beforoe turnin in the final draft of a paper. A five-credit independent study re-
quires a total of 30 pages of written work. In general, the number quires a total of 30 pages of written work. In general, the n 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.

BUS 4940 INTERNSHIP (1-5) Registration Approval: Intern Learning Contract Req. Provides field experience opportunities vice and leadership to a professional business setting. Course consists of 1) an internship in a professional business setting (minimum 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 Develop. Additional information may be obtained from the Career Develop-
ment Center or Internship Coordinator for the School of Business ment Economics. May be repeated for credit up to 10 credits. and Economics. May be repeated for credit up to 10 credits.
Course Equivalent: ECN 4940. Class not open to: Freshmen and
Sophomores.

## Economics

Douglas A. Downing, Contact Person Economics is the study of the allocation of scarce resource among competing uses. Many vital issues that affect human welfare are studied in economics, 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 which will develop the student's economic interests. (See Business Administration section for the economics concentration in the business administration major.)

## Requirements for the Major

(7l credits)
See page 42 or 49 for a summary of degree requirements Students desiring to major in economics must follow th 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 CSC 1121, CSC 1126, and BUS 1700 , or passing competency exams covering the equivalent. SBE recommends that economics majors take both an oral presentation class (COM 1301 or COM 1321) and a writing class (ENG 1101, ENG 2201, ENG 2215, ENG 3206, ENG 3207 ENG 3208, ENG 3301 or ENG 4401).

## Core requirements to be completed by firs

 quarter sophomore yearBUS 2700 Statistics for Business and Economics ............... 5 ECN 2101 Principles of Microeconomics ..............................
Select one course from the following:
GEO 1110 World Regional Geography (5)
SOC 1110 Introduction to Sociology (5) core requiremer ACCT 2361 Financial Accounting Core requirements to be completed junior or senior years
ECN 3101 Intermediate Macroeconomics ............................ ECN 3102 Applied Economic
 ECN 4310 International Political Economics (5)

POL 3320 Political and Economic Development of Nations (5) ............................................................. BUS 3400 Business Ethic
Economics electives ( 15 credits required) Take at least two courses from the following list: Student 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 Land Economics (5)
ECN 3316 Issues in Political Economy (5)
ECN 3318 Economics of Public Sector (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)

*or 68 credits if computer courses are waived
For students who will be seeking employment immediately after graduation, an internship (ECN 4940) is recommended Students planning to attend graduate school should see their advisor for more information.
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 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 Enominum of 45 quarter credits of coursework or 2.70 3.00 GPA in the most recent 15 credits at SPU. Application to the minor may also be made on-line at 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 capitalism and socialism.
capialism and sicialism.
ECN 2101 PRINCIPLES OF MICROECONOMICS (5) Provides a foundation course for business majors. Topics include
supply and demand 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. ECN 2102 PRINCIPLLS OF MACROECONOMICS (5) Presents topics including elementary demand and supply, determian
tion of national income, employment and prices, money and banking system, fiscal and monetary policy and economic welfare, economic growth and development and international finance.
ECN 2207 ECONOMIC GEOGRAPHY (5) Surveys the chan ECN 22207 ECONOMIC GEOGRAPHY (5) Surveys the changing
world production and distribution systems, particularly principles wond production and distintion sonstions for spatial interaction. The special role of cities in ordering the world economic system and their place in dictating regional and national development, as well as in stimulating growth, is also explored. Course Equivalent: GEO 2207. requisites: ECN 2101, 2102. An analysis of aggregate income, employment, and price level; and classical, Keynesian, wnd recent contributions. Offered alternate years. Attribute: Writing Course Class not open to: Preshmen

ECN 3102 APPLIED ECONOMICS (5) Prerequisites: ECN nicroeconomics at the intermediate level with particucuar application to operations of the irm. Emphasizes the application of firms and explores the use of economic theory for projections and
forecasting Class not topen to: Freshmen forecasting. Class not open to: Freshmen.
ECN 3231 URBAN LAND ECONOMICS
CN 3231 URBAN LAND ECONOMICS (5) Prerequisite: ECN urban growth and land use patterns, especially forces influencincing urban growth and land use patterns, especially forces inftuenciing estate values and the housing market. Examines such factors as
laxation, zoning, and other land use policies as they relate to the axation, zoning, and other land use policies as they relate to the
open to: Freshmen.
ECN 3316 ISUES IN POLITICAL ECONOMY (5) Prerequi-
. sites: ECN 2101, 2102; Junior standing preferred or permission instructor. Studies the interrelationship between politics and economics and their effect on human welfare: economici issues, Course. Class not open to: Freshmen. requisite: ECN 1100 or 2101 . Presents the rationale for governmenal provision of goods and services, non-market decision making, public expenditure analysis, taxation, fiscal policy, and the role of Class not opent in ec: Frenoshmen.
ECN 3321 MONEY AND BANKING (5) Prerequisites: ECN 101 and 2102;ACCT 2361. Surveys monetary theory ynd and the role of
maior financial institutions such as commercial banks, the Federal major financial institutions such as commercial banks, the Federal The impact of bank operations on the quantity and flow of money in the economic system is emphasized. Class not open to: Freshmen. ECN 3635 MARXISM: 20 TH CENTURY THEORY AND PRAC heory and practice in the 20th century, compares the Soviet, European, Chinese and Latin American experiences with Marxist thought and practice. Offered alternate years. Course Equiva-
lents: HIS 3435 and POL 3435 . Class not open to: Freshmen. ECN 3640 GROWTH OF THE AMERICAN ECONOMIC SYSTEM (3) Prerequisites: ECN 1100, or ECN 2101, or 2102. Studies the development of the American economy, with particular atten-
tion to the rise of the modern business system and its impact on tion to the rise of the modern business system and its impact on
American society; gives corollary consideration of labor, agriculAmerican society, gives coroilary consideration of tabart, agnier
ture, technology, and the monetary system. Offered alternate years. Courseg Equivalent: HIS 3640 . Class not open to: Freshmen.
ECN 4310 INTERNATIONAL POLTICAL ECONOMY (5) ECN 4310 INTERNATIONAL POLTTICAL ECONOMY (5)
Examines the nature and dynamics of the global economy in relaExamines the nature and dynamics of the global economy in rela-
tion to the economies and political systems of nations and to theotion to the economies anc political systems of nations and to theo-
ries and models of national, regional and global economic growth.
International trade, business and governent policy are studied International trade, business and government policy are studied in this context. Offered alternate years. Course Equivalent: POL
4310 . Class not open to Freshmen.
ECN 4641 HISTORY OF ECONOMIC THOUGHT I ( $1-3$ ) 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 bibical, classical, physiocratic and mercantilist schools of economic, thought. Offered dalternate years. May be repeated for
credit up to 3 credits. Atribute Writing Course credit up to 3 credits. Attribute: Writing Course. Class not ope ECN 4642 HISTORY OF ECONOMIC THOUGHT II (1-3) Registration Approva: Instructor. Prerequisites: ECN 2101, 2102 and 4641. Continuation or ECN 4641. Class not open to: Freshmen.
ECN 4900 INDEPENDENT STUDY IN ECONOMICS (1-5) ECN 4900 INDEPENDENT STUDY IN ECONOMICS (1-5) proposes a topic of current interest in business to a professor in the School of Business and Economics. The student meets with th professor to discuss a bibliography and rough drafts before turning in the final draft of a paper. A five-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 pages of written work mist be six times the number of credts,
or there must e equivalent work in exams or other requirements.
May be repeated for credit up to 5 credits.

Business and
Economics, School of

CN 4940 INTERNSHIP IN ECONOMICS (2-5) Registration prova:Intern Learning Contract Req. Provides field experience ess, faith, service, and leadership to a professional business etting. Course consists of 1) an internship in a professional bus ness setting (minimum 10 hours/week) and 2 ) an on-canpus semiegistration. Additional information may be obtained from the to registration. Additional information may be obtained from the chiool of Business and Economics. May be repeated for credit up 10 credits. Course Equivalent: BUS 4940. Class not open to

## EXECUTIVE ADVISORY COUNCIL

The Executive Advisory Council was formed for the purpose of assisting the Seattle Pacific University faculty in building and maintaining a School of Business and Economics tudents who are preparing for a career in busines government, and private non-profit institutions.
xecutive Advisory Council Members
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Thomas K. Brown, EAC Emeritu
oug Burleigh, Associate, LEADERSHIP DEVELOPMEN FOUNDATION
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Tames G. Young, President and Chief Executive Officer SEATTLE STEAM COMPANY

## Chemistry and Biochemistry

Grayson L. Capp, Chair, Paul A. Lepse, Lyle B. Peter Daisy Y. Zhang, Eva Aw adjunct Chemistry is primarily concerned with matter, energy, and such as making new substances includiniety of things, medicines, designing new ways to make known compounds, isolating and determining chemical structures of naturally occurring substances, elucidating the chemical bases of biological processes, explaining the changes matter undergoes, developing and applying analytical techniques fo criminal investigations and environmental problems, selling 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
The curriculum is designed to serve persons desiring education, as well as those interested in pursuing furth 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 [See page 42 or 49 for a summary of degree requirements]

## Core Courses*

CHM 2371, 2372, 2373 Organic Chemistry $\qquad$ | ... .15 |
| :--- |
| $\cdots . . . ~$ | CHM 3225,3226 Analytical Chemistr $\qquad$

PHY 1101 norganic Chemistry
PHY 1101, 1102, 1103
 Total. dents will also................................................ 5 a pre-requisite to CHM 2371.

CHEMISTRY SEMINARS. Chemistry majors are require to attend the chemistry seminars durngg their junior and senior years. These seminars will be scheduled up to five times per quarter to provide a forum for undergraduat communicate the results of their research.

## B.S. in Chemistry

${ }^{(65}$ Credits; 45 upper-division)
This course of study is recommended for a professiona 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 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
tatistics. 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 field of biotechnology.
the program includes 48 credits of chemistry; 20 credits credits of calculus. In year three, students should schedule 13 credits of biochemistry and 5 credits of molecular biology. In year four, 5 credits of research should be scheduled. In year three and four, 10 to 20 credits of lectives are to be selected fro

## Suggested First Year B.S. Biochemistry

 CurriculumAutumn

Chemistry and
Biochemistry
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), 0 Internship (CHM 4940) plus chemistry electives. The physics seribed above. Also, MAT 1225, 1226, and 1228 are required. Additional mathematics is recommended for students planning to go on to graduate work in certain area 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 worl in chemistry
B.S. chemistry track is credit intensive. In order to complete the major in four years, ideally one should begin with CHM A 121 or 237 in the first quarter of the is is
year. A suggested curriculum met with below, but it is early to plan the specific details, especially if the student is considering a Pre-Professional track.

## Suggested First Year B.S. Chemistry

 Curriculum
## Autumn




## Winter

CHM 2371 Organic Chemistry ............................................... 5
MAT 1226 Calculus


Spring
CHM 2372 Organic Cumistry
MAT 1228 Series and Differential Equation
General Education.
Suggested Second Year B.S. Chemistry Curriculum

## Autum

CHM 2373 Organic Chemistry ............................................
PHY 1121 Physics for Science
General Education...
Winter
CHM 3225 Chemical Equilibrium and Analysis
General Eduction Science and Engineering


Spring
CHM 3226 Ouantitative and Instrumental
PHY 1123 Physics for Science and Engineering $\qquad$ $\ldots . . . . .5$

Suggested third year BS Chemistry curriculum should include CHM $3401,3402,3403$, general education courses an other Chemistry and general elective courses.

## B.S. in Biochemistry

( 63 credits; 43 upper-division)
he molecular aspects of the life sciences calls for an
interdisciplinary course of study in chemistry and biolog
plus background support in physics, mathematics and

Spring
CHM 2372 Organic Chemistry MAT 1360 Intro to St
General Education.

Suggested Second Year B.S. Biochemistry
Curriculum
Autumn
CHM 2373 Organic Chemistry ........................................... 5
PHY 1101 General Physics General Education...

## Winter

CHM 3225 Chemical Equilibrium and Analysis
PHY 1102 General Physics

## Spring

CHM 3400 Physical Chemistry for Life Sciences
PHY 103 General Physics
Other required courses are BIO, 4325, CHM 4361, CHM 4362 CHM 4363 , CHM 4900 .

## B.A. in Chemistry

( 50 Credits; 30 upper-division)
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 , minimum of 50 credits in chemistry (excluding CHM 1100, 1110,
and 1330 ) is 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

## 



## Winter


electives. The physics requirement and Chemistry Seminar requirement are described above. Also required is MAT 1221 or
MAT 1225 and 1226 , although generally, MAT 1225,1226 , and 1228 should be taken.
Requirements for the Chemistry Minor (35Credits; 15 upper-division)
CHM 1211 General Chemistry ........................................ 5 Chemistry courses chosen from at least two of these five areas: organic, inorganic, analytical, physical, and
 Total.................................................................... 3 4940.

CHEMICAL EDUCATION. Students preparing for the teaching profession at the elementary level should take at
least CHM 1100 or CHM 1211. (For seneral science major least CHM 1100 or CHM 1211. (For general science majo
requirements in elementary teaching, see School of 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 comple 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 the B.S. in biochemistry, or the B.A. with biochemistry major. See pre-professional health section of the Catalog.
MEDICAL TECHNOLOGY. Medical technology students should complete a B.A. in chemistry with biochemistry or the B.S. in bioch
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 concurProficiency Exam or take the required Maf for
rently. This course is not con recommender 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 Simple reactions and some current applications are stuaided. Can CHM Pow 110 INTRODCTIMN TO TTE NATUR O O FCIENCE
(5) Provides a lecture, discussion, student particication course in (5) Provides a lecture, discussion, student participation course in
the physical sciences with a chemistry emphasis. Examines basic 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 scientificic concepts and theories. Provides preparation fo
informed decision making on some current and future societal informed decision making on some current and future societal
issues. Not recommended for students with more than one high school science course. than one high school science course. Course Equivalent: PHY 1110 .
CHM 1211 GENERAL CHEMISTRY (5) Prerequisites: Requires 2 years high school mate matics Proficiency Exam (or passing scoro on the SPU Mathematics Proficiency Exam or
completion of the required MAT 0120 credits), and 1 year of high school chemistry or CHM 1 100. Introdeces properties of matter
stoichiometry chemical reactions, stoichiometry, chemical reactions, thermochemistry, states of
matter, chemical bonding atomic and molecular structure. Includes laboratory.

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. CHM 2371 ORGANIC CHEMISTRY (5) Prerequisite: CHM 121 or permission of instructor. This is the introductory course in
organic chemistry. It review topics such as stoichiometry acids organic chemistry. It reviews topics such as stoichiometry, acids
and bases, structure and bonding theory nomenclature, synthesis, and bases, structure and bonding theoryy nomenclature, synthesis,
thermodynamics, gas laws, functional groups and reaction mechathermodynamics, gas aws, iunctional groups and reacion mecha-
nisms as applied to organic chemistry Laboratory work will em-
phasize basic methods of separation and purification phasize basic methods of separation and purification
representative substances.
CHM 2372 ORGAIIC CHEMISTRY (5) Prerequisite: CHM 2371. A continuation of CHM 2371. Continues studies of principle of nomenclature, synthesis, thermodynamics, structure and reac-
tion mechanisms to a broadening coliection of organic functional tion mechanisms cos broancing collection of organic functional
groups. Introduces spectroscopic methods. Laboratory work will groups. Introduces specirroscopic methods. Laboratory wor
emphasize basic methods of synthesis of representative compounds, and obtaining their spectra and other properties. CHM 2373 ORGANIC CHEMISTRY (5) Prerequisite: CHM erties of common organic functional groups and introduces topics erties 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 CHEMST
CHM 2930 CHEMISTRY PRACTICUM (1-3) Registration
Approval: Instructor. Selected students are assigned grading, laboratory preparation, and/or tutoring responsibilities. May be repeated for credit up to 3 credits.
CHM 3225 CHEMICAL EOULBRIUM
Prerequisite: CHM 2372. Laboratory oriented course dealing with chemical equilibria in solution and their applications to quantita-
tive analysis. Some types of reactions to be studied are precipit tive analysis. Some types of reactions to be studied are precipita tion, acid-base, complex formation and oxication-reducili b
Traditional wet chemical and instrumental methods will be used. CHM 3226 QUANTITATIVE AND INSTRUMENTAL ANALYSIS (5) Prerequisite: CHM 3225 . Laboratory oriented course,
dealing with the theory and practice of quantitative analytical 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 appli cations. Course Equivalent: EGR 3226.
CHM 3400 PHYSICAL
CHM 3400 PHYSICAL CHEMISTRY FOR LIFE SCIENCES (5) Prerequisites: CHM 2373, 3225, and either MAT 1221 or 1226 . A survey of physical chemistry topics such as thermodynamics, statistical mechanisc, kinetics, quantum chemistry and spectroscopy
with examples and applications from the life sciences. with examples and applications from the life sciences.
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 ap
plications. Includes elements of statistical thermodynamics. pications. nncludes eiements of statisticica th.
CHM 3402 PHYSICAL CHEMISTRY (4) Prerequisite: CHM 3540 , PHY 1103 or PHY 1123 , and MAT 1228 or permission of Instructo Studies quantum theory and group theory and their applications to
spectroscopy, molecular and solid state structures and bonding. spectroscopy, molecular and soidid state structures and donding.
CHM 3403 PHYSICAL CEMISTRY (4) Prerequisite: CHM 3225, PHY 1103 or PHY 1123 , and MAT 1228 or permission of Instrutor. Studies statistical mechanics, chemical kinetics, physicial and chemical equilibria, electrochemistry and selected related topics
CHM 3460 PHYSICAL CHEMISTRY LABORATORY (1-2) Prerequisites: CHM 3225 or equivalent and CHM 3401,3402 or 340 (may be taken concurrently with CHM 3401,3402, or 3403 ). Provides opportunity for several experiments with a written report for
each experiment which includes an analysis of the reliability and each experiment which includes an analysis of the reliability and
limits of error of the results. May include computer applications. May be repeated for credit up to 2 credits. Attribute: Writing
CHMSE 3540 INTRODUCTORY INORGANIC CHEMISTRY (5) Prerequisites: CHM 2373, 3225. Thisi is a systematic study of chemi-
cal principles as applied to inorganic systems. It may include inorcal principles as applied to inorganic systems. It may include ino
ganic nomenclature, solid state structure, thermodynamics and ganic nomenclature, solid state structure, thermodynmamics and
bonding, general bonding theory, not protonic acid base theory, bonding, general bonding theory, non protonic acia- base theory.
coordination chemistry, and descriptive inorganic chemistry. Includes laboratory

CHM 4361 BIOCHEMISTRY (5) Prerequisite: CHM 2373, 3225 Studies chemical properties of biological compounds: carbohy-
drates, lipids, amino acids and proteins, and nucleic acids. Metabolism: biochemical energetics, enzymes, electron transport and oxidative phosphorylation. Integration of metabolism: biochemica genetics, metabolic regulation. Includes laboratory regulation. 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. Metaboism.biochemical energetics, enzymes, ele tabolism: biochemical genetics, metabolic regulation
Includes laboratory, Course Equivalent: BIO 4362 .
CHM 4363 BIOCHEMISTRY (3) Prerequisite: CHM 4362 or permission of instructor. Explores selected topics including: imbrane transport, hormone action; control of gene expression; muscle contraction; cell physiology; druy action; protein folding; mat with leading researchers presenting current work. No laboratory. Course Equivalent: BIO 4363
CHM 4374 ORGANIC QUALITATIVE ANALYSIS (3) Prereq uisites: CHM 2373 and 3225 . An advanced laboratory course usin organic compounds, including those found in mixtures. Offered
alternate years.
CHM 4542 TRANSITION METALS (3) Prerequisites: CHM
2373 or permission of instructor (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. Topicis from the current chemical literatur will be included. Topics may include bioinorganic chemistry, orga-
nometallic chemistry and chemical applications of group theory. Offered alternate years. 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 limmher to the current research literature, and give him/her experience in writing and speaking critically on examples of recent research.
Offered alternate years. Altribute: Writing Course. Offered alternate years. Altribute: Writing Course.
CHM 4760 ADVANCED SYNTHESIS (1-2) Pre
2373 (CHM 4542 is recommended.) A laboratory course involving organic and/or inorganic synthesis using advanced techniques suc as the handling of air-sensitive compounds, vacuum distillations
and vacuum line transfers. Recommended especially for students and vacuum line transers. Reconvins
who plan a research project involving synthesis. To To be offered on demand basis. May be repeated for credit up to 4 credits.
CHM 4900 INDEEENDENT PROJECT iN
CHM 4900 INDEPENDENT PROJECT IN CHEMISTRY/BIOAgreement. Laboratory research, library research or other indiAgreemen.. Laboratory yesearch, ibrary research or other indi--
vidual 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 10 credits. Attribute:
CHM 4930 CHEMISTRY/BIOCHEMISTRY PRACTICUM (13) Registration Approval: Instructor. Selected students are assigned teaching, grading, laboratory preparation and/or tutoring
responsibilities. May be repeated for credit up to 3 credits, Class not open to: Freshmen and Sophomores.
CHM 4940 INTERNSHIP IN CHEMISTR/BIOCHEMISTRY (1-5) Registration Approval: Intern Learning Contract Req. Provides a significant learning experience through a closely super-
vised work-study program. A final written report is required; also, vised work-study program. A tinal 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. Class open to: Chemistry majors. Class not open to: CHM 4950 CURRENT TOPICS IN CHEMISTRY/BIOCHEMISTRY (1-3) Registration Approval: Instructor. Deals with selected chemistry topics of general interest. No laboratory. May be
repeated for credit up to 3 credits.

## Biotechnology

Grayson L. Capp, Director
One of the pillars of entrepreneurial growth in science is biotechnology and it has been identitied 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 you have technology and biology 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 essen disease. The Seattle area is one of tere in operation. This with nearly 100 biotechnology firms in operation. This
industry exerts a major economic force and provides a industry exerts a major economic force and provides a
rapidly growing employment opportunity for research and rapidly growing employme
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 beneints for students at Seattle Pacific University, a biotechnology program is being designed. The
program uses existing courses in biology and chemistry but with some special emphasis. The initial phase of this program is being introduced in 1997-98.
One of the ways to enable students in this professional quest is to have them develop a portfolio. The portfolio will include: (1) Evaluation forms which reflect development of
both theory content and laboratory skills. This will be done with the use of a pretest/posttest 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 some volunteer work in a K-12 classroom over a period of one or two terms; (4) 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 the program are:
the program are:
BIO 3325 Genetic
BIO 4325 Molecular Biology (5)
BIO 4352 Cell Biology (5)
CHM (BIO) 4361, 4362 Biochemistry ( 5 each) (including CHM/BIO 4363)
The recommended courses for the program include: HM 3226 Quantitative and Instrumental Analysis (5) BIO 3350 Immunology ( 3 )

The internship component of the program is satisfied by:

CHM 4940 Internship in Chemistry ( 1 -
BIO 4940 Internship in Biology (1-5)

Chemistry
and Biochemistry

## Classics

See Languages section.

## College of Arts and Sciences

Martin Abbott, 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 i
the formation of a mature Christian faith and the the formation of a mature Christian faith and the artistic sensitivity, growth in self-expression and an appreciation for the importance of personal litness. 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 emplo
many fields of challenging and productive work.
many fields of challenging and productive work.
There are four divisions within the College of Arts and Sciences: Fine Arts, Humanities and Religion, Science and Engineering, and Social and Behavioral Sciences.

## Common Curriculum

Joyce Quiring Erickson, Director of General Education
The Common Curriculum, which includes eight required courses spread out over four years, is at the heart
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. Th "caximum of 20 students enrolled in each course form a "cohort" and attend other freshman classes in the Commo professor serving as their academic advisor.
In their freshman, sophomore and juniors years a 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 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;
Christion Scriptures, which provides a way of conceptualiz ing, 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 inctudes common texts and objectives in order to ensure common learning. Alt 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 that is evident in qualities of heart, mind and action.

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 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 faculy advisor to students in Seminar instructors will serve as faculty advisor to students in lar seminars are available in the yearly class schedule. Class open to: Freshmen UCOR 1000 CHARACTER AND COMMUNITY (5) This course UCOR 1000 CHARACTER AND COMMUNITY (5) This cours
considers the question "Who am I and for what have I been creconsiders the question "Who am I and for what have Ibeen cre--
atedd" 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 in community with others. Key themes are artistic ways of knowing, individualism and conformity 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 dy and influenced
other cultures? Key themes are ideas, inventions and systems of 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. Class not open to: Fresh men and Seniors. LHistory offered beginning in 1999-2000.
UCOR 3000 BELIEF MORAITY UCOR 3000 BELLEF, MORALITY AND MODERN MIND (5) the question "How do I know what is true and how should I act on the question "How do I know what is true and how should act on
that knowledge?" It explores questions about Christian faith and practice that arise from modedent developmentse in phillosophy and
science. Key themes are authority, reason, personal meaning science. Key themes are authority, reason, personal meaning,
ethics, and love as the Christian response to God's creation and ethics, and love as the Christian response to God's creation and beginning in 2000 -2001.
UFDN 1000 CHRISTIAN FORMATION (5) This course ex plores the lived experience of faith by considering the role of
Scripture, tradition, human reason, and human experience in
 regarding the Christian life serve as the basis for encourytering the
claims of Christian faith Class claims of Christian faith. Class open to: Freshmen.
UFDN 2000 CHISTIAN SCRIPTURES (5) Pre UFDN 1000 and UCOR 1000. This course explores the formativ 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 witt the necessary skills to make responsible use of Scripture as the church's principal authority in nurturing a Christian's faith and witness. Class not open to: Freshen Seniors. Offered beginUFDN 3000 CHRISTIAN THEOLOGY (5) Prerequisites: UCO 2000 and UFDN 2000 . This course studies the basic doctrines and practices of historic Christianity, such as the being, attributes, and workings of the fiune Gor, the nature, alienness, and recempti disciplines and duties of personal faith; and the hope for "last things." AAtention will be given tha major ofrrmative events and key
persons in the history of the church hat have belped to persons in the history of the church that have helped to shape
what Christians believe and how they live. Class not open to: Freshmen. Offered begining in $2000-2001$.

## communication and Journalism

Debra Sequeira, Chair, Richard Jackson, Journalism contac
e Department of Communication and Journalism investigates communication as a social and intellectual ess, , an art form and a tool and studies journalism as Sponsible human behavior. Courses are offered to all adents seeking understanding, ethical frameworks, and kills to manage their conduct as communicators, in mediated and unmediated forms. Those who major in communication explore theory, history, and application of uman commuicaios of rescarch into the frame present, l learn the valce onpt to dal with personal religious ocial and political concerns. Those who specialize in ommunication or journalism, as majors or minors, explore he impact of communication and communications on ociety and develop ethical and theoretical understandings d skills for managing ideas and relationships.

## Admission to the Major

Applicants for a major in communication must display a pplicable to the degree or 3.0 in the 45 credits immediately preceding application for the major.

## oreign Language Requirement

 All students who complete the communication major must splay proficiency in a foreign language. For ways of displaying proficiency, see the general education section ofhis Catalog, under "Baccalaureate Degree Requirements." or those majoring in communication, the proficiency requirement is not satisfied as part of the community college direct transfer degree unless the transcript records

## Major

( 50 Credits; 23 upper-division)
See page 42 or 49 for a summary of degree requirements] COM 1101 Introduction to Interpersonal Communication... 5 COM 1321 Speaking Before Groups ........................................... COM 2227 Small Group Discussion and Leadership (5) or COM 4265 Organizational Communication (3) .......... 3-5 COM 3001 Theories of Communication COM 3628 Foundations of Western Rhetoric (5) or COM 3629 Modern Rhetorical Theory (5) COM 4142 Advanced Interpersonal $C$ ().......................... COM 4910 Communication Seminar
 credit minimum. .
Total....
Practical experiences such as internships, forensics practicum, journalism practicum, and similar courses may in lhe maior for to 6 sedits of

Requirements for the Communication Minor
( 30 Credits; a minimum of 15 upper-division)
COM 1101 Introduction to Interpersonal Communication ... 3 COM 1321 Speaking Before Groups ....
Electives in communication to complete the 30 credit minimum
Total...
Practud experiences mabe inded ap the electives required in a communication minor the electives required in a communication minor. selection of the electives with written approval of an adviso from the communication faculty.

## Requirements for the Journalism Minor

(30 Credits; a minimum of 15 upper-division)
JRN 2101 News and Informational Writing
JRN 2202 Public Affairs Reporting
JRN 2203 Editing and Design ....
JRN 3301 Media Law and Ethics
JRN 3355 The Public and the Media
Select one course from the following:
JRN 3801/02/03 Newspaper Production (6)
JRN $3930 / 31 / 32$ Publication Editor Practicum (6) ..............
 Total... Electives are to be selected from among other JRN course

## Communication Courses

COM 1000 ORAL COMMUNICATION FOR NON-NATIVE ENGLISH SPEAKERS (4) Registration Approval: ILL Director.
Develops presentation, listening, interpersonal and pronunciation Develops presentation, istening, interpersonal and pronunciation. Credit in COM 1000 is not applicable to the major specialty in COMmunication. MUNICATION ( 5 ) In this fundamental course in communication
between people, class sessions incorporate lectures with discusbetween people, class sessions incorporate lectures with discus-
sion 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 cullure and their effects on ourselves and others; self-expression and disclosure; friendship, family and dating; ver-
bal and nonverbal cues and their meanings; listening; and conflict management.
COM 1321 SPEAKING BEFORE GROUPS (5) Analyzes platform speaking; includes analysis, preparation and presentation
formal speeches. Includes rhetorical rriticism of significat mo els. Recommended for students planning to major in communica
tion; open to other students as well.
COM 1930 FORENSICS PRACTICUM (1-2) Registration Approval: Instructor. Provides experience in cocurricular speech activities. Meets weekly by arrangement; individual coaching con-
ferences. May be repeated for credit up to 12 credits. Class not en to: Juniors and Seniors.
COM 1931 COMMUNICATION PRACTICUM (1-2) Registraion Approval: Instructor. Provides field experience in communic tion Approva: Instructor. Provides field experience in communica
tion 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. CUSSION AND LEADER esses of small, coacting group activity; examinines and applie eories of structure, climate, roles, norms and leadership in planning and managing member participation. Explores
fact-finding, problem-sovving and decision making.

Communication communication oplies principles of reasoning to significant issues through extensive practice in public discourse, questioning, response to questions, refutation and negotiation,
COM 2330 ORAL INTERPRETATION OF LITERATURE (5) Anayzes siterary works to discover means of effectively commun experience in narrative, lyric poetry and dramatic reading. COM 2950 SPECIAL TOPICS IN COMMUNICATION (1-5) Explores selected topics in communication, witc emphasis on siks occasionally with specific topics identified in Time Schedule. COM 3001 THEORIES OF COMMUNICATION (5) Examine heories of human communication and introduces a range of researc requisite for COM 4142 and 4910 . Attribute: Writing Course. COM 3102 LISTENING (3) Evaluates research into nature of stening; provides exposure to aesthetic, substantive and critica stening experiences; indvidual projects sead to personal imementary and secondary classrooms.
COM 3160 CONFLLCT MANAGEMENT (3) Examines researc in and techniques for conflict management. Includes theory, mod
els and case studies in conflict in interpersonal organizational and els and case studies in conflict in interpersonal, organizational and
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 tion, composition, style and presentation.
COM 3322 PERSUASION: SOCIAL INFLUENCE AND
RESPONSIBILITY (5) Evaluates the role of persuasion in soci
ety; the role of symbolic persuasion; production and reception of persuasive messages; the persuasive event and the persuasive campaign; ethical questions in social influence
COM 3351 VIDEO PRODUCTION (3) Exposes students to the process of creating video programs in the field (portable came
and in the television studio. Examines basic production skills, principles of television electronics, and creative individual and team processes used in developing a video program. May
peated for credit 1 time. Course Equivalent: JRN 3351 . peated for credit 1 time. Course Equivalent: JRN 3351.
COM 3628 FOUNDATIONS OF WESTERN RHETORIC (5) Examines theories of communication and persuasion from ancien times to the 5 th century A.D. Intensively studies selected Greek and Roman rhetorical treatises. Attribute: Writing Course.
COM 3629 MODER RHETORICAL THEORY COM 3629 MODERN RHETORICAL THEORY (5) Examine to the present, with special emphasis on European and American Thetorical theorists. Attribute: Writing Course. COM 3930 FORENSICS PRACTICUM ( $1-2$ ) Registration Aproval: Instructor. Provides experience in cocurricular speech activities. Meets weekly by arrangement; Individual coaching con-
ferences. May be repeated for credit up to 12 credits. Class not COM 3931 COMMUNICATION PRA
COM 3931 COMMUNICATION PRACTICUM (1-2) Registration Approval: Instructor. Provides field experience in communica
tion 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. COM 4142 ADVANCED INTERPERSONAL COMMUNICATION (5) Prerequisites:COM 101 and 3001 or permission of instructor. Focuses on selected communication theories, research and application pertaining to romantic, friends hip and family relationships Examines how communication usage affects marital and family systems. Enphasizes understanding communication patterns as they affect role development, power structure, decision making, COM 4180 CuLTURAL COMMUNICATION (3) Examines heory and literature of the ethnography of communication, wit of language in its COM 4265 ORGANIZATIONAL COMMUNICATION (5) EXamines how communication functions within organizations and explores use or and organizational effectiveness.

COM 4318 STORTTELLING (3) Gives instruction in selecting prepring to criteri that include the dramatic sur ane of the acand the characteristics of story teller and audience
COM 4607 CRITICISM OF PUBLIC ADDRESS (5) Applies rhetorical theories to historical and contemporary political, socia,
and religious oratory. Treats the speech as historical document cause of social change and refiner of theory COM 3628 or 3622 is strongly recommended before registration for COM 4607 . Attribute: Writing Course.
COM 4900 INDEPEN
COM 4900 INDEPENDENT STUDY (1-5) Registration Apconferences in area of specialization. May be repeated for credit up to 10 credits. Class not open to: Freshmen and Sophomores. COM 4910 COMMUNICATION SEMINAR (3) Prerequisites: Class not open to: Freshmen and Sophomores. COM 4930 INSTRUCTIONAL PRACTICUM (3) Registration Approva: I Istructor.P.Provides selected students with experience as
 COM 4940 COOP EDUCATION: INTERNSHIP IN COMMUNICATION (1-5) Registration Approva: Intern Learning Conitra Req. Prerequisites: 15 credits of " B " work in communication; an
approved internship plan; and CO 3001 Provides supervised application of interpersonal and public communication skills in th marketplace. May be repeated for credit up to 5 credits.
COM 4941 COOP EDUCATION: INTERNSHIP IN COMMUCOM 4941 COOP EDUCATION: INTERNSHIP IN COMMU NICATION (1-5) Registration Approval: intern Learning Contra,
Req. Prerequistes: 15 credits of " B " work in communication; an . approved internship plan; COM 3001. Provides supervised applic tion of interpersonal and public communication skills in the marketplace. May be repeated for credit up to 5 credits.
COM 4950 ADVANCED TOPICS IN COMMUNIC
5) Explores selected topics in communcamMUNICATION (1 5) Explores selected topics in communication, with emphasis on lum. Offered occasionally with specific topics identified in Time Schedule. May be repeated for credit up to 40 credits.

## Journalism Courses

JRN 2101 INTRODUCTORY NEWS WRITING (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 gramma, panctuation; developing interview techniques; covering speecine
JRN 2202 PUBLIC AFFAIRS REPORTING (4) Prerequisite: JRN 2101 Develops basic reporting skills while continuing instruc
tion in news writing. Encourages students to develop their own tion in news writing. Encourages students to deveiop their own both hard-news and feature writing styles.
JRN 203 EDITIN AND DEIGN (4)
JRN 2203 EDITING AND DESIGN (4) Develops basic skills in editing and publication design of print media. Topics include basi editing skills; story and page design; headline writing; photo cap-
tions; photo sizing and cropping proper use of graphics. JRN 3101 ADVANCED NEWSWRITING (3) Prerequisites: JRN 2101 and 2202. Develops skills in research, reporting, and writing. papers and
papers and magazines.
JRN 3301 MEDIA LAW AND ETHICS (5) Outlines major areas of media law: theories of press freedom; interpretation of
First Amendment libel privacy free press/fair trial First Amendment, libel; privacy, free press/fair trial; obscenity, broadcast regulation; legal issues in cyberspace. Also explores
various models for ethical decision making and their application to issues in journalism.
JRN 3350 MASS COMMUNICATION THEORY (3) Explores
theories relating to the development and use of mass media theories relating to the development and use of mass media and
applies those theories to current issues in mass media. Topics applies those theories to current issues in mass media. Topics
include: propaganda and persuasion; media effects on children; social learning and violencee cultural analysis.
JRN 3351 VIDEO PRODUCTION (
social earning and violence, culturaa analysis.
JRN 3351 VIDEO PRODUCTION (3) Exposes students to the process of creating video programs in the field (portable camer
and in the television studio. Examines basic production skills; principles of television electronics; individual and team processe in developing a video program. May be repeated for credit 1 time.

RN 3355 THE PUBLC AND THE MEDIA (3) Investigates istorical and contemporary issues involving media performance. opics ince political campaign coverage; impact of advertising, public melations; ;race and gender; obscenity.
elations; race and dearder, Obscenity.
JRN 3801 NEWSPAPER PRODCTION (2) Registration Aproval: Instructor. Laboratory for the student newspaper, the year in variety of production phases with access to a acaulity advisor. May be repeated for credit 5 times. RN 3802 NEWSPAPER PRODUCTION (2) Registration Apoval: Instructor. Laboratory for the student newspaper, the year a avariety of production phases with access to a faculty advisor. only 6 credits on 1 SN JRN 3803 NEWSPAPER PRODUCTION (2) Registration Approval: Instructor. Laboratory for the student newspaper, the year ook, and of poduction pases with access to a fatly advisorin a variety of production phases with access to a faculty ydvisor. be applied to the JRN minor. May be repeated for credit 5 times. JRN 3930 PUBLICATION EDITOR PRACTICUM (1-3) Regis tration Approval: Instructor. Provides opportunity yor appicaiio tudent publications. Open only to those officially selected for positions. No more than 6 credits of Publication Editor Practicum nd Newspaper Production total may count toward the JRN minor. JRN 3931 PUBLICATION EDITOR PRACTICUM (1-3) Regisration 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 creditit of Publicalion Editor Practicum and Newspaper Production total may count toward the JRN minor. May be repeated for an unlimited number of credits,
IRN 3932 PUBLICATION EDITOR PRACTICUM JRN 3932 PUBLICATION EDITOR PRACTICUM (1-3) Regisration Approval: Instructor. Provides opportunity for application student publications. Open only to those officially selected for positions. No more than 6 credits of Publication Editor Practicum and Newspaper Production ota 10 credits.
May be repeated for credit up to 6 .
JRN 4900 INDEPND
May be repeated for credit up to 6 credits.
JRN 4900 INDEPENDENT STUDY (1-5) Registration Approval: Independent Study Agreement. May be repeated for credit up to 10 credits. Class open to: Juniors and Seniors. Independent Study Agreement.
JRN 4940 CouP EDUCATIN: JOURNALLSM INTERNSHIP
(1-5) Registration Approva: Intern Learning Contract Req. Ap-(1-5) Registration Approval: Intern Learning Contract Req. Ap-
plies journalism skills in various mployment settings. Students plies journaism 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 toward a journalism minor. May be repeated for credit up to 5
credits. Course Equivalent: ENG 4940 . 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 internstips 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
thowadr a aiounalism mor May be repeated for credit up to 5 credits. Course Equivalent: ENG 4941. Class open to: Juniors and

## Computer Science

Michael H. Tindall, Chair, Charles Burris, Philip Prins
Elainputer science is the discipline which studies the representation, storage, and transformation of informatio utilizing automatic computing machines. The computer
scientist is interested in developing computer software an scientist is interested in developing computer sontware and
hardware to analyze data and solve problems. In addition to understanding the organization and operation of modern computer systems, a knowledge of the problems and applications in a related discipline is highly recommended The computer science program at SPU emphasizes software design and development. Both Bachelor of Science and more application-oriented Bachelor of Arts degree options are available. Students are prepared for careers omputer programming, software engineering, and various other computer-oriented business, scientific and engineering occupations. Computer scientists are in demand by business, industry, and government agencies, and this demand is expected to continue.

A variety of computing equipment is available to SPU to support coursework and independent study activities.
nteractive timeshare computing is provided by Digital Equipment Corporation servers and a fiber-optic EtherNet etwork. The student laboratory contains about $10 \vee 1320$ mesharing terminals and 30 Pentium PC systems, each onnected to the Ethervet and ppropriate software packages
cience obtain their own IBM PCgain the full experience of configuring and maintaining a computer system. A suitable system would be based on a ast Pentium processor with 32 MB memory, 2.5 GB hard drive, VGA video display, mouse, 28,800 Baud modem, and NT 4x, a C/C ++ compiler (Microsoft Visual C/C ++ Version 5.x Standard recommended), and a word processor (such as Microsoft Word for Windows). Some courses may require other software which will be available in the student laboratory or for separate purchase.
Preliminary Prerequisites. High School Algebra is required. High School Algebra 2 and Trigonometry are required. High

GPA. A minimum 2.5 GPA (cumulative in all courses required for the major) 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) mu

## Requirements for the B.S. in Computer

 Science Major(107 Credits; 49 upper-division)
[See page 42 or 49 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
[See page 42 or 49 for a summary of degree requirements] computer science. Each option provides preparation professional careers in computing, with a specific emphasis on an area of applications.

## B.A. - Computer Systems Option

(82 Credits; 44 upper-division)
(Refer to Chart on page 77]
This option provides a thorough preparation in the topics and applications in computer science.

## B.A. - Quantitative Option

${ }^{82}$ Credits; 46 upper-division)
This option combines preparation in the core areas of computer science with additional emphasis on computational and applied mathematics.

## B.A. - Business Option

( 83 Credits; $40-45$ upper-division)
[Refer to Chart on page 77)
This option combines preparation in the core areas of computer science with additional emphasis on busines
organizations, accounting, finance and marketing
B.A. - Business Option Evening Track. The Computer Science Bachelor of Arts major with business applications option can be completed entirely by taking evening and weekend courses. Contact the computer science evening major coordinator at (206) 281-2140 for information regarding scheduling for the coming year.

## Requirements for the Computer

Science Minor
( 32 Credits; 15 upper-division)

## Core Courses

CSC 1230 Problem Solving and Programming ......................
CSC 2430 Data Structures and Programming $\qquad$ $\cdots \cdots$

## Electives

CSC 3000 - CSC 4999. $\qquad$

## Mathematic

Select one of the following:
MAT 1221 Survey of Calculus (5)
MAT 1225 Calculus (5)
MAT 1360 Introduction to Statistics (5) $\qquad$
Computer Sciences Courses
CSC 1115 COMPUTING AND APPLICATIONS (3) Prerequisite: MAT 1101. Introduction to personal computer operations and
application software. Covers file systems, directories and disk apperations; System configuration; Introduction to word processing number processing and data management applications; Introduction to the Internet, World-Wide Web and electronic mail. plores how to use a (window-based) computer: Description of computer hardware components; Basics of the windowing environment, including the file system, running applications, editing mesages and documents, and printing; and the effects of computers in society.

CSC 1121 INTERNET AND EMALL (1) Prerequisite: CSC 112 or equivalent experience. Explores the following topiss: Network
electronic mail, and the Internet; How to get an email account; Logging onto and off of a computer; Using the full capabilities of email; Participating in newsgroups; Downloading files using FTP;
and using the World Wide Wreb and the It and using the World Wide Web and the Internet. equivalent. What is "Word Processing"? Creating, modifying savin and printing documents. Formatting and enhancing a document. Using columns, tables, footnotes, pictures, and drawings. Using and a thesaurus.
CSC 1123 SREADSHEETS (1) Prerequisite: CSC 1121, or equivalent. What is a "Spreadsheet"? This course covers creating modifying, saying and printing spreadsheet documents; Entering
and using formulas and calculations; Editing and importing dat Incorporating graphs; and formatting and enhancing the appearance of a spreadsheet document. Course Equivalent: BUS 1700 . CSC 1124 DATABASES (1) Prerequisite: CSC 1121, or equivalent. Meatisa
system? Designing a datatabase. Defining tables. Defining and edit ing fields. Entering and editing data. Creating and using queries using one or more tables. Creating, formatting, and enhancing
CSC 1126 PRESENTATION MANAGERS (1) Prerequisite: CSC des or equivalent. What is a "Presentation Manager"? Covers designing an efifective presentation; Creating and editing sides,
Incorporating pictures, drawings and "graphics"; Rearranging topicc and slides; Formatting and enhancing the look of a presentaPrinting notes and handouts.
$\operatorname{CSC} 1130$ BEGINNIN $P$.
CSC 1130 BEGINNING PROGRAMMING (2) Prerequisite: CSC 1121, or equivalent, two years of high school algebra. What is ing a solution to a problem; Structured programming concepts and skills. Provides introduction to an easy-to-use programming language. Class not open to: Computer Science majors. Prerequisites: Two years of high school algebra, demonstratable computer literacy. Introduction to computer science. Covers problem solving methods and algorithm development; modern
programming methodologies; and fund damental of a programming methodologies; and fundamentals of a high-leve CSC 1800 SPECIAL TOPICS IN COMPUTER USAGE (1) Prerequisite: CSC 1121 or equivalent. Presentation of a topic of current interest in computer uage. Topics may vary between offer ings. May be repeated for credit up to 5 credits.
MAT 1221 or MAT 1225 , CSC 1230 (or other programming language) Explores fundamentals of computer programming and problem solving for engineering and science students.
CSC 2221 BUSINESS PROGRAMMING (3)
1230. Explores fundamentals of business computing programming and applications.
CSC 2224 OBJECT ORIENTED PROGRAMMING (3) Prerequisite: CSC 2430. Introduces the object oriented programming lasses, inheritance an and systems. Examines encapsulation, CSC 2226 FUNCTIONAL PROGRAMMING (3) Prerequisite: CSC 2430. Introduces functional programming languages and systems.
CSC 2430 DATA STRUCTURES AND PROGRAMMING (5) Prerequisite: CSC 1230 or equivalent. Develops discipline in program design, style, debugging, testing. Examines linked data struc tures, trees, introduction to graphs, and recursion.
CSC 2951 DIRECTED STUDY, ${ }^{\prime \prime}$ " PROGRAMM
CSC 2951 DIRECTED STUDY:"C" PROGRAMMING (2) Prefundamentals of the C programming language. Offered as a di-rected-study, instructor arranged course.
CSC 3150 SYSTEMS DESIGN (3) Prerequisite: CSC 2430; CSC and design of software systems. Covers duols used in the analysis dictionaries, process specification structa dlow diagrams, data cess diagrams, measures for the evaluation of specifications acdesigns, Attribute: Writing Course.

| Required Courses | B.S. | B.A. Systems | $\begin{gathered} \text { B.A. } \\ \text { Business } \end{gathered}$ | B.A. Quantitative |
| :---: | :---: | :---: | :---: | :---: |
| CSC 1230 Problem Solving and Programming | 5 | 5 | 5 | 5 |
| CSC 2221 Business Programming |  |  | 3 |  |
| CSC 2220 Scientific Programming or CSC 2221 Business Programming or CSC 2224 Object Oriented Programming or CSC 2226 Functional Programming | 3 | 3 |  |  |
| CSC 2430 Data Structures and Programming | 5 | 5 | 5 | 5 |
| CSC 3150 Systems Design | 3 | 3 | 3 | 3 |
| CSC 3310 Concepts in Programming Languages | 4 | 4 | 4 | 4 |
| CSC 3350 Systems Programming | 4 | 4 | 4 | 4 |
| CSC 3410 File Structures | 5 | 5 | 5 | 5 |
| 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 | 7 | 7 |
| ENG 3206 Technical Writing or ENG 3207 Business Writing | 3 | 3 | 3 | 3 |
| MAT 1720 Math for Computer Science | 5 | 5 | 5 | 5 |
| MAT 1360 Introduction to Statistics | 5 | 5 | 5 |  |
| MAT 1221 Survey of Calculus or MAT 1225 Calculus |  |  | 5 |  |
| MAT 1225 Calculus | 5 | 5 |  | 5 |
| MAT 1226 Calculus | 5 | 5 |  | 5 |
| MAT 1228 Series and Differential Equations | 5 | 5 |  | 5 |
| MAT 2375 Probability Theory |  |  |  | 3 |
| MAT 2401 Linear Algebra |  |  |  | 3 |
| MAT 4725 Numerical Analysis |  |  |  | 5 |
| MAT 4361, 4362 Mathematical Statistics |  |  |  | 6 |
| 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 |  |
| Total Upper-division Credits Required | 49 | 44 | 40-45 | 46 |
| Total Credits Required | 107 | 82 | 83 | 82 | two high-level programming languages or permission of instructo Explores organization and structure of programming languages; run-time behavior and requirements of programs; and programming language specification. 3410 and either CSC 3750 or CSCFE 3760 . Introderequisites: CSC programming. Surveys systems software; operating system interface and functions, utilities and shell programming; linkers and loaders; and translators. MAT 1360 . Explores external data structures and techniques necessary for implementing different file organizations. Covers meth osd of or organizing and accessing data on secondary. Corage devices

(indexing trees and hashing). Includes the design and inplemen tation of programs using sequential and diriect access files. requisites: CLC 2430 and MAT 1360 and MAT 1720, and either MAT 122 or MAT 1225. Covers the design and analysis of algorithms for search-
ing, sorting, string processing, table management and graphs. Includes principles of computational complexity and analysis.
CSC 3750 COMPUTER ARCHITECTURE AND ORGANIZACSC 3750 COMPUTER ARCHITECTURE AND ORGANIZATION (5) Prerequisites: CSC 2430, MAT 1720. Digital logic, comof assemblers, microarchitectures, instruction formats, and the
memory hierarchy.
CSC 3760 COMPUTER ORGANIZATION AND ASSEMBLY
LANGUAGE (5) Prerer LANGUAGE (5) Prerequisite: CSC 2430 and EE 1210. Studies components of computers; mechanics of information transfer and control within a digital computer system; networks and communication systems; microprogramming; machine instruction sets; and CSC 3900 INDEPENDENT STUDY IN COMPUTER SCIENCE (1-5) Registration Approval: Independent Study Agreement. Inde pendent study and research in an advanced computer science topic. May be repeated for credit up to 10 credits.
CSC 3930 PRACTICUM IN COMPUTER SCIEN Registration Approval: Instructor. Studies applied computer science. Typically involves academic systems programming, teaching grading, lab preparation of tutoring responsibilitieres. Includes an
assessment of Chritian sevvice issues or experiences. repeated for credit up to 10 credits.
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 analy sis and design, advanced applications or systems programming. Includes an assessment of Christian service issues or experi-
ences. May be repeated for credit up to 10 credits. CSC 3950 TOPICS IN COMPUTER SCIENCE (1-5) Registracomputer science. May be repeated for credit up to 10 credits CSC 3960 PROUECT IN COMPUTER SCIENCE (1-5) Regisration Approval: Instraclor. Independent work on a significicant proje in computer science. 4150 SOFTWARE ENGINEERING (4) Prerequisite: CSC 150. Covers topics in software engineering, including team programming, project planning and management, SDLC (software
development life cycle) and software quality assurance Surveys development life cycle) and software quality assurance. Surveys
automated tools for use in software engineering. Course requireautomated tools tor use in software engineering. Course requirecsc 4210 THEORY OF COMPUTATION AND ALGORITHM (4) Prerequisites: CSC 34330 , CSC 3750 or CSC/EE 37500 , MAT 1360
and either MAT 1221 or MAT 1225 I Introduction to theoretical topic and either MAT 1221 or MAT 1225 . Introduction to theoretical topic parsing; computational complexity, andysisis of algorithms; computability; and program correctness and verificatio and CSC 4210. Studies programming language translation and con piler design concepts; language recognition, symbol table manage-

CSC 4350 OPERATING SYSTEMS (4) Prerequisite: CSC 3350 cesses and concurrency; concurrent programming; resource allocation, contention and control; scheduling, memory management and device management.
CSC 410 DATABASE MANAGEMENT (4) Prerequisites: scription and data manipulation languagess query facilitites; data sciption and data manipulation languages:quary yacilities; data data model; ;includes the design and implementation of database applications using a relational DBMS
PROGRAMMING (4) Prerequisite. CSC mended. Introduction to programming in the Windows GUI environment. Comparison to other GUI environments. Prerequisite: CSC 3750 or EE/CSC 3760 . Studies the architectur multiprocessor, vector, pipelined and parallel computers. Empha sis placed on principles of parallelism and their application. State of-the-art super computers are discussed.
CSC 4800 ADVANCED ISSUES IN COMPUTER SCIENCE (2-5) 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 Class open to: Computer Science major
CCSC 4810 ADVANCED ISSUUES IN COMPUTER SCIENCE (2-5) An advanced course studying a special interest topic in computer science. Topics and credits may yary between offerings. ConMay be repeated for an unlimited number of credits. Attribute: Writing Course. Class open to: Computer Science majors.
CSC 4899 ETHICAL AND SOCIAL ISSUES IN COMPUTER SCIENCE (2) Covers ethical, social and societal impact issues
with which computer professionals must deal. Topics include su 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. Attribute: Writing Course. Class open to Computer Science majors. Class not open to: Frashmen an
SSOhomores. 4900 INDEPENDENT STUDY IN COMPUTER SCIENCE (1-5) Registration Approval: Independent Study Agreement. Inde pendent study and research in an advanced computer science oopic. May be repeated for credit up to 8 credit RSC 4930 PRACTICUM IN COMPUTER SCIENCE (1-5) Registration Approval: Instructor. Studies applied computer sci-
ence. Typically involves academic systems programming, teaching grading, lab preparation or tutoring responsibilities. nccludes an
assessment of Christian service issues or experiences. May be assessment of Christian service iss
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. Typicaly involves work in systems analysis and design, advanced applications or systems programming. ences. May be repeated for credit up to 8 credits.
CSC 4950 TOPICS IN COMPUTER SCIENCE CSC 4950 TOPICS IN COMPUTER SCIENCE (2-5) Registration Approval. $n$ nstrictor.Ar sivanced course studying a specia
interest topic in computer science. Topics and credits may vary between offerings. May be repeated for credit up to 5 credits. Class open to: Computer Science majors. Class not open to:
Freshmen and 4960 PROJECT IN COMPUTER SCIENCE (1-5) Regis-
CSC ration Approval: Instructor. Independent work on a significant p
nin computer science. May be repeated for credit up to 8 credits.

## Education, School of

arthur Ellis, Jeffrey Fouts, Patricia Hammill, Elletta Kennison, Frank Kline, Raymond Myers, William aagy, Lorelie Olson, Mark Pitts, Susan Roberts, Aneette Robinson, Wiliam Rowley, Christopher Peter Smith, Richard Smith, Wanda Williams The primary purpose of the undergraduate program in the chool of Education is to prepare competent teachers refessional practice. The mission statement of the school is "Educational Leadership Through Quality and
Commitment."
School of Education programs are accredited by the National Council for Accreetration of Teacher Education. Certification programs in the Schoo Board of Education and eet initial and continuing level requirements for State of ashington elementary and secondary teaching certificates. The basic certification programs in the School of Education reflect an underlying philosophy and knowledge base which permeates all courses and field experiences. This knowledge base consists of two elements: (1) the theore from the social and behavioral sciences, and (2) the effective teaching and schooling research of the past decade. The Phase I (introductory), methods courses, and Phase II (practicum-internship) components of the basic programs are built on this knowledge base and reflect ecent research on effective teaching
complete the Seattle Pacific
basic cempleted program will have
academic major from which liberal studies, an
drawn, and content and skills of professional education;
2. an understanding of the basic psychological and acividgical fhund ind or ed cation, including how individuals think and le
3. the ability to communicate effectively using the
written and spoken word;
4. the ability to select and present appropriate content and concepts, to recognize the kinds of errors or difficult concepts:
5. the ability to recognize moral/ethical issues in classroom content and events, and to develop objectives and strategie
6. character development; and other cultures with a view of education as a helping profession;
7. demonstrated the ability to diagnose difficulties, to select, develop, and use appropriate teaching strategies and materials, to observe and analyze th performance of a variety of students (including students from different cultural and ethnic backgrounds);
8. an understanding of how technology can be integrated with effective teaching practices to
ensure the development of higher-order thinkii problem solving, and conceptual and social learning, rather than rote learning of skills;
9. the ability to develop successful assessment strategies and to use the results to modify instruction;
demonstrated the ability to apply principles of learning theory into classroom practice.

The School of Education offers the following graduate rograms: a Doctorate of Education and master's degrees Secondary Education, Educational Leadership, Scho Counseling, and Curriculum and Instruction. C\&I specializations are available in the areas of Teaching/ Learning, Reading Language Arts, Eucationa Teciniolog. ertification as either a school administrator or a school counselor who have already completed an advanced degre need only complete the certification portion of the desire degree. For further information on SPU's graduate ducation pros directly at (206) 281-2214.

## chool of Education Code of Ethics

As teachers perform their duties, they serve as role models xhibiting standards bet they serve, but often 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, we are not only preparing teachers for their place as members of the teaching profession, we are also preparing people additional meaning to our work in the development of moral haracter
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 Academic Work: (1) The individual's acadenic work (such as papers, assignments, reports, 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/her own information and only authorized notes or study aids on an examination. This means that it is unocher 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 only submit wor that is his/her own. This means that submission of commercially prepared materials as if they are one's own is
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 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 transeripts, grade reports, letters of permission or recommendation, petitions, or any document designed to meet or exempt the
individual from an established requirement or regulation.

## Moral Character and Persona

Fitness Policy
Teacher certification programs at SPU include a number of experiences in public and private schools working close
opportunity for potential teachers to learn and to develop the skills necessary for successful teaching. We believe it meaningfus meaningful experiences in school settings
At the same time, the School of Education seeks to classrooms to work with children we send into the classrooms to work with children are adequately prepared
academically, and that they possess the desirable academically, and that they possess the desirable
children. The protection of children from inadequatele with trained individuals or from individuals of questionable
moral, emotional or psychological stability is a paramoun concern. Consequently, the School of Education reserve the right to refuse placement of any SPU student in a practicum setting (including Phase One) if in the is a cause for concern about the fitness of that indvidual to work closely with children.

Any SPU student registering for any School of Education course which involves working with children does so with this 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 judgme
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 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 with the school district to determine if a placement can and should be made or continued.
4. Ultimately, the SPU School of Education cannot overrice school districts, and practicum placement 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 being dropped from a 1
6. Acceptance into the program and completion of program does not guarantee granting of a Washington State teaching certificate. In addition to satisfying the requirements of SPU, good mora character and personal fitness to hold such certification must be established by each student dent of Public Instruction Office of Professional Practice.

Admission to the School of Education
student enrolling in Phase Is considered a tentative candidate for admission to the School of Education. During the Phase I quarter, the student is asked to prepare a forma application for admission which may be considered only continue the seguence of professional courses (Phase II) upon approval of application and fulfillment of Phase Il prerequisites.
Admission to the School of Education is contingent upon meeting the following requirements:

1. Achieve a B average (3.0) in EDU 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 en 33 GPA in the last 45 credits of college university work.
3. 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.
4. File appropriate Moral Character/Personal Fitness 5. and Code of Ethics form
. School of Education the application form to the
7. required by the School of Education.
7. File a formal application for internchip indicating projected quarters of instip and contract 8. Complete Phase I and achieve a fervarable (Phase II) recommendation from the Phase I team. The Phas I experience must be no more than five years old for admission to the School of Education.
9. Meet the requirements listed above by following this time schedule:
autumn/winter internship - April 1
spring/autumn internship - January 15

## Initial Level Certification

The professional program in education at SPU consists o three parts:

1) Phase I
2) either elementary skills or secondary professional 3) Phase II

## Phase I Program

Lorelie Olson, Chairperson
Designed to provide the basic foundations for beginning educational psychology and the social ramifications of the schooling process. Students are placed in daily public schoo laboratory experiences which 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. Phase I lab students are expected
to provide their own transportation to and from the school settings. Students are evaluated on cognitive, affective and professional qualities during Phase I. Successful completion of Phase I with a favorable evaluation is required for admission to the School of Education and into Phase II.
EDU 3103 Foundations of Education, Instruction and Classroom Management ......................................... 3 EDU 3105 Laboratory Experience ..................................... 3-4 EDSP 3107 Exceptionality in the Classroom .....
It is NOT recommended that Phase I be taken during the first quarter a student is at SPU. Students are eligible nter Phase 1 , as space permits, by completing all the e.g. transcripts, test scores.

There are no guarantees that tentative advising schedules can be completed in the particular quarter dentified on the plan.

Phase I must be taken atter junior status is attained. The following are required*.

1. PSY 1880 General Psychology (not more than five years before Phase I) with a grade of C [2.0] or years be
better.
2. A cumulative 2.8 GPA or have a 3.0 GPA in the quarter immediately preceding Phase I ( 12 credit minimum and 3.0 on the last 30 credits)
3. Successful completion of the English, spelling, and math competency tests. (SATT or ACT test scores, as outined under Proficiency Testing Program
competency for School of Education purposes, but not the English competency. The English test must be taken by all education certification students. Check with the School of Education for specifi
requirements and alternatives if score is low.)
and approp Ethics forms

Veriication of completion of prerequisites must be done prior to

## Transfer Students

1. All transfer students are required to take Phase I . All transfer students must meet the requiremen Cumbision to the School of Education. (A taken at SPU and other institutions or 3.3 in the last 45 credits of college or university work is required.)
. Transfer students who hope to transfer any courses required for certification must confer with the undergraduate advisor and other appropriate faculty
members in the School of Education regarding members in the School of Education regarding their program of study before they begin the program.
2. All transfer students must complete at least 10 credits, including professional courses, at SPU before being considered for admission to Phase II (internship or student teaching)
All students must have an accep
major according to State program certificgradute guidelines.
3. All transfer students are required to take the entire Phase Il program at SPU. Any exceptions must be petitioned through the Undergraduate Committee of the School of Education and each petition must be accompanied by the recommendation of the SPU any petitions are granted, a minimum of 26 credits must be completed as a regularly enrolled student at SPU including the Phase II internship.

## Elementary Content and Skills Courses

The student preparing for elementary teaching will complete, in addition to a major, elementary content and skills courses. These courses provide breadth in several 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 course in the skills and content minor to be recommended for certification. Students should plan to use the courses to satisfy general education excess of credits to satisfy graduation requirements. It is recommended that as many as possible of the courses in
he minor-elementary skils be completed prior to Phase 1 History of the Pacific Northwest is required by some schoo districts for teachers who teach history of the Pacific Northweol; it in in the required by the State of Washington for certification. Required courses in these areas are:

ART 3546 Art Education $\qquad$
or COM 4318 Storytelling ( 3
$\cdots$
2510 Elsm 18 storytelling (3) .................................... 3-5 MUS 3500 Fundamentals of Music for Future Teachers ............................... MUS 3501 Elementary Methods and Materials (3)
or MUS 3502 Music in Special Education (3) .................. 3
Any college science course (3-5) ..................................... $3-5$ MAT 2530 Surdations of Language

EdRd 3529 Child Language Development and the Reading
Process
Process ...................................................................... ${ }^{\text {* }}$. EdTc 4235 Intro to Educational Technology ....................... 2 Total......................................

See course listings under appropriate school or department.

## Phase II Programs

Phase II programs involve both teaching methods and a twoor three-quarter internship in public or private State University and school supervisors. The purpose of the internship program is to provide an extended experience in a teaching situation in which the student has opportunity to apply learning theory through active participation. Phase should be taken during the senior year or as a graduate required to complete this phase. The internship consists of observation, teaching, and extracurricular duties in the public or approved private schools for two or three quarters and 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 princi
the assigned school but is also responsible to a SPU coordinator who gives professional guidance and evaluation. Agrade of 3.0 or above in the internship is a prerequisite to recommendation for a teaching certificate. Students seeking separate endorsements for the elementary and econdary levels must complete two quarters of internship secondary level.

## Elementary Phase II Program <br> \section*{Frank Kline, Chairperson}

## Admission To Elementary Phase

## Program

Requirements for admission to the Elementary Phase II

1. Admission to the School of Education, recommendation of the Phase I team, and maintenance of
eligibility and good standing in the School of eligibility and good standing in the School of
Education. If the Phase I experience is more tha Education. If the Phase I experience is more tha five years old there will be an additional
requirement to update that experience.
2. Maintenance of the same grade point averas required for admission to the School of Education
3. Senior or graduate standing.

Completion of MAT 2530, MAT 2531, LIN 2100, EdRd 3529, EdSc 4234 and EdTc 4235.
5. At least 15 upper-division credits in the major 6. Written permission of the academic advisor in Education at the time of registration for Phase II
7. Participation in a pre-internship conference with designated member of the elementary Phase II team.
8. Fingerprint clearance

The schedule of courses for each quarter of the two-quarter internship is as follows:

## 1st Quarter

EDU 4230 Elementary General Methods: Theory into Practice .....................................
EdRd 4231 Reading, Lang. Arts Methods dMa 4232 Mathematics Methods: Elementary Emphas............ EDU 4233 Social Studies Methods: Elementary Emphasis ... 3 DU 4941 Internship A

## 2nd Ouarter

EDU 4942 Internship B $\qquad$

## Secondary Phase II Program

Mark Pitts, Chairperson

## Admission To Secondary Phase II Program

Requirements for admission to the Secondary Phase II Program for SPU students are as follows (note: students wil be contacted by Second

1. Admission to the School of Education, recommendation of the Phase I team, and maintenance of eligibility and good standing in the School ore than five years old there will be an additional
2. Maintenance of the same GPA required for Maintenance of the same GPA required
3. Senior or graduate standing.
4. Completion of at least 15 upper-division credits in the major with a grade of 3.0 or above in each course, or demonstra
all work in the major.
in the recommendations from two SPU professors Edue major must be filed with the School of Education before registration for Phase II (form
Participation in Phase II Placement I
Placement Interview with
5. Fingerprint clearance.

At the secondary level, Phase II is referred to as the econdary Professional Year, which is three consecutive quarters.

## 1st Quarter

EDU 4240 General Methods: Teaching Secondary.
DDRD 4530 Topics in Secondary Eduction
Teaching major methods course
In addition, the appropriate teaching major methods course must be taken prior to or during the professional
year. Phase I is a prerequisite to this course. These courses are listed under the secondary course listings.
In the second and third quarters of the Secondary Professional Year students are placed in a classroom settin los than 17 credits per quarter must receive approval in writing from the chair of secondary education.

## 2nd Quarter

EDU 4945 Secondary School Internship A $\qquad$
3rd Quarter
EDU 4946 Secondary School Internship B. $\qquad$
Physical education, art, foreign language, music, and special education majors seeking K -12 certification should check with the undergraduate advisor in the School of
At the time students apply for admission to the Schoo of Education they will indicate their preferred quarters for
the Secondary Professional Year.
As students are admitted to the School of Education assignments are made for the quarter of EDU 4240, which begins the Secondary Professional Year, and for Phase II.
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 Secondary Professional Year, it is
expected that the student will enter at that time. Requests for changes in the quarter to begin the Secondary rofessional Year will be handled on a space-available basis

## Internship Placement and

## Supervision Policy

tudents anticipating teaching internships should be aware of School of Education school site placement policy.

1. Internship sites will be selected from districts near the University which have contractual internshi agreements with SPU. In an effort to facilitate supervision, attempts
Interns will be placed in se
them in an effort to broaden their school
experience. Schools where they have been students or parents of students, volunteers, aides, coaches or Phase I participants 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 assign students to their preferred quarters as space permits.
2. Internships not directly supervised by SPU School of Education faculty will not be provided

Internship Professional Expectations

1. Interns will be responsible for filing written notification of why changes in their internship plans scheduled internship. Failing to do so will result in a penalty of $\$ 70$.
2. It is strongly recommended that students not be employed during Phase II because of the time and professional demands of the internship program. In
3. Interns are expected to provide their own

## ATE INITIAL CERTIFICATION

## STATE INMENTS

The School of Education will recommend a candidate for the Initial Level Certificate in the State of Washington when he/ she has:
. Met the requirements of SPU for a B.A. or B.S
2. Satisfactorily completed the professional education course sequence, internship requirements and secondary level certification.
3. Completed requirements for an acceptable major according to state approved guidelines. Please consult the undergraduate education advisor for acceptable majors.
Completed the elementary content and skills minor (Elementary Certificate only). See elementary content and skills courses listed in the Edacation section (required for stud
5. (Optional) Presented a teaching minor to broaden the student's teaching area (Secondary Certificat only). Please consult the undergraduate advisor.
least a 2.0 in all education methods courses and at least a 3.0 in all laboratory experiences and internships (and/or student teaching)
7. Been recommended by the School of Education according to professional standards and persona
qualifications based upon SPU s academic goals.
8. 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.
9. Completed fingerprint process and cleared by

## Education 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 (i.e., English, family and consumer sciences, history, math, music,
psychology). 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 undergraduate advisor. elementary certification:

## FINE AND APPLIED ARTS

## Larry Metcalf, Advisor, Art Departmen

( $61-66$ credits: 23 upper-division)
RTT 1180 The Visual Arts

ART 1102 Drawing Studio (3)

Select two courses from the following
ART 2425 Weaving Studio (3)
ART 2428 Ceramics Studio (3)
ART 3315 Painting Studio - Watercoior (3)
ART 3604 History of Renaissance Ant (5)
ART 3604 History of Renaissance Art (5)
or ART 3605 History of Modern Art (5) .....................
FPA 131018 Attory in Amering ...................
FPA 1710 Arts in Amerign Fundamentals....................
MUS 3501 Elementary Methods and Mat
Select two courses from the following:
MUS 1250 Beginning Keyboard (1)
or MUS 1251 Intermediate Keyboard (1)
or MUS 1251 Intermediate Key
MUS 1260 Beginning Voice (1)
MUS 1260 Beginning Voice (1)
or MUS 1261 Advanced Voice (1)
MUS 1270 Beginning Folk Guitar (1)
US 364 .
TRE 1110 The Theatre Experience (5)
or TRE 3780 The Art of Film (5)
TRE 1310 Acting I: Fundamentals. ........
TRE 1320 Movement for Performing Artist (2)
TRE 2320 Stage Movement (2)
TRE 3321 Elements of Mime (2)

Approved electives to complete 61-66 credits: ART 3414 (3), ART 3421 (3), ART 4849 (3), FCS 3870 (5), FCS 4730 (5), MUS 2604 (5), MUS 2605 (5), MUS 2654/2655 (5), TRE 3720 (3), or other approved electives in art, music, theatre and family consumer sciences.

## LANGUAGE ARTS

Luke Reinsma, Aduisor, English Department ( 61 credits; 23 upper-division)
COM 1101 Introduction to Interpersonal Communication ... 5 COM 2330 Oral Interpretation of Literature COM 3102 Listening ....
 ENG 3180 Advanced Grammar
ENG 3334 American Ethnic Literatur
ENG 3230 Young Adult Literature
Select two courses from the following:
ENG 2251 English Literature:
Beginnings through Milton (5) Victorian (5)
ENG 3246 World Literature (5)
ENG 3248 Nōn-Western Literature (5)
HUM 3287 Mythology in Literature (5)
Select two courses from the following
ENG 2201 Research for Writing (3)
ENG 2201 Research for Writing (3)
ENG 3301 Writing to be Read (3)
EdRd 4516 Children's Books...

Total.
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 o

## MATHEMATICS

Sharon Young, Advisor, Mathematics Department
( 50 credits; 23 upper-division)
MAT 1225 (5) and MAT 1226 Calculus (5) ........................... 10
MAT 1360 Intro to Statistics
MAT 2401 Linear Algebra
MAT 2720 Discrete Mathematics
MAT 3441 Axiomatic Geometry (3)
or MAT 3443 Transformational Geometry (3) .................. 3
MAT 3750 Intro to Real Analysis
MAT 4402 Modern Algebra
CSC 1230 Problem Solving and Programming
Electives
approved electives to complete 50 credits: MAT 4403, MAT
4610, MAT 4904, MAT 4930, PHY 3120.
SCIENCE
ay Myers, Advisor, School of Education
(53-63 credits; 23 upper-division)
PHY 1135 Astrono the
PHY 1135 Astronomy ....
IO 1102 Individual and the Environmen
BIO 2101 (5) and BIO 2103 General Biology (5)
(or high school equivalent)....................................... 10
MAT 1101 Intermediate Algebra (or high school equivalent) 5 Electives

Approved electives to complete 45 credits: BIO 2129 (5), 2130 (5), BIO 3310 (5), BIO 3453 (5), BIO 4330 (5), BIO 3120 (5).

## SOCIAL SCIENCE

Kathleen Braden, Geopolitics and Donald Holsinger, History Department, Advisors
HIS 2502 The United States to 1876 (5)
or HIS 3501 Colonial and Revolutionary America (5) ........ 5
HIS 2503 The United Sates IS 2503 The United States Since 187
on-American History (upper-division recommended) ...... HIS 3600 History of the Pacific Northwes
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 1110 World Regional Geography $\qquad$
.................
SY 1180 General Psychology
SOC 1110 Introduction to Sociology
ne course in Cultural Anthropology
Two upper-division elective courses from the fo.....................5 $3-5$ disciplines:
ANT, GEO, PO

NOTE: Social Science majors need to plan carefully so as to
meet the University's requirement for graduation.)

Majors for Secondary Teachers
tudents wishing to prepare to teach at the secondary leve sould major in a content area from the list below. They should meet the requirements for bachelor's degree andidates as listed under the various disciplines. In addition, they should establish a 3.0 cumulative GPA in all 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 consume The following are approved majors for K-12 certificat t, French, German, music, physical education, Spanish, special education.

## Secondary Teaching Minor

tudents who plan to teach at the secondary level are trongly encouraged to prepare in a second teaching area. This may be a minor but must meet state endorsemen equirements. If there are questions concerning the dvisor in the School of Education

## Special Education (K-12)

Annette Robinson, Chalrperson
he primary purpose of the special education major is to develop teachers who have the knowledge and skills for students with disabilities. The emphasis in this program on students with special needs in the areas of learning and behavior.

## Admission to the Special Education

 ProgramStudents who are interested in the special education ertification program are encouraged to indicate their intent pon their arrival at SPU. This indication is made with the does not commit the student to the program, but assures dvising and continuing receipt of current information about the special education program requirements. For general equirements and admission policies, see the Phase I and Phase II sections in previous pages.

Requirements for the Special Education Major
45 Credits
EdSp 3107 Exceptionality in the Classroo
SY 2470 Life Span Developmental Psycholo..................... 3 EdRd 3529 Child Language Development and the Reading Process.........................

## Exceptional Student.....

EdSp 4646 Severe Disabilities
dSp 4651 Special Education Assessment Disorders ........ EdSp 4652 Learning Disabilities.
EdSp 4653 Teaching Reading to E...................................... EdSp 4657 Behavior Management: Applied Behavioral
Analysis ...................................................................
EdSp 4658 Senior Seminar:Issues in Special Education EdSp 4943 Elementary or EdSp 4948 Secondary Special Education Internship

Requirements Leading to Certification in Specia Education at SPU:

1. Certification in special education (grades $\mathrm{K}-12$ ) is granted by successiul completion of the special education major, a second academic area of
For Phase I requirements for a K-12 special education certificate, see the previous School of Education Phase I sections of this Catalog. Specific Phase II courses are required for the K-12 special education certificate. Phase II includes a required internship in speciar education. Judents winave oplonin with both ementary students.
2. Transfer students must complete a minimum of 15 upper-division credits in special education course work prior to the internship. In order for the Schoo of Education to recommend a student for the K-12 special education certificate, the internship must faculty members.

Additional Courses Required For K-12 Special Education Only Certification

## Elementary

MAT 2530 Survey of Math 1
MAT 2531 Survey of Math II.................................................................................. EDRD 3529 Child Language Development and the Reading

EDTC 4235 Intro to Educational Technology...................... 2 3546 (3), EDSC 4234 (3), EDU 4233 (3), MUS 3500 (2), MUS 3502 (3), PE 2510 (4), PE 2520 (3).

## Phase II:

EDU 4230 Elementary General Methods: Theory into
Practice
EDMA 4232 Mathematics Methods: Elementary Emphasis... DSP 4944 Elementary Special Education Internship A .......

## Secondary

EDU 4240 General Methods for Teaching in Secondary Schools.. EDRD 4530 Topics in Secondary Education EDTC 4235 Intro to Educational Technolog Electives: Minimum of two courses and 4-6 credits............ 57 (3), EDSC 3359 (3), EDU 3365 (3) EDU 4364 (3), EDU
361 (3), FCS 4511 (3), Methods in Art, Music, or PE

## Phase II:

EDU 4948 Secondary Special Education Internship
2 quarters, 17 credits each ...................................... 3 quarter credits in a second academic area.

## Professional Education Courses

 EDRD 3529 CHILD LANGUAGE DEVELOPMENT AND THE cation. Prerequisite: IN 2100 Examines the nature of Iof Educhildren'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. Class not open to: Freshmen.EDRD 4530 TEACHING READING AND WRITING IN CONENT AREAS (2) Prerequisite: Completion of Phase I. Provides
functional approach to content-centered instruction that will prepare preservice 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 10 learn content from a variety of sources and naterias. Class
open to: Freshmen and Sophomores. EDSC 4234 SCIENCE METHODS: ELEMENTARY EMPHASIS (3) Registration Approval: School of Education. Prerequisite:
Phase I. Briefly surveys current elementary science programs and Phase 1 . Briefly surveys current elementary science programs and
examines techniques and materials using a discovery approach to each some basic principles of science. Class not open to: Freshmen and Sophomores
EDTC 4235 INTROUUCTION TO EDUCATIONAL TECH-
NOLOGY (2) Prerequisite: Phase ED Instruction on processes NOLOGY (2) Prerequisite: Phase I. Instruction on processes and
procedures for using media and computers in school settings. nocludes instructional design; basic production skills for compute, nedia, and multimedia applications; and courseware evaluation. Class not open to: Freshmen
ION AND CLASS MANAGEM EDUCATIONAL INSTRUCchool of Education. Prerequisite: See Phase I program prerequiusites. Presents an introduction to current theory and practice in
effective instruction. Examines factors which affect sudent learn effective instruction. Examines factors which affect student learn.
ing, introduces principles of classroom management and provides ing, introduces principees of classroom management and provides Experienes the social, historical, legal and philosophical foundations
of education. Includes an overview of the organization of te of education. Includes an overview of the organization of the EDU 3104, EDU 3105. Class not open to: Freshmen.
EDU 3104 FOUNDATIONS OF MULTICULTURAL EDUCAION (2) Registration Approval: School of Education. Prerequi site: See Phase I program prerequisites. An introduction to the
istorical background and theoretical constructs of multicultural education. Examines the nature of the diverse society in which we ive, and the implications for education. The nature of bias is discussed, and techniques are presented which foster positive expec
ations for all students. Corequisites: EDSP 3107 , EDU 3103 , EDU 3105. Class not open to: Freshmen.

EDU 3105 LABORATORY EXPERIENCE (3-4) Registration Approval: School of Education. Prerequisite: See Phase I program prerequisites. Provides opportunity for the student to be placed experience will be gained through observing and working with students in various classroom settings. Corequisites: EDSP 3107, EDU 3103, EDU 3104. Class not open to. Freshmen.
EDUval: School of Education. Gives students an opportunity Approval: School of Education. Gives students an opportunity to have
an additional, individualized laboratory experience. See EDU 3105 . Class not open to: Freshmen
EDU 4240 GENERAL METHODS FOR TEACHING IN SECONDARY SCHOOLS (5) Registration Approval: School of Educa
ion. Prerequisites: Completion of Phase 1 , admission to the tion. Prerequisites: Completion of Phase I, admission to the ning, classroom management instructional theory, lesson planhance and to be applied in a practice classroom setting. Class not open to: Freshmen and Sophomores.
EDU 4530 TOPICS IN SECONDARY EDUCATION (2) Registration Approval: School of Education. Prequisite: Complete Phase I. Explores major topics related to instruction in the secondary class-
room, drawn from student assessment, reading and study skills, and room, drawn from student assessment, reading and study skil
child abuse. Class not open to: Freshmen and Sophomores.

## Phase II: Elementary Teaching

EDMA 4232 MATHEMATICS METHODS: ELEMENTARY EMPHASIS (3) Registration Approval: School of Education. Explores contemporary methods and trends in the teaching of math
ematics in elementary school emphasizing learning theories, emaaics in elementary school emphasizing learning theories,
changes in the mathematical content use of technology, and peda changes in the mathematical content, use of technology, and peda-
gogy. Attention is given to the N.C.T.M standards and to Washingto
State State Essential Learning requirements. Corequisites: EDRD 4231 EDophomores and Junior
EDRD 4231 READING AND LANGUAGE ARTS METHODS (3) Registration Approval: School of Education. Prerequisite:
EDRD 3529 and LIN 2100 . Incorporates a variety of instructiona

## Education, School of

## 'Education

rings hope.
We seek to unify
the immediate
hopes of our eternal hope in lesus Christ. Our desus Christ. Our desire is to brim these hopes tudents and through them to the children they serve."

Frank Kline Education

strategies, formats and media to present a variety of methods and reading, writing and oral language in the elementary classroses. and analysis and uses of language arts materials. Corequisites:
EDMA 4232, EDU 4230, EDU 4233, EDU 4941. Class not open to: reshmen, Sophomores and Juniors.

PECIAL EDUCATION INTERN requisites: 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 Clacher. Extra fee. May be repeated for creatrup to to to Freshmen Sophomores and Juniors. EDSP 4944 ELEMENTARY SPECIAL EDUCATION INTERNSHIP B (1-17) Registration Approval: School of Education. Preequisites. same as arion and daily teaching in special education in he elementary schools under the direction of a cooperating teacher. Extra fee. May be repeated for credit up to 17 credits. lass not open to: Freshmen, Sophomores and Juniors. NTO PRACTICE (2) Registration Approval: School of Education. resents general factors that affect learning in the elementary classroom; development of teacher-pupil relationships, lesson planning, behavior guidance, evaluation and communicating with
parents. Corequisites: EDMA 4232, EDRD 4231, EDU 4233, EDU 941. Class not open to: Freshmen, Sophomores and Juniors. EDU 4233 SOCIAL STUDIES METHODS: ELEMENTARY EMPHASIS (3) Registration Approval: School of Education. Explores inter-disciplinary approach for teaching elementary school
social studies and develops strategies for implementation in the classroom. Corequisites: EDMA 4232, EDRD 4231, EDU 4230, EDU 991. Class not open to: Freshmen, Sophomores and Juniors. EDU 4940 STUDENT TEACHING IN THE ELEMENTARY
SCHOOL (1-16) Registration Approva: School of Education. rerequisites: See Phase II elementary program prerequisites. Provides opportunity of observation and daily teaching for one uarter in elementary schools. Extra fee. May be repeated for and Juniors. EDU 4941 ELEMENTARY SCHOOL INTERNSHIP A (1-17) Revistration Approval: School of Education. Prerequisites: See Phase II elementary program prerequisites (First quarter). Proschools under the direction of a cooperating teacher. Extra fee. May be repeated for credit up to 17 credits. Corequisites: EDMA 232, EDRD 4231, EDU 4230, EDU 4233. Class not open to: FreshEDU 4942 ELEMENTARY SCHOOL INTERNSHIP B (1-17) Registration Approval: School of Education. Prerequisites: Same as or 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. Class not open to: Freshmen, Sophomores
and Juniors.
EDU 4943 ELEMENTARY INTERNSHIP (MUSIC) (1-17)
Registration Approval:School of Education. Prerequisites: Same a Registration Approval: School of Education. Prerequisites: Same
for EDU 4941. Provides opportunity for observation and daily teaching of music in the elementary school under the direction of cooperating teacher. Extra fee. May be repeated for credit up to
17 credits. Corequisite: EDU 4230. Class not open to: Freshmen,
Sophomores and Juniors. 4944 ELEMENTARY INTERNSHIP (ART) (1-17) Regis. tration Approval: School of Education. Prerequisites: See Phase II elementary program prerequisites. Provides opportunity for obser
vation and daily teaching of art in the elementary school under the ation and daily teaching of art in the elementary school under the credit up to 17 credits. Corequisite: EDU 4230. Class not open to: Freshmen, Sophomores and Juniors.
DU 4948 ELEMENTARY INTERNSHIP (PHYSICAL EDUPrerequisites: See Phase II elementary program prerequisites. Provides opportunity for observation and daily teaching of PE in the elementary school under the direction of a cooperating teacher. EDU 4230. Class not open to: Freshmen, Sophomores and Juniors.
du 4951 INTERNATIONAL ELEMENTARY SCHOOL INERNSHIP (8-17) Registration Approval: School of Education, ad daily teaching in an international elementary school setting under the direction of a cooperating teacher.

## Secondary Major Methods Course

 EDMA 3357 TEACHING SECONDARY MATHEMATICS (3) rerequisite: Completed Phase I. Overviews content methods and matics. Attention is given to the NCTM Standards and Washington tate Essential Learning requirements, emphasis is also placed on roblem solving. Recommended prior to or concurrent with first uarter internship. Class not open to: Freshmen and Sophomores.EDSC 3359 TEACHING SECONDARY SCIENCE (3) Registraion Approval: Instructor. Prerequisite: Completed Phase I. Desiged to assist students in relating their understanding in various science disciplines to the practical problems of planning and
mplementing learning experiences for secondary students. The emphasis is on the use of inquiry/problem solving approaches to science learning. Class not open to: Freshmen and Sophomores.
EDU 3356 TEACHING SPEECH COMMUNICATION (3) resents teaching methods and problems of the speech classroon uired of majors seeking teaching credentials in speech. Class not pen to: Freshmen and Sophomores.
DDU 3358 ART EDUCATION - SECONDARY (3) Studies the propriate media and emphasizing development of an art curvicul appropriate media and emphasizinindevelopment of an art curricu-
um. Studio periods will be combind with lectures and discus-ons. Course Equivalent: ART 3547Class not open to: Freshme nd Sophomores.
DU 3361 SECO
te: Completed Phasary English METHODS (3) Prerequiand materiais appropriate for junior/senior high students. Based nessential learnings, the course considers various learning eating and sharing ideas and proiets, and writing activites, EDU 4364 TEACHING SECONDARY SOCIAL STUDIES (3) Registration Approval: School of Education. Prerequisite: Com-
pleted Phase I. Presents specific elements of secondary social tudies instruction, including content selection and planning based nessential learnings, moral implications of content, use of intructional strategies, assessment of student learning, and manement of the
EDU 4365 METHODOLOGY FOR FOREIGN LANGUAGE TEACHING (3) An overview of the theoretical paradigms of sec-
ond language learning and teaching; definition and evaluation of ond language learning and teaching; definition and evaluation of f listening, speaking, reading and writing; selection and devel on istening, speaking, reading and writing; selection and development of instructional materials, incluaing new tecinology. Or
as required. Course Equivalent: LIN 4365. Class not open to:
Freshmen.

## Phase II Secondary Internships

 EDSP 4948 SECONDARY SPECIAL EDUCATION INTERNHIP A (1-17) Registration Approval: School of Education. Pre requisite: EDU 4240. Three quarter internship (two in special ed one in regular ed). Provides opportunity for observation and daily the direction of a master teacher. Extra fee. May be repeated for redit up to 17 credits. Class not open to: Freshmen, Sophomores and Juniors.9 SECONDARY SPECIAL EDUCATION INTERNequisites: See secondary Phase II prerequisites. Extra fee be repeated for credit up to 17 credits. Class not open to: Freshen, Sophomores and Juniors.
EDU 4945 SECONDARY INTERNSHIP A (1-17) Registration pproval: School of Education. Prerequisites: EDU 4240 First quar-
er of internship. Provides opportunity for observation and daily eaching in public or approved private schools under the direction f a master teacher. Extra fee. May be repeated for credit up to 17 Sophomores and Juniors.

EDU 4946 SECONDARY INTERNSHIP B ( $1-17$ ) Registratio econd quarter of two-cuarter internship. Provides opportunity second quervation and daily teaching in public or approved private chools under the direction of a master teacher. Extra fee. May be repeated for credit up to 17 credits. Class not open to: Freshmen, DU 4947 SECONDARY INTERNSHIP C (1-17) Registration apporatunity for observation and daily teaching in public or approved private schools under the direction of a master teacher. xtra fee. May be repeated for credit up to 17 ce EDU 4952 INTERNATIONAL SECONDARY SCHOOL INTERNSHIP (8-17) Registration Approval: School of Education. rerequiss teaching in an international secondary school setting under the direction of a cooperating teacher.

## Special Education

ESSP 3107 EXCEPTIONALITY IN THE CLASSROOM (3) Registration Approval: School of Education. Prerequisite: See hase I program prerequisites. Examines the concept of differnce, including influences of exceptionaity on socia and psych tudents in classrooms. Corequisites: EDU 3103, EDU 3104, EDL 105. Class not open to: Freshmen.

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 state regulations for the education of the disabled; procedures fo-
referral, diagnosis and placement; formation of individual educalion programs, service models, task analysis and sequencing of skills; formation and evaluation of behavioral objectives; selection
of instructional materials and methodology; and classsoom organi finstructional materials and methodology; and class room organiEDSP 4645 PSYCHOLOGY OF THE GIFTED INDIVIDUAL 3) Registration Approval: Schoor of Education. Prerequisite. iduals and development of educational programs and resource for the gifted. Class not open to: Freshmen and Sophomores. EDSP 4646 SEVERE DISABLLITIES (3) Registration Approval: School of Education. Prerequisite: EDSP 3107. Explores
the issues surrounding the education of the developmentally dis he issues surrounding the ediucation of the develolopmentallys, etiology, theoretical approaches, strategies for educational diagno is and intervention, family problems and other issues. Class not pen to: Freshmen and Sophomores
AND BEHAVIOR DISORDERS (3) Reith EMOTIONAL. School of Education. Prerequisite: EDSP S1107. Provides specia educators with knowledge related to characteristics and or emotional disturbbance. Class not open to: Freshmen and Sophomores.
EDSP 4651 SPECIAL EDUCATION ASSESSMENT (3) R ration Approval: School of Lacain. Arerequisite: EDSP 3107. exceptional children. Includes construction of criterion referenced tests and curriculum based assessment; use and interpretation of ormal and informal tests, and procedures and Freshmen and Sophomores.
EDSP 4652 DISABILITIES OF LEARNING AND ATTENEDSP 4652 DISABLLITIES OF LEARNING AND ATTENSite (3) Registration Approval: School of Education. Prerequiassociated with learning disabilities. Includes definitons and char available resources, etiologies and educational management of earning disabilities and attention disorders. Attribute: Writin Course. Class not open to: Freshmen and Sophomores.
EDSP 4653 TEACHING READING TO EXCEPTIONAL STUSENTS (3) Registration Approval: School of Education. Prerequisites: EDRD 3529 and EDSP 3107 or permission of instructor.
relates of reading problems, and analysis and selection of methods and materials for reading instruction of special needs anguage. Attribute: Writing Course. Class not open to: Freshmen EDSP 4657 BEHAVIOR MANAGEMENT (3) Registration proval: School of Education. Prerequisite: EDSP 3107. Focuse seful in meeting the needs of behaviorally disordered children and youth. Class not open to: Freshmen and Sophomores. DSS 4658 ISSUES IN SPECIAL EDUCATION (3) Registra lores major trends and issues affecting special education, ncluding the rights of the disabled, emerging trends in educational services and major issues surrounding the quality of infe of disWriting Course.

Indergraduate Elective Courses EDRD 4516 CHILDREN'S BOOKS: READING FOR ALL AGES (5) Prerequisite: ENG 11110 or equivalent. Examines the variety and richness of literature available for children and young dullts; presents major genres and notable authors and illustrators;
and develops familiarity with varied responses to literature adaptrom use. Class not open to: Freshmen. EDSC 4527 NATURE OF ELEMENTARY SCHOOL SCIENCE (3) Introduces science teaching strategies and processes of scice (hypothesimosern elementary science curricul using clas EDSC 4566 ENVIRONMENTAL EDUCATION FOR ELEMENTARY AND MIDDLE SCHOOL TEACHERS (3) Gives ideas for outdoor activities, classroom activitues, field trips, regional environmental resources, readings, teaching strategis , , dis
Offered summers only. Course Equivalent: NMS 4555. EDSP 4900 INDEPENDENT STUDY (1-5) Registration Approval: Independent Study Agreement. Prerequisites: EDSP 3107.
May be repeated for credit up to 5 credits. EDU 4511 STRATEGIES IN EARLY CHILDHOOD (3) Preequisite: FCS 3220. 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 rams for children in pre-school, day-care centers, and kindergar en. Offered summers only. Class not open to: Freshmen. EDU 4900 INDEPENDENT STUDY (1-5) Registration Aption majors. May be repeated for credit up to 5 credits.

## Engineering

Edward J. Bauman, Director; Kevin Bolding, James Crichton, Robert Hughson, Donald Peter, Melani Plett 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 principle ools, 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 also provides the liberal arts enrichment which makes the engineer better able to communicate his or her ideas to other segments of our society

Majors
SPU offers B.S. degrees in Electrical Engineering (BSEE degree is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET). The BSEAS degree offers emphases in engineering, environmental engineering, engineering mathematics and engineering physics.
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 NY and the University of Washington, Columbia University, NY and the University o in civil or mechanical engineering, he/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 chemistry, physics, mathematics and engineering. If the 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 (206) 281-2140.

SPU engineering seniors are urged to take the
Wasineer-in-training Those passing thing examination for Washington State as licensed engineers-in-training.

## Evening BSEE and Computer Engineering

 ProgramsIn addition to the day courses, evening courses in electrical engineering make a BSEE degree available for students who work full-time during the day. Contact the Electrical Engineering Department at (206) 281-2011 for more
information. Also, the computer engineering emphasis of information. Aso, the computer engineering emphasis of completed by taking evening courses.

## Intern Program

All engineering majors are required to do an internship with industry. Normally this internship is accomplished during the summer between their junior and senior years.

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 should consult an engineering advisor for a program of preparation for the engineering curriculum.

## Admission to the Major

Student performance during the freshman year will be used as an indicator of the student's promise of success in engineering. Application for admission to the major may be made one quarter before starting the sophomore year (typically by June 1). The engineering faculty will review these applications. Students with grade point averages Transfer students (sophomores and beyond) may apply after one full quarter of classwork in the SPU engineerin program. Students must be admitted to the major prior to aking 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, ine arts, sociology, psychology, political science, or foreign languages other than a student native language (s). These courses satisfy a general humanities and social science accreditation requirement. 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. The must see an advisor to insure this requirement is met.

## Requirements for the Electrical

## Engineering (EE) Major

(140-141 Credits; 64-68 upper-division)
See page 42 or 49 for a summary of degree requirements and science prerequisites, the electrical engineering majo 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 communication requirement. The BSEE degree can be completed in four years by taking approximately 17 credits per quarter. The following coursework is required of all students majoring in electrical engineering:

## Mathematics

MAT 1225, 1226 Calculus ................................................... 10

 MAT 2375 Probability Theory.
MAT 2401 Linear Algebra....
Science
CHM 1211 General Chemistry $\qquad$
 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 $\qquad$ CSC 3410 File Structures (5) or EGR 2891 Statics (4)
EGR 4940 Engineering Internship

## Electrical Engineering

EE 1210 Introduction to Logic System D
EE 2726,2727 Electric Circuits 1 III.
EE 2726,2727 Electric Circuits I, II......
EE 3280 Microcontroller System Design
EE 3410 Signal and System Analy
EE 3730 Electronic Circuit Desig
EE 3760 Computer O EE 4211, 4212, 4213 Microprocessor
System Design I, II, III.
EE 4450 Control System Design



## Requirements for the Electrical

 Engineering Minor( 33 credits; 20 upper-division)
The minor in electrical engineering consists of basic digital and analog circuits courses, plus 10 credits of elective EE
ER 1210 Introduction to Logic System Design ..................... 5
EE 2726 Circuits I
EE 2727 Circuits II
EE 2727 Circuits II...
EE 3722 Electronics II
Ten credits of upper-division EE course
Total...
Students who graduate with the Engineering and Applied science (EAS) major fullif all these requirements and thus automatically qualify for a minor in Electrical Engineering.

## Requirements for the Engineering and

Applied Science (EAS) Major
(139-145 Credits; $50-65$ upper-division)
[See page 42 or 49 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. One important feature of this program is to prepare graduates to apply imbedded microprocessor computer systems to solve problems in their chosen field. Students who complete the EAS major also earn a minor in Electrical Engineering.
Because engineering courses require many mathematics and science prerequisites, the engineering and applied
science maior 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 17 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
Science
CHM 1211 General Chemistry
PHY 1121, 1122, 1123 Physics for Science
and Engineering ...
Engineering Science
CSC 1230 Problem Solving and Programmin
CSC 2430 Data Structures and Programming
EGR 2891 Statics ..


EE 2726, 2727 Electric Circuits I, II.

EE 3721, 3722 Electronics I, II......
EE 3760 Computer Organization and Assembly Language...... E 4211, 4212, 4213 Microprocessor
System
Total
ECN 1100 (5) Fundamentals of Economics is a recom
ECN 1100 (5) Fundamentals of Economics is a recommended general education course.

## Bio-Engineering

BIO 2101 General Biology .................................................. 5
BIO 3325 Genetics
BIO 3325 Genetics ............................
CHM 2371, 2372 Organic Chemistry.....
CHM 3225 Chemical Equilibrium and Analysis
EGR 2391 Introduction to Material Science........................... EGR 3401 Thermodynamics ..
EGR 4352 Cell Biology
MAT 2375 Probability.......

## Engineering Chemistry

CHM 2371, 2372 Organic Chemistry ................................ 10 CHM 3402 Physical Equilibrium and Analysis. CHM 3402 Physical Chemistry CHM 3460 Physical Chemistry I............................................................. CHM 3540 Inorganic Chistry Lab
 EGR 3226 Quantitative and Instrumental Analys
$\qquad$


## Computer Engineering

CSC 3350 Systems Programming ...................................... 4
CSC 3410 File Structures ................................................... 5
ESC xxxx upper-division com
MAT 4725 Numerical Analysis
MAT 2375 Probability ....................................

Environmental Engineering
BIO 2101, 2103 General Biology I, III .................................... 10
BIO 3310 Ecology .......................................................................................
CHM 2371 Organic Chemistry ............................................
CHM 3225 Chemical Equilibrium and Analysis
EGR 3226 Ouantitative and Instrumental Analysis................. EGR 3401 Thermodynamics
MAT 2375 Probability .......................................
Engineering Mathematics
MAT 2228 Multivariable Calculus ............................
MAT 2375 Probability ................
MAT 4725 Numerical Analysis.
MAT xxx applied mathematics courses
PHY 2321 Intermediate Physics .............
EGR 2391 Introduction to Material Science
EGR 3401 Thermodynamics ..
EGR 3841 Dynámics.............................................
Total (Including EAS Core Courses) .............................. 143

## Engineering Physics

PHY 2321 Intermediate Physics
PHY 3312, 3313 Advanced Physics Lab
PHY 3401 Thermodynamics ...
PM

EE 4310 Electroma
MAT 2228 Multivariable Cale
MAT 3724 Applied Analysis
BIO xxxx general education biology course
Total (Including EAS Core Courses)
.
-

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 2375 Probability (3)
MAT 2401 Linear Algebra (3)
Science
CHM 1211 General Chemistry (5)
CHM 2371,2322 Organic Chemistry (10) Science and Engineering (15)
Engineering Science
CSC 1230 Problem Solving 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 3841 Dynamics (5)
Suggested Course Sequence For All
Engineering Students During Their Engineering St

## Autumn



## Winter

MAT 1226 Calculus ...........................................................
EE 1210 Intro Logic Sys


Spring
MAT 1228 Diff Equations
Gen EdFoundations
sources, nodal and mesh analysis, power transfer, Thevenin's and mplifiers, inductance, capacitance, first-order and secondiorder transient response. Includes lab problems and introduction to PSPICE and MATLAB computer software
EE 2727 ELECTRIC CIRCUTS
EE 2727 ELECTRIC CRRCUITS II (4) Prerequisite: EE 2726. introduction to state variable analysis. Alternating current theory
and anaysis, power, frequency response, resonance and polo-zer and analysis, power, frequency response, resonance and polo-zero
concepts. Introduction to Laplace transforms applied to notwork analysis. Transformers and two-port network concepts. Includes Lab problems, PSPICE and MATLAB. 3280 MICROCONTROLLER SYSTEM DESIGN (5) Prerequisites: EE 1210 and 3760 or CSC 3760. Design of hardware and soffware for embedded systems using a modern microcontroller. Covers hardware interfacing including memory system design, inter-
rupt interfacing, and use of internal and external peripheral devices. Emphasis is placed on assembly language programming of the Emicrocontroller including device drivers, exception and interrupt handling, and interfacing with higher-level languages. Laboratory exer cises require assembly language programming and hardware design.
EE 3410 SIGNAL AND SYSTEM ANALYSIS (5) Preecquisites EE 2727, MAT 1228, 2401, familiarity with MATLAB computer software. Prerequisite or concurrent: MAT 3724. Study, modelling and computer simulation of electromechanical components and systems. Characterization of linear systems by impulse response,
convolution, transfer function. Study of linear differential equations and linear difference equations as models. Study of continuous and discrete signals including filiers and their effects. Uses
transform methods including Fourier series and transforms, FFT, Laplace transforms and Z transforms. Includes computer
EE 3721 ELECTRONICS I - ANALOG DEVICES AND CIR CUITS (5) Prerequisite: EE 2727. Study of electronic devices and amplifiers, diodes, bipolar junction transistors, field effect transis tors, differential amplifiers. Includes lab problems.
EE 3722 ELECTRONICS II ANALOG ELECTRON EE 3722 ELECTRONICS II ANALOG ELECTRONICS (5) output stages and power amplifiers, analog integrated circuits filters, sascillators, wave-shaping circuits. Includes lab problems. EE 3730 ELECTRONIC CIRCUTT DESIGN (5) Prerequisite: EE 3722. Team design and construction of industrial or seil-de-
signed projects. Requires analog and digital electronic circuit design, development, construction and testing with oral and written reports. Includes review and analysis of professional papers. Attribute: Writing Course.
EE 3760 COMPUTER ORGANIZATION AND ASSEMBIY LANGUAGE (5) Prerequisites: CSC 2430 and either MAT 1720 or EE 1210. Study of organization and structuring of the major hardware and software components of computers. Includes mechanics of information transfer and control within a digital com
puter system. Introduces networks and communications systems, putter system. Introduces networts and communications systems,
microprogramming, machine instruction sets and assembly language programming. Course Equivalent: CSC 3760.
EE 4211 MICROPROCESSOR-BASED MIXED SIGNAL SYSTEM DESIGN I (3) Prerequisites: EE 3726, 3280. Study of mix digitala and analog system design including embedded so
design. Student teamm beein a system level design of a company-sponsored project (a non-disclosure agreement may be required.). Projects typicaly include use of a microcontrolier and may include analog-to-digital converters, , igitial singal-processing
chips, external memories, power supplies, user interfaces and chips, externat memonies, power suppies, user interfaces and
more. Students provide detailed schedules for building prototype
systems and prest systems and present weekly progress reports. During the course, Design Review (PDR) and build a working prototype system.
EE 4212 MICROPROCESSOR-BASED MIXED SIGNAL SYS TEM DESIGN II (3) Prerequisite: EE 4211. Continued study of mixed digital and analog system design including embedded soft-
ware design. Student teams desigg 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 minimiz ing electromagnetic interference (EMI). Teams write a detailed
technical report and submit their designs to a Critical Design Review (CDR). Weekly progress reports and team presentations are required.

4213 MICROPROCESSOR-BASED MIXED SIGNAL SSTEM DESIGN III ( 3 ) Prerequisite: EE 4212. Designs fron E 4212 are developed into a manufacturing prototype and tested. covers testing methodology (hardware and software), board deions manuals and detailed technical manuals. Weekly progress eports and final presentations are required. Attribute: Writing ourse. 4310 ELECTROMAGNETICS (5) Prerequisites: MAT 1228 magnetostatics, boundary conditions, and boundary-wue solt ions, Maxwell's equations, electromagnetic waves and their opogation transmission lines, waveguides, and antennas. In udes computer and laboratory experiments. Cours
EE 4450 CONTROL SYSTEM DESIGN (5) Prerequisite: EE tho. Analog and digital control system design using root locus, requencey and state variabie methods. Includes a comprehensive esign and test of a realtime digital control system. Introduction used extensively as design tools. Class open to: Electrical Engineering majors.
EE 4550 COMMUNICATION SYSTEM ANALYSIS (5) Prere uisites: EE 340 and either MATi
ciples of modern communication systems. Pulse amplitude and ciples of modern communication systems. . uilse ampiitude and
pulse code modulation are covered. Digital techniques of delta modulation and time division multiplexing are presented. The alons with noise effects, filtering threshold effects and phaselocked loops. Common carrier, fiber optic, satellite and television systems are outlined. Computer communication protocols and networks. nncludes computer stimaion EE 4950 TOPICS IN ELECTRICAL ENGINEERING (3-5) Registration Approval: Instructor. An advanced course studying a special interest topic in electrical engineering. Topics and credit may vary between offerings. Class open to: Electrical Eng
majors. Class not open to: Freshmen and Sophomores.

## Engineering Course

EGR 1401 INTRODUCTION TO ENGINEERING (2) For Ireshmen engineering students. Introduction to the engineering
career field. Resume writing instruction. Includes small robotic team project to learn fundamentals of electricaleand meechanical hardware. Tours of technology companies and a variety of guest
speakers from industry. Survey paper on a technology topic chose by the student.
EGR 2391 INTRODUCTION TO MATERIALS SCIENCE (5) Prerequisites: CHM 1212 and MAT 1226. Studies crystallization, cesses in metals, ceramics, polymers and composites to aid in material selection for various engineering capplications. librium of particles and of rigid bodies, structural analysis is interiforces on beams and cables, friction, center of gravity, area noments of inertia, and virtual work,
EGR 3226 QUANTITATIIE AND INSTRUMENTAL
ANALYSIS (5) Prerequiste CHM 2225 .
course, dealing with the theory and practice of quantitative analyt cal chemistry with emphasis on instrumental techniques. Instrumental analysis will include a variety of separation, spectro-
scopic and electrochemical methods, includes engineering and clinical applications. for engineering majors, medical technologists, pre-medical and pre-dental students, physical and biological science majors. Course Equivalent: CHM 3226 . and MAT 1228, and either PHY 1103 or 1123 . Studies at the 1211 , scopic level, equilibrium properties of matter, conservation laws, equations of state, and transformations of state systems in which
temperature is an appropriate variable. Considers ensinering temperature is an appropriate variable. Considers engineering
applications. Course Equivalents: CHM 340 1and PYY 3041 EGR 3841 DYNAMICS (5) Prerequisites: MAT I228, MAT 2401, either PHY 1101 or PHY 1121. Study of vectorial treatement of Newton's laws for undamped and damped linear, rotational, and vibra
tional motion in several coordine systems. tionar motion in several coordinate systems. Incuudes solving probIems for particles and rigid bodies using energy, momentum, and
angular momentum conservation laws. Course Equivalent: PHY 3841 .

EGR 3871 TRANSPORT PROCESSES (5) Prerequisites: MAT and dynamics. Emphasis is on the control volume approach, cove ing the transport of mass, energy, momenturn and angular momen tum, with engineering applications. Offered on demand.
EGR 4352 CELI BIOLOGY 5 ) Preerevisites:
BIO 3325 CHM 2371. Examines structure and functions of bacteria, plant and animals emphasizing celluar specialization, organelle models and chemical dynamimics. Includes laboratory. Course Equivalent:
and
B10 0455 . EGR 4900 INDEPENDENT STUDY IN ENGINEERING ( $1-5$ Registration Approval: Independent Study Agreement Student Regs an independent: study ynder 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 5 credits.
EGR 4910 WASHINGTON STATE ETT PREPARATION Registration Approval: Engineering Faculty. Seminar review of principles and problem solving in math, chemistry, physics, electrcal engineering, engineering science, and engineering economics State EIT test.
EGR 4930 ENGINEERING APPLICATIONS IN INDUSTRY (3-10) Registration Approval: Engineering Faculty. Provides pre arranged coordinated iedc 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.
EGR 4940 ENGINEERING INTERNSHIP (1-5) Registration Approval: Intern Learning Contract Req. Internship 1is normally
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 expenience or the stadent. Internship 11 is a company sponsored
design project during the senior year. All internships are designe 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. Attribute Writing Course.

## English

Mark Walhout, Chair, Thomas Amorose, Janet Blumberg, Joyce Quiring Erickson, Susan VanZanten Gelagher, Reinsma, Douglas Thorpe
rich variety of excellent literature and to writing and thinking. Literature courses show how languag enables us to explore and shape 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.
develops skills in resarch redition, English studies develops skills in research, critical thinking, and written
communication. Courses in English also allow students to discuss the fundamental questions of human life and meaning, as well as to cultivate an appreciation of individua
and cultural diversity and cultural diversity.
An English major prepares students to enter 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.

Objectives of the Major

1. Understanding of the relationship between
literature and the Christian faith, and insight into
own values.

Details of the sophomore through senior course scheduling are in the Engineering Student Handbooks. The intere
with industry (EGR 4940) normally is taken during the

Electrical Engineering Courses
EE 1210 INTRODUCTION TO LOGIC SYSTEM DESIGN (5) sequential logic desigg with implementation using programmable logic devices and CMOS transistors. Combinational logic covers truth tables, Boolean algebra, logic gates, Karnaugh maps, multi-
plexers, decoders, ROMs, PLAs, and PALs. Sequential logic cove plexers, decoders, latches, flip-fiops, clocks, registers, counters, finite state techniques. Laboratory exercises include designs using both discrete TTL gates and PLDs.
EL 2726 ELECTRC CIRCUITS I (4) Prerequisite: MAT 122
Study of Basic Obm's and Kirchoff's laws, voltage/current
. Knowledge of the history of Engish and American hiterature and some understanding of their relationship to the literature or Europe and the
world.
Knowledge of major writers and works and of their relationsnip
3. Proficiency in reading closely and analyzing a literary lext, coupled with understanding of major critical approaches
Development and refinement of a personal prose style.
Knowledge of library resources and techniques for research in literature and language.
Familiarity with the major historical, philosophical, and technical aspects of language.

## British Isles Quarter

The British Isles Quarter is a biennial study abroad program offering students an opportunity to take regular English courses from an SPU professor while residing and traveling For details about upcoming BlQs, visit the English Department web site at http://www.spu.edu/depts/eng/.

## Admission to the Major

Applicants for a major in English must display an average GPA of
2253.
Requirements for the English Major
(63 Credits; 30 upper-division)
See pase 42 or 49 for a summary of degree requirements]

## Core Courses

ENG 2225 Practical Criticism: Writing and Research
NG 2252 Endish Li NNG 2252 English Literature: Restoration
 ENG 3246 World Literature
ENG 4225 Senior Literature Seminar*
ENG 4445 Shakespeare ...
*Meets requirement in British......................................... depending on content.

## British Literature

Select two courses from the following
ENG 3345 The Arthurian Tradition (5)
ENG 3346 Literature of the English Renaissance (5)
ENG 3337 18th-Century Poetry and Fiction (5)
ENG 3351 Victorian Poetry and Fiction (5)
ENG 3352 The Moderns (5)
ENG 4425 Modern Poetry (5)

## American Literature

Select two courses from the following:
ENG 3235 Literature of the American Renaissance (5)
ENG 3334 American Ethnic Literature (5)
ENG 3336 The Age of Realism (5)
ENG 3337 Southern Writers (5)
ENG 3338 Contemporary American Fiction (5)
ENG 4425 Modern Poetry (5)*

## World Literature

Select one course from the following.
CLA 3014 survey of Ancient Greek Literature (5)

NG 2248 Non-Western Literature (5)
ENG 3380 African Literature (5)
EUR 3247 Classics of Eastern European Literature (5)
FRE 3205 Topics in French Literature (5) GER 3206 Topics in German Literature (5) EUR 3287 Mythology in Literature (5) PN 4401 Topics in Spanish Literature ( 3 PN 4501 Topics in Latin American Literature (3) ............... 5

## ectur

aditional courses in British, American, or World iterature listed above, and/or:
DRD 4516 Children's Books (5)
NG 1110 Literature and Faith (5)
NG 2230 Literature of the American West (5)
ENG 2234 Literature by Women (5)
ENG 3180 Advanced Grammar (3)
ENG 3206 Technical Writing (3)
ENG 3207 Business Writing (3)
ENG 3230 Young Adult Literature (5)
ENG 3301 Writing to be Read(3)
ENG 3317 Workshop in Writing Fiction (3)
ENG 4401 Creative Nonfiction (3)
ENG 4601 History of English (3)
ENG 4685 History of Literary Theory (5) ENG 4931 Writing Theory and Teaching Practice (3) RN 2101 Informational News Writing (4)
 Meets requirement in either British or American Literature, but not both.

## Requirements for a Secondary Language

## Arts Endorsement

Substitute for electives within the English major a minimum of 14 credits in the following four fields
COM 1321 Speaking Before Groups or TRE 1931 Product 1 Practicum (2) JRN 2101 Informational News Writing..... IN 2100 Foundations of Language Study (3)
or ENG 3180 Advanced Grammar (3) ..

In addition, COM 2330 Oral Interpretation, ENG 3230 Young Adult Literature, and ENG 4931 Writing Theory and Teaching Practice are strongly recommended. Note that this endorsement partially fulfills the requirements for a School of Education for additional requirements.

## 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 or its equivalent. For alternative ways of satisfying this requirement, see the general education section of the Catalog. Language 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 ancien foreign language.

## Admission to the Minors

Applicants for minors in Literature or Writing must display an average $G P A$ or 2.5 or higher $(4.0=A)$ in at least two andish courses at the 2000 level or above.

## Requirements for the Literature Minor

 ENG 2252 English Literature: Restoration
through Victorian
ENG 2253 American Literature: Beginnings to...................................................... ENG 3246 Worid Literatur

Any upper-didsion or Elective categories ......................................... Total.

This minor partially fulfills the requirements for a
upporting endorsement on a teaching credential. See the chool of Education for additional requirements.

## Requirements for the Writing Minor

( 33 Credits; 15 upper-division)
LIN 2100 Foundations of Language Study (3)
ENG 3180 Advanced Grammar (3)
ENG 4601 History of English
Select an area of emphasis:
Creative Writing emphasis
ENG 2215 Imaginative Writing (3)
ENG 3316 Workshop in Writing Poetry (3)
or Professional Writing emphasis
ENG 3206 Technical Writing ( 3
ENG 3207 Business Writing (3)
Electives*
Elective

All elective credits must be approved by the minor advisor. lectives may be selected from among courses in various
astines depenaing on the students major and career
writing must include at least ten an emphed its osis in creative lectives English majors may apply no more than ten credits of work in this minor toward their major

English Courses
ENG 0101 WRITING TUTORIAL I (2) Registration Approval: score of 2 on English Placement Test. Improves student writing of standard American English through the composition of short pacourse. Credits in this course do not apply toward graduation. ENG 0102 WRITING TUTORIAL II (2) Registration Approval: ENG 01011 or score of 3 on English Placement Test. Helps students develop writing skills and ability sufficient to place them in the introwhich students analyze and build upon pre-college-level writing habits and develop an understanding of the college essay. Credits for this course do not apply toward graduation requirements.
ENG 1004 SPELLING IMPROVEMENT (1)
Uuity for self-paced tutorial to improve spelling skill Consists of exercises, diagnostic tests and reviews. Primarily a course for
educalith
educh education students working to improve their spelling.
ENG 1101 WRITITG IN COUEGE (3) Registraion ENG 1101 WRITING IN COLLEEE (3) Registration Approval: students to skills necessary to writing in college, through reading, discussion and the production of essays and other kinds of college
writing Writing. Tutorial sessions may be required. Class not open to:

NG 1110 LITERATURE AND FAITH (5) Examines the treat ment of belief and disbelief in literature shaped by various Chris istructor may choose to focus on American British, or contempoInstryctor may
rary litarure.
ENG 2201 RE
egistration Approval ENG TEHNIQUES FOR WRITING (3) ment Test. Introduces students to traditional and electronic research resources for writing in coillege. Helps develop writing
skills while also improving information literacy through researct activities and the production of research essays. Course include much "hands-on" work with library materials and electronic reearch tools.
ENG 2215 Imaginative writing (3) Registration Approval: Instructor. Prerequisites: ENG 1101 (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.
ENG 2225 PRACTICAL CRITICISM: WRITING AND RE
EARCH (5) Prerequisite Literature WRuse or permissio-
instructor. An introduction to various contemporary approaches to he study of literature, with emphasis on scholarly research, thinkg and writing. Includes consideration of Christian approaches to CNG 2230 LITERATURE OF AMERICAN WEST (5) Explor poetry, essays, and fiction associated with the "Idea of the Wes 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.
ENG 2233 ISSUES OF FAITH IN LITERATURE-M (5) Sureys British literary history by examining how great literary artists tave treated traditional Christian themes in the Anglo-Saxon, medi eval, Renaissance and modern periods.
ENG 2234 LITERATURE BY WOMEN

tories, plays and essays written in English by study of poems, will include classic as well as rediscovered women writers, and will xamine the significant themes, the literary forms and the social | ENG 2248 NON-WESTERN LITERATURE (5) Investigates |
| :--- | selected literary works by authors from Latin America, Africa, and Asia, with particular emphasis on the contemporary period

ENG 2251 ENGLISH LITERATURE: BEGINNINGS
 veys the first three periods of English literary history: Old English, including the 8 th-century Anglo-Saxon epic Beowulf; Middle En-
glish, including Chaucer's Canterbury Tales; and English Renaisblish, including Chaucer's Canterbury Tales; and English Renais sance, concluding with milton's 17th-century Paradise Lost.
ENG 252 ENGLLSH LITEATURE: RESTORATION THROUGH VICTORIAN (5) Prerequisite: Literature course. Surveys major authors, themes, genres and movements in British Locial contexts. ENG 2253 AMERICAN LTTERATURE: BEGINNINGS TO 1900 (5) Prerequisite: Literature course. Surveys major authors, hemes, genres and themer social contexts. pproval Instructor. Introduces students to the literary and cultral landscape of the British isles. Onients students to the challenges and opportunities of traveling and studying in Britain. dddresses practical matters such as financial aid, BiQi itinerary aded pass/fail. Offered ENG 3180 ADVANCED GRAMMAR (3) This basic grammar course brings insights from both traditional and generative-transormational approaches to explain how language works. Especially designed for teachers of English, it also introduces students to and mechanical rules for generating standard American English. ENG 3206 TECHNICAL WRITING (3) Prerequisites: ENG 101 or score of $5-6$ on English Placement Test. Develops abilities technical reports, proposals, instructional manuals and technical correspondence. Emphasizes appropriate language evells $/$ syly es nd coilaborative writing. Preparation and publication of technical

ENG 3207 BUSINESS WRITING (3) Prerequisite: ENG 1101 or score or 5 -6 on English Placement Test. Develops abilities associate
with writing tasks in the business workplace, including letters, memo randa, resumes and business reports. Emphasizes appropriate tone voice and collaborative writing. Layout and physicicl preparation of
materials also addressed. Attribute: Writiny Course ENG 3230 YOUNG ADULT LITERATURE (5) Registration Approval: Instructor. A study of young adult literature, including intensive reading in the best of this literature and application of students seeking certification in middle scheool or secondary education. Offered alternate years.
ENG 3235 LITERATURE OF THE AMERICAN RENAISENG 3235 LITERATURE OF THE AMERICAN RENAIS-
SANCE (5) Prerequisite: ENG 22533 or permission of instructor SANCE (5) Prerequisite: ENG 2223 or permission of instructor.
Focuses on the first flowering of American literature in the difficull years before the Civi War. Includes works by such writers as
Emerson, Thoreau, Douglass, Hawthorne, Meville, Stowe, Whitman Emerson, Thoreau, Douglass, Hawthorne,
 course. Traces the development of and the major themes in the tradition of world literature, from the classical period through th Middle Ages and Renaissance to the modern era. Includes writers such as Wesli, Dit, Cerse Atribute. Writing Course ENG 3301 WRITING TO BE READ (3) Prerequisite: ENG 110 or score of 5 -6 on English Placement Test. Intermediate-level composition for students who have mastered the basics of college ous writing occasions. Focuses on issues in education and peda gogy. Attribute: Writing CourseClass not open to: Freshmen ENG 3316 WORKSHOP IN WRITING POETRY (3) Prerequisite: ENG 2215 and 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
apprentices to the craft. Offered alternate years.
ENG 3317 WORKSHOP IN WRITING FICTION (3) Prerequitechniques 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. expression in novel plas poms and essays of the mincitl groups who have been a part of the American people, particularly emplasising the witing of African-Americans.
ENG 3336 THE AGE OF REALSM (5) Pre
ENG 3336 THE AGE OF REALISM (5) Prerequisite: ENG 225 or permission of instructor. Focuses on the development of real-
ism 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.
ENG 3337 SOUTHERN WRITERS (5) Prerequisite: ENG 2253 or permission of instructor. Considers 20th-century novels and or permission of instructor. Considers 20th-century novels and
short stories by such writers as Faulkner, Warren, Welty, $0^{\circ}$ 'Conno and Percy. Offered alternate years.
ENG 3338 CONTEMPORARY AMERICAN FICTION (5) Prerequisite: ENG 2253 or permission of instructor. Considers the
beginning of modern fiction in the 1920 with authors such as Faulkner, Hemingway and Fitzgerald, anct then treats novels and short stories from the 1960s to the present. Offered a aternate years.
ENG 3345 THE ARTHURIAN TRADITION IN EARIY ENGLISH LITERATURE (5) Prerequisite: ENG 2251 or permission of instructor. Examines the growth of the Arthurian legend in the works of Nennius, Cildas, Geoffrey on Monmouth and
Chretien de Troyes. Also considers how the eleged flowistes in Gawain and the Green Knight and Malory's Morte d'Arthur. Offere
alternate years. 3346 LITERATURE OF THE ENGLISH RENAISSANCE (5) Prerequisite: ENG 2251 or permission of instructor. Consid followed, as seen through the works of Wyatt, spensser, Sidne Raleigh, Shakespeare, Bacon, Milton and other contemporaries. Special attention yiven to written expication of poems by Donne, Herbert and Marvell. Oifered a aternate years.
ENG 3347 18TH-CENTURY POETRY AND FICTION (5) Prerequisite: ENG 2252 or permission of instructor. Considers the varieties of litierary responses to the European Enlightenment an
changes in social, political, and religious conditions in Britain,
focusing on satire and the novel. Includes writings of Defoe, Swif
Pope, Fielding, Richardson, Johnson, and Jane Austen. Offered anternate years. 3348 ROMANTIC POETRY AND FICTION (5) Prerequi site: ENG 2252 or permission of instructor. Studies selected
of British Romantic writers, including Blake Wordsworth Coleridge, Byron, Keats, and the Shelleys. Offered alternate year ENG 3351 VICTORIAN POETRY AND FICTION (5) Prerequi site: ENG 2252 or permission of instructor. Studies the poetry of
the Brownings, Tennyson Arnold, and Christina Rosettias 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. mission of instructor. Studies the British writers who attempted to break away from traditional forms of literary expression and whose
work exemplifies the modern sensibility, including writers such as work exemplifies the modern sensibility, including writers such a alternate years.
ENG 3380 AFRICAN LITERATURE (5) Prerequisite: Literatu course. Examines the work of a variety of authors from the continent of Africa in the light of social and cultural history. Includes Works by such writers as Achebe, Coetzee, Dangaremb. ENG 3318 ASIAN LITERATURE (5) Prerequisite: Literature
course. Examines the work of predominanty
appanese authors in the course. Examines the work of predominantly Japanese authors in th
light of the country's social and cultural history Includes work by light of the country's social and cultural history. Includes works
such writers as Murasakii shikibu, Basho, Shusaku Endo, Yasunari Kawabata, Yukio Mishima and Kobo Abe. Offered alternate years. ENG 425 SENIOR LITERATURE SEMINAR (5) Prerequisite
ENG 2225 and $2251-53$ or permission of instructor. Studies the ENG 2225 and $2251-53$ or permission of instructor. Studies th
work of one or two major authors, with emphasis on scholarly research and writing. Upcoming seminars will feature John Milton William Blake, Emily Dickinson, Flannery Oíconnor and Allen Ginsberg. May be repeated for credit up to 10 credits. Attribute.
Writing Course. Class not open to Freshme WNG 4401 CREATIVE NON-FICTION (3) Prerequisite: 3000level writing course or permission of instructor. Examines the literary essay, emphasizing contemporary authors such as Diane
Ackerman, Annie Dillard and Barry Lopey "schools" such as the New Journalists and the environmental essayists; and New Journalists and the environmenta essayists; and
publications such as The New Yorker and The Altantic. Special attention will be paid to students' development as writers of non-
fiction. Attribute: Writing Course. Class not open to Freshmen fiction. Attribute.
and Sophomores. ENG 4425 MODERN POETRY (5) Prerequisite: Literature course. Concentrates on how to read, understand, evaluate and
enioy the work of major modern poets from Hopkins to the enjoy the work of major modern poets from Hopkins to the present. Special attention given to the conventions and crical
terms of poetry. Offered alternate years.
ENG 4445 SHKESPEARE (5) Preequisite: ENG 2251 or per ENG 4445 SHAKESPEARE (5) Prerequisite: ENG 2251 or per-
mission of instructor. Considers Shakespeare's comedies, histomission of instructor. Considers Shakespeare's comedies, histories, tragedies and romances while studying his art and thought in
relation to the Elizabethan background. Attribute: Writing Course 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 ing its era. Offered alternate years. Course Equivalent: LIN 4601. ing its era. Offered alternate years. Course Equivalent: LIN 4601.
ENG 4661 THE BEST OF C.S. LEWS ( 3 ) Identifies basic literary, philosophical and theological categories of Lewis' works Studies the great themes which permeate twis' literatur, through examining his major works.
ENG 4685 HISTORY OF LITERARY THEORY (5) Prerequisite: ENG 2225 or permission of instructor. Stucies the major issues and schools of literary theory in terms of their historical
development. The course is appropriate for advanced mairs. It development. The course is appropriate for advanced majors. It
provides a useful synthesis for those who might be considering graduate studies in English. Offered d alternate years.
ENG 4701 WRITING THEORY AND TEACHING PRACTICE (3) Prerequisite: 3 or 4000 -level'English course or permission of instructor. Surveys various theories of writing, with special em-
phasis on current composition theory, and investigates how these theories can be applied to the teaching of writing. Especially rec ommended to prospective Language Arts and English teachers. Attribute: Writing Course.

ENG 4900 INDEPENDENT STUDY (1-5) Registration Ap proval: Independent Study Agreement. May be repeated for credi up to 5 creedits. Class not open to: Freshmen and Sophomores. Ein Approval:IdEEENDENT STUDY ABROAD (1-5) Registradents who wish to arrange for Independent Study credit while 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 Charle Wiel iams. 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).
instructor. For advanced students who wish to assist discussion leaders, and readers in lower-division English classes. May be repeated for credit up to 6 credits. Class not open to: FNeshmen and Sophomores. 4940 COOP EDUCATION: ENGLISH INTERNSHIP (15) Registration Approval: Intern Learning Contract Req. Applies writing skills in varied employment settings; possibilities include public relations offices, newspapers, and other informational ser-
vices. 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
credits. Course Equivalent: JRN 4940 . Class not open to: Freshmen and Sophomores. ENG 4941 COOP EDUCATION: ENGLISH INTERNSHIP (1), Registration Approval: Intern Learning Contract Req. See 6 course description for EvG 4940. May be repeated for credit up to 6 credits. Course Equiva men and Sophomores.
ENG 4952 BRITISH ISLES: SPECIAL TOPICS (3)
Registration Approval: Travel Studies Fom Rexistration APproval: Travel Studdies Form. Offered in Britain. he instructors, as part of the British Isles 0 uarter determined by years.

ESL 0014, 0024, 0034, 0047, 0050 LISTENING (2,4) ESL 0057, 0058 COLLEGE COURS
OBSERVATION/SEMINAR $(2,4)$
ESL 1000 ESL CONFERENCE WRITING (4) Permission of Language Institute Director is required to register. Helps nonnative speakers of English to improve their writing through group
instruction and one-on-one conferencing. Emphasis is phaced on standard English structure, sophisticiction of vocabulary and writing stsle, and self-ediditing skills. Successful completion of ESL 1000
obligates a s sudent to take ENG 0102 and ENG 1 101. obligates a student to take ENG 0102 and ENG 1101 .
ESL 1030 ESL SKILLS DEVELOPNT (1-5) ESL 0041 and 0042 or equivalent. Permission of Language Institute Director is required to register. May be repeated for creditit 1 time COM 1000 ORAL COMMUNICATION FOR NON-NATIVE ENGLISH SPEAKERS (4) Permission of Language Institute interpersonal, and pronunciation skills necessary for active participation in a college classroom
For further information about these courses and an sions may be sent directly to the Language Institute at (206) $281-2076$.

English as a
second Language European Studies Family and

## European Studies

See Languages section.

## Family and Consumer Sciences

## English as a Second Language (ESL)

THE A.C.E. LANGUAGE INSTITUTE (A.L.I.) The Language Institute offers English as a second language llasses to foreign students and American non-native speakers of English. Completion of level 6 with grades of A requirement. Both SPU and non-SPU students may take anguage 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, 5 week multilevel program which is designe intensive, 5 week, multilevel program which is designed to colleges and universities.

## English as a Second Language (ESL)

 on-native speakers of English who need assistance in eveloping their English skills or in orientation to American culture may register for courses through the LanguageInstitute. With the exception of ESL 1000 ESL 1030 and Insitute. With the exception of ESL 1000 , ESL 1030 and
COM 1000, courses 0011 thorough 0071 shown below are pplicable toward a degree at SPU Placement in there not courses is determined by testing through the Languag Institute.
ESL 0011, 0021, 0031, 0041, 0051 READING (2,4) SL 0013, 0022, 0032, 0042, 0052, 0068 WRITING $(2,4)$ OMMUNICATION SKILIS ( 2,4 ) 0006,0069
arbara Bovy, Director, Evette Hackman, Sandra fartie, Sharleen Kato, Gaile Moe, Stella Warnick 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, tamil and from these disciplines, family and consumer sciences offers
solutions to problems faced by individuals, fanilies, and solutions to problems faced by individuals, families, and and consumer science courses highly useful and challenging as a supplement to their own discipline.
The purpose of studying family and consumer sciences is to prepare students to work with people in a professiona capacity. Through a broad base of core competencies and re effectively prepared to enhance the quality of people's lives by promoting well-being, and providing material goods and needed services.
The program provides a strong undergraduate background for those students wishing to attend graduate school. Practicum and internship experiences are availab business, public service, and government and are an

## Requirements for the Majors

A variety of degree programs are available in family and consumer sciences, each built around a common core courses designated as the core curriculum. Students select a major from the options offered and these courses are
taken concurrently with the core curriculum. Of the total 25 credits must be upper-division. Two degrees are natural science disciplines. All students desiring deg family and consumer sciences must meet the department's requirements for major status ( 2.5 GPA in the FCS courses and 2.8 for Dietetics) and be approved as majors by the department's faculty.

Introductory Nutrition, an option in the FCS Core Curriculum, can be found in the Catalog and Time Schedule Additional courses may be required within each of majors to meet individual career goals. Related courses strongly recommended for a B.A. or B.S. degree include those in communication, journalism, and economics.
Core Curriculum Required for All Majors in Family and Consumer Sciences (17-22 Credits) $\qquad$
$\qquad$
Family and Consumer Sciences
"My task is to provide and integrate practical knowledge about the life - food and nutrition; human growth and development; housing and environment; apparel and textiles - that every individual needs
live a healthy productive life,

Sharleen Kato Family and Consumer Sciences

Select one course from the following:
BIO 1100 Biological Science: Human Nutrition (5)
FCS 2365 Food Science (5)
FCS 2385 Food and the Consumer (3)
Select one course from the following:
FCS 2830 Textiles for the Consumer (5)
FCS 3870 History of Costume (5) FCS 3870 History of Costume (5)
FCS 4911 Current Issues in Clothing and Textiles (3) $3-5$ FCS 3220 Child Development (3)
or FCS 4240 Family Relations
FCS 3410 Individual and Family Finance (4)
or FCS 3460 Family Resource Management (3) * FCS 4630 Foundations and Contemporary Issues ................... ${ }_{*}$ Toprerequisisite................

Additional courses by advisement may include FCS 4930 Family and Consumer Sciences Practicum ........ 1-5 or FCS 4940 Internship

## Elementary Family and Consumer Science

 Education(49-52 credits; 25 upper-division)
FCS 1050 Professional Perspectives ............................... 2 BIO 1100 Biological Science: Human Nutrition
$\qquad$
FCS 1710 Design Fundamentals
or FCS 2702 Introduction to Interior Design (2) .......... 2-5
 FCS 3220 Child Development. FCS 3385 Food and Culture (3)
or FCS 3710 Family Housing
FCS 3410 Individual and Family Finance
FCS 3460 Family Resource Management
FCS 3564 Presentation Skills.
FCS 3875 Clothing and Human Behavior FCS 4240 Family Relations
FCS 4250 Strategies in Early Childhod FCS 4511 Family Consumer Sciences Teaching Methods ..... FCS 4630 Foundations and Contemporary Issues ................
-5 Secondary Family and Consumer Science Education
(Meets state requirements for vocational certification)
( 67 credits; 25 upper-division)
FCS 1050 Professional Perspectives
BIO 1100 Biological Science: Human Nutrition (5)
or FCS 2385 Food and the Consumer (3)
FCS 2252 Marriage and the Family
FCS 2365 Food Science
FCS 2702 Introduction to Interior Desig
FCS 2830 Textiles for the Consumer
FCS 3220 Child Development
FCS 3365 Food Management and Economic.
FCS 3410 Individual and Family Finance
FCS 3460 Family Resource Management
FCS 3710 Family Housing ....
FCS 3712 Residential Technology.........
FCS 3875 Clothing and Human Behavior
FCS 4240 Family Relations
FCS 4250 Strategies in Erly ............
 FCS 4512 Vocational Aspects ............................................... Total ............................................................. 69

## Vocational Certification

SPU is an approved institution for vocational certification of family and consumer science teachers in middle, junior, an high school family and consumer science programs. In addition to secondary course requirements, students must meet first aid certification.

## Second Endorsement in Family and

 Consumer SciencesA second endorsement can apply toward, but does not fulfill state reguirements for secondary placement with vocationa certification. A second teaching endorsement in family and consumer sciences requires a minimum of 24 credits in foir specialization areas: family relations, child growth and development, nutrition, consumer education or resourc Department of Family Consumer Sciences.

## GENERAL FAMILY AND CONSUMER SCIENCES

 ( 65 credits)A minimum of 45 credits in family and consumer sciences is required. Wenty credits of business and communication between the specialization and the core
[See page 42 or 49 for a summary of degree requirements]
amily and consumer sciences core .............. 17-22 Business and communication courses ................ 20 Specialization courses..
Select at least $23-28$ credits, including at least one course from each of the following areas:
Apparel and Textiles
FCS 1840 Basic Clothing Construction (3)
FCS 2820 Fashion Merchandising (3)
FCS 2830 Textiles for the Consumer (5)
FCS 2830 Textiles for the Consumer 3830 Textile Applications (3) ${ }^{*}$
CS 3870 History of Costume (5)
FCS 3875 Clothing and Human Behavior (3)
CS 4911 Current Issues in Clothing and Textiles (3)
Food Science
FCS 2365 Food Science (5)
FCS 2375 Food Production and Management (5)
FCS 3365 Food Management and Economics (5)
FCS 3366 Advanced Food Science (3)*
FCS 3385 Food and Culture (3)

## Human Nutritio

BIO 1100 Biological Science: Human Nutrition (5)
FCS 3320 Maternal and Child Nutrition (3)*
FCS 3340 Human Nutrition (3)*

## Family Relations

FCS 2222 Marriage and the Family (5)
FCS 3220 Child Development (3)
FCS 4240 Family Relations (3)
FCS 4250 Strategies in Early Childhood (3)
Housing
FCS 2702 Intro to Interior Design (2)
FCS 3710 Family Housing (4)
ology (3) *
Professional Development
FCS 3564 Presentation Skills (4)
or ENG 3207 Business Writing (3)
or ENG 3207 Business Writing (3) $\qquad$ 23-28
*By advisement; prerequisites
lexibility within the general track will allow the student to focus on child and family studies or consumer relations hrough a student-designed major. A 3.0 GPA is required prior to submitting an application for the student-designed irst quarter of a student's junior year. All student-design majors are required to complete a minimum of 40 credits in amily and consumer sciences courses, and a maximum of 70 credits in the major.

## Food and Nutritional Sciences Major

85-127 Credits)
he B.S. degree is offered in Food and Nutritional Sciences. All majors must take the family and consumer sciences co
and the required courses plus one of the areas of study. Dual counting is not allowed between the specialization and the family and consumer science core.
[See page 42 or 49 for a summary of degree requirements]
Required courses
FCS 2365 Food Science.....
FCS 3340 Human Nutrition
利
CS 3365 Food Management and Economics
CS 3366 Advanced Food Science
FCS 4330 Advanced Nutrrition*
FS 4364 Food Preservation, Safety and Technolo..............
BIO 2129 Anatomy and Physiology
BIO 2130 Anatomy and Physiology
BIO 3351 General Microbiology*
One of the two Chemistry groups
CHM 1211 General Chemistry (5)
CHM 1330 General Org/Biochem (5)
CHM 1211 General Chemistry (5)
HM 2371/2372 Organic Chemistry (10)*
CHM 436
Select one of the following areas of study:

## Food and Nutrition

CS 2375 Food Production and Management $\qquad$ $\begin{array}{r}-(. . . . . \\ \hline \\ \hline\end{array}$
FCS 3325 Food Production and Manage
FCS 3320 Maternal and Child Nutrition................................. 3
FCS 3564 Presentation Skill s...............................
FCS 4350 Community Nutrition and Education ..................... 4

## Dietetics Specialization <br> CCT 2361 Financial Accountin

ACCT 2361 Financial Accounting.....................
FCS 2375 Food Production and Management
FCS 4340 Medical Nutrition Therapy ${ }^{*}$.....
FSS 4350 Community Nutrition and Education *
SC 4044 Biomedical Tests, Measurements and
or SOCPSSY 2360 Introduction to Statistics in Social and
Behavioral Sciences (5)
or MAT 1360 Introduction
OC 4308 Relationship Theory and Skills (5) $\cdots$
Total
Sports and Exercise Specialization
FCS 3320 Maternal and Child Nutrition..
CS 4310 Nutrition in Sports and Exercise
FCS 4340 Medical Nutrition Therapy *..............
FCS 4350 Community Nutrition and Education
FCS 4350 Community Nu
PE 3580 Exercise Physiology *
PE 3590 Sport Injury Management
${ }^{\text {PE }} 4585$ Exercise Science Seminar ${ }^{2}$
HSC 4044 Biomedical Tests, Measurements and
Statistics $(5)$
Statistics (5)
or SOC/PSY 2360 Introduction to Statistics in Social and Behavioral Sciences (5)
 * Prerequisites

It is strongly advised that all food and nutritional sciences majors complete the prerequisite courses in chemistry and biology before their junior year.
Dietetic training: The dietetics specialization in the food and nutritional sciences major is currently granted approval and nutritional sciences major is currently granted approva by The American Dietetic Association, Council on Education,
division of Education Accreditation/Approval, a specialized accrediting body recognized by the Council on Postsecondary Accreditation and the United States Department
of Education. The dietetics specialization is referred to as a of Education. The dietetics specialization is referred to as a
Didactic Program in Dietetics. A GPA of 28 and a C or better Didactic Program in Dietetics. AGPA 1.8 and a Cor bett A graduate of SPU with a dietetic specialization is eligble to apply for a dietetic internship or preprofessiona
practice program (AP4) at another institution. After the
dietetic internship or AP4, the student is "RD Eligible." Th student can then take the registration examination. When the exam is passed, the student becomes a Registered Dietitian.

## 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. All majors must take the family and consumer sciences core. Dual counting is not allowed
between the specialization and the family and consumer science core. Students can select from textiles and clothin or interior design.

## Textiles and Clothing Specialization

(744-75 Credits)
(See page 42 or 49 for a summary of degree requirements) Family and consumer sciences core .............................. 1. General requirements for Clothis
FCS 3820 Merchandise Planning \& Inventory Control*
FCS 4820 Apparel Retail Management* ACCT 2361 Financial Accounting.
ECN 2101 Fundamentals of Econo
BUS 3541 Marketing and Society BUS 3828 International Busines

## Apparel Design Emphasis

ART 1102 Drawing Studio
ART 3112 Drawing Studio - Figu
FCS 3841 Apparel Dratting
FCS 3843 Intro to AutoCAD
FCS 4840 Apparel Design and Draping
FCS 4841 Advanced Problems in Apparel Design*
FCS 4843 CAD Applications in Apparel Des
FCS 4842 Children's Wear Design (3)
 *Prerequisites

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 the FIT option must be accepted into the major and work closely with their advisor in selecting courses which best prepare them for their chosen major. Specializations offered through the liaison program with FIT include: Accessories design, advertising and communication, design, fashion buying and merchandising, jewelry design textile/surface design, or textile development and marketing.

## Interior Design Specialization

( $85-92$ credits)
see page 42 or 49 for a summary of degree requirements/ Family and consumer sciences core ......................... 12-1 FCS 2702 Introduction to Interior Desi
FCS 2830 Textiles for the Consumer
FCS 3710 Family Housing
FCS 3830 Textile Applications *
FCS 3843 Introduction to AutoCAD
FCS 4730 Interior Design Resources and Material
FCS 4743 CAD Applications in Interior Design *
FCS 4940 Internship
cial Accounti
ART 1102 Drawing Studio
or ART 1103 Drawing Studi
ART 1202 Design Studio
ART 1204 Design Studio
ART 3217 Advanced Design-In.............
ART 3604 History of Renaissance Art
or ART 3607 History of American Art
 ART 4215 Advanced Design II-Commercial Interiors**........... 3 ART 4236 Portfolio
Select one of the following:
BUS 3541 Marketing and Society (5)
BUS 3544 Advertising (5)* 3545 Sales and Sales Management (5)*
BUS 3614 Organizational Behavior (5)
BUS 4417 Business Ethics (5)
or BUS 3631 Entrepreneurship (5)**.......................... CSC 1115 Introduction to DOS Application
Select one of the following:
ENG 32007 Technical Writing (3)*
FCS 3564 Presentation Skills (4)
${ }^{\text {Total............... }}$
Some of the above courses may also fulfill general education and/or FCS core requirements.

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 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.

## equirements for the Minors

Three minors are offered: Family and consumer sciences ood and nutritional sciences, and textiles and clothing. A minimum of 30 credits in family and consumer sciences, ncluding 15 upper-division credits, are required for each of the three minors.

Minor in Family and Consumer Sciences
elect at least one course from each area for a minimum o 30 credits:

BIO 1100 Biological Science: Human Nutrition (5) CS 2365 Food Science (5)
FCS 2382 Food and the Consumer (3)
FCS 3365 Food Management and Economics (4)* CS 3385 Food and Culture (3)
2. FCS 2820 Fashion Merchandising (3)
FCS 2830 Textiles for the Consumer (5)

FCS 3870 History of Costume (5)
FCS 3875 Clothing and Human Behavior (3)
3. FCS 2252 Marriage and the Family (5)

FCS 3220 Child Development (3) FCS 4240 Family Relations (3)
FSC 3211 Strategies in Early Childhood (3)*
4. FCS 3410 Individual and Family Finance (4)
5. FCS 2702 Intro to Interior Design (2)

FCS 3710 Family Housing (4)
FCS 3712 Residential Technology (3)* CS 4730 Interior Design Resources and Materials (4)*

* Prerequisites

Minor requirements do not meet educational certification requirements for vocational certification for secondary famil
and consunier science education teachers grades $9-12$.

## Minor in Food and Nutritional Sciences

 (30 Credits)
CS 3320 Maternal and Child Nutrition
CS 3340 Human Nutrition* $\qquad$
4330 Advanced Nutrition* $\quad . . . .{ }_{-\cdots}$.................................
 Select a minimum of 7 credits from the following additional courses to obtain a total of 30 credits:
FCS 2375 Food Production and Management (5)* 3365 Food Management and Economics (4)*
'CS 3365 Food Management and Economics (4)*
FCS 4310 Nutrition in Sports and Exercise
CS 4340 Medical Nutrition Therapy (5)*
FCS 4350 Community Nutrition and Education (4)*
${ }_{\text {FCS }} 4930$ Family and Consumer Sciences Practicum (1-5)..7

## Minor in Textiles and Clothing

## ( 30 credits)

FS 1840 Basic Clothing Construction
FCS 2820 Fashion Merchandising.
FCS 2830 Textiles for the Consumer
FCS 3870 History of Costume.
FCS 3875 Clothing and Human Behavior
FCS 9911 Current Issue...........
CS 4911 Current Issues in Clothing and Textiles
elect a minimum of 8 credits from the following addition.................
CS 3820 obtaina total of 30 credits:
CS 3830 Textile Appligations (3)* ${ }^{*}$.
CS 3840 Flat Pattern Design (3)*

FCS 3841 Apparel Drafting Applications (3)
FCS 3342 Apparel Production Systems (5)
FCS 4820 Apparel Retail Management
FCS 4840 Apparel Design Through Draping (3)*
FCS 4841 Advanced Problems in Design (5)*
FCS 4845 Tailored Garment Production (3)* FCS 4850 Retail Advertising Systems (5) Total...............

Family and Consumer Sciences Courses FCS 1050 PROFESSIONAL PERSPECTIVES (2) Introduces science profession to telelp studentsts discover special interests, caree potential and set academic goals. Class not open to: Seniors. FCS 1204 DESIGN STUDIO (3) Applies the elements. and principles of the visual arts to projects in a variety of media emphasizing
practical interior design problems. Course Equivalent: ART 1204. FCS 1301 WELLNESS (3) Examines lifestyle decision making, presents basic knowledge on concepts of heaith 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. Course Equivalents: PE 1301 and HSC 1301 .
FCS 1710 DESIGN FUNDAMENTALS (5)
thetic aspects of the individual's near environment. Explores basic principles and elements of design as they relate to fine arts and
applied design (urban, interior, advertising and industrial design) applied design (urban, interior, advertising and industrial design) An important focus of the class will be the study of creative
thought processes and exploration of strategies forenhancing creative abilities.
FCS 1810 SURVEY OF APPAREL INDUSTRIES (3) Surveys the designing, production, merchandising, marketing and promo-
tion of apparel goods and examines the interrelationships of eac level of the fashion industry. Career options within various areas of the industry are discussed in lecture and explored through hared expertise of guest spea 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 requirec by the beginning sewer who wishtes ta 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 demonstration. May be repeated for credit 1 time. FCS 2252 MARRIAGE AND THE FAMILY (5) Surveys the lamily as an institution and a mode for personal hiring: marital adjust 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 chemical and physical properties. FCS 2375 FOOD PRODUCTION AND MANAGEMENT (5) Prerequisite: FCS 2365. Surveys the organization, management and cost control of food service operations. Includes laboratory expeFCS 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 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 (2) FCS 2702 INTRODUCTION TO INTERIOR DESIG (2) Prerequisite: FCS 1710 . Examines elements and principles of dean overview of the interior design field.
FCS 2820 FASHION MERCHANDISING (3) Presents an over view of the background, structure and ever-changing world of fast-
ion buying and merchandising Students will and skiills for effective development in visual merchandising

Family and
Consumer Sciences
buying, sales, profit development and motivation. Students will be relation to those required for successful performance in merchandising, essential for anyone pursuing a career in fashion merchandising. ${ }^{\text {FSCR } 2830 \text { TEXTLLES FOR THE CONSUMER (5) Study of }}$ textiles fom reated to durability comfort, care and aesthetics. Sur vey includes natural and man-made fibers, yarns, fabric constructions, dyes and finishes. Provides laboratory experience in areas FCS 3220 CHILD DEVELOPMENT ( 3 ) Andyze factors that affect development of the child physically, emotionally, socially and aftect development of the child physicaly, emotionaly, socially and society on the child.
FCS 3320 MATER nutrition or anatomy and physiology course recommended Studnutrition or anatomy and physiology course recommended. Studnancy; nutritional needs during lactation, fundamentals, of infant nutrition and influence of nutrition on growth, dev
behavior during infancy, childhood and adolescence
FCS 3340 HUMAN NUTRITION (3) Prerequisites: BIO 2130 and CHM 1330. Presents essentials of adequate diets and food sources of the nutrients; meeting nutritional needs throughout th lifespan; nutritional composition of foods in relation to normal
modified diets.
FCS 3365 FOOD MANAGEMENT AND ECONOMICS (4) FCS 3365 FOOD MANAGEMENT AND ECONOMICS (4) Prerequisites: FCS 1310,2365 or permission of instructor. Survey
the effect of nutrition, budget aesthetics and resources in the effect of nutrition, budget, aesthetics and resources in menu ence in buying and time management.
FCS 3366 ADVANCED FOOD SCIENCE (3) Prerequisites: CHM 1330 and FCS 2365 . Examines food structure, food chemistry entific lab write-ups for food research.
entifif lab write-ups for food research.
FCS 3385 FOOD AND CULTURE (3) Prerequisite: Junior standing or permission of instructor. Explores how the foodways
of individuals in different cultures evolved. Evaluates the nutiof individuals in different cultures evolved. Evaluates the nutri-
tional, economic and aesthetic properties of food from various cultures. Examples are prepared. Attribute: Writing Course. Class not open to: Freshmen and Sophomores
FCS 3410 INDIVIDUAL AND FAMIL
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 consump tion decisions, consumer redress and ethical behavior in the marketplace. consumer movement in the United States, including past and present impacts on business and the individual consumer. Relate and emphasizes the need to pather and evaluate and emphasizes the need to gather and evaluate
information. Provides an understanding of the social, psychological, economic and legal influences on consumer choices.
FCS 3460 FAMIIY RESOURCE MANAGEMENT (3) FCS 3460 FAMILIV RESOURCE MANAGEMENT (3) Prerequsites: FCS 320,$3410 ; 4240$ recommended. Emphasis 1 s on a
tems approach to resource management within the family ecosystem. Includes strategies for maximizing management influences on individuals and families at varying stages of the lirecycle and socioeconom FCS 3564 PRESENTATION SKILLS (4) Prerequisites: FCS 1310 or 2365 or 3340 , and 3875 or equivalent. Provides opportunit for demonstration theories involved in all areas of family and constration method.
FCS 3711 FAMILY HOUSING (4) Survey of family housing in FCS 3710 FAMILY HOUSING (4) Survey of family housing in
relation to needs, processes and alternatives; buying versus rent relation to needs, processes and alternatives; buying yersus rent-
ing; policy, economic and other variables; and constraints affecting ing; policy, economic and other variables; and
housing decisions. Atribute: Writing Course.
FCS 3712 RESIDENTIAL TECHNOLOGY (3) Prerequisites: ART 1204 and FCS 2702. Survey of equipment and technoquogical systems in a residential environment. Emphasis on consumption human considerations in kitchen planining and appliance design.

FCS 3714 ADVANCED DESIGN-INTERIORS (3) Prerequisite. FCs to practical problems in interior design. Course Equivale ART 3217. Class not open to: Freshmen and Sophomores. FCS 3820 MERCHANDISING PLANNING AND INVENTORY CONTROL (3) Prerequisite: FCS 2820. Covers specifics of 6month planning, open-to-buys, inventory turns, stock sales ratio
and gross marin. Class not open to: Freshmen and Sophomores. FCS 3830 TEXTILE APPLICATIONS (3) Prerequisites: FCS 2830, 2831. Surveys the textile industry including the domestic market, texalie evelopient and lesting. Explores the sourcing and purchasing of textiles and the structure and organizations.
the industry. Independent study on specific textile processes.
Class not open to: Freshmen and Sophomores.
FCS 3840 FLAT PATTERN DESGGN (3) Prerequisites: FCS
1840 and 3842 or permission of instructor Examines the qualities 1840 and 3842 or permission of instructor. Examines the qualitie they apply in the design of apparel which is attractive to the human form. Principles of design will be studied as they relatet to apparel
and the needs of the individual. Flat pattern techniques will be and the needs of the individual. Flat pattern techniques will be reflect creativity, individuality and beauty. Sophomores may register with permission of Instructor. Class not open to Freshmen. FCS 3841 APPAREL DRAFTING APPLLCATIONS (3) Prereq-
wisites: FCS 3840,3842 . Presents the techniques of developing uisites: FCS 3840,3842 . Presents the techniques of developing
basic patterns from personal measurements. Advanced drafting techniques will be taught, including coats, suits, pants and comple designs. Illustration and presentation skills for effectively preFCS 3842 APPAREL PRODUCTION SYSTEMS (5) Prerequisite: FCS 1840 or permission of instructor. Development of clothing construction technicues and pattern engineering skills employed in the production of apparel which fulfills standards of
function, aesthetics, comfort and durability. Provides knowledge function, aesthetics, comfort and durability. Provides knowledge found in the ready-to-wear industry.
FS 3843 INTRODCTION TO
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 scommands will be taught through lectures and hands-on training at individual computer terminals using Auto CAD software. Students will
be required to perform a aeries of computerized drawings and to be required to perform a series of computerized drawings and to
complete a final drawing project. Class not open to: Freshmen and Sophomores. Class open to: Undergraduate level.
FCS 3870 HISTORY OF COSTUME (5) Studies textile and costume designs of civilizations from the ancient to present day. Social, economic and poiticical actors of various periods and theirs
ence on evolution of costume is a major emphasis. Integrates costume with various arts: painting, sculpture, drama, music. Attribute Writing Course. Class not open to: Freshmen and Sophomores.
FCS 3875 CLOTHING FCS 3875 CLOTHING AND HUMAN BEHAVIOR (3) Studie the sociological, psychological, cultural and physical factors whic
influence clothing behavior. Analyzes the relationship between clothing choices and the political, economic and moral climate of an era. Includes selected reading from several disciplines. Class not open to: Freshmen and Sophomores.
FCS 4240 FAMILY RELATIONS ( 3 ) Studies the role of families in establishing a home environment which provides for the physi--
cal emotional intellectual and social development of all family cal, emotional, intellectual and social development of all family
members including decision making elements probl members inc adify iec making elements, problem solving FCS 4250 STRATEGIES IN EARLY CHILDHOOD (3) Preerequisites: 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 an participant. Impetementation and vallation of modets, mettiods an
materials relevant to programs for children in pre-school, day-care centers and kindergarten. 30 hours of laboratory experience required. Class not open to: Freshmen and Sophomores. Prerequisites: CHM 1330, BIO 2130 and FCS 3340. Discusses basic nutritional principles: the role of the six major nutrient groups in physical performance; energy metabolism and exercise; and spe-
cial concerns with dietary considerations relative to performance Current readings on controversial issues.

FCS 4330 ADVANCED NUTRITION (4) Prerequisites: CHM 1330, BIO 2130 and FCS 3340 . Expanded discussion of nutrient interrelationsalth, maintenance. Research of recent advances and controversia issues in human nutrrition. Atrribute: Writing Course FCS 4340 MEDICAL NUTRITION THERAPY (5)
Prerequisites:FCS 2365,3340 , BIO 2130 and CHM 133
Prerequisites:FCS 2365,3340 , BIO 2130 and CHM 1330 or 4362 . This course presents nutrition as a factor in the treatment and preven-
tion 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 preto: Freshmen and Sophomores.
FCS 4350 COMMUNITY NUTRITION AND EDUCATION (4) Prerequisites: FCS 3340 or 4310 or permission of instructor. C dimensional nature of nutrition problems and programs designe o solve them; communicating with people in clinical and commu nity settings; application of learning theory and methods of behav FCS 4364 FOOD PRESERVATION, SAFETY AND TECHNOL oGY (5) Prerequisite: FCS 2365. Explores scientific principles of oood preservation, sensory evaluation of food and food safety. Nee ood products, food additives, use of biotechnology, food safety, and food laws and regulations are discussed. Projects in food pres-
ervation, product development, nutrient data base application and food evaluation are conducted. Attribute: Writing Course.
FCS 4511 CURRICULUM AND EVALUATION IN FCS EDU FCS 4511 CURRICULUM AND EVALUATION IN FCS EDUand Phase I. Explorese methods (scope and sequence) of teaching and Phase . Explores methods (scope and sequence) of teaching understanding, development and organization of the subject conAttribute: Writing Course.
FCS 4512 VOCATIONAL ASPECTS AND FAMILY CONSUMER SCIENCE EDUCATION (3) Prerequisite: Phase Identifies philosophy and mission of vocational education and
explores methods of planning and implementing a program that explores methods of planning and implementing a program that
meets the established standards and criteria for a vocationally approved Family and Consumer Sciences Program. Class not open to: Freshmen and Sophomores.
(3) Pre 630 FOUNDATIONS AND CONTEMPORARY ISSUES (3) Prerequisite: Family and Consumer Science major with senior
standing; juniors may register with permission of instructor Examines history, philosophy and cultural values as they relate to the
mission and goals of the family and consmer scince discintine mission and doals of the family and consumer science disciplip
and profession and to each FCS specialization public policy issues affecting families. Identifies managemen abilities for planning and inplementing professional goals. Class not open to: Freshmen and Sophomores.
ALS (4) Prerequisitec ART 1204 RESOURCES AND MATER sources and materials used in interiors and their functional a aesthetic relationship to interior design. Class not open to: FreshFCS 4743 CAD APPLICATIONS IN INTERIOR DESIGN (4 8) Registration Approval: Instructor. Prerequisites: ART 3217, CSC D) of computer-aided design and drafting to to interior decigignes and exposure to third-party interior design software. May be repeated
for credit up to 8 credits. Class not open to: Freshmen and Sophomores. Class open to: Graduate level and Undergraduate level.
FCS 4820 APPAREL RETAIL MANAGEMENT (3) PreequiFCS 4820 APPAREL RETALL MANAGEMENT ( 3 ) Prerequisite: FCS 2820. Includes hiring, scheduling, selling costs, de
ment presentation and special events. Class not open to: Freshmen and Sophomores.
FCS 4840 APSAREL DESIGN THROUGH DRAPING (3) Pre-
requisites: requisites: FCC 3340 and 3842 or permission of instructor. Focuse on acquiring the skills necessary to develop apparel designs by
using techniques of draping material on the human form. Prin using techniques of draping material on the human form. Prin-
ciples of design will be studied and applied in the production o attractive apparel designs that are in harmony with the current

FCS 4841 ADVANCED PROBLEMS IN APPAREL DESIGN (3-6) Registration Approval: Instructor. Prerequisites: FCS 3840,
4840. Explores creative development of apparel design collections To meet functional and aesthetic needs of indivicuals, and covers visual presentation of design ideas through portfolios, displays and choreographed presentations. May be repeated for credit up to 6
credits. Class open to: Family \& Consumer Science majors. Class not open to: Freshmen and Sophomores. Class open to: Graduate
level and Undergraduate level.
FCS 4842 CHLDRENS WEAR DESIGN (3) Explores design
considerations in cridren's apparel by evaluating confort care considerations in children's apparel by evaluating comfort, care aestheic and durabiity factors. Industry professionalas wil con-
tribute toward the student's knowledge base. Students will design and partially construct a children's wear line or conduct a market FCS 4843 CAD APPLICATIONS IN APPA RCS 4843 CAD APPLICATIONS IN APPAREL DESIGN (3-6) 4440 or FCS 4841 . Students in apparel design and merchandising will learn to use Autto CAD and secondary software to acquire knowledge and skills necessary to design and grade patterns, and
to develop rendering skills to more effectively communicate visual concepts. This course will prepare students with the computeraided skills required by the apparel industry. May be repeated for credit up to 6 credits. Class not open to: Freshmen and Sopho mores. Class open to: Graduate level and undergraduate level.
FCS 4845 TALLORED GARMENT PRODUCTION (3) Prerequisite: FCS 2840 or permission of instructor. Provides knowledge and skills necessary to produce tailored garments of the quality
ound in the ready-to-wear industry including altering and fitting of cound in the ready-lowear industry, including altering and fitting of niques and their affect on the aesthetics and function of final garments. Class not open to: Freshmen and Sophomores.
FCS 4850 RETAIL ADVERTISING SYSTEMS ( 5 ) Includes management of advertising, publicity and non-personal selling management of advertising, publicity and non-personal selling
activities; visual merchandising or display and special events that activities; visual merchandising of display and special events that ot open to: Freshmen and Sophomores.
ICS 4900 INDEPENDENT STUDY ( 1.
proval: Independent Study Agreement (1-3) Registration Ap proval: Independent Study Agreement. Prerequisites: Senior
tanding and a " B average in Family and Consumer Science str ies. May be repeated for credit up to 6 credits. Class not open to FCS 4911 CURRENT ISSUES IN CLOTHING AND TEX TILES (3) Study of factors affecting production, distribution and consumption oftextiles and clothing in American and international ountries. At FCS 4930 FAMILY AND CONSUMER SCIENCE PRACTICUM (1-5) Provides an opportunity to gain practical experience related to previous course work in the major field in supervised teaching,
grading, laboratory preparation and/or tutoring. Specific arrangegrading, laboratory preparation and/or tutoring. Specific arrange count for major. May be repeated for credit up to 6 credits. Class not open to: Freshmen and Sophomores.
FCS 4931 PRACTICUM IN DESIGN P FCS 4931 PRACTICUM IN DESIGN PRODUCTION (1-5) Regis ration Approval: Instructor, Practica application of coordibe repeated for credit up to 5 credits.
CS 4940 INTERNSHIP Learning Contract Req. Prerequisitess " B " averagee: junior standpation in employment. Work experience planned in advance with pation in employment. Work experience planned in advance with
he instructor. May be repeated for credit up to 10 credits. Clas
not open to: rreshmen and Sophomores.

## Film

See Theatre section
amily and
onsumer Sciences
Film

## Fine Arts

(Interdisciplinary courses)
FPA 1101 ARTSCAPE (3) Provides an overview of arts and the values they reveal; explores the relationship between art and daily 1111. Class not open to: Juniors and Seniors.

FPA 1111 SEATTLE ART SCENE (2) Encourages participation arts. Includes attendance at galleries, films, concerts, plays, othe special events in the Seattle area. Extra fees required for events, collected in class. Concurrent enrollment in FPA 1101 is recommended, but not required. Corequisite: FPA 1101. Class not ope FPA 3101 ARTS IN AMERICAN CULTURE (3) Explores how the arts help us understand our private and public culture; empha sizes how art effects the development of individual and collective
identity, explores maior art works in the Western and American tradition; develops skills in writing about art. Corequisite: FPA 111. Class not open to: Freshmen.

FPA 311 SEATTLE ART SCENE (2) Explores the rich tradiconcerts, plays, and other special events in the Seattle area. Stuconcerts, plays, and other special events in the seatte area. Stu-
dents will develop individual WEB sites as part of course work. Extra fees are required for events; collected in class. Concurrent 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 nity to plan and implement a group worship experience using the arts as an integral part of the course. Attribute: Writing Course. Class not open to: Freshmen and Sophomores

## Food and Nutritional Sciences

See Family and Consumer Sciences section.

## French

See Languages section.

## General Studies

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 a SPU GPA of 2.5 . Seventy-five credits selected rom three disciplines related to the student's degree rationale and a major contract are required and must be submitted to Student Academic Services for review by cademic departments. At least 20 credits, but not over 35 redits must be upper-division No srade below a C-will apply to the major. For more information contact Indergraduate Academic Counseling in Student Academic Services at (206) 281-2021.

General Course
The following General Studies courses focus on learning skills and student leadership development, with the exception of GS 1005 which is designed specifically for international students. signed to assist students in develop COLLEGE (2) Class is demanagement strategies and positive self confidence academically and jersonally. Special emphasis is placed on maximizing note-
taking textbook reading and exam performance skills. Also,stutaking, textbook reading and exam performance skills. Also, stu-
dents learn how to understand and utilize their learning style and to communicate in written and oral expression.
GS 1002 Toors FOR CRITICAL THNTI
GS 1002 TOOLS FOR CRITICAL THINKING (2) Class em. phasizes key skills necessary to analyze and synthesize academic
information. Students practice writing and oral communication skills necessary to college and professional performance. In addi tion, students conduct research and utilize echnology for inform tion 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 for international students only to provide an opportunity
for discussion and exploration of American values social issues for discussion and exploration of American values, social issues
and religion. Extra fee. May be repeated for credit up to 3 credits and 2001 CAREER EXPLORATION AND PLANNING (1) As-
sists students in exploring career options and developing a caree plan. Activities and course assignments will be interactive and include self and career exploration, identification of career op-
tions, informational interviews, identifying career mentors, and self-presentation skills. May be repeated for credit 1 time. GS 2101 BASIC SKILLS I IS LEARNING RESSURCES (2) Teaches the basic skills of library research and explores subject
specialized approaches, includuing computer searching of bibliographic datatapases and audio-visual equipment operation.
GS 2306 TUTORING (1)-Registration Approval: Instructor. May
GS 2400 STUDENT LEADERSHIP/SERVICE I (3) A preservice course offered winter quarter. It is highly recommended for all students applying for or seeking leadership responsibilitites in clubs, organizations, campus ministries, residence life, or ASSP. The theory, and principles of community development and service. GS 2930 STUDENT LEADERSHIP ORIENTATION (1) A one credit orientation is required for newly elected and selectets stu-
dent leaders. 1 is normaly held on a weekend during Spring dent leaders. It is normally held on a weekend during Spring quar-
ter to provide an overall perspective on leadership responsibilities ter to provide an orerall
and university resources.
GS 2931
GS 2931 ITYDENT LEADERSHIP PRACTICUM (1-3) Regis tration Approval: Instructor. By arrangement with instructor. An
opportunity for students to interrate leadership experiences. opportunity for students to integrate eadership experiences
through reading and reflection projects with support and supervision from a student life professional. May be repeated for credit up to 3 credits. Class not open to: Freshmen. ADVISOR (PA) ( $1-2$ ) Registration Approval: Instructor Prere ADVist: GS 2400. Required for all Peer Advisors. This autumn course offers joint sessions where campus leaders in OS 3419,
3420 and 3420 and 3421 experience advanced leadership training as well as
small group sessions for instruction specific to their leadership smail group sessions for instruction specifit to their readership
position. Course content will include practical information and pkills to address job related issues such as peer counseling, conflict mediation, crisis intervention, program management, transi-
tions and other important challenges facing university students. GS 3420 STUDENT LEADERSHIP AND SERVICE II CO (1 2) Registration Approval: Instructor. Prerequiste: GS 2400 . Strongly recommended for all officers and leaders in student gor course offers joint sessions where campus leaders in GS 3419, 3420 , and 3421 receive advanced leadership training as well as small group sessions for instruction specific to their leadership position. Course content emphasizes 1) accepting responsibiiity
for initiating effective action; 2 ) responding to conflicting and Ior inititating eifective action; 2 2 responding to conflicting and
challenging situations in constructive ways; and 3 ) actively participating in a community which fosters accountability

S 3421 STUDENT LEADERSHIP AND SERVICE II CM 2) Registration Approval: Instructor. Prerequisite: GS 2400 . utumn course offers joint sessions where campus leaders in GS 3419,3420 and 3421 receive advanced eadership training as well small group sessions for instruction specific to their leadership
position. Areas of focus include small group dynamics, ifiestyle vangelism, faith development theory, personal reflection model and program planning. May be repeated for credit 3 times. SS 3932 STUDEN ADSistration Approva: Instructor. An opportunity for upper level tudents, individually or in a seminar format, to integrate leadership experiences through reading, reflection, projects and papers a collaboration with campus Life professional. May be repeat fiveness. May be repeated for credit up to 5 credits.
GS 4900 INDEPENDENT STUDY (2-5) Registration Approval:
ndependen
dits Class not open to: Freshmen and Sophomores.

## Geopolitics

athleen Braden, Contact Person
PU offers no baccalaureate degree specifically in eography, but studies in geography may be combined with with history, is a critical service component for students majoring in other disciplines, such as social science education, and provides an important dimension to a liberal arts education

Requirements for the Geopolitics Minor (30 Credits; 15 upper-division)
GEO 11110 World Regional Geography ................................. 5 POL 2330 International Relations
Select one course from the following
POL 2320 Comparative Political Systems (5)
POL 3320 Political and Economic Developmen 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)
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
Total.
Geography Courses
GEO 1110 WORLD REGIONAL GEOGRAPHY (5) Provides lamiliarity with character of major world regions. Emphasizes variaamong nations, and appreciation for diversity of world cultures. GEO 3170 GEOPOLITICS ( 5 ) Current world events are exence, history a economity of social science disciplines political seography) Tolitical sciAnce, history, economics and political geography). Topics vary, but conficts and the role of international law in solving disputes. Course Equivalent: POL 3170 . Class not open to: Freshmen. GEO 3500 GEOGRAPHY OF NATURAL RESOURCES (5) Examines geographic distribution and economic valuation of the
eaarth's resources both within American public policy choices and at the international level. Compares notions of wise use, contradition, sustrainability, and stewardship in relation to Christian

GEO 4920 DIRECTED READINGS (1-5) Registration Ap proval: Independent Study Agreement.
GEO 4940 INTERNSHIP (2-5) Registration Approva: Intern Learning Contract Req. GEO 4970 RESEARCH IN GEOGRAPHY (2-5) Registration

## German

## See Languages section.

## Health Sciences, <br> School of

Annalee Oakes, Dean, Donna Allis, Ruby Englund, annalee Oakes, Dean, Donna Allis, Ruby Englund, Hitchens, Barbara Innes, Lucille Kelley, Melanie Plaza-Bunselmeyer, Marilyn Poysky, Kathleen Stetz, Cathryn Washington, Linda Westbrook, artha Worcester
"We are a community of Christian scholars, servants, and leaders. We meet the challenges of learning and health care a diverse and changing world through a commitment to nursing education and practice"

School of Health Sciences Mission Statement
The purpose of the School of Health Sciences is to prepare raduates to meet the health needs of a community throug promoting wellness and providing illness care for its nembers.
The faculty of the School of Health Sciences believes that, as God's creation, each person is unique. Yet every humankind: love, esteem, equilibrium, and reconciliation to God.
The holistic person is an integrated being with physiological, psychological, social, cultural, and spiritual changes throughout one's life span. In addition, the person continually interacts with his/her environment, which includes family, community, and the larger society. It is this holistic person, in the context of his/her environment, who is the focus of professional heallic care. As a result of the til, suppon, ad sle can experience growth healing and
wholeness. and advising for some pre-professional programs. Students in the pre-professional programs are prepared to trans into professional programs in other schools. (See pre
The School also offers a Master of Science in Nursin including an individual clinical interest specialty or an Adult and Gerontology nurse practitioner pathway, and a Family Nurse Practitioner pathway. For further information and a brochure detailing program requirements and course descriptions, call (206) 281-2888 or 1-800-899-1769; fax (206) http://www.spu.edu/depts/hsc/msn.htmlpaul/spu.edu/.

## Nursing

The Bachelor of Science in nursing prepares graduates to assume first-level practice and leadership roles in a variet 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 Christion faith with scientific knowledge and clinical expertise.

Curriculum is offered for those with no previous colleg preparation, those with advanced standing, and registered rses from associate degree or diploma nursing programs. he nursing progran No completion of the degree the graduate is eligible to take the national examination required for licensure as a registered nurse.

Information regarding tuition, fees, and length of the nursing program can be found in this catalog. It can also be obtained from the National League for Nursing Accrediting 669-1656.

## Curricular Objectives

Upon completion of the nursing curriculum at Seattle Pacific University, the graduate will be able to meet thes outcomes:

Critical Thinking: Students and graduates demonstrate excellence in nursing practice through critical thinking: a purposeful self-regulated process that gives reasoned consideration to evidence, contex

Therapeutic Nursing Interventions: Students an graduates demonstrate excellence in nursing practice or restoring optimal wholeness for clients (individuals, groups, families, organizations, and communities), based on standards of nursing practice and nursing research. "Optimal" is roughly defined as the best that is possible under the current condition

Communication: Students and graduates demonstrate excellence in nursing practice through the exchange of information, feelings, and opinions, using a variety of modes, such as oral, written, nonverbal,
technological, and artistic means of communication.

Integration of Scholarship, Leaderships, an Service: Students and graduates demonstrate an integration of scholarship, leadership, and service throug
multicultural international and/or Christian mission experiences. (NLN Outcome Defined by the Nursing Unit)

Professional Role: Students and graduates will practice personal and professional behaviors that demonstrate eadership, accoun anthy, client advocacy, political awareness.

The nursing program also offers transcultura Nursing students may opt to take Nursing Care of Speci. Populations and practicum in Costa Rica or Taiwan during their senior year. In addition, the School of Health Science has close ties with Gunma University, College of Medical Care and Technology, and Gunma Prefectural Health Sciences College in Japan and National Yang Ming Medical University in Taiwan. Frequent exchange programs of students and faculty are held with these schools for the

## Admission to the Major

Students interested in professional nursing must apply through the Office of Admissions. High school preparatio for nursing includes four years in the language arts, two years minimum of college preparatory mathematics, and tw years of laboratory science, one of which should be in chemistry. Those accepted into the University who indicate
an interest in nursing are assigned a nursing faculty adviso an interest in nursing are assigned a nursing aculty adviso
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, irrst serve basis. After April 1, acceptance is on a Committee evaluates each applicant on the basis of scholarship and personal qualifications judged necess for nursing. At least a 2.65 GPA in natural and social sciences is expected with no prerequisite course (inorgani and organic chemistry, anatomy and physiology, general psychology) earning less than a "C" grade. Entering nursing including word processing. Students will be asked to obtai an e-mail address through SPU, and participate in computer assisted instruction (CAI) and on-line literature searches. Educational standards and policies governing students admitted to the nursing program and regulations covering a student's progression through the nursing program are Copies of this handbook are available in the School of Healtt Sciences.
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.
asrms wishing to earn a Bachelor of Science degree should contact the School of Health Sciences 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 appl for admittance to the School of Health Sciences. R.N applicants meet the same criteria for admission as all
applicants to the nursing program. Individual evaluatio done at that time and program planning is started. Nationa League for Nursing examinations are available for advanced placement and are taken in mid-August and early to
mid-September prior to the beginning of autumn quarter.
International students who are registered nurses in another country must take the Foreign Nurse examination
(CGFNS) prior to beginning coursework at Seattle Pacific University and must take the national licensing examination during their first year 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.

## Expenses

General expenses are the same as for other students with he following exceptions:

Nursing application holding fee ( $\$ 100$ ).
2. Clinical practicum fee ( $\$ 65$ per credit hour) (approximately $\$ 125$ ).
4. Transportation costs between the University and clinical facilities vary from quarter to quarter.
5. For the community health nursing assignment, the should plan to have access to a car
6. National League for Nursing Diagnostic Readiness Exam (approximately \$35)

1. A physical examination is required prior to beginning clinical experience and recommended
prior to graduation.
2. Certain immunizations and diagnostic tests for beginning practicum courses.

## cholarships and Loans

tudents in the nursing major needing financial assistance hould apply to the SPU Financial Aid Office. In addition to eneral aid and work/study programs, nursing students ma vant to apply to other government-sponsored programs, .f., the Veterans Administration, armed services, and oth arget programs.
Nursing stud
holarship funds from encouraged to apply for uxiliaries, hospital organizations and service organization
local communities
The Nurses' Alumnae Association administers small grants made possible through gifts to the Association. re available through the generosity of foundations and individuals.

Requirements for the Nursing Major
( 80 credits)

## B.S. CURRICULUM

The following program outline reflects the new curriculum esign that was effective autumn 1995 for sophomores tering the nursing program. The basic program is four ears in length with seven quarters of clinicar nursin readuation.

First Yea
BIO 2129, 2130 Human Anatomy and Physiology ................. 10 CHM 1211 General Chemistry.......
$\qquad$
 General Education/Foundation
These courses are prerequisites to entering seco.....................................
Second Year
UR 2940, 2941 Basic Nursing. $\qquad$
43 Nursing of Adults I $\qquad$
103351 General Microbiology
FCS 3340 Nutrition.
SY 2470 Life Span Developmental Psychology
General Education/Electives/Foundations

## Third Year

NUR 3942, 3943 Family and Community Nursing I.............. 10 UR 3944, 3945 Family and Community Nursing I
UR 4940 Care of Special Populations...............
HSC 4044 Statistics, MAT 1360 or BUS 1360
General Education/Electives/Foundations
Fourth Year
NUR 4942 Professional Nursing Leadership $\qquad$ $\cdots$
NUR 4943 Professional Nursing Leadership Practicum ......
NUR 4970 Research..
Neneral Education/Electives/Foundations
Total.
The typical part-time, five-quarter program for the
Registered Nurse student with completed prerequisite admission, including 40 credits through advanced placement examination is as follows:

## First Yea

NUR 3050.
NUR 3944
Nenera

Second Year
NUR 4940,4941,4942,4943,4970 ........................................... 22

*Varies depending on the number of credits accern+
*Varies depending on the number of credits accepted for transter at time of admission. Must total 180 for graduation

## Health Science Courses

HSC 1301 WELLNESS (3) Examines lifestyle decision making, presents basic knowledge on 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. Course Equivalents: PE 1301 and FCS 1301 .
HSC $\mathbf{3 0 3 5}$ HUMA SEXUALT ( 3 )
SCC 3035 HUMAN SEXUALITY (3) Introduces basic aspects works, psychologically how males and females view their sexual ite and sociologically how sexual values and behavior affect the society as a whole. Christian perspectives will be related to the deve opment of sexual values. Class open to: Juniors and Seniors.
HSC 3304 PERSPECTIVES ON LOSS ( 3 ) Provides a cultura 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 approach for in-depth understanding using in-class practice of the sensitive issues involved with loss, death and dying. HSC 3395 HEALTH CARE DELIEERY SYSTEMS (3) Examines perspectives on differing health care philosophies and prac tices in the U.S. and other countries. Explores trends, current
events and technology. Presentations are given by health care providers and consumers from the community.
HSC C O44 BIOMEDICAL TESTS, MEASUREMENTS AND STATISTICS (5) Promotes the conceptual understanding of the achieve those computational skills needed to carry out statistitica procedures in practical settings and the use of the computer in ata analysis.
HSC 4391 PATHOPHYSIOLOGY (3) Registration Approval: Instructor. Prerequisites: BLO 2129, 2130. Selected topics of human pathophysiology are investigated from the perspective of how
various stressors and adaptive responses affect levels of wellness.

## Health Sciences,

 School of"At SPU, nursing is
recognized as
providing.
opportunities for a
caring ministry at
home and
throughout the
world. Our nursing recognized by that extra care that comes as an comes as an
expression of their Christian faith."

## Mary Fry Nursing



These include normal as well as aberrant cell genesis; protective, resistive and adaptive mechanisms; phases of pathologic changes; HSC 4477 EFFECTIVE INTERPERSONAL DYNAMICS (3) Based on theories of social style and interpersonal interaction, thi
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.
HSC 4900 INDEPENDENT STUY (1-5) Registration Approval:
Independent Study Agreement. May be repeated for credit up to 10 Independent Study Agreement. May be repeted for credit up to 10 HSC 4950 SPECIAL TOPICS IN HEALTH CARE (1-5) FOcuses on emerging and speciaizized topics in health care. May be repated for credit up to 105 creatis. ADLT DEVELOPMENT AND AGING (3) This Current theories of aging; psychological, social, and spiritual develprment of individuals and families are covered. Responses of olde adults to cultural, environmental, and selected health issues as
development occurs are included.

## Nursing Courses

NUR 2050 CONCEPTUAL FRAMEWORK FOR TRANSFER STUDENTS (1-5) Introduces the philosophy and conceptual Ramework of the nursing curriculum. Examines application of the cal issues and spiritual care related to health care. Specific cal issues and spiritual care related to heatht care. Specilic
opics in health and ill ness care are covered as needec. May be epeated for credit up to 5 credits.
211, 2330, BIO 2129 and 2130. (6) Prerequisites: PSY 1180, CHM nursing concepts and an introduction to the nursing process. The ursing process focus is on data collection and nursing diagnosis SYY 2470 Class open to Nusing majors NUR 2941 BASIC NURSING PRACTIC
nces in application of the nursing pricuM (4) Provides experi care are introduced in a long term care setting suitaby levels of ion in the nursing process. Extra fee Corequisite: NUP 2940 Class ppen to: Nursing majors.
NUR 2942 NURSING OF ADULTS I (6) Prerequisite: NUR 2941 Explores holistic nursing of adult clients. Incorporates more adcanced concepts of health protection and health promotion for tribute: Writing Course. Class open to: Nursing majors.
NUR 2943 NURSING OF ADULTS I PRACTICUM (4) Extends he practice from the Basic Nursing Practicum to more complex pen to: Nursing majors.

## NUR 2944 NURSING OF ADULTS II (6) Prerequisite: NUR 2942. Continuing study of stressor and resource effects on the

 942. Continuing study of stressor and resource effects on the principles to more complex multi-system disorders and pursing process in the context of family and community. Corequisite: NUR 9455. Class open to: Nursing majors.NUR 2945 NURSING OF ADUTS

NUR 2945 NURSING OF ADULTS II PRACTICUM (4) Prereqiistes. aprlication of nursing theory, such as the SPU Nursing Systems Model through experience in in clinical seminars, skill labo-
ratory and care of addts in acute care setting Exta Fee atory and care of adults in acute care settings. Extra Fee. Corequisite: NuR 2944. Class open to: Nursing majors. Designed specifically for Registered Nurses who are beginning a rogram of study for the baccalaureate degree in nursing. It is the irst required course in the curriculum and is a prerequisite to all rected study based on aduutt learner concepts and facilitates addustment 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 possipilities for the professional nursing role. Emphasizes group work, lements of groups, group theory, and collaboration through group NUR 3942 FAMILY AND COMMUNITY NURSING I (6) Prerequisites: NUR 2944, 2945 , FCS 3340 , PSY 2470 . Focuses on family
ealth care issues during the child-bearing and child-rearing ye concerts. Introduces principles of nursing case management: Corequisite: NUR 3943 .
NUR 3943 FAMILY AND COMMUNITY NURSING I
RA70. Provides opportunity for application of theory in a wast community settings that provide heallh care to child-bearing an child-rearing fanilies. Extra fee. Corequisite: NUR 3942 . NUR 3944 FAMILL AND COMMUNITY NURSING II (6) Pr requisites: NUR 3942 , 3943, FCS 3340 , PSY 2470. Continuing stud
anily health care, including human sexulality and health-illness ssues, with community nursing emphasis and application of fam mental health nursing principles. Corequisite: NUR 3945 .
NUR 3945 FAMILY AND COMMUNITY NURSING II PRACTICUM (4) Prerequisites: NUR 2944, 2945, PSY 2470, FC 3340. Provides opportunity for application of theory and researc lindings in the care of families, in a variety of community and $m$ tal health settings. Extra Fee. Corequisite: NUR 3944.
NUR 4900 INDEPENDENT STUDY (1-5) Registration prova: Independent Stucy Agreement. May be repeated for credit Ip to 10 credits.
NUR 4920 CARE OF SPECIAL POPULATIONS-THEORY (6) tion of the epidemiological model in the assessment and nursing care of special populations, including those from diverse cultural backgrounds, and others such as HIV-AIDS, mental illness, refu gees, and groups of people with similar health care issues. At--
tribute: Writing Course. Class open to: Nursing majors. Class
Open to: Seniors. 4) Prerequisite: NUR 4920 or to be taken concurrent. An oppor special population, and in a variety of cininical settings. Extra Fee Class open to: Nurrsing majors. Class open to: Seniors.
NUR 9942 PROFESSIONAL NURSING 1 EADESSI NUR 4942 PROEESSIONAL NURSING G LEADERSHIP (4)
Prerequisites: NUR 3942 3943 4920 and 4921 Theortich gation of leadership, organization, and professional development concepts and their application to the professional nursing role o the health care team, the delivery of health care, and the life-long rofesse: Writing Course, Class open to. Nursing majors. Class open to: Seniors.
NUR 4943 PROFESSIONAL NURSING LEADERSHIP PRACTICUM (5) Prerequisite:HSC 4044 or MAT 1360 , and NUK nursing leadership, organizational, and professional development concept while caring directly and indirectly for individuals and groups of clients in a variety of health care settings. Class open to
Nursing maiors. Class open to: Seniors.

## History

Donald Holsinger, Chair, Alberto Ferreiro, William
History is the study of the vast record of human experience It serves as the collective memory of humankind. As memory defines selfhood and guides behavior, so history eaches about social identity and responsibility. And just ne's memory changes and matures, so the collective discovered and new perspectives are developed.
Hence college-level history is much more a detective
unt than a memorization game. The task is to seek the acts, weigh interpretations, and draw conclusions. The tudy of history requires wide reading, deep thinking, and clear communication.

To study history at a university that is distinctly Christion dds another important dimension. Students encounter the mpact Christianity has had in both Western Civilization and
e global arena. More broadly, students are challenged to bok at history from a Christian point of view. How does chistian ents the varieties of human cultures, the mensions of human triumphs and tragedies, and the fluence of heritage on one's own identity?
These questions help shape the history curriculum at Seattle Pacific University, which is designed to serve the pon-specialist as well as the history major. To study history here, $\mathrm{ingights}$.
The major in history, especially after advanced study, can pad to careers in teaching and writing history, in museums and archival work, and in a wide variety of oher professions ranging from journalism, law, and government to the pastorate and missions. Even for students with uncertain career goals, history offers a fruitful field of specialization thern of subdivision by region. The major program beg by exploring the roots of Western civilization and then riaces the distinctive forms of shared social experience which that culture has produced in Europe and the United States. An encounter with a non-Western culture provide
illminating contrast. The deeper thrust of the program lemains integrative, emphasizing humanity's common heritage and shared future, as well as an ongoing dialogue between past and present.
The history student at SPU can take advantage of several special programs, both on and off campus. Completing a complementary second major, especially in political science off-campus study opportunities add practical skills and rich experiences of life-long value. Consider spending a quarte or semester in Europe, Costa Rica, or Cairo, or a summer ession in Spain. Or study public policy for a term in the merican Studies Program in Washington, D.C. Consult th history faculty for details.
To qualify for admission to the major, a student must
have a 2.5 minimum GPA.

## Requirements for the History Major

50 Credits; 25 upper-division)
Western Civilization
HIS 1201 Medieval Europe
HIS 1201 Medieval Europe ................................................. 5 or HIS 2452 History of the Modern Global System (5) ...... 5 IIS 2100 Ancient Civilization (5)
or HIS 3170 Classical Civilization (5)

## American History

HIS 2502 The United States to 1876
or advisor-approved upper-division substitution

## Third World

theast one course in the history of a Third World region
(..e.,Africa, Asia, Latin America, Islamic Middle East or

Historiography and Historical Method
HIS 3850 History of Historical Writing
Method
Elective
Total...
4............................. 17
studies .etta balance among European, U.S. and non-Western related field Shlude, with advisor's approval, one course in a solid historical propose some insearo pan sudens

Students majoring in history should work closely wit their advisor in selecting supporting courses tailored to 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 Mino

A minor in history is available for those wishing to enrich their college experience by examining the unfolding story of students seeking an additional credential.

Requirements for the General History
Minor
(30 Credits; 15 upper-division)
HIS 1202 Modern Europe (5)
or HiS 2452 History of the Modern Global System (5) ...... 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 Third World Region ............... ${ }^{5}$ Total...

## *HIS 3850 History of Historical Writing is recommended...............................................

## Requirements for the Teaching History

## Minor

(30 Credits; 15 upper-division)
HIS 1202 Modern
HIS 1202 Modern Europe ( 5 )
or HIS 2452 History of the Modern Global System (5) ...... 5 HIS 2503 The United States Since 187

One course in the history of a Third World Region .............. Electives

## History Courses

## ANCIENT CIVILIZATION

HIS 2100 ANCIENT CIVILIZATION (5) Surveys Mediterranean history from early Egypt and Mesopotamia to the decline of the Roman Empire. Course Equivalent: CLA 2100 . HIS 3170 CLASSICAL CIVLLIZATION (5) Explores history, contributions to modern Western civilization. Course Equivalent CLLA 3170.

## EUROPEAN HISTOR

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 as the unique features of medieval culture and their relevance today. This course may also be offered via distance learning. HIS 1202 MODER 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 HIS 3320 HISTORY OF ENGLAND (5) A survey of Great Britain from the Norman conquest, with primary emphasis on the pe riod from the Tudor dynasty to the present. Class not open to:
HIS 3331 HISTORY OF SPAIN AND PORTUGAL (5) Traces the origins of Spain and Portugal in the High Middle Agses; emphasizes the Colden Ange, the over
Class not open to: Freshmen.

IIS 3335 IBERIAN CIVILIZATION AND CULTURE (5) Res stration Approval: Travel Studies Form. Introduces history and
ulture of the Iberian Peninsula, from the Roman era to the resent, through a month of summer study at the University of Salamanca, Spain. (For post-baccalaureate students, can be taken HIS 5335.) Class not open to: Freshmen. ural and political history with primary attention to the tsarist evolutionary and Soviet eras, examining their legacies for current evelopment and change. Course Equivalent: POL 3345 . Attribut riting Course. Class not open to: Freshmen AND HOLY WARS IN THE HIGH MIDDLE AGES: (1095492) (5) Prerequisite: HIS 1201 or equivalent. Explores the rusades and Holy Wars in Spain in social, poilical, and religious contexts. Topics include Just War theory, economic influences, he Reconquest in Spain. Muslim and Christian views of the Crusades and Holy Wars are presented. Class not open to: Freshmen NSELM TO MARX (5) Surveys major thinkers and intellectua novements from scholasticism to Marxism, with emphasis on the listorical context. Includes directed readings in primary source. lass not open to: Freshmen.
COMPARATIVE AND GLOBAL HISTORY
HIS 2452 HISTORY OF THE MODERN GLOBAL SYSTEM (5) Studies the transformation of world regional civilizations int global system under the impact of Western expansion friom 15ns
lo the present. Begins with a description of regional civilizations prior to the "great discoveries," traces cultural interaction, ecoomic change and political consolidation through the eras of me antuist expansion, industrial and politicical revo
HiS 3401 EARLI AND MEDIEVAL CHRISTIANITY (5) A survey of Christianity from its post-Apostolic origins to the end of he Middle Ages. Initially, evaluates the formation of Orthodoxy, the challenge of Heterodoxy, early monasticism, missions to West-
ern Europe; then explores the achievement of the Medieval Church ern Europe; then explorest he accinevement of the Medieval Chi Eastern Orthodoxy. Course Equivalent: REL 3601 . Class not ope
HIS 3402 REFORMATION AND MODERN CHRISTIANITY 5) A survey of Christianity from the reformations of the 16 th entury to recent times. Focuses on Luther, Calvin, and the Anabaptists; Anglicans and Puritans; the Council of Trent; 17 th
century orthodoxy, rationalism and pietism: the beginnings of Christianity in America; and the Great Awakening and Weslevan Christianity in America; and the Great Awakening and Wesleyan
revival of the 18 hth century. Course Equivalent: REL 3602 . Class not open to: Freshmen.
HIS 3405 TOPICS

IN HISTORY OF CHRISTIANITY (3-5) Specific focus may vary. Current topic: "Western Spirituality Her-
tics, Mystics, and Monks" (3). Explores various spiritual moveents from tand Monks" (3). Explores various spiritual moveattention to the Ear contributhons to the 16 hin centruary with special ant traditions. May be repeeated for credidit up to to 10 credits.
Course Equivalent: ReL 3605 . Class not open to: Freshmen. HIS 3435 MARXISM: 20TH CENTURY THEORY AND PRACTICE (3) Examines the development of varieties of Marxist heory and practice in the 20th century. Compares the Soviet, Euro hought and practice. Offered alternate years. Course Equivaents: ECN 3635 and POL 3435 . Class not open to: Freshmen. (5) A study of conflict and conflict resolution in the international system, drawing upon resources from negotiation theory, peace sytudies, Biblical models, international law and international organiation, with analysis of varying world order models. Course Equiva-

## AMERICAN HISTORY: PERIOD STUDY

HIS 1500 AMERICAS STORY: AN INTRODUCTION TO THE and expression of distinctive cultural ideas and ideals throughout the American past. Particular stress on America's religious heritage. Includes study of the growth of American political and ecocultural groups who have formed American society.

HIS 2502 THE UNITED STATES TO 1876 (5) Surveys the eents thought the Reconstruction period Emphasizes institutions issues, ideas and individuals. Focuses on basic trends such as indus rrailization, patterns of thought and values, political development, cial change, and sectional social experience of minority and mainstream groups.
HIS 2503 THE UNITED STATES SINCE 1876 the emphasis of HIS 2502: surveys the emergence of contempor American life and culture from the 1870 s to the present; focuses n American power at home and abroad, the rise of today's mass pplore aspects of modern popular culture. HIS 3501 COLONIAL AND REVOLUTIONARY AMERICA: UUNDATIONS OF AMERICAN CIVILIZATION (5) Explor erspective, from the earliest explorations through the Revolutio pecial emphasis on the emergence of an American identity and racer, telleclions inty American ine ig Course. Class not open to: Freshmen.
tensive, multifacted, student-centered examination of one nar owly focused time period in American history, taught in seminar style. Completion of a lower-division course is recommended bi four-year sequence.
HIS 4525 JACKSONIAN AMERICA, 1820-1850 (3) Stu s the interacting impact of revival, reform and romanticism e context of political realignment and economic growth. and portray. Class not open to: Freshmen and Sophomores. IS 4545 THE TRANSFORMATION OF AMERICAN FE: 1870-1900 (3) Through intensive exam inat big busin d consequent social and cultural change. Students write hort papers, in the journalistic style of the era, based on con. mporary acco 1 s Class :Freshmen and Sophomores.
IS 4565 WORLD WAR II ( 3 )
ences at home and abroad during the Second World War, an assesses the impact of the ordeal on contemporary American vilization. Guest presentations supplement instructor leclistory project. Class not open to: Freshmen and Sophomores. MERICAN HISTORY: TOPICAL STUDY IS 3600 HISTORY OF THE PACIFIC NORTHWEST (5) Surveys development of the region encompassing Washington,, Oregon, and Idaho from the discovery period to the present. the regional story in the context of the general history o
American West. Field experiences required. (For post paccalaureate students, a tutorial version of this course, HIS 5600 ,
is offered year round through the Division of Continuing Studies.) s offered year round through the Division of Continuing
Class not open to: Freshmen. HIS 3640 GROWTH OF THE AMERICAN ECONOMIC SYSTEM (3) Prerequisites: ECN 1100 or ECN 2101 and ECN 2102 sttention to the rise of the modern business system and its impa on American society; ;ives corollary consideration to labor, agrici ture, technology, and the monetary system. Offered alternate HIS 3650 AMERICAN URBAN HISTORY (5) Surveys the rise of the metropolis in American life and culture, focusing on the ots of current social, economicand environmental problens. HIS 3670 HISTORY OF AMERICAN FOREIGN RELATIONS (5) Studies the United States as a participant in the internationa system, from colonial dependency to superpower. Proposes a applies this framework to historical events considered chronologiz applyes tonsis framework to tistorica events considered cironolions Course Equivalent: POL 3670 . Atrribute: Writing Course. Class not His to: Freshmen. THE UNITED STATES AT WAR (5) Focuses oí selected episodes in American military history (spanning colonia to present eras), studied comparatively to discern both unique eatures and persistent patterns. At a time when relatively few

American citizens have personal or family connections to the armed services, seeks to introduce students to the culture of the of both professional and citizen-soldier, on both combat and home front. litroduces (histan responses to war. 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 encompass ing Washington, Oregon, and Idaho from the discovery period to the present. Students engage in readings and field visits, and
submita journal both as a measure of learning progress and as submanent resource packet. offered summer only. (Post baccaaureate students should enroll in HIS 5600 , a version of the course offered year-round through the Division of Continuing Studies.)
THIRD WORLD HISTORY
HIS 3710 COMPARATIVE THIRD WORLD HISTORY (5) explores the history of the Third World through thematic and re--
jonal comparisons. Sample themes include frontier encounters colonialism, nationalism, modernization, state formation and social change. Aitribute: Writing Course. Cass not open to: Freshmen.
HIS 3720 RISE OF ISLAMIC CIVILZATION ( $\mathbf{5}$ ) Traces the HIS 3720 RISE OF ISLAMIC CIVILIZATION (5) Traces the ins to the 18 th century. Highlights the interaction of cultural, potitical and economic themes as well as the changing relations eetween the Middle East and Europe. Attribute: 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 10 the present. Explores Middle Eastern//slamic responses to listern and the seopolitics of oil Atribute: Writin Course Class open to: Freshmen. HIS 3750 LATIN AMERICA (5) Traces the history of Latin
America, with paticicular attention to the development of poitical menica, with particularar attention to the developmentor opoiitical, SOC 3755 . Attribute: Writing Course. Class not open to: Freshmen.
HIS 3785 MODERN CHINA AND JAPAN (5) Covers the 19 th nd 20th centuries. Considers the cultural, religious and philosophical fabric of Chinese and Japanese societies, as well as politit Some attention given to other East Asian nations.
HIS 3790 HISTORY OF AFRICA (5) Studies HIS 3799 HISTORY OF AFRICA (5) Studies the history of Africa from prehistoric times to the present. Examines cultural, fricica and other world regions. Attribute: Writing Course. Class not open to: Freshmen.
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 scchools of his-
torical interpretation and different methods of historical resear torical interpretation and different methods of historical research bistory majors. Class not open to: Freshmen. HIS 4920-4929 READINGS IN HISTORY (2-5) Registration Aproval: Independent Study Agreement. Prerequisites: 15 credits hated area of historyy arranged between the student and instructor The student should present a proposal before registering. May be repeated for credit up to 20 and Sophomores. pprova): Intern Learning Contract Req. Prerequisites: 15 creditis fi ici work aprin history. Provides opportunities as available for practical application of history skills. See Internship Coordinator and
Fistory Chairperson. May be repeated for credit to to 30 credits. Class not open too Freshman and Non-Matriculated. 30 credits. HIS 4970 -4979 INDEPENDENT RESEARCH ( $2-15$ ) Registra-
tion Approva: Instructor. Prerequisites: 10 upper division cresits tion Approval: Instructor. Prerequisites: 10 upper division credits historical topic as arranged between the student and instructort The student should present a proposal before registering. May be repeated for credit up to 15 credits. Class not open to: Freshman,
Sophomores and 1 on-matriculated.

## Internship Program

Internships seek to integrate academic theory with practical work experience. Designed to be an integral part of llows students to earn up to 26 credits for learning gaine in a work setting.
Careful supervision of students' progress toward earning objectives is a key component of an internship, and the student, acaulty sponsor and employer.
Students participate in internships for carea xploration 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 isciplines
Internships may be paid or unpaid. In either case, it is he quality of the placement and supervision and the ther sis sudents development of critical thinking and art-time or volunteer work program
Minimum requirements for participating in the Internship Program include matriculation at the University sets specific prerequisites for participation in internships. Internship opportunities include: Accounting firms, dvertising agencies, banks, high-tech companies, medical research labs, performing arts organizations, retail stores, chools, human service agencies and many other types of rganizations. Postings of internship opportunities vailable in the Career Development Center
Interested students should address inquiries to the Career Development Center, Student Union Building, 2nd
floor, Seattle Pacific University, 3307 3rd Ave. W., Seattle, WA floor, Seattle Pacific University, 3307 3rd Ave. W., Seatile, 98119, (200)

## Language Arts Education

See Education section

## Languages

Marilyn Severson, Chair, Robert Baah, Jeffrey Barnhart, Kathryn Bartholomew, Michael Macdonald, 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 Sour spoken languages - French, German, Russian, and Greek. There are three departmental degree programs: European Studies and two self-designed programs, Classics and Latin American Studies/Spanish. The student-designed majors must be constructed in close cooperation with
appropriate faculty. (See Student-Designed Major section of the Catalog.) All programs emphasize the unique ceationshp beween culture and language. Acquisitio analytical skilis, familiarity with important works of 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, studens are 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 the traveler) is available on Seattle Paciit'c's European Quarter. Depen, Italian, Russian, and Spanish 1100 are available for beginning students, 2100 for intermediate students, and 3100 for advanced students.

## Classics

(Student-designed)
Christina Roseman, 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-inctuaing more who chooses to major in Classics will acquire preparation that can key into any of the liberal arts, as well as enrichment for personal satisfaction. Students interested in pre-law, pre-medicine, education and many of the sciences are encouraged to consider the Classics offering ment.
All students who complete the Classics major must be roficient in a foreign language. Proficiency is established upon satisfactory completion of the third quarter of a first ear college-level foreign language or its equivalent. For Iternative ways of satisfying this requirement, see eneral education section of the Catalog. Language 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 ..........
LA 3204 Survey of Classical L.................... LA 33044 Survey of Classical Latin Literature UR 3100 Foundations of European Art. Other approved courses...

## Requirements for the Major - Cultura

 Emphasis(45 credits; 25 upper-division)
CLA 3204 Survey of Classical Latin Literatur
CLA 3104 Survey of Ancient Greek Literatur
Other approved courses*

*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........
Select one course from the following
CLA 3104 Survey of Ancient Greek Literature (5)
CLA 3204 Survey of Classical Latin Literature

Classical Latin Courses
Note: Latin is taught alternate years
LAT 1101 ELEMENTARY LATIN I (5) Studies the essentials of LAT 1101 ELEMENTARY LATIN I (5) Studies the essentials of Classical Latin grammar to build comprenension in reading and
writing elementary Latin. The LATT 1101,1102 and 1103 sequence is offered alternate years.
LAT 1102 ELEMENTARY LATIN II (5) Prerequisite: LAT 1101 or permission of instructor. Cons LAT 1103 ELEMENTARY LATIN III (5) Prerequisite: LAT 1102 or permission of instructor. Continues the study of Classical Lati through reading to provide a basis for future work in the language emphasizes translation. LAT 2204 LATTN GRAMMAR REVIEW (3) Prerequisite: LAT 1103 or permission of instructor. Provides intensive review of composition and syntax necessary for all advanced work in Latin,
LAT 4920 INDEPENDENT READINGS IN CLASSICAL LATII (1-3) Registration Approval: Independent Study Agreement. Pre-
 LAT 4970 DIRECTED READINGS AND RESEARCC ( $1-5$ ) Registration Approval: Independent Study Agreement. Prere
site: LAT 4920. May be repeated for credit up to 10 credits.

## Classical Culture Course

CLA 2100 ANCIENT CIVILIZATION (5) Surveys Mediterranean history from early Egypt and Mesopotamia to the decline of the Roman Empire. Course Equivalent: HIS 2100
CLA 3104 SURVE OF ANCIENT GREEK LITERATURE (5) Surveys the chronological development of Greek poetry and prose
in its social context. Enables the student to appreciate great liter ary works of continuing inspiration to European writers, with spe cial emphasis on literary analysis and critical theory. Taught in English. Offered alternate years.
CLA 3170 CLASSICAL CIVIIZATION (5) Explores history, literature and society of classical Greece and Rome stressing contributions to modern Western civilization. Course Equivalent: HIS 3170 ,
CLA 3204 SURVEY OF CLASSICAL LATIN LITERATURE (5) Surveys the chronological development of Latin poetry and prose Surveys the chronological development of Latin poetry and proses
in its social context. Enables the student to appreciate great liter: ary works of continuing inspiration to European writers. Special emphasis on literary themes and influence. Taught in English. Of fered alternate years. Course Equivalent:Attribute: Writing Cours TURE (1-5) Registration Approval: Independent Study Agree-ment. Prerequisite: CLA 3170 . May be repeated for credit up to 15 credits.
lassical Greek Course
GRK 2001 ELEMENTARY CLASSICAL GREEK I (3) Registraon Approval. histructor. Frequisic.competency in a non-E tish language equivalent to the third quarter of a first year
ellege--evel foreign language course. This course is an introd college-evee fromeign langlage course. Lhis course is an introd speech, basic forms of the verb and declined nouns will be studied, s well as words needed for a working vocabulary. ration Approval Instructor. Prerequisite: GRK 2001 or permissio finstructor. This course continues into more complicated grammar and syntactical constructions, leading to the ability to read mple prose selections in the original Greek
RK 4920 INDEPENDENT READINGS IN
GREEK (1-3) Registration Approval: Independent Study Ag ment. Greek is available to qualified students through the Classics GRK 4930 GREEK TUTORIAL PRACTICUM (1-6)
tion Approval: Instructor. For advanced students who wish to assist lion Approva: Instructor. For advanced students who wish to assist

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 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 tudy of the culture and languages of Greece and Rome, to annual public lecture relating to research in the discipline. he current C. May Marston Professor is Dr. Christina Horst Roseman.

## Latin American Studies

## (Student-designed)

Jeffrey Barnhart, Contact Person
The Latin American Studies major and minor are designed or students who wish to specialize in Spanish with a Lati merican emphasis. Students who complete the major ar xpected to achieve the stated level of language proficien in Spanish and to have completed the 30 credit base ncluding the Coalition of Christian Collegesí semester-long

## Requirements for the Major

 (minimum of 70 credits; 25 upper-division)
## Base Courses for the Major

(30 credits)
IIIS 3331 History of Spain and Portuga
HIS 3750 Latin America
HIS 3710 Comparative Third World History
BSS 4917* Seminar in Latin American Culture
*Note:
Rica.

## Requirements for the Spanish Concentration Major <br> This specialization requires 40 credits of which 25 must be pper-division. This is in addition to the 30 base credits. ninimum of 18 upper-division credits must be in courses

taught in Spanish, including SPN 3104 Literature Survey: 19 th nd 20th Centuries ( $)$, and $\operatorname{sen} 4501$ Topics in Latio merican Literature (3). See course listings under Spanish

## Requirements for the Minor

he minimum requirement for a minor in Spanish Studies, 15 must be upper-division. Each student minoring in panish Studies, Latin American emphasis will complete redits from base requirements and 25 credits from Spanish anguage courses. A minimum of 7 upper-division credits ust be in courses taught in Spanisht, including SPN 3 IP4 enturies (3), and SPN 450 apics in Latin American Literature (3)

## European Studies

Today European unity and diversity are powerful subjects for erious study and personal enrichment. Both historical and business, travel, the arts, and international politics. Christianity has important roots in Europe, and today many see Europe as a tield for the challenge and opportunity of vangelization in the 21 st century. Graduates in European tudies find openings in business, missions, travel,
ernment, and education.
e with the a shacies major offers students a B.A. degree with the choice of one of five language programs,
rench, German, Latin, Russian, Spanish, or of a general tudies program titled Europe. All programs focus on the anguage, culture, and literature of Europeans. All European udies majors must complete satisfactorily the following major requirements:
mess in European Studies courses (see base
40 credits in one of the six programs listed above: 5 of these credits must be upper-division; for the language programs a minimum of 18 upper-division
creits must be in courses taught in the language,
3. one quarter of study in Europe with the SPU
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.

All majors are expected to attend an annual spring Language Camp or Language Blitz where there is opportunity to speak European languages, see foreign films, taste foreign foods, nd interact with others about Europe. Alumni are welcom and often participate.

The European Ouarter is a SPU sponsored study abroad rogram held autumn or spring quarters. Sites vary, depending on faculty leadership, but participants meet the expectations of a quarter's study in Europe both cademically, earning a minimum of 12 credits, and culturally, through in-depth contact with the language/ culture connection.
culy students, and prof Symposium is a gathering of 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, work applicable to the B.A. degree and a 2.5 GPA in 10 credits of coursework at SPU in foreign languages and literatures andor European studies.

## The Base Courses for All Majors

21 credits)
UR 1110 Heritage of Europe UR 3100 Foundations of European Art UUR 3247 Classics of Eastern European Literature UUR 3500 European Civilization or 5 credits from the SPU
sponsored programs in Salamanca or Normandy...
UR 4250 Contemporary Europea
Issues a
tudents should note that EUR 3000 European Quarte rientation (1) is a prerequisite for EUR 3500 and that EUR 100 Foundations of European Art (2) is highly recomended for EIR 3500 as are appropriate language courses.

## European Studies Courses

UR 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 eromm, beliefs and values, and women's roles will be examine UR 3000 EUROPEAN QUARTER ORIENTATION (1) Pre pares students intellectually, emotionally, spiritually and practically or an extended study program in other cultures. Gives students a general background in the basic concepts of intercultural commuication, including how to make cultural comparisons, how to receople of another culture. EUR 3100 FOUNDATIONS OF EUROPEAN ART (2) Provides brief survey of major periods in European art and architecture progressing through the 19 th century. It is specifically oriented ward students intending to travel in Europe. UUR 3247 CLASSICS OF EASTERN EUROPEAN LITERAURE (5) Explores translated texts of select literary classics of radition. Includes the work of Tolstoy, Dostoyevski, and Chekhov in light of earlier models of an Eastern tradition.
UR 3287 MYTHOLOGY IN LTTERATURE (5) Prerequisite: ENG 1110 or EUR 1110 . Studies mythological traditions from the rope, as well as material from Asia and tribal societies. Emphasis on mythic themes especially significant for European literature Litribute: Writing Course.
roval: Travel Studies Form. Offered in Europe. Provides a cul tural investigation of Europe and an on-site practicum. This ourse examines contemporary Europe as part of the European Quarter Abroad, with special attention to a Christian perspectiv skills acquired by students are demonstrated in intensive pro rams of living and travel.
UR 3950 EUROPEAN SPECLAL TOPICS (1-5)
UUR 4250 CONTEMPORARY EUROPEAN ISSUES AND PERONALITIES (3) The heritage of Europe will be the framework terpreted. A key componenent of the c class is the research proiect hich will relate to the student's language concentration and speci interests. Class not open to: Preshmen 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 1 time.

EUR 4911 RUSSIAN STUDIES SEMINAR I: RUSSIAN HIS OK AND CULURE (6) Registration Approval: Travel Studie m of the Coalition of Chris tian Colleges and Universities in Russia. This course focuses oí he culture which has given rise to contemporary Russian life., ecial emphasis is given to religious and cultural underpinning ves students wide exposure to a drersity of pers Russian/Soviet history and culture. Class not open to: Freshmen and Non-Matriculated.

## RARY ISSUES IN RUSSIDIES SEMINAR II: CONTEMPO

 ARYies Form. Prerequisite: (6) Registration Approval: Travel rogram. Taught through semesteter-long into program of the Coaditio of Christian Colleges and Universities in Russia. This course em phasizes contemporary life in Russia, with a focus on issues thahave arisen as a result of the demise of Communism. Through conversations with business and government leaders, students hitroduced to the complexities of economic transition from a ce rally-planned economy to a free market system. They also study role of Russia's churches and the debate concerning religious freedom. Class not open to: Freshmen and Non-Matriculated. Registration Approval Independent Study Agreement. May be repeated for credit up to 10 credits.
EUR 4921 DIRECTED READINGS AND RESEARCH (1-3) Registration Approval: Travel Studies Form. Taught in Europe on
EUR 4930 TUTORIAL PRACTICUM ( $1-3$ ) Registration ApURval: Instructor. For advanced students who wish to assist as roval: Instructor. For advanced students who wist to assist as European Studies. May be repeated for credit up to 3 credits.
UUR 4931 RUSSIAN STUDIES PRACTICUM: SERYICE UR 4931 RUSSIAN STUDIES PRACTICUM: SERVICE ROJECT (3) Registration Approval: Travel Studies Form. Pre rough semester-long program of the Coalition of Christian Col leges and Universities in Russia. Students spend time each week olunteering with local community projects, church organizations, he project enables students to work directly with Russians and evelop a better understanding of the realities of contemporary ussian life. Class not open to: Preshmen and Non-Matriculated elating to the languages and cultures of Europe. Topics to be announced in the Time Schedule. May be repeated for credit up to 10 credits.
UR 4951 SPECIAL TOPICS (1-5) Registration Approval: Travel Itudies Form. Focuses on different topics relating
languages and cultures of Europe. Taught in Europe only.

## Italian Course

TL 1100 ELEMENTARY ITALLAN (2) Registration Approval: Tavel Studies Form. A course designed for students who have never eeded for basic communication. European Quarter Only. TL 2100 INTERMEDIATE ITALIAN (2) Registration Approval: Tavel Studies Form. Designe dor sudy of layng stuaded so tures needed for basic communication. European Quarter only.

## EUROPE PROGRAM REQUIREMENTS

Michael Macdonald, Contact Person

## Requirements for the Major

61 credits; 25 upper-division)
Base courses .....
ropean history and politic................................................... 21 HIS 1201 or 1202 (5)

ISTPOL 3440 (5)
Elective courses in HIS/POL (5)
FRE 2101 NIVEAU INTERMEDIAIRE (5) Prerequisite: FRE 1103 or permission of instructor. Investigates French atitiudes
toward the future and dilemmas of chance in modern Europe, and considers contemporary Frenc FRE 2102 NIVEAU INTERMEDIAIRE (5) Prerequisite: FRE 1103 or permission of instructor. Investigates the issues of fath and values in French national view of language structure.
FRE 2103 NIVEAU INTERMEDIAIRE (5) Prerequisite: FRE 1103 or permission of instructor. Introduces literary studies in th French tradition; selections and genres vary according to facully and student interests; includes a review of language structure.
FRE 3100 ADVANCED FRENCH ( $1-5$ ) Registration Approval Travel Studies Form. Advanced French in France Study Abroad Progran or in European Quarter. May be repeated for credit up to 5 credits. FRE 3205 Tropic IN FRENCH LITERATURE (5) Considers themes in French literature illustrated in works chosen from dif-
ferent genres and periods. Taught in English but students special ferent genres and periods. Taught in Enggish but students special
izing in the French program or working on a French minor will do izing in the Prench program or working in French and attend one
some reading and writing asignments in Fer ession per week conducted in French. Offered alternate years. May be repeated for credit 1 time.
FRE 3250 LA FRANCE ET LE MONDE (3) Considers how rance views Europe and the world and her role therein. Direct pecial attention to the linguistic and cultural values inherent in rench life and action. Uses French as the language for research
lecture and discussion. Offered alternate years. May be repeate or credit 1 time.
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 nd ang guage. Uses French as the language ior research, lec
and discussion. Offered alternate years. May be repeated for credit 1 time. U 18E SIECLE (3) Presents landmark works in French liter U 18 E SIECLE ( (3) Presents lane Midde Ages to the Revolution. Includes consideration of genres, themes and social/historical backgrounds of the elections studied. Uses French as the lang yage for researchi,
for credit 1 time. Attribute: Writing Course.
FRE 4461 LA LITTTERATURE FRANCAISE-DU $19 E$ ET DU
20E SIECLES (3) Examines important works by French author 20E SIECLES (3) Examines important works by French authors of the 19 th and 20th centuries in the context of literary and philoap events and cultural changes on the evolution of values. Use rench as the language of research, lecture and discussion. Of fered alternate years. May be repeated for credit 1 time.
FRE 4470 ETUDES SPECIALES EN FRANCAIS (3) Focuse on different topics relating to the language and culture of France. Uses French as the language of research, lecture and discussion. yepics . May be repeated for credit 1 time. years. May be repeated for credit t time.
FRE 4920 INDEPENDENT READINGS
FRENCH (1-5) Registration Approval: Independent Study Agreement. May be epeated for credit tup to 10 credits.
RRE 4930 FRENCH TUTORIAL PRACTICUM (1-6) Registration Approva: Instructor. For advanced students who wish to assist May be repeated for credit up to 6 credits.

## 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 ardition ments listed above. A minimum of 18 upper-division credits must be in courses taught in German.

## FRENCH PROGRAM REOUIREMENTS

Marilyn Severson, Contact Person

## Requirements for the Major

European Studies majorFrench program requires 40 redits of which 25 must be upper-division, in addition to he 21 base course credits and the other major requirenents listed above. A minimum of 18

## Requirements for the French Studie

 MinorThe minimum requirement for a minor in French studies is 33 credits, of which a minimum of 15 must be upper-division. credits from courses with a European studies prefix and 25 credits from French language courses. 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 stud
credit up to 5 credits. 1101 ELEMENTARY FRENCH I (5) Builds confidence in the four basic skills: understanding, speaking, reading, and writing the
tionship to the language. ${ }_{\text {RRE }} 1102$ ELEMENTAPY FRENCH II (5) Prerequisite: FRE I101 or permission of instructor. Builds connidence in the four basic skills: understanding, speaking, reading, and writing in the
French language. Investigates French cuiture and its relationship to the language.
FRE 1103 ELEMENTARY FRENCH III (5) Prerequisite: FRE 1102 or permission of instructor. Builds confidence in the four basic skills: understanding, speaking, reading, and witing in the to the language. proval: Travel Studies Form. Intermediate French in France Stuid Abroad Proeram or in European Quarter. May he repeated for credit up to 5 credits.

The minimum requirement for a minor in German studies is 33 redits, of which a minimum of 15 must be upper division. Each courses with a European studies prefix and 25 credits from erman language courses. A minimum of 7 upper-division redits must be in courses taught in German. HIS 1202 Modern urope (5) can be included in the total credits.

## German Courses

GER 1100 ELEMENTARY GERMAN (1-5) Registration Approval: Travel Studies Form. Designed for stucents sho have neve
studied German, this course will focus on vocabulary and struc-
GER needed for basic commurication. 1 (5) Builds confidence in he four basic skills: understanding, speaking, reading, and writing tionship to the language.
ER 1102 ELEMENTARY GERMAN II (5) Prerequisite: GER 101 or permission of instructor. Builds confidence in the four erman language. Investigates German culture and its relationship to the language. 102 or permission of instructor. Builds conitidence in the fowe erman language. Investigates the German culture and its relaionship to the language.
ER 2100 INTERMEDIATE GERMAN (1-5) Registration Aprova: Travel Studies Form. Designed for students having studied Iructures needed for basic continues the sturication
GER 2101 DAS ZWEITE JAHR (5) Prerequisite: GER 103 or permission of instructor. Investigates German attitudes toward eview of German language structure supporting the readings.
GER 2102 DAS ZWEITE JAHR (5) Prerequisite: GER 1103 or ermission of instructor. Investigates the issues of faith and valGerman language structure supporting the readings. GER 2103 DAS ZWEITE JAFR (5) Prerequisitie: GER 1103 or permission of instructor. Introduces literary studies in the Gertudent interest. Includes a review of German language structure upporting the readings.
GER 3100 ADVANCED GERMAN (1-2) Registration Approval avel Studies Form. European Quarter GER 3206 TOPICS IN GERMAN LANGUAGE AND LITERA ORE (3-5) Considers themes in German anguage and literatu ustrated in works chosen from diff GER 3260 DIE DEUTSCHEN KUENSTE (3) Explores paint ing, sculpture, architecture, music, theater, and film in Germany with the intention of bringing out the interaction of these arts witt each other, history and language. Uses German as the language for epeated for credit 1 time.
ER 4460 DIE DEUTSCHE LITERATUR VOM
German literature from the early (3iddle Pesents landmark work Geriod. Emphasis will be placed on epic poems,'Minnesang', Rermation writings, the Baroque, and on Lessing, schiller, and Goethe. Includes consideration of genres, themes and social/ historical backgrounds for the selections studied. Uses German a
the language for research, lecture and discussion. Offered alternate years. May be repeated for credit 1 time.
GER 4461 DIE DEUTSCHE LTTERATUR DES 19. UND 20 JAHRHUNDERTS (3) Examines important works by German philosophical movements. Pays close attention to the effect of storical events and cultural changes on the evolution of values. ses German as the language of research, lecture and disclas.

EER 4470 SPEZIELLE STUDIEN AUF DEUTSCH (3) Fo 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. GER 4920 INDEPENDENT READINGS $(1-5)$ Registratio Approval: Independent Study Agreement. May be repeated for
credit up to 10 credits.
GER 4930 GEMAN TUTORIAL PRACTICUM (1-6) Registra
tion Approva: Instructor. For advanced students who wish to assis as dispussion leaders and readers in 1000 level German classes. May be repeated for credit up to 6 credits.

## LATIN PROGRAM REQUIREMENTS

Christina H. Roseman, 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 ments 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 3 credits, of which a minimum of 15 must be upper-division (e.g., CLA 3204; EUR 3247, 3500, 4250; LAT 4920). Each from base requirements for the European studies major and a total of 20 credits in the Latin language.Note: Latin is taught alternate years. For course listings see under Classics.

## RUSSIAN PROGRAM REQUIREMENTS

## Marilyn Severson, Contact Person

## Requirements for the Major

A European Studies major/Russian program requires 4 credits, of which 25 must be upper-division, in addition to ments listed above. In addition, majors must take HIS 3345 Modern Russia (5).

## 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 8 creats from courses with a European studies prefix and at least 20 credits from Russian

## Russian Courses

RUS 1100 ELEMENTARY RUSSIAN (1-2) Registration Ap proval: Travel Studies Form. European Quarter only. RUS 2000 RUSSIAN LANGUAGE STUDY: ELEMENTARY ( 9 ) Registration Approval: Travel Studies Form. Prerequisite: Accep-
tance into the Russian Studies Program. Taught through semester long program of the Coalition of Christian Colleges and Universities in Russia. Class not open to: Freshmen and Non Matriculated.
pUS 2100 BEGINNING RUSSIAN I (5) Builds confidence in four basic skills: understanding, speaking, reading, and writing in the Russian language. Investigates Russsian culture and itrerel. This
ship to the language, as well as the Slavic culture in general. course is on a first year level.
RUS 2105 BEGINNING RUSSIAN II (5) Prerequisite: RUS 2100 or permission of instructor. Provides continued practice reading, writing, understanding and speaking Russian. This cours

## continues the first year level.

 2105 or permission of instructor. A review of Russianpronounciation and grammar, with an emphasis on vocabulary
building through reading Russian texts. This course completes the
first year level and includes reading two Chekov stories.
RUS 3000 RUSSIAN LANGUAGE STUDY: INTERMEDIATE (9) Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the Russian Studies Program. Taught through a semester-long program of the Coailition of Christian Colleges an

## Universities in

RUS 3100 INTERMEDIATE RUSSIAN (3) Prerequisite: RUS 2106 or permission of instructor. A review of the Russian case taught every year.
Travel Studies Form. European Quarter only. word-growth through issues of faith in Russian verb system and every year.
RUS 3207 RUSSIAN WRITERS (3) Themes change on a three year basis: Dostoevski, Tolstoi, the literature of Russian spiritualNot taught every year. May be repeated for credit 1 time. Not taught every year. May be repeated for credit 1 time.
RUS 3300 RUSSKII JAZYK (3) Prerequisite: RUS 2106 or mission of instructor. A review of special categories of Russian RUS 3920 INDEPENDENT READINGS: INTERMEDIATE RUSSIAN (1-5) Registration Approva: Independent Study Agree ment. May be repeated for credit up to 10 credits. RUS 4000 RUSSIAN LANGUAGE STUDY: ADVANCED (9) Registration Approval: Travel Studies Form. Prerequisite:
Acceptance into the Russian Studies Program Taust thr semester-ong program of the Coodition for Christian Colleges and Non-Matriculated
Non-Matriculated.
RUS 4100 RUSSKAIA KULTURA (2-3) Prerequisite: RUS 3300 or permission of instructor. A survey of Russian historical periods by reading excerpts and stories. Not taught every year.
RUS 4200 RUSSKAIA KULTURA (3) Prerequisite: RUS 4200 RUSSKAIA KULTURA (3) Prerequisite: RUS 4100 or by reading short stories or plays that relate to belief and doubt. Not taught every year.
RUS 4300 RUSSKAIA KULTURA (3) Prerequisite: RUS 4200 or permission of instructor. An introduction to Russian literary stud
ies and vocabulary. Readings and discussions focus on masterpieces of Russian literature. Not taught every year.
RUS 4920 INDEPENDENT READINGS: ADVAN RUS 4920 INDEPENDENT READINGS: ADVANCED RUSMay be repeated for credit up to 10 credits. RUS 4930 RUSSIAN TUTORIAL PRACTICUM (1-6) Registration Approval: Instructor. For advanced students who wish to assis in ion and conduct specific cultural research May beroom instruc credit up to 6 credits.

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 ments listed above a minimum of 18 upperdivionc-
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

 MinorThe minimum requirement for a minor in Spanish studies is 33 credits, of which a minimum of 15 must be upper-division Each student minoring in Spanish studies will complete 8 credits from courses with a European studies prefix or HIS 3331 and HIS 3750 and 25 credits of Spanish language courses. A minimum of 7 upper-division credits must be in courses taught in Spanish

## Spanish Courses

SPN 1100 ELEMENTARY SPANISH (1-5) Registration Ap-
prova: TTavel Studies Form. European Quarter or Salamanca 1 Residence Program only. SPN 1101 ELEMENTARY SPANISH I (5) Develops skill in understanding, speaking, reading, and writing the Spanish lan-
guage. Investigates Spanish culture and its relationship to the
language.
SPN 1102 elementary spanish u (5) Red
SPN 1102 ELEMENTARY SPANISH II (5) Registration Ap-
proval: Instructor. Prerequisite: SPN 1101 or equivalent. Develops proval: Instructor. Prerequisite: SPN 1101 or equivalent. Develops
skill in understanding, speaking, reading, and writing the Spanish skirin in understanding, speaking, reading, and writing the spanish
language. Investigates spanish culture and its relationship to the
langlage. proval: 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
SPN 2100 INTERMEDIATE SPANISH (1-5) Registration Approva: Travel Studies Form. European Quarter or Salamanca InResidence Program only.
SPN 2101 INTERMEDIATE SPANISH I (5) Prerequisite: SPN Thasis on pritress towards spanmunish language structure, with erowth in understanding and appreciation of the culture of the Hispanic world; introduction to literature.
SPN 2102 INTERMEDATE SPANISH II (5) Prerequisite: SPN 103 or equivalent. A review of Spanish language structure, with rowth in understanding and appreciation of the culture of the Hispanic world; introduction to literature.
SPN 1103 or NTERMEDIATE SPANISH III (5) Prerequisite SPN 1103 or equivalent. A review of Spanish language structurue,
with emphasis on progress towards communicative comptenc and growth in understanss towards communicative competence Hispanic world; introduction to literature.
Travel Studies Form. EuropeanisH (1-5) Registration Approval: Program only. 3 . Biopean quarter or Salamanca In-Residence SPN 3101 ADVANCED SPANISH (2) Prerequisite: SPN 2103 or to stylistic considerations. May be repeated for credit 2 times SPN 3104 LITERATURE SURVEY: 19TH AND 20 TH CEN TURY (3) Examines works of major 19th and 20th century writers ologies and values. Taught in Spanish and occasionally offered in English. Offered alternate years.
SPN 3105 LTTERATUPE SUR
SPN 3105 LITERATURE SURVEY: GOLDEN AGE (3) Mystics, picaresque novels, peetry and drama, studied in the contexto tof the
period. Taught in Spanish and occasionaly in English. Offered alternate years. Attribute: Writing Course. SPN 3106 LITERATURE SURVEY: MIDDLE AGES (3) Examines the earliest writings in Spanish, including epic poetry, prose,
and lyric poetry, in light of the Medieval Spanish world view Tuugh in Spanish and occasionally in English. Offered alternate years. SPN 4401 TOPICS IN SPANISH LTTERATURE (3) Emphasis
Steries from varies from quarter to quartrer. Taught in Spaninh and occasionpalysis in SPN 4501 TOPICS IN LATIN ANERICAN LITERATURE (3) Emphasis varies from quarter to quarter. Taught in Spanish and
occasionally in English. Offered alternate years. May be repeated for credit Itime. 4920 INDEPENDENT READINGS SPANISH (1-5) Reg. istration Approval: Independent Study Agreement. May be re-
peated for credit up to 10 credits. SPN 4921 INDEPENDENT REA tration Approval: Travel Studies Form Pe SPANISH (9) Registration Approval: Travel Studies Form. Prerequisite: Acceptance ter-long program of Coalition for Christian Colleges and Universities in costa Rica.
tion Approval: Instructor. For adyanced students (1-3) Registra in 1000 level Spanish classes. May be repeated for credit up to 6 credits.

## Linguistics

Kathryn Bartholomew, Contact Person: Jeffre Barnhart, Katya Nemtchinova, Luke Reinsma, Debra 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 languas specialists, or elementary and secondary school teachers. Studies focus on the systems of language-sound, meanin 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
LIN 4145 Phonology.
LIN 4150 Morphology
LIN 4400 Compar
LIN 4410 Syntax
Select 15 credits from the following courses
LIN 4365 Methodology of Foreign Language Teaching (3) IN 4450 Pragmatics and Semantics
LIN 4601 * History of English ( 3 )
LIN 4920 Directed Readings ( $1-10$ )
EdRd 3529 Child Language Acquisition (3)
PSY 4415 Cognitive Psychology (5) ......
Total..
*LIN 460............................................................... 3 English majors.

## Linguistic Courses

LIN 2100 FOUNDATIONS OF LANGUAGE STUDY (3) Deve ops conceptual tools for understanding the nature and the propragmatics. Personal and professional attitudes toward the world of language are re-examined. This course is also offered via distance learning.
Lind processes, with problem-solving experience in the anaysis of English and other languages.
UN 4150 MORPHOLOGY
LIN 4150 MORPHOLGGY (3) A thorough study of word struc-
tures and processes, with roblem-solving experience in tures and processes, with problem-solving expenences
sis of English and other languages
LIN $\mathbf{4 3 6 5}$ METHODOOGY OFOREIGN LANGUAGE Sis of English and other langlages.
LN 4365 METHODOLOGY OF FOREIGN LANGUAGE TEACHING (3) An overview of the theoretical paradigms of second language eearning and teaching, de. fiton and evaluation of communicative competence; strategies for teaching skills of liste instructional materials, including new technology. Course Equiva lent: EDU 4365.

IN 4400 COMPARATIVE SYNTAX (3) Prerequisite: LIN 110 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. Offered alternate
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. Offered alternate years.
LIN 4450 PRAGMATICS AND SEMANTICS ( 3 ) Prere LIN 2100 or permission of instructor. Examines theories of mean ing and reference, and the way context influences the meaning of
discourse.
LIN 4601 HISTORY OF THE ENGLISH LANGUAGE (3) Examines Anglo-Saxon, Middle.
amines 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 $t$ literary expression during its era. Offered aternate years. Cour
Equivalent: ENG 4601.
IN 4920 DIRCTED READINGS (1-10) Registration ApLIN 4920 DIRECTED READINGS (1-10) Registration Ap--
proval Independent Study Agreement. May be repeated for credii proval: Independent Study Agreement. May be repeated for cea
up to 10 credits. Class not open to: Freshmen.
 LIN 4930 TUTORIAL
proval: Instructor. May be repeated for credit up to 3 credits.
Class not open to: Freshmen. LIN 4950 SPECIAL TOPICS IN LINGUISTICS (1-5) May be repeated for creat up to 5 credits. Class not open to.freshmen
and Sophomores.
LIN 4952 SPECIAL TOPICS IN LINGUISTICS (1-5) May be LIN 4952 SPECIAL TOPICS IN repead for credit up to 5 credits. Class not open to: Freshmen repeated for cread
and Sophomores

## Math Education

## See Education section

## Mathematics

Robbin O'Leary, Chair, David C. Brooks, Steven Johnson, Russ Killingsworth, Patricia Oakley, 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 those planning to teach mathematics in secondary schools. The B.S. degree program is designed
for students planning graduate work or professional for students planning graduate work or professiona
careers in mathematics. A mathematics education majo 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. 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 1223 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. undergraduates are required to demonstrate
thematica competency This can be accomplished in any
of the following ways.
score of at least 25.
2. Transfer in with a C or better in MAT 1225 or its
college level equivalen
Achieve a passing score on SPU's mathematics
Complete the required work in Arithmetic Review revealed by the proficiency test results.
5. Successfully complete all 5 credits in Arithmetic Review.
Unless the waivers in 1 or 2 above apply, no student will be allowed to enroll in any mathematics course (except test 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 225; those with three years should take MAT 1110 or 1112 nd 1114; and those with two years should take MAT 1101 owever, mathematics faculty will determine where a 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 abo 15 credits of mathematics which apply to the major is quired for admission to the major.
aye strong computer skills. Students wishing cart should industry or applied mathematics should know a program-
ming language.
MATH LAB. The following courses are available through the Math Lab; Arithmetic Review, MAT 0140, 1102, hours daily for student tutoring and testing. These course 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 the Math Lab follows a mastery learning approach, students may take more than one exam per unit. (Typically a leview and 0140 are available only through the Math Lab, while the other courses are also avilable in regular lectur
ections.
ACTUARIAL SCIENCE. A student interested in becoming an actuary should major in mathematics or nathematics-economics. The following mathematics courses should be included: MAT 4361, 4362, 4725, 4830 and aking exams I II and III as offered by the Society of ctuaries. Further work in economics is helpful.
MATHEMATICS/ECONOMICS. Students desiring a
major in mathematics-economics should consult a mathematics
dvisor for information on a student-designed major.
methe. tics (See Enginering Science. ection)

## Requirements for the Mathematics Major

## B.A. in Mathematics

${ }^{2} 2$ Creedits; 25 upper-division)
the major will be completed by completing one of the
ollowing two options:

## liberal Arts

MAT 1225, 1226 Calculus ................................................ 10

MAT 2335 Probability Theory MAT 2720 Discrete Mathematics MAT 3441 Axiomatic Geometry
or MAT 3443 Transformational Geometry
$\qquad$ MAT 4402, 4403 Modern Algebra MAT 4915 Senior Problems Seminar
 Total.................................................................. *A maximum of 3 credits in 4930 may be applied................................................

## Teaching

MAT 1225, 1226 Calcul $\qquad$

MAT 2228 Multivariable Calculus
MAT 2375 Probability Theory ...
MAT 2401 Linear Algebra ....
MAT 2720 Discrete Mathematic
MAT 3441 Axiomatic Geometry
Geometry
MAT 3750,3751 introduction to Real Analysis
MAT 4402, 4403 Modern Algebra.
MAT 4915 Senior Problems Seminar
MAT 4930 Practicum in M

${ }^{*}$ A maximum of 3 credits in 4930 may be applied.
In each option, MAT 4830 is strongly recommended.

## B.S. in Mathematics

${ }^{65}$ Credits; 38 upper-division)
Seepage 42 or 49 for a summary or degree requirements) MAT 1225, 1226 Calculus..............................
 MAT 22285 Murobability Theory .... MAT 2401 Linear Algebra .... MAT 2720 Discrete Mathematic
 MAT 4402, 4403 Modern Algebra MAT' 4910 Mathematics Seminar...

 maximum of 3 credits in 4930 may be applied.

Fifteen 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 planning graduate work in mathematics are strongly advise to take further work in real analysis in their upper-division program and to acquire a reading knowledge of French, German or Russian.

## Requirements for the Mathematics Minor

(34 Credits; 15 upper-division)
MAT 2225,1226 Calculus .................
MAT 2228 MAT 2375 Probability Theory (3)
or MAT 2375 Probability Theory (3) ............................... 3
MAT 2720 Linear Algebra ...
MAT 2720 Discrete Mathematics .............
Additional credits numbered $3000-9999^{*}$
 * 3750 and 4402 are strongly reco................................................. and a teaching minor must include 3750, 4402 and 3441 . A

Mathematics Courses
at 0121 ARITHMETIC REVIEW I (1) Studies the fundame als of arithmetic. A diagnostic test indicites which topics need his course do nourse apply toward givadizaduation requirements. Offered only in the Math Lab.) als of arithmetic. Adiagnostic test indicat (1) Studies the fundamenand the course is individualized to those needs. Credits in this course o not apply toward graduation requirements. (Offered only in the
MAT 0123 ARITHMETIC REVIEW III (1) Studies the fundamentals of arithmetic. A diagnostic test indicates which topics need eview and the course is individualized to those needs. Credits in this course do not apply to
hat 0124 ARITHMETIC REVIEW IV (1) Studies the fundamentals of arithmetic. Adiagnostic test indicates which topics need eview and the course is indridualzed to those needs. Credits in this
he Math Lab.) ) MAT 0125 ARITHMETIC REVIEW V (1) Studies the fundamen-
tals of arithmetic. Adiagnostic test indicates which topics need review als of arithmetic. Adiagnosice the thoure needs. Credits in this course do not apply toward graduation requirements. (Offered only in the Math Lab.) ( 0126 ARITHMETIC REVIEW VI (1) Studies the fundamentalas of arithmetic. A diagnostic test indicates which topics need course do not apply toward graduation requirements. (Offered only in Me Math Lab.) $\mathbf{~ M} \mathbf{1 4 0}$ INTRODUCTORY ALGEBRA (3) Explores sets, MAT 0140 INTRODUCTORY ALGEBRA (3) Explores sets,
solving equations and inequalities, factoring, fractional and artional expressions, graphing, and word problems. Creditis in this course do not apply toward graduation requirements. (Offered only in the Math Lab.)
AT 1101 INTERMEDIATE ALGEBRA (5) Studies linear and uadratic equations and inequalities, exponents, radicals and ex-
Expressions, and systems of equations. xpressions, 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.)
AT 1103 INTERMEDIATE ALGEBRA II (2) Explores systems of equations, quadratic equations and inequalities, exponential funcredit cannot be received for taking both courses. (Offered only in the ath Lab.)
AT 1110 ALGEBRA AND TRIGONOMETRY (5) Explores algebraic, circular and trigonometric equations and identities and MAT 1114 has been taken.
AT 1112 COLLEGE ALGEBRA (3) Explores inequalities and isebralc functions: linear, quadratic, polynomial and rational. This Courses. (Offered only in Math Lab.)
MT 1114 TRIGONOMETY (2)
MAT 1114 TRIGONOMETRY (2) Studies the development of circular and trigonometric functions, right triangle applications,
rigonometric equations and identities. This is a portion of MAT 110 ; credit cannot be received for taking both courses. (Offered only in Math Lab.)
AT 1221 SURVEY OF CALCULUS (5) Prerequisite: MAT 1101 in applications onientessing score on Mathematics Proficiency Exam rppdications oniented course with an intuitive approach including rawn from to business, differentiaia and integralal calcuilus. Examples ciences. This course is not the prerequisite for 1226 nor can credit be received if 1225 or its equivalent has been taken. MAT 1225 CALCULUS ( 5 ) Prerequisite: MAT 1110 or its equivaent and passing score on Mathematics Proficiency Exam. Exgore variables. Sequence begins both autumn and winter. MAT 1226 CALCULUS (5) Prerequisite: MAT 1225. Explore differential and integral calculus of functions of one or more var

MAT 1228 SERIES AND DIFFERENTIAL EQUATIONS (5) ferequisite: MAT 1226. Studies infinite series, general solutions ystems of differential equations, and series solutuions. site: Passing score on Mathematics Proficiency Exam or completion of Arithmetic Review; MAT 0140 or MAT 1102 or equivalent. xplores descriptive statistics, elementary probability, binomial lyyotheses, regression and correlation. MAT 1521 INTRODUCTION TO CONTEMPORARY MATHEMATICS (5) Prerequisite: MAT 1101 or its equivalent. Explore
topics which illustrate how mathematical methods and models pics which illustrate how mathematical methods and models permeate our economic, positical and personal ives. by invesiig
lion of diverse applications, variety of problem-solving techiques will be introduced, including using the computer as a too MAT 1720 MATHEMATICS FOR COMPUTER SCIENCE (5) rerequisite: MAT 1360 or 1221 or 1225 . Explores set theory, num
ng, linear programming and networks. MAT 1226,2401 . Studies vectors and analytic geometry in three dimensions, partial differentiation and multiple integration.
AT 2375 PROBABILITY THEORY (3) Prerequisite: MAT 226. Studies combinatorial methods, elementary probability andom variables, discrete and continuous probability distributions, expected values and moments, and central limit theorem.
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 and completion of or concurrent registration in Phase I. Include he study of sets, numeration systems, arithmetic, algebra, number heory, probability and statistics and relates topics to the elemen on credit only to students in elementary education. Class not MAT 2531 SURVEEY OF MATHEMATICS II (2) Registration proval: School of Edacation. Prerequisite: MAT 2533 complete easurement, and relates topics to the elementary school math matics curriculum. Available for general education credit only $t$ students in elementary edication. Class not open to:Freshmen. 1226. Studies sets, logic, Boolean Algebra, relations, functions, and

MAT 3401 NUMBER THEORY (3) Prerequisite: MAT 2720 udies topics of classical number tueory including divisibili MAT 3441 AXIOMATIC GEOMETRY (3) Prerequisite: MAT 101 and 2720 . Surveys foundations of Euclidean, non-Euclidean d projective geometries from an axiomatic base. Offered on alternate years. 343 TRANSFORMATIONAL GEOMETRY (3) Prerequii tes: MAT 2720 and 2401. Surveys Euclidean, non-Euclidean, and projective geometries MAT 3724 APPLIED ANALYSIS (3) Prerequisites: MAT 1228 and 2228. Studies vector analysis, Fourier series, partial differen Lial equations, and boundary value problems. MAT 3725 APPLIED ANALLSIS (3) Prerequisite: MAT 3724 . Continuation of MAT 3724 including special functions. Offered MAT 3730 COMPLEX VARIABLES (3) Prerequisites: MAT 228, 2222. Studies theory and applications of complex variables MAT 3750 INTRODUCTION TO REAL ANALYSIS (3) Prereq uisites: MAT $1228,2401,2720$. Explores finite and infinite sets, set algebra, well-ordered sets, real numbers, topopogy of the real lin mann-Stieltjes integral. MAT 3751 INTRODUCTION TO REAL ANALYSIS (3) Prereq isite: MAT 3750. Continuation of MAT 3750 . TISTICS (3) Prerequisites MAT 1228,2228 , and 2375 or permission of instructor. Surveys
continuous probability distributions, sampling, estimating para eters, and testing hypotheses. Offered alternate years.
MAT' 4362 MATHEMATICAL STATISTICS (3) Prerequisite MAT 4361. Continuation of MAT 4361. Offered alternate years. MAT 4402 MODERN ALGEBRA (3) Prerequisite: MAT 375. Attribute: Writing Course.
MAT 4403 MODERN ALGEBRA (3) Prerequisite: MAT 4402 MAT 4403 MODERN ALGEBRA (3) Prerequisite.
Continuation of MAT 4402. Attribute: Writing Course. MAT 4610 THE EVOLUTION OF MATHEMATICA THOUGHT (3) Prerequisites:MAT 3750 and 4402 or permissio of instructor. Investigates the ideas, methods and work of great
mathematicians of the past. Attribute: Writing Course Class not open to: Freshmen and Sophomores.
1228 and 2228 or permission of instructor and facilisites: MA ematically oriented software. Studies numerical integration, diff entiation, solutions of systems of equations, and related topics. Offered alternate years.
MAT 12288, 2228, 2375, 2720 and facility with mathematically orieste softiware. Focuses on construction and analysis of mathematical
models for problems in the real world. The problems will be chomodels for problems in the real world. The problems will be cho-
sen from a variety of fields, including the biological and social sciences, Offered alternate years.
MAT 4904 INDEPENDENT STUDY IN MATHEMATICS (1-5)
Registration Approval Independent Registration Approval: Independent Study Agreement. Prerequisites: to 6 credits. Class not open to: Freshmen and Sophomores MAT 4910 MATHEMATICS SEMINAR (1) Investigates of current interest through student reports. May be repeated for MAT 4915 SENIOR PROBLEMS SEMINAR (1) Provides opportunity for faculty and students to work together on the solutions of problems from a variety of fields in mathematics. Class not open to: Freshmen, Sophomores and Juniors. MAT 4930 PRACCICMM IN MAHEMATICS (1-2) Registra (ion Approval: Instructor. Practical experience in the Math Lab 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. Class not open to: Freshmen, Sophomores and Juniors. MAT 4950 SPECIAL TOPICS IN MATHEMATICS (1-3) May be repeated for credit
men and Sophomores.
music train people to use their gifts as performer compopare students for advanced study in performancograms 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
## GPA Admission Requirement

A minimum GPA of 3.0 is required for admission to the musi major.

## General Requirements for All Music

## 48 credits)

See page 42 or 49 for a summary of degree requirements $/$ MUS 1101 Musicianship I: Materials and Structure MUS 1102 Musicianship I: Materials and Structure MUS 2101 Musicianship I: Materials and Structure .. MUS 2102 Musicianship II: Materials and Structure MUS 2103 Musicianship II: Materials and Structure. MUS 2601 Survey of Music Literature I. MUS 2602 Survey of Music Literature II MUS 2603 Survey of Music Literature III................................ 3
 Piano proficiency. Total...
${ }^{*}$ Piano proficiency is required by the junior year. Stu.......... 48 who are enrolled in Musicianship I or II and who are identified as needing remedial keyboard skills may be eyboard proficiency exam (requird of mail is passed.
**All music majors are required to be in a large conducted ensemble each quarter in full time residence. Participation in ensembles is optional in the quarter in which a recital or internship is scheduled.

## Music

ernon Wicker, Chair; David Anderson, Myrna Capp Waynes Denman, Eric Hanson, Ramona Holmes, Rae Terpenning
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 skill masicians emphip and performance 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 nusic major with in a liberal arts setting. Students majoring elementary and secondary schools. Other music in the

The general education 5 -credit core requirement for fine arts should be met through courses in theatre or visual arts.

SPECIFIC REQUIREMENTS FOR THE MUSIC DEGREE WITH SELECTED EMPHASES (Select one of the five emphases)

## I. Requirements for Music Education,

-12 Teaching Emphasi
Anyone majoring in K -12 music education also must complete education courses and internship requirements or certification. See requirements in School of Education ection of the Catalog.

General requirements for all majors $\qquad$ ... 48 major must meet guitar proficiency

## Additional requirements

9 Credits)
US 2250 Foundations of Music Education ..........................
MUS 3503 General Music Methods and Materials $\qquad$
Teaching options (Select one of the three)
A. Combined choral/instrumental option
( 30 or 31 Credits)
MUS 1260 Beginning Voice* $\qquad$
MUS 2502 Percussion Techniques
MUS 2503 String Techniques ...
MUS 2504 Woodwind Techniques

 MUS 3603 Choral Literature MUS 3604 Instrumental Literature MUS 4101 Instrumentation and Orchestration (3) or MUS 4102 Choral Arranging (2)
MUS 4701 Choral Conducting I
MUS 4702 Instrumental Conducting 1
MUS 4262 Vocal Pedagogy and Technique
See music performance requirement. .................................................. apply toward Musical Performance.

## B. Choral/vocal option

## (29 Credits)

nstrumental concept
MUS 2501 Brass Techniques
MUS 2502 Percussion Technique
MUS 2503 String Techniques .....
MUS 3505 Instrumental Music
Methods and Materials I $\qquad$


## Choral concepts

MUS 3504 Choral Music Methods and Materials I......... MUS 3503 chora Literture MUS 4102 Choral Arranging MUS 4701 Choral Conducting
MUS 4703 Choral Conducting
MUS 4941 Choral Conducting


## ocal concepts

MUS 2260 Singers Art I $\qquad$ USS 1260 Vocal Pedagogy and Techniques See music performance requirem...
*Individual vocal instruction may be substituted.

## Instrumental optio

## Credits

Choral concepts
MUS 3504 Choral Music Methods and Materials I ......... 2
. Begining Voice
nstrumental concepts
MUS 2501 Brass Techniques.... MUS 2502 Percussion Techniq MUS 2504 Woodwind Techniques

US 3505 Instrumental Music MUS 3604 Instrumental Literature
 MUS 4702 Instrumental Conducting I
See music performance requirement
Music performance: In addition to the 3-6 credit

1. Instrumental: 6 credits minimum of individual instruction, of which 3 credits minimum must be upper-division. One half hour recital.
2. Keyboard: 6 credits minimum of individua
instruction, of which 3 credits minimum must be
upper-division. One half hour recital.
3. Vocal: 3 credits minimum of individual instruction division. One half hour recital.

## II. Requirements for Performance

Emphasis
Audition is required for entry into any music performance program and for all individual instruction.

Emphasis options (Select one of the three)
A. Percussion, string, wind performance option (24 Credits)
Context Studies in Musi
(Select from MUS 4654, 4655, 4656; topics change yearly) Individual Instruction (in addition to the 6 credits require ( 12 upper-division required)
Ensemble: (see general requirements for all majors Recitals: One half hour junior solo recital and one full hour
senior solo recital.

## ormance option

B. Piano p

MUS 3506 Piano Pedagogy
MUS 3507 Piano Pedagogy I
 Context Studies in Music

Individual Instruction (in addition to the 6 credits requir
of all majors) .......................
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
Recitals: One half hour junior solo recital and one full hour senior solo recital.
C. Vocal performance option
(29 Credits)
MUS 2260 The Singer's Art I, , _ MUS 2261 The Singer's Art I
MUS 4261 Sacred Vocal Repertoire
MUS 4262 Vocal Pedagogy/Techniques
Con ${ }^{2}$ Stan (Select frem MUS 46544.465 46................................... (Select from MUS 4654, 4655, 4656; topics change yearly)
Individual Instruction (in addition to the 6 credits required Individual Instruction (in addition to the 6 credits required
( 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.

## III. Requirements for Piano Pedagogy <br> Emphasis

Geral requirements for all majors 48

## Additional requirement

## (31 credits)

MUS 3506 Piano Pedagogy I
MUS 3507 Piano Pedagogy II
MUS 3508 Piano Pedagogy III......
MUS 3601 Survey of Piano Literat
Context Studies in Music $\qquad$
 (Select from MUS 4654, 4655, 4656; topics change yearly) MUS 4920 Directed Readings in Piano Pedagogy. MUS 4960 Special Projects in Music.
PSY 3460 Child Developmental Psychology
Individual Instruction (in addition to the 6 credits required
( 6 upper-division required; juries are required) Ensemble: see general requirements for all majors: a minimum of 4 quarters of Keyboard
Ensemble/Accompanying class required; see Music
Ensemble/Accompanying class required; see Music
Handbook (checksheet for Piano Pedagogy Emphasis).

## IV. Requirements for Theory and

Literature
(72-77 Credits) General requirements for all majors $\qquad$ ..... 48

## Additional requirements

(24-29 Credits)
Context Studies in Music.......................................... 12
(Select from MUS 4654, 4655, 4656; topics change yearly)
Individual Instruction....................
Ensembles: (see general requirements for all majors)
Emphasis options (Select one of the two)
A. Composition option

MUS 3608 Music Technology Applications .............................. 5
(These credits to be distributed over at least three.
quarters and culminating in senior composition)
B. Music theory and literature option

Context Studies in Music $\qquad$ $\cdots . . . . . . . .3$
(Select from MU
required above)
MUS 4921 Directed Readings in Music
(These credits to be distributed over at least two quarter
and culminating in a senior paper.)
V. Requirements for General Emphasis
(73 Credits)
eneral requirements for all majors
Additional requirements
Upper-division music elective $\qquad$
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.
Ensemble participation
Individual instruction..

Application should be made to the Division of Fine Arts. Forms are available in the Division office.

## Fees in Applied Musi

For fees in applied music see the Cost section of the

## Music Courses

MUS 1101 MUSICIANSHIP I: MATERIAL AND STRUCTURE (5) Deals with basic musical skills of listening, analysis, improvi-
sation, movement,conducting, writing, performance and historical sation, movement,conducting, writing, performance and historical
understanding of music. Students will participate in lecture and understanding on music. students wil participate in ecture and begin in autumn quarter. Extra fee.
MUS 1102 MUSICLANSHIIP II MATERIAL AND STRUCTURE (5) Prerequisite: MUS 1101. Students having prior music theory
training may fufill prerequisite by examination. Request chall training gay fulfill prerequisite by examination. Request challenge
examination prior to fall quarter. Deals with basic musical skills of listening, theory and analysis, writing, improvisation, movement, onducting, performance and historical understanding of music. Students will participate in lecture and laboratory settings including computer assisted instruction. Extra fee. (5) Prerequisites: MUS 11101 and 1102 . Students having prior music theory training may fulfill prerequisite by examination. Reques challenge examination prior to Winter Quarter. Deals with basic
musical skills of listening theory and analysis improvisation movement, conducting, writing, performancee 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 tre based on individual needs. Empha-
sis is on note-readinu, basic theory, chord usaga and technical sis is on note-reading, basic theory, chord usage and technical
development. Extra fee. May be repeated for an unlimited number of credits. 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 an creative activities. Extra fee. May be repeated for an unlimited MUS 1252 ADVANCED KEYBOARD CIASS $(2)$ with four or more years of piano background. Course is designed or the non-music major, and expectations for each student are ased on individual needs. Emphasis is on basic theory, chord repeated for an unlimited number of credits. Class not open to: Music majors.
MUS 1254 Beginning Kevboard proficiency (2) For students with no previous keyboard experience. Sight-reading,
harmonization, transposing, and technical development will be emphasized in order to meet piano proficiency requirements. estricted to music majors or intended majors only. Extra fee. ay be repeated for an unlimited number of credits. Class ope MUS 1255 INTERMEDIATE KEYBOARD PROFICIENCY (2) or students with at least two years prior training in piano. Sighteading, harmonization, transposing, technical development and
creative activities will be emphasized in order to meet pian creative activities wiil be exphasizeed in order to meet piano profi-
ciency requirements. Extra fee. May be repeated for an unlimited number of credits. Class open to: Music majors.
Udents with four or more years of piann pargiciency (2) For students with four or more years of plano back kround. Sight-read-
ing, harmonization, transposing, and technical development 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. per week. Emphasis is on basic vocal techniquu: breath control, tone placement, diction, and stage presence. Music includes clasical, folk, and American music. Extra Fee. May be repeated for an nlimited number of credits. proval: Instructor. Prerequisite: 1 credit of MUS 1260 or equuivalent. mphasis is on developing vocal technique through the use of

MUS 1270 beginning FoLk guitar (1) Introduction to olk style guitar playing. May be taken by music education majors
o meet guitar proficiency. Extra fee. May be repeated an unlimed number of times.
MUS 1271 INTERMEDIATE FOLK GUTTAR (1) Prerequisite MUS 1600 EXPLORING AND UNDERSTANDING MUSIC (5) The focus is on the pleasure of listening with understanding, using dividual, classroom and concert experiences. Introduces basic ements of music as preparation for enjoying masterworks in 1 ges development of listening skills and knowledge of music avaible in our city. Class not open to: Music majors.
US 2101 MUSICIANSHIP II: MATERIALS AND STRUCmusical elements as in Musicianship I emphasizing 16th and 18 th entury counterpoint. Skills of composition, aural dictation, impro sation, use of technology and analysis will be developed. Empha sperience with contrapuntant procedures. Extra fee. Extra fee. Orequisite: MUS 2601 .
MUS 2102 MUSICIANSHIP II: MATERIALS AND STRUCTURE 4) Prerequisite: MUS 2101. Continued integrated study of musical odulution, Skills of composition, aural dictation, improvisation, us technology and analysis will be developed. Emphasis is on developunderstanding of and compositiona experience with larger mus MUS 2103 MUSICIANSHIP II: MATERIALS AND STRUCURE (4) Prerequisite: MUS
102. Continued integrated study of musical elements as in Musi canship I emphasizing chromatic harmony, modulation and 20t chenkerian theory and to basic atonal theory. Skills of composi ion, aural dictation, improvisation, use of technology and analysis ill be developed. Emphasis is on developing understanding of orequisitit: MUS 2603. MUS 2260 THE SINGER'S ART I (3) Prerequisite: 3 credits of US 1260, 1261 or 3 credits of MUS 2219. A study and application he principles of artistic performance, with special emphasis on

MUS 2261 THE SINGER'S ART II (3) Prerequisite: MUS 2260 he study and performance of the German and French vocal repe diction, style and interpretation. Prerequisite to upper division MUS 2501 BRASS TECHNIQUES (1) Designed for music ducation majors, Students learn how to teach the various brass struments. Emphasis on demonstration of good tone and diagno Class not open to: Freshmen.
MUS 2502 PERCUSSION T UUS 2502 PERCUSSION TECHNIQUES (1) Designed for music education majors. Students learn how to teach the percus eshmen.
MUS 2503 STRING TECHNIQUES (1) ( 1 credit in each of 2 uarters) May be taken for 2 quarters. Designed for music educ bion majors. Students learn how to teach string instruments. May ot open to: Freshmen.
Uusic education majors. Students learn how to teach the wood ind instruments. Emphasis on demonstration of good tone and diagnosis of student problems in a lab setting. Offered alternat ears. Class not open to: Freshmen.
US 2550 FOUNDATIONS OF MUSIC EDUCATION ( 3 ) cciety and of the learner, the nature of musical learning, the coas ent of music curriculum, structuring for music learning and mangement of the learning environment. May be taken prior to or Music majors. MUS 2601 SURVEY OF MUSIC LITERATURE I (3) A chron logical study of the development of Western art
early Medieval period through the Baroque Era.

MUS 2602 SURVEY OF MUSIC LITERATURE II (3) Acho nological study of the development of Western art music in the
Pre-Classical Period and the Romantic Period through Richard Wagner.
MUS 260 MUUS 2603 SURVEY OF MUSIC LITERATURE III (3) A chro note Romatudy period 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 tho traditions can be experienced today in the city of Seattle. Class not open to: Music majors.
popular music in America, its PLAR MUSIC (5) A survey of popular music in America, its development, variety and influences
on American culture. Emphasis is on listening, styles and the ele ments of musical notation, terminology, and form. Class not ope to: Music majors.
MUS 2654 WORLD MUSIC (3) This course explores the significance of music in different societies viewed from a Christian perspective. Emphasis is on the music of sub-Saharan Africa, but include Asia, Eastern Europe and the Middle Eas.
MUS 2655 WORLD MUSIC LABORATORY (2) Provides prac tical hands-on experience in performing on instruments used in music from sub-Saharan Africa, Eastern Europe, the Middle East Corequisite: MUS 2654.
MUS 3401 MUSIC AND WORSHIP (2) A study of the philosophical, biblical and theological relationships of music to worsh
MUS 3500 FUNDAMENTALS OF MUSIC FOR FUTURE TEACHERS (2) This course covers basic music theory including rhythmic sightreading, interpretation of pitch notation and basic chording. Students who have had basic theory may test out of this General Education Fine Arts Options credit. Class not topen to: Music majors. Class not open to: Freshmen and Sophomores.
MUS 3501 ELEMENTARY METHODS AND MAT
MUS 3501 ELEMENTARY METHODS AND MATERIALS (3) Thisequisite: Concurrent enrollment or completion of MUS 3501 . ementary classroom for the regular classroom teacher. It focuse 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 Class not open to: Music majors. Class not open to: Freshmen and Sophomores. 3502 MUSIC IN SPECIAL EDUCATION (3) Prerequirillment in or compleion Mus 300. This with children who have special needs. Materials for use with chil dren are developed. This course is designed for special education majors. Elementary education certification students may take M not open to: Freshmen and Sophomores.
no topen to: Freshmen and Sophomores.
MUS 3503 GENERAL MUSIC METHODS AND MATERIALS (3) Prerequisite: MUS 2550 . A surrey of methods for instruction in elementary classroom music and secondary general music programs. hose settings and preparation of materials appropriate to age levels. Class open to: Fine \& Applied Arts ma jors and Music majors. Class n MUS 3504 CHORAL MUSIC METHODS AND MATERIALS I (2) Prerequisite: MUS 2550 or permission of instructor. A surve of the teaching methods, rehearsal techniques, and choral organi: zation from the elementary school chorus through the adult choir Emphasis is on development of diagnostic renearsal skills throul
special class projects and survival skills for the beginning choral director. Offered alternate years. Class open to: Music majors. Class not open to: Freshmen and Sophomores. MUS 3505 INSTRUMENTAL MUSIC METHODS AND MATERIALS I (2) Prerequisite: MUS 2550. A survey of the instru-
mental music program, grades 5 -12. Emphasis is on examination of appropriate eteaching materials, teaching methods for various sro-
gram levels, program planning and development, and evaluation of
parner progress. Experience in planning and presenting mode learning experiences in instrumental music is provided. Offere Freshmen and Sophomores.
MUS 3506 PIANO PEDAGOGY I (2) Emphasis is upon develaping evells. Includes an examination of ideas and theories about learning and teaching, observation of teaching, the study of teac ing strategies and literature, student teaching and use of music MUS 3507 PIANO PEDAGOGY II (2) Prerequisite: MUS 350 Continued emphasis upon developing a philosophy of music teact ing. An examination of ideas and theories about learning and teaching the in teaching strategies and literature student teacl ing, and use of music technology. Offered alternate years. Aatribute: Writing Course.
UUS 3508 PIANO PED
MUS 3508 PIANO PEDAGOGY III (2) Prerequisite: MUS 3507 Continued emphasis upon developing a philosophy of music teachUse of videotape. Ofiered alternate years. MUS 3514 CHORAL METHODS AND MATERIALS II (2) Pre requisites: MUS 2250, 3504 . An in-depth study of the methots and for teaching vocal jazz. Emphasis is given to understanding the chora instrument. Designed for Music Education majors. Offered alternate years. Class not open to: Freshmen and Sophomores. II (2) Prerequisite: MUS 3505. Continuation of MUS 3505. Designed for Music majors. Offered alternate years. Class not open to. Freshmen and Sophomores.
MUS 3601 SURVEY OF PIAN
MUS S sudy Suiver OF PIANO LITERATURE (3) A chronological stuy olppiano itererature from the 18 th century to the present tices and styles of the periods involved. Offered a diternate years. Melected masterpieces of standard operatic repertopire from on selected masterpieces of standard operatic repertiore from an
historical and aesthetic perspective. Ideas and themes of operas are related to social, moral, political and religious issues confronting indivivuals in society. Attendance at live opera productions is a preshmen and Sophomores. MUS 3603 CHORAL LITERATURE (2) Prerequisites: MUS 1101, 1102, 1103. A survey of choral music representing historical fhoirs in in orades $5-12$ Condiasis is on literature appropriate for ming. Offered alternate years. Class not open to: Freshmen and Sophomores.
MUS 3604 INSTRUMENTAL LITERATURE (2) Prerequisites: for performance by groups in grades 5 -12. Class not open to: Freshmen and Sophomores.
MUS 3608 MUSIC TECHNOLOGY APPLICATIONS (5) Pre-
requiste: Must requisite: Must have elementary piano playing skills, no computer
skills necessary. Students will receive daily hands-on experience at an individual workstation consisting of a MIDI keyboard and Macintosh computer. The lessons include a study of FINLLE nota-
tion software with an emphasis on task-specific solutions ranging tion software with an emphasis on task-specific solutions ranging will include desktop publishing and MIDI sequencing software applications. Extra Fee. May be repeated for credit 2 times. MUS 4100 COMPOSITTON (1-3) Prerequisites: MUS 2103 or course teaches musical composition in accordance with stated aesthetic values. Students move through levels of increasing complexity and self-jinitation. May be repeated for credit up to 9 credits. Prerequisite: MUS 2103. A study of the history technical limitations and use of orchestral instruments. Practical experience in arrangin lor various combinations of instruments is provided. Offered alternate years. Class not open to: Freshmen and Sophomores.
MUS 4102 CHORAL ARRANGING (2) Ppremuisites: 1101, 1102, 1103. A study of the basics regarding the use of voice in choral music and methods of arranging music for them. Practical experience in arranging for various choral ensembles is pro-
vided. Offered alternate years. Class not open ided. Offered alternate years. Class not open to: Freshmen and

MUS 4261 SACRED VOCAL REPERTOIRE (3) Registratio Approval: Instructor. Prerequisites: MUS 1260, 2219. A study of some of the great sacred solo vocal repertoire. Special attention MUS 4262 VOCAL PEDAGOGY AND TECHNIOUES (2) Registration Approval: Instructor. Prerequisites: MUS 1260,22 This course is designed to explore and understand the nature of the singing voice and methods of vocal instruction. Class not open MUS 4360 OPEPA WORKSH nstructor. Practical experience in preparation and performance of scenes from opera repertoire. May be repeated for an unlimited MUS 4401 THE SONG OF THE CHURCH (3) A study of cons regational singing including its history, its genre, its criticism and its effective use in the worship service.
CONTEXT STUDIES IN MUSIC 4654-4656
These courses involve an integrative approach to advanced musi includes reading, writing, listening, analysis, composition, improvisation and computer notation. Topics change yearly.
MUS 4654 CONTEXT STUDIES IN MUSIC THI MUS 4654 CONTEXT STUDIES IN MUSIC: THE SYMPHOI103, 2601, 2602 and 2603. This course studies, in depth the symphonies of Gustav Mahler, subbjecting them to analysis and examining the philosophical, historical and cultural forces brought to bea
on their conception. Listening, viewing slides, and writing in the style are some of the many activities in this course. Also considered as a symphonic work will be Das Lied von der Erde. May be repeated for credit 3 times. Attribute: Writing Course. Class open
to: Music majors. Class not open to: Freshmen and Sophomores.
 OF BACH (3) Prerequisites: MUS $1101,1102,1103,2601,2602$ and 2603. J.S. Bach composed in virtually every style and form of his day except opera. This course will be an in-depth exploration of cluding the solo and orchestral concerti, the dance suites, the choral works, solo works for organ and harpsichord. Activities will include listening, score study, analysis, composition and perforrepeated for credit 3 times. Attribute: Writing Course. Class ope o: Music majors. Class not open to: Freshmen and Sophomores. MUS 4656 CONTEXT STUDIES IN MUSIC:TOPPC TO BE
ANOUNCED (3) Prerequisites: MUS $1101,1102,1103,26012602$
 epeated for credit 3 times. Class open to: Music majors. Class not open to: Freshmen and Sophomores.
MUS 4701 CHORAL CNDUCTING: I (3) Prerequisites: MUS 101, 1102, 1103. A course designed to develop advanced choral MUS 4702 INSTRUMENTAL CONDUCTING I (3) Prerequi ite: MUS 1101, 1102, 1103 or equivalent. A course designed to ion, and conducting with an instrumental emphasis. Offered alternate years. Class not open to: Freshmen and Sophomores. UUS 4703 CHORAL CONDUCTING II (3) Prerequisites: MUS instructor. Advanced choral conducting techniques are empha sized, including topics such as recitative, working with instruments, reading complex scores, etc. Class not open to: Freshmen MUS 4774 INSTRUMENTAL CONDUCTING II (3) Prerequisite: MUS 4702 or permission of instructor. A continuation of activities of MUS 4702. May be repeated for credit 1 time. Class not Men to: Freshmen and Sophomores. 1-3) Registration Approval: Independent Study Agreement Independent study in music educaction. May be repeated for credit up 109 credits. Class not open to: Freshmen and Sophomores. 3) Regisitration Approval: Independent Study Agreement. Indepen) Registration Approval: Independent Study Agreement. Indepencredits. Class not open to: Freshmen and Sophomores.

MUS 4941 CHORAL CONDUCTING INTERNSHIP (3-5) Registration Appprova: Intern Learning Contract Req. An opportu-
nity 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. Class no Mpent of Frestmen and sophomores. (3-5) Registration Approval: Intern Learning Contract Req. An opportunity for qualified instrumental conducting students to gai vanced ensemble. May be repeated for credit up to 10 creditsClass not open to: Freshmen and Sophomores. MUS 4943 MUSIC INTERNSHIP (3-5) 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 project onthe suass not open to: Freshmen and Sophomores.
to 10 credits. Clas
MU 4950 SPECIAL TOPICS IN MUSIC ( 2 -5) Registration MUS 4950 SPECIAL TOPICS IN MUSIC ( $2-5$ ) Registration Approval: Instructor. Topic and credits to be announced in Time only upon evidence of significant student interest. Topics might include the music of a specific composer, time, or culture; the pedagogy of a aarticular teacher or methodology; or techniques of to 10 credits. 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
its. Class 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 may be repeated for an unlimited number of
credits. Upper-division courses are open to fine arts major 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 $2207 / 4207$ INDIV. INSTR.-TROMBONE 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 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 221544215 INDIV. INSTR.-HARP (1-2) MUS 22174217 INDIV INSTP 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. Vocal instruction for non-majors beyond 6 credits will be met through MUS 2260, 2261. May be repeated for credit up to 6 credits.

MUS 2220/4220 INDIV. INSTR.-CLASSICALGUITAR (1-2) MUS 2221/4221 IND.N. INSTR.-SAXOPHONE (1-2) MUS 2223/4223 INDIV. INSTR.-JAZZ GUITAR (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) Selecte scholarship performing group that represents the University in 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 yea
Occasional performances for chapels, at the annual sevvice of Lessons and Carols, and at selected churches and community orga
nizations as an outreach of the University.
MUS 2306/4306 BRASS 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 MUS 2311/4311 JAZZ ENSEMBLE (1) An organization of up to 77 instrumentalists which specializes in the preparation, study and performance of music from the jazz literature.
MUS $2312 / 4312$ MEN'S CHOIR (2)
Mus. Participates in major choral concerts throughoub the 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 org MUS 2340/4340 CHAMBER ENSEMBLE (1). Includes chamber music experience of various types - woodwind, brass, string and percussion and mixed. MUS 2350/4350 CONCERT CHOIR (2) A choral ensemble of men and women, Concert Choir performs several major concerts during each academic year. group of selected wind and percussion players, this ensemble
provides an opportunity for in-depth experience in the perfor provides an opportunity for in-depth experience in the perfor-
mance of wind ensemble and band repertoire.
MUS $2353 / 4353$ SYMPHOY ORCHESTRA (2) An ensemb Mance $2333 / 4353$ SYMPHONY ORCHESTRA (2) An ensemble
MUS of strings with selected woodwinds, brass and percussion instru-
ments, performing works from the extensive orchestral literature in preparation and performance of scenes from opera repertoire.

## Natural Sciences

(Interdisciplinary courses)
NMS 3980 PREPROFESSIONAL HEALTH SCIENCES FIELD EXPERIENCE (2) Registration Approval: Instructor. A course arranged on an individual basis, preeerably before third year, whic
includes several components: an actual 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 profes-
sionals who are in various stages of training and practice a recor sionals who are in various stages of training and practice; a record and perceptions that is to be submitted; readings which emphasize ethical questions and dilemmas. Extra fee.
NMS 4525 ENVIRONMENTAL EDUCA
NMS 4525 ENVIRONMENTAL EDUCATION FOR ELEMENoutdoor activities, classroom activities, field trips, regional environmental resources, readings, teaching strategies, discussions. Offered summers only. Course Equivalent: EDSC 4566

## Nursing

See Health Sciences section

## Phillosophy

aniel Howard-Snyder, Chair Phillip Goggans, Stephen Layman, Michael Macdonald
philosophy is the attempt to answer certain persistent human questions. These questions fall into three traditiona groups: axiology (the theory of value), metaphysics (the theory of being), and epistemology (the theory of good?", "What is real?", and "What is knowledge and how an one achieve it?" By studying what the great philosophers have said about these questions, one can develop a clear personal philosophy (and a clearer grasp of Christian heology), learn about the history of thought, and develop nalytical skills that can be applied to any other field. ninistry and education but philosophers a also found most ther 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
cumulative GPA of 25 or higher $(40=A)$ in cumulative GPA of 2.5 or higher ( $4.0=A$ ) in all college work ppeceding application to the major 45 credits immediately

Requirements for the Philosophy Major 55 Credits; 25 upper-division)
See page 42 or 49 for a summary of degree requirements
Introductory Course
PHI 1100/3100 Faith and Philosophy
History Courses
HH 3601 Ancient Philosophy
H3 3631 Rationalist ...........
Systematic Courses
PHI 2231 Logic I.... $\qquad$
PH 3310 Theories of Knowled
PHI 3701 Theories of Ethic
$\qquad$
the following:
PHH 3311 Metaphysics (5)
Phi 3041 Twentieth Century Philosophy (5)
Total.
HIS 3435 may be inc.......................................................
Students who choose philosophy as a second major must rn a total of 50 credits 25 of which second major ivision. The distribution of the 50 credits among the various areas is similar to the above; however, the student ray omit 5 credits from the history, systematic or elective Courses with the approval of the philosophy faculty.
All students who complete the philoso hy major All students who complete the philosophy major must e proficient in a foreign language. Proficiency is uarter of a first year college-level foreign language or its quivalent. For alternative ways of satisfying this equirement, see the general education section of the Lalog. Language proficiency is not satisfied as part of the ranscript records the completion of foree unless the f foreign language coursework.

Requirements for the Philosophy Minor (30 Credits; 15 upper-division)
ntroduction
PHI 1100 or PHI 3100 Faith and Philosophy....................... 5

## History Courses

Select one course from the following
PHI 3601 Ancient Philosophy (5)
PHI 3621 Empiricism (5)
PHI 3631 The Rationalists and Kant (5) $\qquad$ $\cdots \cdots$
Systematic Course
PHI 2231 Logic I..
Elective
Total. $\begin{array}{r}. . . . . .3 \\ \cdots \\ \times . .17 \\ \hline\end{array}$


## hilosophy Courses

## ntroductory

All students should take one of the introduction courses elow as a prerequisite for courses listed under history, elow (PHI 1100/3100) meats the 5 credit foundations elow (PHI 1100/3100) meets the 5 credit foundations equirement in Christian Perspective

PHI 1100 FAITH AND PHILOSOPHY (5) Emphasizes the use of analytical and argumentative skills in developing a systematic
world view. Special attention is given to philosophical ouestions
 does one determine whether an act is right or wrong. HI 2231 LOGIC I (3) An introduction to the theory and pracice of critical thinking. Emphasizes informal logical tools, e.g., entifying arguments, recognizing argument forms, detecting mbolic techniques will be treated.
PHI 2232 LOGIC II (3) Prerequisite: PHI 2231. Emphasizes
formal (symbolic) methods. Topics include: propositional logic, predicate logic, modal logic and inductive logic.
HI 2801 C.S. LEWIS AND VALES sights into the nature of humanness the Examines Lewis' sssibility of other worlds evaluates L Lee meaning of life, and the value issues, e.g., marriage, divorce, friendship. Sills in (5) Emphasizes the us rld view son and world view. Special attention is given to philosophical questions about God and ethics, e.g., Can God's existence be proven? Why
does God permit evil?
God the source of all meral wale? does one determine whether an act is right or wrong? PHI 3310 THEORIES OF KNOWLEDGE (5) What is knowledge? How does knowledge differ from mere belie? Can it be shown that some opinions are better than others? Are some prop-
sitions self-evident? Must all rational beliefs be supported by evidence? Are the five senses the only sources of human knowledge? Attribute: Writing Course.
PHI 3311 METAPHYSICS (5) Analysis of some of the main
traditional problems in metaphysica and the standard for their solutions: freewill and determinism, mind-body relations, the nature of individuals (the problem of substance). Offered alternate years. Attribute: Writing Course
Explores a range of issues in social ethics from andiloso (5) theological standpoint, e.g., Are free markets fair? Is senetic englneering immora? Should drugs be legalized? Should the church b involved in politics? Is feminism compatible with Christianity? Offered only via distance learning.
PHI 3550 THE CONCEPT OF apply to God? If so, how? Are the tenets of classical monotheism (e.g., that God is omnipotent omniscient classical monotheism ent in themselves? Are they compatible with good, free, etc.) conerother basic beliefs we hold (e.g., human freedom)? Attribute: Writ-
ing Course. ing Course.

## Philosophy

"People are often surprised to learn that philosophy majors do very well in the job market. Why? Because they've learned to reason carefully, to write well, and to communicate about important and complex issues - all
greatly valued skills greatly valued s work."

Steve Layman Philosophy
 ation may be given to post-Aristotelian developments, e.g., Stoicism and Neoplatonism. Attribute: Writing Course. PH 3621 EMPIRICISTS (5) Focuses on the works of Locke, physics and epistemology. Attribute: Writing Course. PHI 3631 THE RATIONALISTS AND KANT (5) Focuses on the works of Descartes, Spinoza, Leibniz and Kant, with emphasis on their theories
Writing Course.
PHI 3641 TWENTIETH CENTURY PHILOSOPHY (5) Surveys major philosophical movements from the late 19 th century to th indedle of the 20th century. Special attention is devoted to the James and Peirce), and various analytic philiososphers (e.g., Moore,
Russell, Wittgenstein and the positisists). Offered atiernate years. Russell, Wittyenstein ar
PHI 3701 THEORIES OF ETHICS (3) An examination of the main philosophical theories of ethics, e.g., cultural relativism, main philosophical theories of ethics,e.,.,", thical esiaism, utilitari mism, deontological views (such as those of Kant and Ross), an irtue ethics. Attribute: Writing Course.
mination of a series of contemporary moral issues rigorous exsurrogate motherhood, euthanasia, the death penalty, discriminaion, affirmative action, economic justice, world hunger, we lfare, Course.
PHI 3770 TOPICS IN POLITICAL PHILOSOPHY (3) In-depth tudy of a crucial topic in political philosophy. Examples: Philoophical Impicaions of hee rencir Revoluina, he Rule of Law nate years. May be repeated for credit up to 6 credits. Attribute: WHiting Course.
Hiting 801 Course. Le. LewIS AND vaLues (3) Examines Lewis' sights into the nature of humanness, the meaning of life and the possibibility of other worlds; evaiuates Leve, marriage, divorce, friendship. Attribute: Writin CHI 3999 MIND AND IMMORTALITY (3) What sort of thing I I? Am I a complicated but purely physical thing? Am I a nonhysith? These questions will be addressed in light of contempora iscussions in the philosophy of mind. Offered alternate years. HI 4451 THE EXISTENCE OF GOD (5) Can God's existence be proved? What are the main arguments for and against the exist nce of God? Why does God allow so much suffering? Is it reaso able to believe that God exists? Attribute: Writing Course.
PHI 4661 THE BEST OF C C LEWIS $(3)$ Identifies ba iterary, philosophical, and theological categories of Lewis' work. waluates the insights in the great themes which permeate Lewis literature through examining his major works. Works studied in-
clude Mere Christianity, Scewtape Letters, Great Divorce, Last attle, and The Four Loves. Incorporates lecture series. HI 4785 AESTHETICS ( 3 ) Is beauty an objective quality that a hing either has or does not have, or are aesthetic judgments erely expressicount in evaluating art? What is the proper functio of art, and of the art critic? Offered alternate years. Attribute: Writing Course
HI 4880 PHILOSOPHY OF SCIENCE (3) Examines two be tefs which have come under attack in this century:(1) The sciences, especially the natural sciences, are models of rationality,
and (2) scientific theories tell us about reality. Readings are fro he works of such philosophers as Ayer, Popper, Hempel, Kuhn; Feyerabend and van Fraassen. Offered alternate years. Attribute:
Hit 4920 DIRECTED READINGS AND RESEARCH (1-9) Registration Approval: Independent Study Agreement. Class ope PHI 4921 directed readings in the philosophical WRITINGS OF C.S. LEWIS (1-5) Registration Approva: Independent Study Agreement. Offers directed study in the explicitly hilosophical writings of Lewis, e.f., The Abolition of Man, The

Glory and Other Addresses, God in the Dock. May be repeated fo PHI 4930 PHILOSOPHY PRACTICUM (1-2) 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 4 creedits. Class open Sophomores.
Sophomores. 4950 SPECIAL TOPICS IN PHILOSOPHY (1-5) An indepth exploration of a specific philosophical topic chosen by the to: Juniors and Seniors.

## Physical Education

Grant Hill, Chair; JoAnn Atwell-Scrivner, Robert Grams, Doris Heritage, Dan Tripps, Robert Weather

## Admission and GPA Requirement

Students wishing to major in physical education or exercis science must present evidence of satisfactory completion o include a minimum of a 2.5 GPA in 9 credits taken at SPU which apply to the major or minor.

## Requirements for the Majors

See page 42 or 49 for a summary of degree requirements
Foundation Courses
BIO 2129 Human Anatomy and Physiology
02130 Human Anatomy and Physiology
PE 1301 Wellness
2550 Soath I ssues and Programs ...............
PE 3570 Biomechanics

PE 3580 Exercise Physiology
E 3490 Sport Injury Management ............
Total..
Requirements for the Physica

## Education Major

72 Credits)
Foundation courses
PE 2602 Field Sports
PE 2604 Global Sports

PE 2608 Alternative Activities.
E 2609 Individual Sports.
PE 2610 Racquet Sports...
PE 2612 Outdoor Pursuits.
PE 3510 Conditioningng Techniques
e 3510 Elementary Health and Physical Educ.........................
3545 Programs for Special Pation...
PE 3600 Physical Education Teaching Lab
Total......
For teacher certifiction the above orree plan mus combined with the following School of Education combined with the following School of Education EDLR 4235); EDRD 4530, EDU 4240; Phase II (Internship and EDU 4230). Refer to the School of Education section of this Catalog for admissions and details.
Major
(72 Credits) Fourses $\qquad$
HM 1211 General Chemistry............................................ 5 CHM 1330 Organic and Bio
FCS 3340 Family Nutrition
$\qquad$
4585 Eutrition in sports and Exercis

PE 4590 Advanced Athletic Training or PE 3545 Programs
4940 Internship ...................................................................................

## 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 department approve

## Requirements for the Minors

7 Credits)
PE 3510 Elementary Health and Physical Education ............. PE 3515 Secondary Physical Education ......................................
 3560 Social-Psychological Aspects of Activity E 3570 Biomechanics.
E 3590 Sport Injury Manage

Minor in Health
(38 Credits)
102129 Human Anatomy and Physiology ........................... 5
1102130 Human Anatomy and Physiology
FCS 1310 Introductory Nutritio
CS 4310 Nutrition in Sports and Exercise $\quad \ldots . . . . . . . . . . . . . . . .$. CS 4330 Advanced Nutrition
E 1301 Wellness
PE 2550 Safety and First Aid

otal
Requirements for Endorsements in Health and Physical Education
he student who wishes to receive a state endorsement for secondary teaching area in health or physical education st complete the 24 credit requirement as set forth by the iperintendent of Public Instruction. For further
formation, contact either Physical Education or the School Education

## Leisure Activities Program

Leisure provides a unique opportunity to become a more filled and complete person; it can be avoided, wasted Education offers a wide spectrum of activity classes where asic skills can be learned and refined to the point of idependent participation.

Physical Education Course
PE 1001 FOOTBALL CLINIC (1) Introduces students to basi 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 PE 1003 BASKETBALL CLINIC (1) Introduces students to
basic rules and competitive strategies of basketball. PE 1004 SOFTBALL CLINIC ( 1 ) Introduces students to basi 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) Introduce basic rules and competitive strategies of floor hockey. BE 1007 TEAM HANDBALL CLINIC (1) litroduces students
Pasich to basic rules and competitive strategies of team handball.
PE 1100 OUTDOOR SURVIVAL 2 ) Core course for all PE 1100 0UTDOOR SURNIAL (2) Core course for all out-
door leisure courses. Teaches how to recognize wilderness dan gers, as well as widderness survival. Course will cover knowledge and skill acquisition concerring safety and injury prevention. Top
ics covered will include: temperature controle equipment selection ics covered will include: temperature control, equipment selection protocol. Extra fee.
PE 1109 WEIGHT TRAINING (2) Covers the basic scientific principles of weight training, exercise selection, safety fundame variables, workout monitoring, and personal orientations require for independent weight training. The course is structured as a mandatory initial class meeting and independently arranged workouts. Students sailing to meet he irst evening may not continue in
the course. Class is designed for first time participants. May be repeated for credit 1 time.
PE 1110 BACKPACKING (2) Prerequisite: PE 1100 or permission of instructor. Introduces students to backpacking as a leisur and enioyably participate in the sport. Extra fee. PE 1120 HIKING (2) Prerequisite: PE 1100 or permission of istruch. Northwest rails and Beauty ypots: a one day wildernes trek along beaches, or forest or mountain trails. Extra fee.
PE 1125 SNOWSHOEING AND CROSS-COUNTRY SKING (2) Prerequisite: PE 1100 or permission of instructor. Introduce students to snowshoeing and cross-country skiing as leisure activ. 1 tra enjoy these sports. Extra fee. May be repeated for creditl 1 time.
PE 1135 ROWING (2) Introduces students to basic rowing tech niques, skills, equipment, and conditioning for continued involvement in recreational, fitness or competitive rowing.
PE 1140 WINDSURING ( 1 Introduces students PE 1140 WINDSURFING (1) Introduces students to boar saithg wowidsurfing) as a e eisure activity and provides students sport. Extra fee.
PE 1145 CANOEING AND KAYAKING (2) Introduces students to canoeing and kayaking as leisure activities. Emphasis is given to
practicing skills on flat water, but limited river-running experience is also provided. Extra fee
PE 1150 SALLING (2) Introduces students to small boat daysailing as a leisure activity and provides students with the knowl-
edge and skills to safely and enjoyably participate in the sport on
protected water. Extra fee. nity to engage in selected activities designed to increase their level of
fittesss k koowledge and skills fort he enion long leisure activity May be repeated for credit 1 time.
PE 1161 WALKING/JOGGING (1-2) Introduces students to aerobic and fittess information while providing opportunity to interesting walking routes will be explored. May be repeated for redit 4 p to 2 credits.
PE 1165 INTRODUCTION TO DANCE (2) Introduces students to basic techniques and rhythms of one of several danc creative dance. May be repeated for credit 1 time. PE 1175 FENCING (2) Introduces students to basic instructio nt the sport of fencing. Technical emphasis on basic footwork, uefensive and parry yystems, methods of attack and counterattack ration for competition and physical conditioning.

1180 GOLF (2) Introduces students to the fundamental skills, techniques and rules of golf for enjoyment as PE 1185 BADMINTON (2) Introduces students. to the basic tes, skiss ant PE 1190 TENNIS (2) Introduces students to the fundamental skills, techniques and rules of tennis for enjoyment as a recretional sport. May be repeated for credit 1 time. uces students to skin and scuba diving as leisure activities. In ves the classroom and pool training prerequisite to the open ater training (PE 1196) which is
PE 1196 OPENWATER SCUBA (1) Registration Approva: In structor. Prerequisite: PE 1195. Provides the five openwater traii ing dives required for scuba diving certification and additional dves or sudy as arranged. PE 1199 LEADERSHIP CAMP (2) Provides personal growth and self-discovery through a five-cay wilderness experience before he beginning of autumn quarter. Extra fee.
eisure 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 concepts of health and welliness: illness and addictive behavior, leisure and work. Relates course ontent to spiritual, social, emotiona, intellectual and physical Cous ee. Course Equivalents: HSC 1301 and FCS 1301 , tructor. Open only to eligible varsity intercollegiate athletes. May e repeated for credit 3 times.
E 1456 WOMEN'S BASKETBALL (1) Registration Approval: May be repeated for credit 3 times.
E 1460 WOMEN'S GYMNASTICS (1) Registration Approval structor. Open only to eligible varsity intercollegiate athletes PE 1465 CROSS COUNTRY (1) Registration Approval: Instruc ior. Open only to eligible varsity intercollegiate athletes. May be epeated for credit 3 times.
E 1470 MEN'S SOCCER (1) Registration Approval: Instructor. eated for credit 3 times. PE 1475 TRACK AND FELD (1) Registration Approval: Intructor, Open only to e ligible varsity intercollegiate athletes. May Pe repeated for credili 3 times. Open only to eligible varsity intercollegiate athletes. May be reeated for credit 3 times.
E 1481 WOMEN'S CREW (1) Registration Approval: InstrucOpen only to eligible varsity intercollegiate athletes. May be epeated for credit 3 times.
PE 1495 WOMEN'S VOLLEXBALL (1) Registration Approval: ay be repeated for credit 3 times.
PE 2550 SAFETY AND FIRST AID (3) Presents basic skills of ccident prevention and emergency treatment of injury and illness. opics include: legal liability and accident response, respiratory nd 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 nd transter, as well as coverage of specific injuries and disaster emergency care. Extra fee. Class not open to: Freshmen.
2555 HEALTH ISSUES AND PROGRAMS ( 5 ) Identifie PE 2555 HEALTH ISSUES AND PROGRAMS (5) Identifies
major health issues and provides familiarization with programs major health issues and provides familiarization with programs
dealing with these problems. Home, school, community and church resources are included. Class not open to: Freshmen PE 2602 FIELD SPORTS (1) Introduces students to basic skills nd rules of football, soccer and softball. Course Equivalent: PE 3602


E 2604 GLOBAL SPORTS (1) Introduces students to basic , cicket, Field Hockey, Gaelic Football, Sepak Takraw, and Bowles are among the options. Course Equivalent: PE 3604.
PE 2605 INTRODUCTION IN GYMNASTICS (1) Introduce students to basic skills and rules of floor exercise, apparatus à hythmic gymnastics. Course Equivalent: PE E3605. E 2606 DANCE (1) Basic skills and teachings strategies of aer qus, jazz, folk, ballet, improvis. E 2608 ALTERNATE ACTIVITIES (1) Introduces students to asic skills of a alternative activities such as roller skating, circus arts, new games, and innovative programs. Course Equivalent: PE 3608 .
PE 2609 INDIVIDUAL SPORTS (1) Introduces students to basic skills and rules for archery, bowling, golf and other selected ports. Course Equivalent: PE 3609.
2610 RACQUET SPORTS (1) Introduces students to basi . PE 2612 OUTDOOR PURSUITS (1) Introduces students to basic skills and rules of hiking, backpacking, camping and orienteering. Course Equivalen: PE PE 2613 CONDITIONING TECHIQUES (1) Covers basic scientific principles, terminology and fundamental paradigms ne ssary to engage in musculoskeletal, aerobic and anaerobic trair Course Equivalent:PE 3613 . TION (4) Explores health and physical eduYiCAL EDUCA children. Course focuses on age appropriate curriculum and acdivities with an emphasis on motor skill development and interdi requirement. Class not open to: Freshmen.
PE 3515 SECONDARY PHYSICAL EDUCATION (5) Focuses on appropriate curriculum and teaching methods for secondary P. is for classroom management lesson and unit including strate fitness promotion. Class not open to: Freshmen.
PE 3545 PROGRAMS FOR SPECIAL POPULATIONS (3) PE 3545 PROGRAMS FOR SPECIAL POPULATIONS (3) Studies disabilities and how physical education and other recre-
ation activities can be matched with the disabled and elderly person's need for participation and/or correction. Class open top:
Exercise Science majors and Physical Education majors. Class Exercise Science majors and Physical Education majors. Class open to: Freshmen and Sophomores.
PE 3560 SOCIAL-PSYCHOLOGICAL ASPECTS OF ACTIVITY (5) Explores the meaning of sport, recreation, and exercise in our culture. Psychological topics include information processing, personality, attention, arousal and anxiety aggression, psychin
and relaxation, imagery and visualization, goal setting, motivation, relaxation, imagery and visualization, goal setting, motivation zation processes, family, friends, education, politics, economics media, social class, gender, religion, and subcultures. Class not open to: Freshmen and Sophomores.
PE 3570 BIOMECHANICS (5) Prere rent registration or permission f instruuctor Provide 2129 , concur rent registration, or permission of instructor. Provides informa-
tion regarding the structure and function of the musculosketletal systems including, but not limited to, shoulder, elbow, hiip, knee, and spine. Examines basic principles of motion through disc
sion and laboratory experiment with such topics as nature of sion and laboratory experiment with such topics as nature of
forces, Newton's Laws, ground and fluid forces, work, power, en ergy, torque, levers, and center of gravity. Emphasis is placed on analysis of exercise and sport activities for the improvement of Class not open to: Freshmen and Sophomores.
PE 3575 MOTOR LEARNING AND DEVELOPMENT (5) Prerequisite: Intent to major in physical education or exercise cience. Explores learning and human development theory applied not the acquisi
PE 3580 EXERCISE PHYSIOLOGY (5) Prerequisite: BIO 2130 permission of instructor. Gives description and explanation improvement of athletic performance and understanding the nechanisms whereby exercise may enhance health. Course indudes laboratory Class not open to: Freshmen and Sophomores

PE 3590 SPORT INJURY MANAGEMENT (5) Prerequisite: BiO 2129. Describes the prevention, recognition and treatment 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 implepentation of comprrehensive sport injury management systems. Class not open to: Freshmen and Sophomores.
requisite: PE 3510 or 3515 . Course provides a controlled and super yised micro-teaching experience. Emphasis is on lesson design, lassroon for credit 3 times. Class not open to: Preshmen. Mayd sophomores.
PE 4555 EXERCISE SCIENCE LAB/SEMINAR (3) Prerequiites: PE 3570,3580 . Provides laboratory, research and presentation pined in prerequisite courses. Class not open to: Freshmen and
SE 4590 ADVANCED ATHLETIC TRAINING TECHNIQUES (3) Prerequisites: BIO 2129,2130 and PE 3590. Describes lega ides students with understanding and skill in the theoretical basis and common protocols for therapeutic modaities used in sports medicine, studies principles and programs for therapeutic exe cise, and introduces injury assessment techniques including
manual muscle testing. Atribute: Writing Course. Class not open PE: Frs95 ORGANIZATION AND ADMINISTRATION (5) OfErs information and experiences re ng sport, recreation, and physical activity programs in public and usiness plans, strategic planning, communication, team building, procedurres, technology, time and stress management. Provides practical applications in managing programs, facilities, personnel, finances, and marketing. Includes case analysis of legal issues related to cons utional, contract, and tort law. Attribute: Writing Course. Class not en to: Freshmen, Sophomores and Juniors,
independent Study Agreement. Allows a non-research approach to approved issue. Course requirements include a defined set of objectives, a minimum of three conferences with a designated
aculty member, a current topical bibliography and a term ending ssessment mutually developed by laculty and student. The format may be utilized only once. May be repeated for credit up to 4 credits. Class open to: Exercise Science majors, Physical Education
majors and Student Designed Major majors. Class not open to: reshmen and Sophomores.
PE 4330 EXERCISE SCIENCE PRACTICUM (1) Registration pproval: Instructor. Prerequisites: PE 3570,3580 . Provides practiand leadership with members of the SPU community. May be reeated for credit up to 3 credits.
E 4931 ATHLETIC TRAINING PRACTICUM (1-3) Registra lion Approval: Instructor. Provides practical experience in the
revention, treatment and rehabilitation of athletic injuries. St dents work with intercollegiate athletes in the SPU training room and at practice and event sites. May be repeated for credit up to ${ }^{12}$ credits.
earning INTERNSHIP (1-15) Registration Approval: Intern learning Contract Req. Field work experience which may inclu
cooperative education placement. A term ending assessment mutually developed by faculty and student is required. May be epeated for credit up to 15 credits. Class open to: Exercise Scince majors, Physical Education majors and Student Designed
Major majors. Class not open to: Freshmen and Sophomores.
 partment Chair Special courses offered upon demand and//0r
department's discretion, May be reeeated for credid up o 5 cres. ts. Class open to: Physical Education majors. Class not open to: reshmen and Sophomores.

## Physics

ames Crichton Chair, Robert Hughso Physicists study the changes, interactions, and properties of matter and energy and, as a result, strongly influence 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 described below. One,
he 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 science with physics emphasis, helps prepare he student to apply physics in industry.
A GPA of 2.5 or above in physics and mathematics is equired for admission to the major. Students expecting to onsider taking additional courses in physics as well as MAT $3724,3725,3730$, and maintain a GPA of 3.0 or above. It is strongly recommended that students take PHY 4341 and 4342 efore taking graduate record exams. A reading knowledge f French, German or Russian is desirable. ENG 3206 echnical Writing is recommended. These studies apply toward the Bachelor of Science degree.

## Requirements for the Physics Major

## 88 Credits; 25 upper-division)

See page 42 or 49 for a summary of degree requirements $]$
or PHY 112,103 General Physics
or PHY $121,1122,1123$ Physics for Science and
$\qquad$
HY 3311, 3312, 3313 Advanced Physics Lab
HY 4310 Electricity and Magnetism
PHY 3841 Dynamics ....
HY 4910 Physics Seminar
CHM 1211, 1330 General Chemistr
HM xxxx elective chemistry cour
EGR 2391 Materials Scienc

MAT 2228 Multivariable Calculus ..
MAT 2375 Probability Theor

HY xxxx upper-division physics course
otal....................................................................... 8 project.

Suggested First Year Physics Curriculum

## Autumn

| MAT 1225 Calculus ...................................................... 5 |
| :--- |
| HY 1121 Physics for Science and Engineering ................ 5 |


Winter

Slectives Physics for Science and Enginearing
Electives ...................................................................................

Spring


## Suggested Second Year Physics <br> Curriculum

Autumn
MAT 2375 Probability Theory $\qquad$
PHY 2321 Interal Chemistry. $\qquad$

## Winte

MAT 2401 Linear Algebra
CHM 1212 General Chemistry ....
EGR 2391 Intro. to Materials Science

## Spring

MAT 2228 Multivarible Calculus $\qquad$

## Requirements for the Engineering and

Applied Science Major (Physics Emphasis) See the Engineering section of the Catalos

## Requirements for the Physics Minor

(35 Credits; 15 upper-division)
or PHY 1121, 1122, 1123 Physics for Science and
Engineering, ...
PHY 2321 Intermediate Physics $\qquad$
PHY 3311 Advanced Physics Lab
PHY xxxx upper-division physics course
tal...................................................................... ${ }_{35}$ 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 fo biology and pre-med majors. Covers mecha one laboratory each week.
PHY 1102 GENERAL PHSICS (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. Four lectures and one laboratory each week.
PHY 1103 GENERAL PHYSICS (5) Prerequiste: 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. Four lectures and one laboratory each week.
PHY 1110 INTRODUCTION TO THE NATURE OF SCIENG (5) Provides a lecture, demonstration, discussion course in the physical sciences. Examines the scientificc method in light of wha it does and does not do. Covers selected scientific concepts and heories, drawing most of the examples from the field of physics. pecial emphasis will be given to the worldwide energy cycle and
ow mankind uses and changes things. A major consideration will be sustainability of our lifestyle - short term and long term. Not
ence course.
PHY 1121 PHYSICS FOR SCIENCE AND ENGINEERING rerequisite: MAT 1225 may er of an introduction to physics using calculus. Covers mechanic Four lectures and one laboratory each week.
Prerequisite: PHY 1121 and MAT 1225 . The second quarter of an
introduction to physics using calculus. Covers gravitation, oscilla tions, fluid mechanics, thermal physics, waves, electrostatics. 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. Four lectures and one labora tory each week.
PHY 1135 ASTRONOMY; INDIVIDUAL AND THE UNIVERSE (5) An integrative general introduction to astronom including astronomical observation and measurement, the solar system, extragalactic phenomena, and cosmology, includes the
cientific method and world-view implications, Not recom scientific method and world-view implications. (Not recom-
mended for students who have taken NMS 1110 ). mended for students who have Taken GEOLOGY (5) Surveys geol ogy including identification and origin of rocks and minerals, the processes of forming the present state of the earth, interpretatio of geologic features and of the human impact on t.
ratory y ratory experiences and or field trips emphasized.
PHY 1910 HONORS PHYSICS SEMINAR (1) Registration Approval: Instructor. Prerequisites: One of the following must $b$ taken concurrently: PHY 1101, 1102, ,1103, 1121, 1122, 1123. Provide a direct study of current probiems and research areas in physics
such as astrophysics, chaos and complexity, particles and fields, such as astrophysics, chaos and complexity particl
and relativity May be repeated for credit 2 times.
PHY 2321 INTEMEDITE
PHY 2321 INTERMEDIATE PHYSICS ( 5 ) Prerequisites: MAT 1228 and either PHY 1103 or 1123 . (MAT 1228 may be taken concur
rently. Introduction to the physics of the 20th century relativity rently). Introduction to the physics of the 20 th century: relativity
waves and quanta with applications to areas of contemporary phy ics such as atoms, nuclei, particles and solids.
PHY 3120 PHYSICAL SCIENCE AND SOCIE PHY 3120 PHYSICAL SCIENCE AND SOCIETY (5) Introduces contemporary topics in natural sciences which have techno
logical and social implications examines the logical and social implications; examines the present social
structure and environment of the natural sciences. Atribute: Writ
ing Course.
PHY 3311 ADVANCED PHYSICS LAB (4) Prerequisite: PHY 2321, or may be taken concurrently. Laboratory applications of electronics. Offered alternate years.
PHY 3312 ADVANCD PHYSICS LAB (2) Prerequisites: PHY including experiments in optics, solid state physics, atomic physics and nuclear physics. Offered alternate years.
PHY 3313 ADDANCED PHYSICS LAB (2) Prerequisites: PHY 2321 and PHY 3312 . Provides an integrated advanced laboratory physics and nuclear physics. Offered alternate years.
PHY 3401 THERMODYNAMICS (4) Prerequisites: CHM 1211 MAT 1228, and either PHY Y 1103 or PHY 1123 . Studies, at the macro scopic level, equiiibrium properties of matter, conservation laws,
equations of state, and transformations of state for systems in which temperature is an appropriate variable. Considers enginee inf applications. Course Equivalents: CHM 3401 and EGR 3401 .
PHY 3841 DYNAMICS (5) Prerequisites: MAT 1228,2401 and PHY 1101 or 1121 . Study of vectorial treatment of Newton's 1 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
mentum conservation laws. Course Equivalent: EGR 3841 . mentum conservalion laws. Corse Equivalent: EGR 3841 proval: 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 atmo
sphere; cloud physics; introduction to climatology and the upper atmosphere. Offered on demand. May not be repeated. PHY 4243 GEOPHYSICS (2-5) Registration Approval: Instruc tor. Preerequisites: PHY 1103 or 1123, MAT 1228, 2228. Studie rotation and figure of the earth, gravity field, seismology, geo-
magnetism, heat flow, age and internal structure of the earth. Offered on demand. May not be repeated.
PHY 4310 ELETROMACETIS
PHY 4310 ELECTROMAGNETICS (5) Prerequisites: PHY 1103 transmission lines as lumped- circuits, electrostatics,
magnetostatics, boundary conditions, electromagnetic waves, and introduction to applications such as skin effect, reflections, waveguides, antennas, and optics. Includes computer
laboratory experiments. Course Equivalent: EE 4310.
PHY 4311 OPTICS (3) Prerequisite: PHY 4310. General theory of physical optics, difiraction theory, polarization and coherent
tates, optical devices. Offered on demand
HY1, MAT 2228. Surveys basic wave mechanics, quantum mechani cal operators, dynamics of the wave functions, traveling waves, bound states. Offered alternate years.
HY 4342 ATOMIC PHYSICS (5) Prerequisite: PHY 4341. Stud es the hydrogen atom, perturbation theory, one-electron atoms, Introduction to multi-electron atoms. Offered alternate years. PHY 4391 NUCLEAR AND PARTICLE PHYSICS (5) Prerequi-
site: PHY 4342 or permission of instructor. Study of the fundamen1 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 lativity. D.scussion experimenta sed ads including partic HY 4441 STATISTICAL PHYSICS $(2-5)$ Prere
401, MAT 23755. Studies classical and quantum statistical mechan iss, Bose and Fermi statistics and applications to physical systems.
PHY 4491 SOLD STATE PHYSICS (2-5) Prerequisite: PHY 3211 PHY 4441 recommended. Focuses on lattice statics and dynamics, electrons and Fermi surfaces, transport phenomena, semiconductors, and superconductivity Offered alternate years.
PHY 4905 INDEPENDENT STUDY IN PHYSICS $(2-5)$
ration Approval: Independent Study Agreement. The area of study obe mutually agreed upon by the student and a physics faculty ember. May be repeated for credit up to 5 credits. structor Prerequisite: Upper-division standing in physics maio Seminar with both student and faculty participation on current problems and research areas in physics. May be repeated for open to: Freshmen and Sophomores.
PHY 4940 INTERNSHIP IN PHYSICS (1-5) Registration Aproval: Intern Learning Contract Req. Provides a significant learnroxpam. May be repeated for credit up to 5 credits. Class not pen to: Freshmen and Sophomores.
HY 4970 SENIOR PROJECT LABORATORY (1-5) Prerequisites: PHY 3313 and senior standing, Independent research di-
raduation with major in physics. May be repeated for credit up
credits. Class not open to: Freshmen, Sophomores and Juniors.

## Political Science

uglas Durasoff, Chair; Kathleen Braden, Re avis, John West
political science is the systematic study of government, oups. It asks the question; "How ought we as a comm live?"
contemporary public problems in terms of the
mplexities of actual political systems and in relation to
olitical science and the preparation and interests of culty reflect approaches to political science which are levant to policy formation, career development, and service to the community
Study of political science is especially useful for career Willaw, public administration, government service
business aftairs, journalism, teaching and several field Encouraged. Avariety of internships are also available tudents with interest in public service, international or egal careers.
10 qualify for admission to the major, a student mus e a 2.5 minimum GPA in previous courses in the majo
equirements for the Political Science
For all three tracks, 25 credits must be upper-division) See page 42 or 49 for a summary of degree requirements]

## General Track

48-52 Credits)
L 1110 Introduction to Politics $\qquad$
Select one course from the following
POL 1120 American Government (5)
POL 2464 State and Local Politics (5)
POL 2320 Comparative Political System.
POL 3410 Morsal Foundations of De
POL 3440 International Peace and Worrld Order
POL 4911 Advanced Seminar ( 35 ) .....
Select one course from the following:
POL 4000 Public Policy and Administration (5)
POL 445 Americen
POL 4450 American Constitutional Law (5) $\qquad$ .
POL 4642 Theories of the Political System .........................
POL 4643 Methods of Political Analysis ..........................


## Public Policy Track

## 55 Credits)

POL 1110 Introduction to Politics $\qquad$ .....
POL 1120 American Government (5) POL 2464 State and Local Politics (5) POL 2320 Comparative Political Systems ................................... 5 Select at least three of the following:
POL 3410 Moral Foundations of Democracy (5)
Development of Nations (5)
POL 3430 Presidency and Congress (5)
POL 3450 Politics, Parties and Interest Groups (5)
SOC 4250 Sociology, Policy and Law (5)
POL 4450 American Constitutional Law (5) ..................... 15
POL 4642 Theories of the Political................ POL 4643 Methods of Political Analysis
 ${ }^{*} P O L 4940$ Internship strongly reco................................................

## International Affairs Track

(53-55 Credits)
POL 1110 Introduction to Politics ....................................
GEO 1110 World Regional Geography...........................
POL 2320 Comparative Political Systen
Select at least two of the following:
HIS 2452 History of Modern Global
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 Econicher
POL 3320 Political and Economic
POL 4310 International Political Economy (5)
GEO 3500 Geography of Natural Resources (5)
POL 4911 Advanced Seminar (3-5)
 POL 4643 Methods of Political Analysis .... Electives (consult with advisor)
*/n addition at least one year of a forei........................ 53.
equivalent is required.

Any 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 above the required hours may be added. For students who wish to enhance their degree with additional specialization, applied course work beyond the required credits and in associated majors or minors can be arranged in consultation with the political science advisor.
Requirements for the Political Science Minor
(30 Credits; 15 upper-division)
Select one course from the following owing.
POL 2320 Comparative Political Systems (5)
POL 2330 International Relations ( 5 )
Development of Nations (5)
Development of Nations (5)......
elect one course from the following:
Select one course from the following:
POL 1120 American Government and Politics (5)
POL 1120 American Government and P
POL 2464 State and Local Politits ( 5 )
POL 3450 Politics, Parties and Interest Groups (5) ........... 5 Select one course from the following:
POL 3410 Moral Foundations of Democracy (5)
POL 4642 Theories of the Political System (5)

Since some courses are not offered every year, students should check a current Time Schedule for course offerings.

## Political Science Courses

POL 1110 INTRODUCTION TO POLITICS (5) Analyzes the theory and practice of politics by discussing different approaches 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
learning.
POL 1120 AMERICAN GOVERNMENT AND POLITICS (5) Surveys the founding principles of the American political system
and examines the development and operation of maior national institutions such as Congress, the presidency, the bureaucracy, the Supreme Court, political parties and the media. This course is also offered through distance learning.
POL 2125 BASIC ISSUES IN AMERICAN AND WORLD POLITICS ( 3 ) Current and enduring ational and world iss are analyzed in the context of political science methods and conare nalazzed in the context of ponitical science methods and conrepeated for credit 4 times.
POL 2320 COMPARATIVE POLITICAL SYSTEMS (5) Analyzes how nations are governed; democracies, authoritarian systems and developing countrits as sudied in light of poilitica 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 concept of power, influence andideology, disccusses interactions among
Ship to individual citizens. POL 2444 STAL AND LOLITICS (5) Analyzes contemporary state and local governmental institutuions and how they
operate within America's federal system. Special emphasis on operate within America's federal system. Special emphasis on
public policy issues such as health care, crime, education, welfare and telecommunications. Offered alternate years.
POL 2641 CHRISTIANITY AND AMERICAN POLTICS (5) 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 read dint tual political controversies.
poL
alita POL 3170 GEOPOLLTICS (5) Current world events are ex-
plored, from a variety of social science disciplines (political sciplored, from a variety of social science disciplines (poilitica, sci;
ence, history, economics and political geography). Topics vayr bi
 conflicts and the role of international law in solving disputes.
Course Equivalent: $G E O$ 3170. Class not open to: Freshmen. Course Equivant: GLO ing," both political and economic, primarily in Third World coun. tries. Evaluates concepts of authority, economic growth and human well-being, and the policies used to a chieve these in differ s. Offered alternate years. Class not ope to: Freshmen 3345 MODERN RUSSIA (5) Surveys Russian social, cul: tural and political history with primary attention to the tarist, revolutionary and Soviet eras, examining their legacies for curren development and change. Course Equivalent:- HIL WOL 3350 MODERN FRENCH POLITICAL THOUGHT (5) Registration Approval: Travel Studies Form. Reviews major then of modern French liberaism from the French Revolution to the modern French politics. Special emphasis will be placed on the : modern rencin poititics. Special emphasis will be paced
ideas and influence of Christian thinkers such as Pascal, Montesquieu, Tocqueville, Maritain and Weil. Taught summer only in Europe.
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, Toocqueville, Augustine, Madisisn, ers reviewed include Plato, Tocquevilie, Augustine, Madison,
Jefferson, Lincoln, Simons, and Dahl. Attribute: Writing Course. Class not open to Freshmen.
POL 3430 THE PRESIDENCY AND CONGRESS: POLITICS OF NATIONAL LEADERSHIP (5) Analyzes executive-legislativ relations by reviewing Constitutional prinipiples and the polititical
culture of the Washington community with emplasis on the presiCourse. Class not open to: Freshmen POL 3435 MARXISM: 20 TH CENTURY THEORY AND PRACTICE (3) Examines the development of varieties of Marxist theory and practice in the 20th century. Compares the Soviet, Eur thought and practice. Offered alternate years. Course Equivalents: ECN 3635 and HIS 3435. Class not open to: Freshmen. POL 3440 INTERNATIONAL PEACE AND WORLD ORDER system, drawing upon resources from negotiation theory, peace studies, Biblical models, international law and international organization, with analysis of varying world order models. Course Equiv lent: H3 3440. Class not ppen to: Freshmen. (5) Examines the role of political parties in contemporary Amer can government and the implications of weakened partios for gor
erning. The place of interest troups and political action erning. The place of interest groups and political action committees is also surveyed, with special attention to the roles
PACS play in campaigns and elections. Attribute: Writing Course. Class not open to: Freshmen. POL 367 H HISTRRY OF AMERICAN FOREIGN RELATIONS (5ystem from colonial dependency to superpower Propose system, from colonial dependency to superpower. Proposes a
theoretical model for interpreting American foreign policy and applies this framework to historical events considered chronolo cally. Considers questions of moralitity in relation to foreign policy. open to: Freshmen.
POL 3780 LAW AND SOCIETY (5) Studies the role of law in society and provides an introduction to the American legal systen Incluces case studies of such issues as product liability, environ-
mental law, civil disobedience and assisted suicide. Features guest speakers from the legal community. Recommended for stuguest speakers from the legal community Recommended for
dents considering law school. 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 studies, analyses of specific policies are undertaken in suc reas as education, civil rights, energy and social services. Clas not open to: Freshmen. POL 410 INTERNATIONAL POLTTICAL ECONOMY (5) POL 4.
Exames the nature and dynamics of the global economy in rela-
. tion to the economies and political systems of nations and to the ries and models of national, regional and global economic growth. nternational trade, business and government poiicy are studied 3310. Class not open to: Freshmen.

POL 4450 AMERICAN CONSTITUTIONAL LAW (5) A study ole of "constitutional" "aw in American government and society Leading Court opinions in areas such as separation of powers, ederalism and civil liberties and civil rights are analyzed. Recomended for students interested in law school. Class not open to POL 4642 THEORIES OF THE POLITICAL SYSTEM (5) Explores major themes of normative political thought by reviewin ne key works of Plato, Locke, Rousseau and Augustine. Reviews the nature of justice and governance, of citizenship and obecience, Altribute: Writing Course. Class not open to: Freshmen.
POL 4643 METHODS OF POLITICAL ANALYSIS (5)
POL 4643 METHODS OF POLLTICAL ANALSSIS ( 5 ) Explores approaches and methods by which poinital scientists wort wint empolitical behavior in society. Class not open to: Freshmen. POL 4900 INDEPENDENT STUDY ( $2-5$ ) Registration Ap proval: Independent Study Agreement. Prerequisites: Junior velop intensive examination of selected areas of interest in political thought, institutions or behavior through a program of directed eadings and/or research approved by a political science faculty nember. (Maximum of 10 credits applicable to POL major.) May
men and Sophomores.
POL 4911 ADVANCED SEMINAR: (3-5) Prerequisite:
Upperciass standing. Seminars studying theoretical and/or prac
cal issues in politics, government tand political science. See cur rent Time Schedule for topics. May be repeated for credit up to 2 credits. Course Equivalent: GEO 4911. Attribute: Writing Course. lass not open to: Freshmen.
pproval: Intern Learning Contract Req. Prerequisites: Junior Approval: Intern Learning Contract Req. Prerequisites: Junior nities for practical experience in national, state or local governnenta bodies and agencies or politicial organizations. Available cience faculty member. (Maximum of 10 credits applicable to PoL major.) May be repeated for credit up to 30 credits. Class not
open to: Freshmen.

## Pre-Law

eed Davis and John West, Advisors
SPU provides, through a pre-law advisor, assistance to all pre-law students to help them develop a course of study preparing them for entrance into law school. Students interested in a legal career should contact the pre-law advisors in the Political Science Department as early as oossible during their study at SPU. All such students are program of courses suitable for law school, and are provided information for taking the Law School Admission lest and information regarding application to law school. A pecific course, POL 3780 Law and Society, is also offered to enhance the program of all pre-law students as they rogress towa

## Pre-Professional <br> Health Programs

SPU offers faculty advising for a number of pre-professional programs that prepare students to transfer into professional programs at other institutions. Contact the

## PRE-MEDICINE AND PRE-DENTISTR

A. Kenneth Moore, Coortinator, Department of Biolog. It is important to stress that medicine and dentistry are recognized as areas in the healing arts. As such they ar
best served by practitioners well grounded in the liber 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, one must be well acquainted with the requirements and procedures as outlined below

There are several factors considered by medical and dental selection committees including the student's grades
he 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 terview with the medical or dental school admissions committee.

## Medical School Admissions Checklis

## First two college years

Select a curriculum that will challenge your abilitie and interest in the liberal arts and the basic sciences and fulfill more than minimum premedical requirements. Be sure that other courses taken are areas of interest which will usually be reflected in arts background. There is no required or ecommended major. Select your major in the field which interests you the most.
2. Get to know your premedical advisor and advisory committee, and how it functions. Speak with senio Students and learn of their experiences with them.
3. Involve yourself with extracurricular commitments medicine, and demonstrates 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.
Learn as much as you can about medicine from
6. Trys to achieve an outstanding undergraduate record and grade point average.
Should you do poorly in some area, take the course or take a similar course over to demonstrate your ability.
7. Arrange with the premedical advisor for your premedical field experience (NMS 3980) toward the end of your second year.

## Pre-law

Pre-Professional Health Progirams

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 any changes or new schools of medicine that may
have new entering classes.
3. Prepare for the MCAT (some may choose to enroll 4. special courses taught to improve test taking).
4. Discuss your relative chances of entrance to medical school with your premedical advisor and other members of the faculty whom you hold in high regard. Be realistic! If your chances appear to be 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
7. Ant the end of your junior year, write to the medi
schools of interest to you 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 howing minimal interest.

## Fourth year

1. Be sure that all necessary materials, i.e., transcripts, recommendations, and MCAT scores, have been rrwarded to ANCAS or the medical schools of your interest.
2. Make arrangements with the Coordinator to have an interview with your premedical advisory committee upon request, the committee will provide an apropiate etter of recommendation for you to th schools to which you apply.
3. If you haven't taken the MCAT apply in early summer to take the test in August.
4f your MCAT scores are poor or only average,
4. Complete all scholarship and loan applications as soon as possible. To be eligible for financial aid you must complete the FAF form. Consider other means of financing if necessary.
5. In early autumn continue to evaluate your admission potential. You may decide to apply to additional eadline dates so that your application is eligible for consideration.
6. If you are admitted to the school of your choice, notify all other schools in which you are no longer terested to help accelerate the admission proces or them.
7. As the school year progresses, send any additional tems (such as first quarter grades) to the schools considering your application.
8. If you are placed on the waiting list, continue to add to your record all additional credits, honors, experiences, etc., to strengthen your application
9. If you are admitted to medical school, forward your deposit and begin planning for housing and loans, alternatives with the Coordinator.

Open a file with the Coordinator of Pre-Medicine and Pre-Dentistry as soon as possible in your first
2. Schedule the Pre-Medical or Pre-Dental Field Experience (NMS 3980)
3. Arrange for a Pre-Professional Health Science Committee interview and a committee evaluation letter.
4. Take the MCAT in either April of your junior year or

August of your senior year.
5. Submit your application to medical school during th 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 However, nearly all medical and dental the schools have at least the following minimal expectations:

Chemistry (including I year general,
l year organic)........................................... $1 . . . .30^{\circ}$
Biology ( year general plus selected upper-division
core courses) ............................................. Physics ..................................................................................................................... 15


Additional science courses are strongly recommended in anatomy, biochemistry, cell biology, developmental biology, genetics, histology, physical chemistry, and physiology. Som medical schools also suggest a knowledge of calculus. All applicants must complete a minimum of 135 quarter credit 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 educationa 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 Colle
or ENG 2205 Writing to be
or ENG 2205 Writing to be Read..................................... 3 BIO 2129, 2130 Human Anatomy and Physiology..................... 15 BIO 3351 General Microbiology.
CHM 1211 General Chemistry
CHM 2371, 2372, 2373 Organic Chemis
CSC 1115 Computing and Application
CSC 1115 Computing and Applicatio
PSY 1180 General Psychology
PSY 4460 Abnormal Behavior

PRE-OPTOMETRY
A. Kenneth Moore, Coordinator, Department of Biolog he need for a well-trained Doctor of Optometry is ncreasing. Admission Committees for four year programs actors: Strength and breadth of academic record, OAT cores, evidence of work (paid or volunteer) under the upervision of a professional in optometry, extra curricular ctivities and community service, and strength o ecommendations and on-campus interviews.
Enrollments are limited and admission is selective. All areollege of optometry. The following represents a
minimum pre-optometry program:
BIO 2101, 2102, 2103 (some schools prefer BIO 2129 and 2130 and BIO 3351 ) General Biology ............................. 1 CHM 1211 General Chemistry
HM 2371, 2372, 2373 Organic Chemistry....
MAT 1360 or HSC 4044 Statistics...
PHY $1101,1102,1103$ or $1121,1122,1123$ Physics
sychology



## Psychology

Micheál Roe, Chair, Jeffrey Joireman, M. Kathleen

## listyk Delbert McHenry, Les Parrott III

The science of psychology explores the nature and causes of behavior, feelings, and thoughts, as well as effective ways to eychologyconstantly and social health. Modern
understandings, new reang sossibilities, and new applications to the human condition.
Psychology provides an excellent background for
careers in counseling, teaching, social service, medicine, nursing, law, business, and many other areas of work wh
interpersonal skills are needed. Our program allows students to obtain a double major, thereby combining career
Seattle Pacific University's location in an urban area provides students with opportunities to gain field educational institutions, hospitals, and 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. Research assistantships and less formal opportunities to work with sychology faculty on research projects are available to participating as a small group discussion leader for student
in General Psychology.
The psychology program at SPU endeavors to accomplish four goals: (1) To provide students with solid academic and experiential grounding in the theory and practice of the field
of psychology; (2) to prepare and inspire able and motivated of psychology; (2) to prepare and inspire able and motivated
students to enter and contribute to the field of Psychology; students to enter and contribute to the field of Psychology;
(3) to nurture students toward valuing themselves and (3) to nurture students toward valuing themselves and
others as persons of worth, created in God's image; and (4) lo 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 which
deny or denigrate persons.

To qualify for admission to the major, a student must ave a 2.0 minimum GPA.

## Requirements for the Psychology Major

 60 Credits; 35 upper-division)15 credits in college-level psychology
[See 42 or 49 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* ......................................... 2
Select one from the following experiential courses: PSY 4940 Internship
PSY 4970 Independent Research ............... Minimum of 3

## Methods in Psychological Research

2360 Introduction to Statistics in Social and
or MAT 1360 Introduction to Statistics $\qquad$

PY 3588 Psychological Research Methods


Cognitive Psychology
PSY 3885 Learning and Cognition $\qquad$ $\cdots$
Physiological Basis of Behavior
PSY 4488 Physiological Psychology...

## Electives

## ect 5 credits from each of the following three area

Developmental Psychology
PSY 2470 Life Span Developmental Psychology (5)
PSY 3460 Child Developmental Psychology (5)
PSY 4420 Adolescent Developmental Psychology (5).........

## Social Psychology

PSY 3438 Social Psychology (5)
PSY 3439 Motivation and Leadership (5) $\qquad$ $\cdots$
Clinica//Counseling Related Areas of Psychology PSY 3442 Psychology of Personality (5)
PSY 4470 Abnormal Psychology (5)
SY 4470 Counseling Theory and Practice (5) ..................... 5 Total....

## Requirements for the Psychology Minor

(30 Credits; 15 upper-division)
 Science (5)
or MAT 1360 Introduction to Statistics (5)
PSY 3588 Psychological Research Methods
Open ele
${ }^{*}$ First offering in Autumn Quarter 1999
Both PSY 1250 and PSY 2250 (Relationship Development I apply must buccessfully completed if the student desires to apply these courses toward a psychology major or minor.

## Complementary Preparation

Aditional study of human cultures and human agencies will eter prepare psychology students to serve in this world. In consultation with sociology faculty, coursework in

## Psychology Courses

PSY 1180 GENERAL PSYCHOLOGY: INDIVIDUAL IN ROWTH (5) Introduces psychological principles of intrapersonal dynamics, interpersonal relationships, human develpment, abnormal behavior and the psychological processes of SYY 1250 RELATIONSHIP DEVELOPMENT I (2) A foundation course introducing healthy relational principles through sel exploration of interpersonal needs and dynamics. Includes the forciaion of psycholoogicial research to gender differences, famiz Of origin issues, relational needs, and the dating process. site: PSY 1250. Presents the conceptual and practical basis for making healthy relational commitments. Includes the application of pyychological research to friendship, love, intimacy, marital
Sophomores. PSY 2360 INTRODUCTION TO STATISTICS IN SOCIAL
AND BEHAVIORAL SCIENCES (5) Prerequisites: High scho AND BEHAVIORAL LCIENCES (5) Prerequisites: High school
algebra or equivalent; satisfactory completion of math proficiency algebra or equivalent; satisfactory completion of math proficiency
requirement: and PSY 180. 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 Course Equivalent: SOC 2360
PSY 2422 PSYCHOLOGY OF PERSONAL GROWTH (3) Pre requisite: PSY 1180. Views adjustive processes in terms of coping growth and self the course explores coping strateries deating with physical, cognitive, emotional and social influences.
PSY 2470 LIFE SPAN DEVELOPMENTAL PSYCHOLOGY (5) Prerequisite: PSY 1180. Surveys human development from concep tion to death, focusing on the interfacing processes of physical,
cognitive, social, emotional and moral development within sociocultural contexts, including developmental tasks and transitions associated with developmmental stages. Sudents may not receive credit for bih PIL PSYCHY 3460
Studies human social behavior and social inf iequisite: PSY 118 Major topics include affiliation, aggression, altruism, attraction,
attitude formation and change, competition, compliance, confor-
mity, cooperation, and persuasion. Students may not receive credit
for both PSY 3438 and SOC 4440 . PSY 3438 and SOC 4440 . PSY 3439 MOTIVATION AND LEADERSHIP (5) Prerequisit PSY 1180. Presents the theories and principles of motivation and leadership with practical applications in business, church, co nity, and educational settings. Course Equivalent: (5) 3442 PSYCHOLOGY OF PERSONALITY (5) Prerequis PSY 1180. Surveys the major theoretical views of personality with emphasis on comparison, contrast, and practical implications fo PSY 3448 TESTS AND MEASUREMENTS
(5) Prerequisites: PSY 1180 and PSY 2360 or equivent the nature and use of measurement and evaluation, psychometric theory, and standardized testing. Develops concepts and skills in the development, selection, administration, and interpretation on
psychological and educational tests and non-testing means of
evaluation.
PSY 3460 CHLD DEVELOPMENTAL PSYCHOLOGY (5)
Prerequiste PSY Prerequisite: PSY 1180 . Surveys child development from concep cesses of physical, cognitive, social, emotional and moral development within sociocultural contexts, including parent-child relationships. Includes an introduction to the observation, meacredit for both PSY 3460 and PSY 2470 .
PSY 3588 PSYCHOLOGICAL RESEARCH METHODS (5) Prerequisites: PSY Y 180 and PSY 2360 or equivalent. Explores the
methods, the design of internally and externaly valid studies, an the application o designs of statistical techniques. Develops ski 3751 may be substituted for PSY 3588 in the psychology major, al though PSY 3588 is the preferred course. Students may not rece credit for both PSY 3588 and SOC 3751. Attribute: Writing Course
PSY 360 SMALL GROUP IEADERSHIP PSY 3600 SMALL GROUP LEADERSHIP (2) Registration Approval: Instructor. Prerequisite: PSSY 1180. Focuses on theory and applications of research regarding small group interaction an
leadership. Will provide students with practical supervised expe ence in group leadership. May be repeated for credit 2 times. Class not open to: Freshmen and Sophomores.
PSY 3885 LEARNING AND COGNITION (5) Prerequisite: PB
1180. Studies the theories, methodologies, and find and cognitive psychoology. Topics include classical and instrument conditioning, and the information processing aspects of memory, concept formation, reasoning, problem solving, and development
PSY 4402 PSYCHOLOGY OF RELIGION (3) Prerequisite: PS 1180. Focuses on psychological processes of religious motivatio rituals, recruitment, conversion, and the development and maint nance of religious beliefs. Stages of faith development and the
effects of religion on psychological functioning will he explored. effects of religion on psychological functioning
Class not open to: Freshmen and Sophomores.
Class not open to: Frestmen 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 spaced on understanding Western and non-Western world views and their relationship to such topics as child rearing practices, psychosocial adjustment and spiritual expression. Class not ope PSY 4420 ADOLESCENT DEVELOPMENTAL PSYCHOLOG (5) Prerequisite: PSY 1180 . Provides an overview of adolescent development focusing on the interaction of the physical, cognitive emotional, moral, social, familial, educational and vocational di-
mensions within sociocultural contexts. Includes an introduction of the observation, measurement and evaluation of adolescents. PSY 4428 EXPERIMENTAL PSYCHOLOGY (5) Prerequisites. PSY 1180 and PSY 2360. Studies and applies single and multivariate sis is given to the use of analysis of variance.
PSY 4460 ABNORMAL BEHAVIOR (5) Prerequisites: PSY 1180. Provides critical analysis of the history, etiologys and sumptomatology of abnormal behavior with reference to modern methods of assessment and treatment. Emphasizes an interdisciplinary approach to understanding maladaptive behavio
PSY 4470 COUNSEING, THEORY AND PRACTICE (5) Pre requisites: PSY 1180 and 3442 . Provides an overview of the curre approaches and techniques of psychological counseling. Examine development. Provides application through use of role play, supe vised experiences and video tape recording.
PSY 4488 PHYSIOLOGICAL PSYCHOLO
PSY 4488 PHYSIOLOGICAL PSYCHOLOGY (5) Prerequisite PSY I180. The biological bases of behavior are exploredtusi essential concepts in anatomy, physiology, biochemistry and phar macology within the context of behavioral processes. Introductio to sensation and perception provided. The nervous and endocrine systems are presented as a foundation for behavior.
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 deve opment of psychology as a discipline. Emphasis is given to the
relationship between specific historical antecedents and contem porary trends in psychology. Attribute: Writing Course. Class not PSen to: Freshmen and Sophomores.
PSY 4900 INDEPENDENT STUDY (1-3) Registration Approval: Independent Study Agreement. Prerequisite: PSY 1180 chology. 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, syynthesis and. evaluation of the topic of interest. Substantial reading and writin.
expected. Credits may not be applied toward the minimum 30 expected. Creditl may no bie apppied toward the minimum nemplete the minor. Credit variable up to a maximum o 3 per term. May be repeated for credit up to 9 credits. Class not open to: Freshmen and Sophomores.

Y 4910 TOPICAL SEMINAR IN PSYCHOLOGY (3) Regis ration Approval: Instructor. Prerequisite: PSY 1180. Seminar style course in psychology. Assuming topical changes, May be repeated for redit 3 times. Class not open to: Freshmen and Sophomores. pSY 4915 SENIOR SEMINAR IN PSYCHOLOGY (2) Prereqwisites: PSY 1180,2360 or equivalent, 3588 , at least 35 credits con pleted in psychology. A capstone experience in psychology the liberal arts and the Christian faith. Class open to: Psychology majors. Class open to: Seniors.
PSY 4940 INTERNSHIP IN PSYCHOLOGY (1-5) Registratio SV 4940 INTERNSHIP IN PSYCHOLOGY (1-5) Registration Lpproval: Intern Learning Contract Req. Prerequisite: PSY 1180. Provides comminity. Builds on previous course preparation in psychol the com hours. of field work will be completeded for each credit. A
ogy 25 .
minum of 5 hours per week on-site required. Credits may not mpplied toward the minimum 30 needed to complete the minor. For students desiring placements in social service agencies, SOC 4310 and $S O C 4380$ are recommended. May be repeated for credit PSY 4970 INDEPENDENT RESEARCH (1-3) Registration Approval: Instructor Prereqisites: PSY 1180, 2360 or equivalent, 2588. Student will carry out empirical research under the supervision of a psychology faculty member and synthesize the findings in written research report. © beccive is to apply sinis in researd the ninimum 30 needed to complete the minor. Credit variable up to a naximum of 3 per term. up to a maximum of 3 per term. May be repeated for credit u and Sophomores.

## Religion

Dwight Van Winkle, Chair, Miriam Adeney, Robert Drovdahl, Eugene Lemcio, Randy Maddox, Fran Spina, Les Steele, Richard Steele, Robert Wall The study of religion at Seattle Pacific has two goals: (1) to develop students' ability to employ the Christian faith for analyzing, interpreting and evaluating various value system houative in our world; and (2) to guith
The first goal recognizes that Christian faith and practice is one option among many in the market-place of ideas in a secular world. The goal of the Department of Religion is to assist students to know what they believe so hat 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 life-style.
The second goal recognizes that students come to the University from a variety of backgrounds. The goal of the Department of Religion is to guide students toward a
reflective vibrant Christian faith that is "owned") in the sense that students take personal responsibility for their own faith and behavior, and for the decisions they have made.
These goals reflect SPU's identity as a Christian, liberal arts University, and the Department of Religion's commitment to helping students understand and appreciate experience shape Christian thought and life The Department of Religion serves all SJ hrough courses meeting Foundations requiremudsts requirements, described elsewhere in this Catalog, introduce students to the Christian theological tradition and
its biblical
heritage. s biblical heritage.

The Religion Department offers majors in educational ministry/Christian education and religious studies. Both majors are built on the foundation of a common core tradition, reason, and personal experience Each majiorthen adds additional credits in spocialized course work The Department also offers four minors: biblical studies, cross-cultural ministries, educational ministry, and youth ministry. A minor in one of these areas will enrich the Christian perspective in a student's chosen major and trengthen the connection between Christian faith and oneís life in the work-place, in the home, in the church and
in the world. An International Service Certificate program is aso offered to those interested in living and working as a Christian in a multicultural setting.

## Religion Majors

Prerequisites to Declaring a Major in the Department of Religion
Students must have a cumulative GPA of 2.00 or higher in all previous college credits, and have attained at least a "C + rade ( 23 grade-point) in in introductory religion course.

## EDUCATIONAL MINISTRY/CHRISTIAN

## EDUCATION MAJOR

The field of educational ministry, traditionally known as Christian education, is an interdisciplinary area addressing ersons. To answer this question the field explores the Coundational areas of theology, biblical studies, the social sciences, and educational philosophy.
A major in educational ministry is recommended for students interested in spiritual development and the educationa/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 hurch or parachurch setting.
Occupationally, educational ministry majors work within church and parachurch organizations. Possible church roles nclude: Director of Christian education, youth director and student development, Christian service organizations, Christian camping and curriculum design.

## Requirements for the Educational

 Ministry/Christian Education Major (68-72 Credits)See page 42 or 49 for a summary of degree requirements]
Prerequisite to declaring major: REL 2560 Foundations for Educational Ministry with a "B" grade or above.

## Biblical Literature

Biblical Heritage Foundations requirements...................... 10
elect one upper-division BIL course....

## History of Christianity

Select two courses from the following:
REL 3602 Reformation and Modern Christianity(5)
REL 3631 Women in Christianity (3)... $\qquad$

## Christian Theology

REL 2720 Introduction to Theology.
or REL 4725 Issues in Theology (5)
$\qquad$ .

## Educational Ministry

REL 2560 Foundations for Educational Ministry REL 2563 Curriculum and Instruction REL 3501 Human Development and Christian Faith EL 4571 Current Issues in Educational Ministry REL 4584 Child Development and Educational Minisistry*........ 5 RLL 4585 Adolescent Development
and Educational Ministry*
 ${ }^{\text {Total.................................................................. } 68}$ One practicum credi....................................................

## RELIGIOUS STUDIES MAJOR

Courses in religious studies provide students the
Pportunity to study bibicical literature and Clinstial urture those skills and capacities required of a thoughtful nd articulate faith. As a result of majoring in religious studies, the student is well prepared either for the wor place or for graduate study in the humanities or the is major also seeks to enhance the student's sewith God ent's service to

Requirements for the Religious Studies
Major
(61-65 Credits)
[See page 42 or 49 for a summary of degree requirements]

## Biblical Literature

Biblical Heritage Foundations requirements $\qquad$ $\cdots$
ect one course from the following:
BIL 3301 Genesis (5)
BIL 3401 The Life and Teachings of Jesus (5)
BIL 3402 Acts: Vocation and Vision (5)
BIL 3403 Paul and His Mission (5) ....
BIL 4301 The Former Prophets (5)
BLL 4302 Old Testament Writings (5)
BIL 4401 The Non-Pauline Letters (5)
BIL 4402 The Book of Revelation (5) $\qquad$

## History of Christianity

Select two courses from the following REL 3601 Early and Medieval Christianity (5) REL 3602 Reformation and Modern Christianity (5)

## Christian Theology

REL 2720 Introduction to Theology
Select two courses from the followin
REL 3701 Exploring Theology (5)
REL 4621 Theolog of Wesley (5)
REL 4621 Theology of Wesley (5)
REL 4625 Theological Classics (5)

## Christian Life and Ministry

Select two courses from the following:
REL 2560 Foundations for Educational Ministry (5) REL 3501 Human Development and Christian Faith (5) Total.........

## Religion Minors

## BBLICAL SIUDIES MINOR

The minor in biblical studies affords the opportunity to focus on biblical literature at a less concentrated level the major in religious studies. Still, its primary purpose is to move the student toward a thoughtful, integral, articulat Christian faith and a well defined spirituality. The minor in biblical studies is appropriate as a complement to other liberal arts or professional majors, and as preparation for
the work force or graduate studies in the humanities or professions.

## Requirements for the Biblical Studies

 Minor( 30 Credits; including 10 credits of 4000 -level coursework)

Old or New Testament BIL courses ${ }^{*}$
Total...
*Students may enroll in in Bli.............................................. 4601 Biblical Theology to fulill

## CROSS-CULTURAL MINISTRIES MINOR

The cross-cultural ministries program offers a minor, an internship, and a certificate. The internship and certificate serve all majors and minors throughout the University. The program works closely with the Office of Campus Ministries, through which many opportunities for supervised field
experience are available.

Requirements for the Cross-Cultural

## Ministries Min

(30-37 Credits)
REL 3383 Foundations for Witness and Service REL 3401 Living in Another Cuiture
REL 44987 Field Service Metl

REL 3499 Community Demmunication
REL 4419 Culture Area Study
REL 4910 World Christianity: Senior Tutor
REL 4940 Internship* ${ }^{*}$................................................................
Totai...ern spends one to two terms in an ethnic community overseas or locally, working on an academic project and earning 8 to 15 hours of credit. The academic project may be in the student's major, in cross-cultural ministries, or a joint project.

## EDUCATION MINOR

Issues in spiritual development and the education equipping ministry of the church affect all Christians. 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 which involves a helping relationship, and other roles concerned wit nurturing spiritual development.

Requirements for the Educational Ministry/Christian Education Minor (30 Credits)
REL 2560 Foundations of Educational Ministry REL 2563 Curriculum and Instruction .............

Select two courses from the following age-level courses: REL 4584 Child Development and Educational Ministry (3) REL 4585 Adolescent Development and Educational Ministry (3) $\qquad$
tand
Educational Ministry (3)
$\qquad$ course from the Christian Theology sectio Elective course work in educational ministry

## Total....

## YOUTH MINISTRY MINOR

Reaching today's youth with the Gospel requires dedicated, apable 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 oward full-time placement after college through Young Life's Church Partnership program or full-time Young Life Religion.
Requirements for the Youth Ministry Minor
(31-36 Credits)
OM 1101 Introduction to Interpersonal Communication ... 3 PSY 4420 Adolescent Developmental Psychology. REL 35001 Human Development and Christian Faith REL 4585 Adolescent Development
and Educational Ministry........................
REL 3487 Practical Mission Strategies (3) $\square$ or SOC 3862 Racial and Ethnic Minorities (5) $\qquad$ elect one course from the following:
COM 2227 Small Group Discussion and Leadership (5) REL 2563 Curriculum and Instruction (5) ........................ COM 4940 Internship (2-5) or REL 4940 Internship (2-5) $\qquad$
Recommended courses: Students wanting to supplement the minor with additional course work should consider communication.

## INTERNATIONAL SERVICE CERTIFICATE

This brief program offers useful training for students who lope to live and work multiculturally as Christians, but cannot take enough courses to earn a minor in cross cultural ministries.

Requirements for the International Service Certificate
(9-11 Credits)
REL 3401 Living in Another Culture (3)
or REL 3488 Cross-Cultural Communication (3) .............. 3
Select one course from the following:
REL 3499 Comm
REL 4419 Culture Area Study (3)
REL 4498 World Religions (3)....

International Business)
or a second course chosen between:
EL419 Community Development (3)
REL 4419 Culture Area Study (3)
REL
Total ...

## Religion Courses

## iblical LITERATURE*

${ }^{*}$ Prerequisite to taking a media course in biblical literature, natriculated undergraduate students must have junior or regularly scheduled BLL 1220,3101 or 3201 course in order to obtain permission of instructor to register. Only 5 media redits may be applied towards Foundations requirement nd a major within the Department of Religion.

BIL 1220 EXPLORING BIBLICAL LITERATURE (5) The Bible is our most treasured book, yet sometimes seems difficult to understand and impractical to use. This course will benefit students y introducing the Christian Scriptures as a faithful and crusted ent biblical writers from diverse perspectives. Theological undertanding will increase as students study the Bible in the light of its literary, historical and cultural contexts. Tools of careful Bible tudy are provided which enable students to explore the meaning of significant biblical passages and to adapt their message to conolled in BLI 3101 or 3201 .
IL 3101 OLD TESTAMENT INTRODUCTION (5) Explores the literature and history of the Old Testament in the light of its study of selected literary units, major themese, text and canon. Class not open to students who have enrolled in BLL 1220. This ourse is also available $t$. learning. Class not ope Bo: Freshmen.
BIL 3201 NEW TESTAMENT INTRODUCTION (5) Explores
the literature and history of the New Testament in the light of its the literature and history of the New Testament in the light of its social, literary and biblical contexts. Application is made to today's
life f faith Class not open to students who have enrolled in BLL ife of faith. Class not open to students who have enrolled in Bli not open to: Freshmen.
BIL 3301 GENESIS (5) Prerequisite: BLL 1220 or 3101 . If we BIL 3301 GENESIS (5) Prerequisite: BLL 1220 or 3101. If we
don't begin with Genesis, we don't really begin! The book of Gen don't begin with Genesis, we don trealy begin!. "Where did the heavens and earth come from?" and "Where did our messed up world have its beginning and what does God plat
do about it?" In answer, Genesis tells the compelling story of a powerful but personal God, and a people who are sometimes world can be properly understood. Attribute: Writing Course. BIL 3307 OLD TESTAMENT BOOK STUDY (2) Prerequisite: BLL 1220 or 3101 or 3201 . An in-depth study of a selected book of he Old Testament. Biblical study methods are introduced and employed to construct the original, canonical, and continuing sig placed on the book's importance as the ongoing context for the church's reflection on the gospel of God. See current Time Sched redits. BIL 3308 PSALMS (5) Prerequisite: BLL 1220 or 3101 . The book It Psalms records bont he laments and praises of ancient lisrael. learning to interpret Hebbrew poetry, we will study selected praises and laments to learn how to both praise God and to lament to God in public and in private worship. In our study of the book of Psalms
we will be careful to attend to the different types of Psalms and we will be careful to attend to the different types of Psalms and
their different historical backgrounds. Attribute: Writing Course. BIL 3401 THE LIFE AND TEACHINGS OF JESUS (5) Prerequisite: BIL 1220 or 3201. "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 this course, students will be engaged in direct study of the gospel accounts in paraliel form along
BIL 3402 ACTS: VOCATION AND VISION (5) Prerequisite: Birst Christians. Acts is a story of mission and magic, of human conversion and divine calling, of Spirit and sacrifice. Our study will seek to understand the relevance of Luke's message within his first century world but also, more importantly, for his 20th century lirst centurn
readers.

BIL 3403 PAUL AND HIS MISSION (5) Prerequisite: BLL 12 or 3201. A fully contextual approach to Paul demonstrates the e a task theolosian whose theology is developed as a responses e task of nurturing young congregations. The approach to Paul's letters is historical, sociological and theological.
BIL 3407 NEW TESTAMENT BOOK STUDY
IL 3407 NEW TESTAMENT BOOK STUDY (2) Prerequiof the New Testament. Biblical study methods are introcuced and mployed to construct the original, canonical, and continuing sigficicance of that book's argument for God's people. Emphasis is ospel. See current Time Schedule for book selected to study May be repeated for credit up to 12 credits.
IL 3408 ROMANS - M (5) Prerequisite: BIL 1220 or 3201 non-distance learning). Develops the argument in Romans as a ontroversies provoked by his Gentile mission. Applies to conerrns of today's church. This course is available only through distance learning. Class not open to: Freshmen and Sophomores
BIL 4301 THE FORMER PROPHETS ( 5 ) Prerequisie: 220 or 3101 . Covers Joshua, Judges, I and II Samuel, I and II ings. Surveys the historical background, literary analysis, and eological interpretation of this important biblical corpuss. AtIL 4306 THE LATT
or 3101. This canonical division includes Isaiah Jeremiah Ezekiel 3d the twelve minor prophets. This class will focus upon the ook or portion of the book selected by the professor. After lear ng to interpret Hebrew poetry, we will listen to the prophets' complacent community? What comfort can there be for those complacent community? What comfort can there be for thos
BIL 4401 THE NON-PAULINE LETTERS (5) Prerequisite: BIL 1220 or 3201 . A study of the New Testament letteres from Hebrews to Jude, with attention on the book of James. Attention to he distinctive contribution each writing makes to a fully biblical ision of Christian life and faith. The approach to these writings etters within the New Testament. Attribute: Writing Course. BIL 4402 THE BOOK OF REVELATIIN (5) Prerequisite: BIL 220 or 3201 . Instead of being the "problem child" of the New this book, if read intelligently and sympathetically, can become th Sible's crown jewel. We will also note how many of its themes. ave had a profound influence on art, music, iterature and mod n psychology. Attribute: Writing Course.
or 3101 or 3201 . The Bible testifies in a variety of ways to what $G o$ id in Israel and in Christ to get the world back on track. Most eople find this biblical testimony fascinating and compelling. In
dddition, 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. Attribute: Writing Course. BL 4900 INDEPENDENT STUDY ( $1-5$ ) Registration Apova: Independent Study Agreement. May be repeated for credt

## CHRISTIAN THEOLOGY

EL 2720 INTRODUCTION TO THEOLOGY (5) Surveys the basic themes of Christian theology: the one God, creator of all ings, made flesh in Jesus Christ, present now in the Holy Spirit, ustification by grace through faith that works in love; the churcl he Christian in society, human destiny. Readings from classical case studies may be used.
REL 3701 EXPLORING CHRISTIAN THEOLOGY (5) Prerequisite: REL 2720 . In-depth study of essential affirmations of Chris ary on a three-year cycle. May be repeated for credit 3 times Class not open to: Freshmen.
REL 4725 ISSUES IN THEOLOGY (5) Prerequisite: REL 2720 tensive study of a particular doctrinal theme or theological prob nce; (2) theological aesthetics; (3) religion and science. Course may be repeated for credit when topic varies. May be repeated for
credit 2 times. Class not open to: Freshmen. REL 4900 INDEPENDENT STUDY (1-5) Registration Apup to 15 credits.

## CROSS-CULTURAL MINISTRIES

## TNESS AND SERVICE

 (3) In a pluralistic world why emphasize Jesus ons relation to other cultures? Through Bible study, students gilimpse God's global involvement, and build foundations for witness and service across cultures.REL 3401 LIVING IN ANOTHER CULTURE (3) Develops skills in cultural analysis and addresses practical issues of cop bonding, lifestyle, family, and team relations in an alien milieu. Provides an introduction to religions, to the indigenous Christian teachers, nurses, business people, arriculturalists, nutritionists social workers, musicians, mothers, and evangelists who work in another cuiture. Required for many summer interns.
REL 3487 FIELD SERVICE METHODS ( 3 ) Half
REL 3487 FIELD SERVICE METHODS (3) Half of this course is laboratory work in a cross-cultural ministry in Seattle, under th
direction of the Office of Campus Ministries. The other half of the course is theoretical classroom analysis, research, and critique, applying missiological knowledge to personal mission experience
REL 3488 CROSS-CULTURAL COMMUNICATION (3) Teaches skills in systematic analysis of cultures and empath Teaches skilis in systematic anay yis of cultures and empathetic service. May be repeated for credit 2 times.
REL 3499 COMMUNITY DEVELOPMENT REL 3499 COMMUNITY DEVELOPMENT (3) Course ad-
dresses current knowledge and strategies in community heal dresses current knowledge and strategies in community health, agriculture, smain business developmenent, communityorganization students with resources and agencies.
REL 4419 cULTURE AREA STUDY
REL 4419 CULTURE AREA STLDX: (3) Course will focus on
culture area such as Latin America, Asia, Muslim world or Europe, and historic and contemporary concerns of Christians in the region. May include field trips to Seattle ministries focusing on this culture. May be repeated for credit 3 times REL site: REL 3401. Animism, Islam, Buddhism, Hinduism and Cuie Japanese and Latin American religions are explored. Each faith is set in philosophical context. Applications for effective Christian shares with each faith are suggested. Apologetic bases for contrasting Christian faith with others are delineated. REL 4910 WORLD CHRISTIANITY: SENIOR TUTORIAL ( 1
 alized planning for further career progress.
EDUCATIONAL MINSTRY/CHRISTIAN EDUCATION REL 2560 FOUNDATIONS FOR EDUCATIONAL MINISTR Church's teaching ministry. The task of educational ministry is designing teaching/learning experiences and environments which facilitate Christian formation. Students will examine the and psycho. REL 2563 CURRICULUM AND INSTRUCTION (5) Provides a systematic approach to curriculum development and instructional theory for Christian education including theological, sociological fective Bible teaching.
REI 3501 HUMAN DEVELOPMENT AND CHRISTIAN REL 3501 HUMAN DEVELOPMENT AND CHRISTIAN
FAITH (5) Studies the integration of theology and life span psin Paryin (5) Studies the integration of theology and life span pyycholChristian. Stage theories of development, human religious experience and metaphorical and narrative theology are ad- dressed.
REL 4571 CURENT ISSUES IN EDUCATIONAL MINISTRY REL 4571 CURRENT ISSUES IN EDUCATIONAL MINISTMY
(3) Current topics of interest that relate directly to educational ministry within and beyond the local church. Each year the topic change, but will be relevant to current educational minisitry issua
Attribute: Writing Course. Class open to: Educational Ministry majors and Religious Studies majors.
(5) Pre (5) Prerequisite: REL 2560. A A study of leadership from four per-
as a leader; leadership behavior and skills; and leadership in a position in educational ministrys Antributeparation fror a leade REL 4584 CHILD (3) Prerequisites: REL 2560, 3501 . Studies age-gro characteristics, needs, and interests of children with special emphasis on program development and teaching techniques related op program ideas. Educational Ministry nays may register for a REL 4585 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 credit practicum (REL 4930) to accompany this course. REL 4586 ADULT DEVELOPMENT AND EDUCATIONAL ariods of adulthood from the standpoint of characteristics. 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. Educational Ministry pany this course. REL 4930 PRACTICUM (1-3) Provides an opportunity for practical experience related to coursework taken concurrently. ppe-
cific arrangements should be made with the instructor. May be cific a arrangementis sho
repeated for credit up to 3 credits.
repeatec for credit up to credits.
REL 4940 INTERNSHP (1-15) Registration Approval: Intern
Learning Contract Req. Prerequisites: 25 creditis in religion or biblical
literature at SPU: current enroliment literature at SPU; current enrollment as a major in the
Reigion. May be repeated for credit up to 15 credits.

## FOUNDATIONS

The foundational requirement in Christian Perspectives may be satisfied by taking one of these courses.
REL 1501 DYNAMICS OF CHRISTIAN FORMATION (5) This course addresses issues involved in the growth and development of a person's Christian faith. It does so by considering how Scripture, tradition, human reason and human experience function as to assist the student in finding ways by which to develop his or he Christian faith. Significant classical and contemporary literature on Christian life are used.
REL 1610 CHRISTIAN
REL 1610 CHRISTIAN BIOGRAPHY (5) An introduction to the and men from across the Clristian era the lives of remarkable women ${ }^{\text {and }}$ Protestant traditions, and living in diverse cultures. REL 1620 CHRISTIANITY IN AMERICA (5) A survey of the
development of American Christian thought and institutions from the 17 th century to the present. Representative works by major thinkers of different historical. periods and denominational affilia tions will be studied. Particular attention will be given to the contemporary religious landscape, that is, to the varieties of America
church life today. REL 3610 CHRISTIAN BIOGRAPHY (5) An introduction to th history of Christianity through study of the lives of remarkable women and men from across the Christian era, representing Rotures. Class not open to: Freshmen.
REL 3620 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 maior the irth century to the present. Representative works by major
thinkers of different historical periods and denominational affilia tions will be studied. Particular attention will be given to the contemporary reigious landscape, that is, to the varieties of America

## HISTORY OF CHRISTIANITY

REL 3601 EARLY AND MEDIEVAL CHRISTIANITY (5) A survey of Christianity from its post-Apostolic origins to the end
the Middle Ages. Initially, evaluates the formation of Orthodoxy the challenge of Heterodoxy, early monasticism, missions to West ern Europe; then explores the achievement of the Medieval Church through a study of the Equivalent: HIS 3401. Class not open to: Freshmen.

REL 3602 REFORMATION AND MODERN CHRISTIANIT (5) A survey of Christianity from the reformations of the 16 th Anabaptists; Anglicans and Puritans; the Council of Trent; 17th century orthodoxy, rationalism and pietism; the beginnings of Christianity in America; the Great Awakening and Wesleyan revival of the 18 th century REL 3605 TOPICS IN THE HISTORY OF CHRISTIANITY (3-5) Specific focus varies. Current topic. "Western Spirituality: Heretics, Mystics and Monks" (3). Explores various spiritual movenents from the Early Church to the 16 th century, with special atProtestant traditions. May be repeated for credit up to 10 credits. Course Equivalent: HIS 3 3405. Class not open to: Freshmen. REL 3631 WOMEN IN CHRISTIANITY (3) A survey of women Church history. The class will examine the cultural contexts of biblical eferences to women, their implications for the present, and contribuions selected women have made to the Church and the world. Theology, theological education, ministry style, service opportunities, and
challenges faced by women today will be discussed. REL 4621 THEOLOGY OF WESLEY (5) Prerequisite: REL
2720. Studies the life, thought and legacy of John and Charles 2720. Studies the life, thought and legacy of John and Charles Aestey, the leaders of the 18 th century British Methodist Revival.
Attention will be given to the historical, social and religious background of the Revival, and to the impact of the Wesleyan movement on British and American culture and church life. The Wesleyan understanding of God, human nature, spiritual growth,
church life and worship, and social witness will be disclused. Class not open to: Freshmen. REL 4625 THEOLOGICAL CLASSICS (5) Prerequisite: REL 2720. Intensive study of a classic work from the Christian theologi-
cal tradition or of the works of an important theolosical writel cal tradition or of the works of an important theological writer:
Current topic: The life, thought and legacy of Jonathan Edwards. May be repeated for creditit 2 times. Class not open to: Freshmen.

## Paul T. Walls Chair in Wesleyan and

## Biblical Studies

The Paul T. Walls Chair in Wesleyan and Biblical Studies has been established at Seattle Pacific University with a beques from the family of Paul TT. Walls. Paul T. Walls served the University as a member of its Board of TTustees for 31 years, promotes scholarship in Wesleyan and biblical studies, provides in-service education for Free Methodist and Wesleyan pastors, and serves the University and the Free Methodist church as a Wesleyan-Arminian spokesperson in regional, national, and international forums. The curren holder of the Chair is Dr. Randy Maddox

## ROTC Programs

ROTC programs are offered to SPU students via cross-town agreements with the University of Washington. SPU accept O-24 quarter credits from an approved ROTC program from the freshmen and to groduate: up to 3 credits each credits each from the junior and senior sequences. If a 9 student drops out of the program the ROTC credits do not
apply toward graduation. Upon completion of a ROTC apply toward graduation. Upon completion of a ROM transcripts for the SPU Registrar's Office.

## ROTC Academic Achievement Award

Students who are avarded Rove siola 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 high school grade point average and SAT Combined Mat ward and who demonstrate commitment to the Christion 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 FORC

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 Cor active duty as officers in the U.S. Air Force. The 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 may enroll in these classes. The junior- and senior-level classes (professional officer course) are open to qualified students who have been competitively selected for entry. For further information contact the Recruiting Officer at (206) $543-2360$ or write: Recruiting Officer, AFROTC Det 910 , University of Washington, Box 353830, Seattle, WA 981953530; email: tplumb@u.washington.edu; http:

## Commissioning Requirements

Students who successfully complete the AFROTC program
Students who successtuly complete the AFROTC pro
and receive an academic degree from Seattle Pacific University are offered commissions as second lieutenants in the U.S. Air Force. They will serve four years in the military.

## General Military Course

The basic courses consist of one classroom hour and one leadership laboratory hour per week during the freshman and sophomore years. Uniforms and textbooks are provided. Students may enter the freshman class at the
start of autumn, winter, or spring quarter. Sophomore students may enter at the start of autumn or winter quarter. A four- or six-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 cours 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 $\$ 150$. They are furnished texts and uniforms. Junior and senior--evel classes consist of three hours of academi classes and one hour of leadership laboratory per week.

Financial Assistance
The Air Force offers two and three year scholarships to tudents with a GPA over 2.6. Full tuition scholarships are available in the areas of engineering, science and technology, and nursing. Students awarded scholarships from the Air Force ROTC Scholarship Board are eligible fo
a supplemental room grant. To take advantage of these scholarships, students should apply directly to A FROTC UW (address noted above).

## 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 six-week fiel training course at an Air Force base during the summer preceding program entry. The student is paid during the six-
week period. Upon return to the campus students pursue the week period. Upon return to the campus, students pursue the subsistence are provided. Two-year scholarships are available for qualified students. Students interested in this program should contact the AFROTC department during OctoberDecember prior to the autumn quarter they desire to enter.

## Course Descriptions

AS 101, 102, 103 AEROSPACE STUDIES $100(\mathbf{1}, 1,1)$ 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 ( $1,1,1$ ) Exam-
ines factors contributing to the development of air power from its ines factors contributing to the development of air power from its and doctrine; history of air power employment in military and non
military operations in support of national objectives. Assessment military operations in supp
of communicative skills
AS communicative skilis. $331,332,333$ 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 Air Force junior officerr. Case studies are used to examine eeadership
and management situations. Mandatory leadership laboratory provides and management situations. Mandatory leadership laboratory provid
advanced leadership experiences in oficer-typ activities, giving students the opportunity to apply learned principles.
AS 431, 432, 433 AEROSPACE STUDIES
AS 431, 432, 433 AEROSPRACE STUDIES $400(3,3,3)$ Exam ines need for national security evolution of American defense
strategy and policy, methods for managing conflict, aliances, and regional security to preserve American interests. Arms control and terrorism. Looks at the military as a profession, officership, the miltary justice system, current miitary issues, refinement

## MILITARY SCIENCE

## The Program

Army ROTC is offered to SPU students through agreement with the University of Washington. The program offers the student several elective options for the ofters the student several elective options or the anment of an Army officer's commission in 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 time 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 543-9010 or write: Professor of Military Science, University of Washington, Box 353820, Seattle, WA
98195 , email: ROO@milsci.washington.edu.

Financial Aid
Cadets receive financial aid in two forms: two, three, and four year scholarships are awarded annually to cover schoo expenses. The scholarships pay up to $\$ 12,000$ per year well as a monthly allowance of $\$ 150$. The second type o assistance provides a $\$ 150$ per month allowance to all nonscholarship cadets in the advanced course. In addition to this aid, stent 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 successful completion of the six-week advanced camp the summer prior to the senior year.

## BTGSitn <br> See Languages section.

## Science Education

See Education section.

## Social and Behavioral Sciences

(Interdisciplinary courses)
SBS 4911 INTERNATIONAL BUSINESS: MANAGEMENT AND MARKETSG (9) Registration Approval: Travel Fudies
Form. Students investigate management and marketing in America. Businesses explored include export commodities and multinationals marketing in Latin America. Special emphasis given
to sources of information for planning. Class not open to: Freshto sources of information for planning. Class not open to:
men and Sophomores.
SBS 4912 MIDDEAST SEMINAR: PEOPLES AND CULTURES (6) Registration Approval: Travel Studies Form. Pre requisite: Acceptance into the Middle East Studies Program. By arrangement with the campus program coordinator. Fall or spring
semester study in Cairo Foypt with the Middle East Studies Program of the Coalition of Christian Colleges and Universities. Inter disciplinary introduction to the cultural, political, and religious characteristics of Middle Eastern peoples. Class not open to Freshmen. Class not open to: Non-Matriculated. MODERN WORLD (6) Registration Approval: Travel Studies Morm. Prerequisite: Acceptance into the Mirdile East Studies Pro gram. Taught through semester-long program of the Coalition for nary introduction to the history, beliefs, practices, and social struc Lures of Musims and their responses to the Western challenge. SBS 4914 MIDDIE EAST SEMINA CHANGE (6) Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the Middle East Studies Program. Taught through semester-long program of the Coalition for Chris-
tian Colleges and Universities in Cairo, Egypt. Interdisciplinary
exploration of political, economic, and cultural origins of conflict, in particular, the Arab-I-Iraeli conflict. Includes two-week study
trip to srael and the West Bank. Class not open to: Freshmen. trip to Israel and the West Bank. Class
Class not open to: Non-Marticulated
Class not open to: Non-Matriculated.
SBS 4915 PUBLIC POLICY SEMINAR (12) Registration Approval: Travel Studies Form. Prerequisite: Acceptance in the American Studies Program. Taught through semester-long program on Coin topics in the American political, historical and cultural context. Reviews both domestic and international issues. Class not open to: Freshmen and Non-Matriculated.
SBS 4917 SEMINAR IN LATIN AMERICA CULTURE (9)
Registration Aproval: Travel Studies Form Registration Approval: Travel Studies Form. Prerequisite: Accep-
tance in the Latin American Studies Program. Taught through semester-long program of Coalition for Christian Colleges and Universities in Costa Rica. Two seminar-level courses will be
devoted to Latin American politics and soci-ceonomic issues. Class not open to: Freshmen and Non-Matriculated.
SBS 4931 MIDDLE EASTERN SERVICE PRACTICUM ( 6 ) Registration Approval: Travel Studies Form. Prerequisite: Acceptance into Middle East Studies Program. Taught through semeste
long program of the Coalition for Christian Colleges and long program of the Coaition Por Christian Colieges and
Universities in Cairo, Egypt. Weekly service-learning activities Universities in Cairo, egypt. Weekly serice--earning activies
andsty of colloquial Arabic. Class not open to: Freshmen. Class
not tpen to not open to. Non-Matricuated.
SBS 4937 INTERNATIONAL PRACTICUM (6) Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the Latin American Studies Program. Taught through semester-long Costa Rica. Opportunity to participate in a two week, hands-on
service project will be offered mid way through the semester. service project will be offered mid way through the seme
Class not open to: Freshmen and Non-Matriculated. SBS 4945 INTERNSHIP (12) Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the American Studie
Program. Taught through semester-long program of the Coalition Program. Taught through semester-long program of the Coalition
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
minitries, ministries, marketing and corporate enterprise, legal matters,
 SBS 4979 INDEPENDENT RESEARCH (2-12) Registration Approva: Instructor. By arrangement with the coordinater in con- 12 credits. Class not open to: Freshmen.

## Social Service

See Sociology section

## Sociology

Cynthia Price, Chair; David Caddell, David Diekema, Kevin Neuhouser, JoEllen Watson 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 interaction. Sociology courses focus on cheir collective these groups and examine the society which they form.

The central premise of sociology is that the individual cannot be understood apart from societal and interpersona contexts. Therefore, coursework is designed to help

Russian
students gain perspective on themselves and the world around them through an analysis of social structure and Students majoring in sociology have secured positions government, business, industry and private research agencies. Others hold jobs in planning agencies and
research departments of city county state and federa research departments of city, county, state and federal 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 which provide an overview of theory and skills servsices to people in need. Many graduates take entry level positions in the areas of child welfare, mental health, gerontology, delinquency, and in programs which alleviate poverty. A social service background assists and encourages tudents to prepare for graduate work, especially in the reas of social work, counseling, teaching or health car professions.

## Requirements for the Sociology Major

(53 Credits; 25 upper-division) Required core courses
OC 1110 Introduction to
 SOC 2360 Introduction to Statistics in SBS (5)
or MAT 1360 Introduction to Statistics (5).
SOC 3751 Introduction to Research Methods (5) ................... 5 SOClect 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)
OC 4380 Social Service Systems (5)
OC 4820 Sociology of Religion (5) ................................... 5
Social Problems
SOC 3370 Sociology of Deviance (5)
OC 4210 Women in the Third World (5)
SOC 4250 Sociology, Policy and Law (5)...
Individual in Society
OC 2440 Small Group Dynamics (5)
SOC 4308 The Helpining Process (5)
SOC 4440 Social Psychology (5) ...
Social Stratification
ANT 2250 Cultural Anthropology (5)
OC 3215 Social Inequality: Power and Privilege (5)
A choice of one of the following:
SOC 4910 Seminar \# (3)
or SOC 4930 (3-15)
Internship S) and SOC 494
Internship Seminar (1)
Totactives
........................................-68 be required to take SOC 2310/4310. Instead, they will take an additional 5 credits of elective. Students who elect to take the social service emphasis must, in addition to SOC 2310 4310, take SOC 4308 and SOC 4380 .

## Requirements for the Sociology Minor

 (30 Credits)SOC 1110 Introduction to Sociology ............................................
SOC 3751 Introduction to Research Methods
Select one course from each of the following three areas:

## Social Institutions

SOC 2252 Marriage and the Family (5)
SOC 3420 Political Sociology (5)
SOC 4252 Sociology of Family (5)
SOC 4380 Social Service Systems (5)
SOC 4820 Sociology of Religion (5) ...

## Social Problems

SOC 3370 Sociology of Deviance (5)
SOC 42110 Women in the Third World (5)
SOC 4250 Sociology, Policy and Law (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) ....
Elective
Total....
Students should consult a sociology advisor to create a 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 which 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.
ANT 2250 CU
ANT 2250 CULTURAL ANTHROPOLOGY (5) Focuses upon cal, social, political and religious systems with examples drawn from selected cultures of the world.
ANT 4920 READINGS IN SELECTED FIELDS (2) Registration Approval: Independent Study Agreement. Prerequisites: 15 upper-division credits of 14 grade
ANT 4970 INDEPENDENT RESEARCH (2-5) Registration
Approval: Instructor. Prerequisite: """ rrade work in the discipline Approval: Instructor. Prerequisite: "B" grade work in the discipline May be repeated for credit up to 30 credits.

## 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; analyses of: the mutual interaction of society and the individual;
major theoretical perspectives; methods for obtaining sociological major theoretical perspectives; methods tor obtaining sociological
knowledge; and major problems and issues which confront societknowledge; and major problems and issues which confront sociel
ies. Note: Emphasis from a United States, Third World, or Social
Probs Problems perspective will be offered. The Sociology department will be able to identify which course has which emphasis.
SOC 2252 MARRIAGE AND THE FAMILY (5) Surve family as an institution and a mode for personal living: marital adjustment, parent-child relationships, changing family patterns and family did

SOC 2310 FOUNDATIONS FOR SOCIAL SERVICE (5) Provides a comprehensive examination of the various foundations of
social services and social welfare including the sociological, his social services and social weliare inclucing the sociologica, ind
torical, professional, educational, economic, political, psycholog cal, and religious/ philosophical founcations. Course Lquivale SOC 4310.
AND BEHANTRODUCTION TO STATISTICS IN SOCIAL algebra or equivalent; and SOC 1110. (If the sududent registers for SOC 2360, SOC 1111 is prerequisite; PSY 1180 is prerequisite for PSY 2360. Presents the conceptual basis and application of statis-
tical 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 Equival
PPY 2360 .
SOC 2440 SMALL GROUP DYNAMICS (5) Examines the
socll 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.
small groups smal groups to larger social structures. offered alternate years.
SOC 2315 SocIAL INEQULITY: 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. Attribute: Writ-
ing Course.
SOC 3270 SOCIALIZATION (5) Prerequisite: SOC 1110. Socialization is the process by which individuals develop into social 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 adylts media and socia ieveloment, and the role of history in socializing cohorts of people.
SOC 3370 SOCIOLOGY OF DEVIANCE (5) Examines a variety SOC 3370 SOCIOLOGY OF DEVIANCE (5) Examines a variety
of nonconforming behavior such as alcohol abuse, , wrug use, , menta of nonconforming beiavion sess, violent crime, homosty, and suicicide wtih attention paid to issues of domestic viownce, at atention paid to issues of social deininion and causar explanation. (5) Studies crime and
SOC 3371 CRIME AND DELIQUENCY delinquency in modern society focusing on both individual an SOC 3410 MEDICAL SOCIOLOGY (5) Prerequisite: SOC 1110 or permission of instructor. The study of the relationships be-
tween social institutions and medicine, as well as the social detween social institutions and medicine, as well as the social de
mography of health, doctor-patient interactions, and ethical dilemmas developing from rapid technological advances. SOC 3420 POLITICAL SOCIOLOGY (5) Prerequisite: SOC 1110. This course is an introduction to "political sociology," the To focus the analysis, the course is oriented by two questions: What is the social basis of political power? Why is the social basis for democratic regime stability or instability?
SOC 3750 LATIN AMERICA 5 ) Traces
SOC 3750 LATIN AMERICA (5) Traces the history of Latin economic, social, religious, and aesthetic values. Course EquivaIent: HIS 3750 . Class not open to: Freshmen.
SOC 3751 INTRODUCTION TO RESEA
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 lechniques, and the examination of representative sociological an political studies from the standpoint of methodology. Note: PSY 338 may be an empirical study and 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 .
SOC 3862 RACI
SOC 3862 RACIAL AND ETHNIC MINORITIES (5) Studies the nature of minority relations, methods and problems of group
adjustment, and positions of various minority groups in American socio-cultural life.
Soc 410
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 and spiritual well-being of third world women. The course will exam-
ine how contemporary processes of social and economic change in th third world impact women and how "development"" could better ad-
dress dress their needs. 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 years. Attribute: 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
Offered alternate years.
SOC 4308 THE HELPING RELATIONSHIP: THEORY AND SOC 3308 THE HELPING RELATIONSHIP: THEORY AND
SKILSS (5) Examines the knowledge base and practice for the SKILLS (5) Examines the knowledge base and practice for the
helping process as found in social services and social work. Prokiping process as found in social services and social , fomilies, groupp, and communities. Introduces the roles and tasks of the
scial service practioner. Various theories and methods of intersocial service practioner. Various theories and methods of inter vention are examined and basic skills in interviewing, forming
helping relationships, assessment, intervention, termination, and evaluation are developed.
SOC 4310 FOUNDATIONS FOR SOCIAL SERVICE (5) Provides a comprenensive examination of the various foundations of social services and social welfare including the sociological, his-
torical, professional, educational, economic, political, psychological, and religious/ philosophical foundations. Course Equivalent: SOC 2310.
SOC 4380
SOC 4380 SOCIAL SERVICE ORGANIZATION (5) Explores the significant number of identifiable service systems which have cuses upon specific problem areas; examines the related service systems. Gives particular attention to the effective utilization of The available resources for the various problem areas.
SOC 4440 SOCIAL PSYCHOLOGY (5) Studies the in within the context of larger social patterns and forces. Include the major theories, methodological approaches and substantive areas of investigation which figure prominently in social psychology
(e.g.,. social interaction, gender, deviance aggression, conformity (e.g., social interaction, gender, deviance, aggression, conformity,
etc.). Note: students may not receive credit for both SOC 4440 and PSY 3438. Sociology majors and minors must take SOC 4440 not PSY 3438.
SOC 4702 CLASSICAL SOCIOLOGICAL THEORY (5) EXplores the major theoretical issues raised by classical theorists
such as Weber, Simmel, Marr, Durkheim, and Mead, and their influence on contemporary social theory. Attribute: 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 interactionsim, structural theories, feminis theories. Emphasis will be placed on the basic assumptions and
elemental ideas of the various theories, and the relevance of these deas for understanding contemporiary society to evaluate the deas for understanding contemporary society to evaluate the
extent to which the various theories provide plausible and verifiable ideas about society and its workings.
SOC 4820 SOCIOLOGY OF RELGIO
SOC 4820 SOCIOLOGY OF RELIGION (5) An analysis of religion as a social form including: religious social perspectives, con-
version and commitment processes, sect and cult, charisma and its routinization, religion and inequality, secularization, and social change. Attribute: Writing Course.
SOC 4910 SEMINAR (3) Regist
OC 4910 SEMINAR (3) Registration Approval: Instructor Provides a seminar experience in emerging and in specialized topics within sociology such as family violence, death and dying,
etc. Offered alternate years. May be repeated for credit up to 12 credits. Class open to: Sociology majors.
ration Approva: Independent Study Agr FIELDS (1-5) Registration Approva: Independent Study Agreement. Prerequisites: 15
upper-division credits of " $B$ " grade work in the discipine. May be epeated for credit up to 30 credits.
OC 4930 PRACTICUM IN SOCIOLOGY (3-15) Registration Approval: Intern Learning Contract Req. Prerequisites: SOC 2310 or
SOC 4310 and SOC 4308 or SOC 4380 . SOC 4308 or SOC 4380 mow be aken concurrently. Provides field experience for thoces students eeking opportunities in direct services, particularly in the area of cas
management. These students will relate sociological methods and socia work skills to an applied setting. A learning contract describing the faculty sponsor. Additional information and all placement approv als are obtaned from the internstip Coordinator in the Sociology SOC 4941Class not open to: Freshmen and Sophomores. SOC 4940 INTERNSHIP IN SOCIOLOGY (2) Registration Approval: Intern Learning Contract Req. Provides field experien 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 a for the Sociology department. May be repeated for credit up to 6 credits. Corequisite: SOC 4941.
SOC 4941 INTERNSHIP SEMINAR (1-4)
(2-5) Registration May be repeated for credit up to 30 credits.

## pecial Study Progirams

Intrnational University Westmont College, and Wheat College. Applications should be filed through Student March 1 ; for winter and spring quarters the deadline is October 1.
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 African nationals. Admission to Daystar is limited to
Consortium students in their junior or senior years.
In addition to the above-noted Coalition or Consortium programs, other opportunities for off-campus study are available. These include European Studies, Fashion Institute on Mechnology in Los Angeles and special summer
study programs. Alist
follows.

- American Studies Program (Washington DC)

Reed Davis, Political Science Department

- Clark Atlanta College (Atlanta GA) Office of Studen - Clark Atlanta College (Atlanta, GA) Office of Student Life - Costa Rica Nursing Program
- Consortium Student Visitor Program Student Academic Services
- Daystar University (Nairobi, Kenya)
- Donald Holsinger, History Department
- European Studies Program Foreign Language Department Marketing FIDM (LA) Family Consumer Sciences Department
- Fashion Institute of Technology Stella Warnick,

FIT (New York) Family Consumer Sciences Department

- Film Studies Program (Los Angeles)

James Chapman, Theatre Department

- Latin American Studies Program (Costa Rica)

Jeffrey Barnhart, Foreign Language Dept

- Middle East Studies Program (Cairo)
Donald Holsinger, History Department
- Russian Studies Program Marilyn Severson,

Foreign Language Dept.

- Salamanca Program (Spain)

Alberto Ferreiro, History Departmen
Taiwan Nursing Program
Annalee Oakes, School of Health Sciences

## Student-Designed Major

Students with a particular interest crossing the boundaries of disciplinary majors may design an individualized major or courses selected from the various disciplines which apply to their special interest.
Once a student has discussed a possible special major with a faculty advisor, he/she should submit the proposed program, a statement of purpose and rationale, and Undergraduate Policy and Evaluation Committee. The proposal should provide evidence that the student has considered courses or learning experiences, such as independent study or internship, which will provide an
opportunity to integrate content and skills from the various disciplines in his/her program. The committee may sugge changes, but once the proposal has been approved a Student Academic Services. 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.Astyon tor to apent-designed major.

## Textiles, Clothing and Interiors

See Family and Consumer Sciences section.

## Theatre

James Chapman, Chair; Barbara Korner, George Scranton, Donald Yanik
The study of theatre provides students with opportunities to explore personal values, develop personal skills and acquir techiques 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 theatre as a social, spiritual and artistic institution. The experience is a liberalizing one, designed to allow the student to explore and develop herhimself as both an

## individual and artist

By the nature of the art itself, the production and performance process is inherent to undergraduate theatre on skills associated with performance play writing toc on skills associated with performance, play writing,
directing, designing and technical theatre crafts. In to the classroom experience, and extensive production program is maintained. The performance schedule is divided among mainstage, studio, laboratory and touring productions, titles selected to reflect a wide range of dramatic forms and styles. Special emphasis is given to between theatre and the Christian faith

## Career Opportunitie

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 professiona theatre. Career opportunities for theatre majors extend beyond acting into other specialties such as setting, lighting 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, sensitivity to others - are 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 transterring sudents beyond the sopiomore level, 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 théatre faculty's approval an application for admission. Application should be
made through the Office of Fine Arts on forms available made th
there.

## Requirements for the Theatre Major

## (70 credits; 30 upper-division)

see 42 or 49 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 must demonstrate a growing 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.)
CA 4100 Arts and Religious Experience is highly

## Core Courses



TRE 1720 Stagecraft
TRE 1810 Playscript Analysis
,
or, alternately TRE 1340 Acting I: Fundamentals............... 5 TRE 2420 Theatre and Drama: Tragedy (5)
or TRE 2421 Theatre and Drama: Comedy (5) TRE 2732 Scene Design and Technical Drawing.......................... TRE 3710 Play Directing... TRE 4910 lay TRE 4910 Hist
Tota
${ }^{*}$ A maximum of 12 cre............................................................. applied toward the major, any number toward the BA

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 through the Office of Fine Arts on forms wailable there

Textiles, clothing

Requirements for the Theatre Minor (35 credits; 15 upper-division)
Students minorin
Students minoring the study of theatre must fulfill the following 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 must demonstrate a growing ability in theatrical criticism, artistic awareness, and personal theatrical skills.
FPA 4100 Arts and Religious Experience is highly recommended (meets general education Fine Arts Core). TRE 1720 Stagecraft
TRE 1810 Playscript Ana
or alternately Actin
or, alternately Acting I: Fundamentals.
TRE 2420 Theatre and Drama: Tragedy ( $)$
or TRE 2421 Theatre and Drama: Comedy (5)
TRE Electives.....................
Total........................................................................ 17 A maximum of 8 credits of practica offerings may be app

## Theatre Courses

TRE 1110 THE THEATRE EXPERIENCE (5) A study of the theatre as both a distinctive art form and a social instrument, con-
sidered 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. Class not open to: Theatre majors
The 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 relationships through improvisation and scene-work. No credit for students who have taken TRE 1340 .
TRE 1340 ACTING I: FUNDAMENTALS (5) Registration Apmajors or minors or others with extensive acting experience. Pre pares students for dramatic performance through intensive work in sensory wareness, observation skills, selective imagination. scene-work. No credit given for students who have taken TRE 131 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 student a broad understanding of the basic principles and technical
procedures used in the design of scenery costumes, lighting, sound and production management. Corequisite: TRE. 1931 .
TRE 1810 PLAYSCRIPT ANALSUSIS (3) Foundational approaches to problems of script analysis and form/syyle/mood distinc-
tions. Reading and analysis of representative plays from the distinct tions. Reading and analysis of representative plays from the distinct
perspectives of playwright, actor, designer, director. Attendance at selected theatrical productions and applied critical activity. 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. TRE 1931 PRODUCTION PRACTICUM (2) Offered for design, technical theatre or managementa activity associated with approved
theatrical productions. May be repeated an unlimited number of
times. 2304 UNIVERSITY PLAYERS (1) Registration Approval: Instructor and audition. May be repeated an unlimited number of times. Class open to: Freshmen and Sophomores.
TRE 2320 STAGE MOVEMENT (3) Specialized TRE 2320 STACE MOVEMENT (3) Specialized movement for fights, and the use of theatrical masks. TRE 2340 ACTING II: CREATING CHARACTER (5) Prerequisite: TRE 1310 or permission of instructor. Improvisation and oped through both internal and external performance techniques. TRE 2350 THEATRE VOICE (3) A study of yocal production as related to the actor's craft. Analysis and exercises designed to

TRE 2420 THEATRE AND DRAMA: TRAGEDY (5) The natur of tragedy and tragic expression in the theatre as revealed by TRE 2421 THEATRE AND DRAMA: COMEDY (5) Principle theories of the comic as presented in the theatre anc preserved in playscripts drawn from the history of Western civilization.
TRE 2732 SCENE DESIGN AND TECHNICAL DRAWI TRE 2732 SCENE DESIGN AND TECHNICAL DRAWING (5)
Prerequisite: TRE 1720. An introductory course for designers with rerequisite: TRE 120. An introductory course for designers with
mphasis on analysis and intrepretation of the script, use of research material and techniques of presentation. Includes an intro. duction to and the application of standard practices of drafting.
TRE 2740 INTRODUCTION TO LGGTING AND SOUND (3) Prerequisite: TRE 1720. Introduction to stage lighting and sound covering basic electricity, equipment and instruments, and the principles of lighthing and sound design. Offered alternate years.
TRE 2950 SPECIAL TOPICS IN THE ATRE credits to be announced in Time Schedule when offered. Topia credits to be announced in inme schedule when offeres. Topics student interest. Possible topics include: Great themes of drama Medieval drama, the Oriental theatre, theatre architecture, contemporary
TRE 3321 ELEMENTS OF MIME (3) An introduction to the theory and practice of mime, the language of gesture. Offered alternate years.
TRE 3340 ACTI ormance techniques for plays of specialized historic and stylistic enre, including scene-work drawn from Classical, Shakespearean Mannerist, Realist, Epic and other dramatic materials.
TRE 3710 PLAYY DIRECTING (5) Prerequisite: TRE 1810 or permission of instructor. Consideration of both aesthetic and eechnical aspects of directing through basic theory in achieving nization, casting and re hearsing Practical application. Offered alternate years. Class not open to: Freshmen and Sophomores. TRE 3720 STAGE MAKE-UP (3) An introduction to the techniques and application of stage makeup for straight and corrective crepe hair techniques.
TRE 3732 SCENE PAINTING (3) Instruction in the basic scen painting techniques for the stage. Offered alternate years.
TRE 3750 COSTUME AND PERIOD STYIES ( 5 ) tory course for desitners with enasis on anawis an introduc tory course for designers with emphasis on analysis and interpre
tation of the script for costume plot, the designer's sketch and presentation. Also includes a survey of period styles of costume, rchitecture, ornament, furniture and its application to stage design. Offered alternate years.
TRE 3780 THE ART OF FIL
of the development, techniques, aesthetics and thry examination tion picture, centering on viewing, discussing and criticizing films not open to: Freshmen. May be repeated for credit 1 time. Cla not open to: Freshmen. Approval: Instructor and audition. Offered for performance or
directing-related activity associated with approved theatrical pro-directing-related activity associated with approved theatrical pro-
ductions. May be repeated an unlimited number of times. Class not open to: Freshmen and Sophomores. TRE 3931 PRODUCTION PRACTICUM (2) Registration Approval: Instructor. Offered for design, technical theatre, or man-
agement activity associated with approved theatrical productions. May be repeated an unlimited number of times. Class not open to Mreshmen and Sophomores.
TRE 4304 UNIVERSITY PLAYERS (1) Registration Approval: TRE 4304 UNIVERSITY PLAYERS (1) Registration Approval:
Instructor and audition. May be repeated an unlimited number of Instructor and audition. May be repeated an unimited number of
times. Class not open to: Freshmen and Sophomores. TRE 4760 PLAFWRITING (5) Prerequisite: TRE 1810 or permi sion of instructor. Seminar discussion and conferences in the
writing of an actual playscript. Offered alternate years. Class not writing of an actual playscript. Offered alternate years. Class not
open to: TRE 4770 CREATIVE DRAMATIC
exploring methods to move children from their inner circle of knowledge and experience to their outer circle of thought, expres knowedge and expenience to their outer circle of thoughit, exp
sion, and product through the use of creative drama. Offered
alternate years. Class not opent to: Freshmen and Sophomores.

TRE 4900 INDEPENDENT STUDY IN THEATRE (1-5) Regis Tretion Approval: Independent Study Agreement. May be repeated for TRE 4910 HISTORY OF THE THEATRE (5) Seminar in the history of the theatre from pre-classical to modern times, tracing evelopment and changes in theatre architecture, social purpose, he role of the theatre artist and Clas not open to: Freshmen and sophomores.
iope 4943 THEATRE INTERNSHIP (3-5) Registration Approval: htern Learning Contract Req. Prerequisites: 15 credits of " $B$ " or beuilty. Supervised application of theatre skills in the marketplace. May be repeated for credit up to 10 credits. Class open to: Theatre majors. Glass SPECIAL TOPICS in THEATRE (2-5) RE 4950 Instructor. Topic and credits to be announced inTime cchedule when offered. Topics offered usually only once, and only upon evidence of significant student interest. Possible topics include: Great themes of dra, 1 real dama, he Orien playwrights, and the like. May be repeated for credit up to 10 cred its.Class not open to: Freshmen and Sophomores. RE 4951 SPECIAL TOPICS IN THEATRE (2-5) Registration pproval: Travel Studies Form.
ion Approval: Instructor. Individual res area of specialization within the theatre discipline, culminating in the presentation of a project. May be repeated for credit up to 10 credits. Class open to:

## Film

ames Chapman, Coordinator
The Los Angeles Film Studies Center, a program of the Coalition of Christian Colleges and Universities, offers a semester-long liberal arts exposure to the workings of the film industry, exploring the ethical considerations an
cultural influences which arise from the industry's cultural influences which arise from the industry's 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 or details.
The Los Angeles Film Studies Center, located in arbank, California, provides students a unique opportunity experience. Participants have opportunity to met work rofessionals from all aspects of the film industry, to visit acilities 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 soal of providing opportunity to investigate tuture academic and/or vocational opportunities.

## Film Courses

TrM 4110 INSIDE HOLLYWOOD (2) Registration Approval: Film Studies Certer. Treugequisite: Acceptance into Los Angeles oalition for Christian colleges and Univessitities ing Los Angeles. A verview of the creative and operiational aspects of the Hollywood
ilm business, including the Christian's role in working within the entertainment business.

LM 4120 INTRODUCTION TO FILM (5) Registration Ap roval: Travel Studies Form. Prerequisite: Acceptance into the Los gram of the Coalition Con Christian Colleges and Universities in Los Angeles. An introduction to the theory and practice of motion
picture filmmaking. Topics include familiarity with filmmaking picture filmmaking. Topics include familiarity with filmmaking
equipment; basic motion picture techniques; converting idea to image; the usse of lighting, edititing 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 aith in content and process.
tudies Form Pr IN CULTURE (5) Registration Approval: Travel Sudies 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 mphasis 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, cullure, and the Caristian's role in identifying, discerning, and
ultimately ynfluencing movie content.
FLM 4140 SCREENWRITING (5) Registration Approval: Travel tudies Form. Prerequisite: Acceptance into Los Angeles Fith coadition for Christian Colleges and Universities in Los Angeles. AD introduction to contemporary screenwriting, including an understanding of dramatic structure, character and dialogue develop-
ment, 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.
(5) Registraion SAR: PRODUCING INDEPENDENT FILM 5) Registration Approval: Travel Studies Form. Prerequisite:
Acceptance into Los Angeles Film Studies Center. Taught through semester--Iong program of the coolition for Christian Colleges and
Universities in Los Angeles. An introduction to the process of Universities in Los Angeles. An introduction to the process of
producing an independent feature film. Topics include legal strucproducing an independent feature film. Topics include legal strucand budgeting, and an overview of the producer's role in producion, post-production, and distribution, Attention is given to the Christian's unique contribution to producing,
FLM 4943 INTERNSHP ( 9 ) Registration
es Form. Prerequisite: Acceptance into the Los Angales Film Stud es Center. Taught through semester-long program of the Coalitio for Christian Colleges and Universities in Los Angeles. Students participate in an internship experience in some aspect of the etol
ywwood 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 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-produclion personnel, and others involved in the total process of produc ing and distributing a major motion picture. The LAFSC pro

## University Scholars

Janet Leslie Blumberg, Director
The University Scholars Program is an honors program for unusually serious and able students who seek an opportunity to grow intellectually and spiritually in the same company of fellow learners from their freshman through their senior years. These students fulfill their general courses. They are offered challenging readings, intensive

University Scholars Alimited number of high school seniors will be invited to the program at admission, based on grade-point and scores on the SAT and ACT tests. Others may apply (or be recommended by faculty) before or after arrival. Students who are highly motivated for this program or who are specially gifted in one particular field are urged to make a case for admission if they are not invited into the program. are:

University Scholars are exempt from all general education requirements except the foreign languag requirement. Instead, they will enroll in a threequarter 15 credit freshman core sequence called a 10 credit junior-senior capstone sequence in science and faith (GS 3910, 3916, 4910), and other coursework described below. They must also have a
major and will need 180 credits, including 60 credits in courses numbered 3000 or above, for graduation.
2. University Scholars must take 15 credits of Foundations. Honors sections in Introduction to Old Testament and Introduction to New Testament are to be taken by participants. Transfer students may qualify for a modification of this requirement, Requirements.
3. Requirements.
Program must attend adm to the University Scholar Program must attend and receive credit for the autumn quarter of their first year in the progran The President's Symposium provides a chance to meet selected administrators and to inquire, with Christian liberal arts education. A follow-up seminar, the Provost's Symposium (1 cr GS 2115 ) must be taken in the winter quarter of the sophomore year, and provides orientation to the junior/senior coursework in science. These course are graded pass-fail.
. The University Scholars capstone sequence in science and faith begins in the spring of the junior
year ( 4 cr GS 3910 ) involves a summer reading component ( $2 \mathrm{cr}, \mathrm{GS} 3916$ ), and finishes with a senior seminar ( 4 cr , GS 4910 in the autumn. The sequence attempts to transcend traditional course and discipline boundaries and deal with issues, problems and questions of modernity, especially the controversies between science and faith. They are One component of the junior seminar will provide directions for starting the senior honors thesis or project.
5. In preparation for the capstone sequence University Scholars must take at least one quarter of laboratory science (PHY 1101 or 1121 or the
equivalent) prior to the junior honors semina Scholars who have taken the first-year chemistry or biology sequences are exempt from this requirement.
6. University Scholars are required to complete an honors project or paper worth at least 5 credits in subject of his or her choice. The project is to be started in prior to graduation Startup help and quarter prior to graduation. Startup help and junior seminar mentioned above. Projects or papers
that fulfill this requirement must meet certai standards, have an on-campus faculty advisor, and be Completed honors projects are given specia recognition at Commencement.
8. University Scholars are encouraged to gain college course credit through a) advanced placement examination, b) College Level Examination Program (CLEP), and c) examination for currently offered tris courses. Consult the appropriate sections of

- University Scholars must maintain a GPA of 32 better.

10. Students wishing to leave the program at any time should submit a letter of resignation to the director. They will immediately become subject to the genera education requirements. They will not lose credit (e.s. CLEP, challenge, or advanced placement) no those credits earned in honors. (Texts and Contexts I, II, II are transferable into SPU general education categories, as well as to other
universities. See director.)
11. Special servici e to the SPU community should be a
high priority for University Scholars.

Honors at SPU offers a challenging integrative overview o Western civilization and its impact on the Western Church (engaging important works of art and thought), cros disciplinary, and collaborative (engaging students and faculty with one another in an ongoing examination of the Gospel and culture). For additional information contact: Janet Leslie Blumberg, director of The University Scholars, Seattle acific University, Seattle, WA 98119; mailblumberg@spu.edu.

## University Scholars Courses

GS 1111 TEXTS AND CONTEXTS I (5) Examines selected classic cultural artifacts of the ancient period using the perspec tive of the problem of evil, the problem of violence, the tension between reason and revelation, and the tension betwe
vidual and society. Open to University Scholars only vidual and society. Open to: University Scholars only.
GS 1112 TEXTS AND CONTEXTS II (5) Prerequisite: GS 1111. Applies the problematic approach of GS 1111 to seiected works of the Medeval and Renassance peds. Open to: University Scholars only.
GS 1113 TEXTS
112. Continues the problematic approach using selected Modern works. Open to: University Scholars only.
GS 1115 PRESIDENT'S SYMPOSIUM (1) Prerequisite: New dmit to The University Scholars. A forum for orientation to the onors program and to the aims of a Christian "iberal arts educaGreeks:The Gospel and Western Culture" and other works. Open : Universily Scholars only.
I111,1112,1113. Carries the study of classic works into the twentith century and prepares for the science and faith capstone sequence, through discussions of Hannah Arendt's The Human Condition. Provides continuity between Texts \& Contexts and the pen to: Freshmen.
GS 3910 JUNIOR HONORS SEMINAR (4) Begins the juniorsenior capstone sequence: an in-depth exploration of science and
faith. Builds on the cultural and historical overview gained in Texts and Contexts, but focuses on the rise of science using physics as and Contexts, but focuses on the rise of science using physics as
the liberal art most in view-from the Greeks through the Copernican Revolution to contemporary quantum mechanics, chaos
theory, and astrophysics. Open to: University Scholars Only. Clas theory, and astrophysics. Open to: University Scholars Only. Class ot open to: Freshmen.

GS 3916 HONORS READINGS (2) Extends the capstone expe ience with readings of classic works in science and modernity and the integration of science and faith. This course is a requirement
for the University Scholars srogram. Open to: University Scholars only. Course Equivalent: GS 4916 Class not open to: Freshmen.
GS 910 SENIOR HONORS SEMINAR (4) Concludes the capstone sequence on science and faith, employing higher-level capstone sequence ond scaience activities of analysis, synthesis, and evaluation, and culminating in presentation of seminar papers for class discussion and revision. Guest speakers and discussion of honors readings: re also featured. Open to: University Scholars Only. Atribute: GS 4960 HONORS PROJECT (2-5) Registration Approval:


## Women's Studies

## Susan VanZanten Gallagher and Cynthia Price

Coordinators an institution that centers its mission in the historical Christian faith, SPU affirms that women are created in God's mage, redeemed by Christ, and called to lives of scholarship, service, and leadership. Prompted by that tudies minor and welcomes both male and female stur opursue it.
The primary goals of the women's studies minor are (1) establish in the campus community an awareness of the verlooked 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 esources for the further incorporation of women's contributions into all pertinent disciplinary courses.
The women's studies minor provides a course of study
hat stretches across disciplines, encouraging interdisciplimary thought and scholarship. It teaches skills of critical nalysis, problem-solving, and value judgments. Because of s adaptable course requirements and final project, the majors in areas such as sociology, psychology, religion, kistory, 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 college work applicable to the B.A.; and (3) a grade of at tudies Application can be made at either the English the sociology offices.
## Requirements for the Women's Studies <br> Minor

he women's studies minor consists of at least 30 credits, of which 15 must be upper-division. Course requirements hiclude ENG/SOC 2350 (ntroduction to Women's Studies), at least one course from each of four core areas, and a final dependent study that consists of an integrative paper
roject, or internship.
Program Requirements
WST/SOC 2350 Introduction to Women's Studies $\qquad$ .
or 4960 Independent Project $\qquad$

Institutions and Society
Select at least one course from the following ANT 2250 Cultural Anthropology (5) FCS 3875 Clothing and Human Behavior (3) SOC 3215 Social Inequality (5)
SOC 3270 Socialization (5)
SOC 4205 Gender and Social Interactions (3) SOC 4210 Women in the Third World (5)

.. 3-5

## Literature and the Arts

ENect at least one course from the following:
ENG 3234 Literature By Women (5)
ENG 3334 American Ethnic Literature (5)
ENG 3337 Southern Writers (5)
ENG 3338 Contemporary American Fiction (5)
ENG 3351
Victorian Fiction (5)
CS 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)

## eligion and Culture

Select at least one course from the following
REL 3631 Women in Christianity ( 3 )

Note: Not all............................................................ 30 Schedule for current offerings. Information concerning minor is available from the Women's Studies' Coordinators.

## Women's Studies Courses

WST 2350 INTRODUCTION TO WOMEN'S STUDIES (5) retical approaches to gender, and offers an interdisciplinary surve of women's issues relating to such areas as the church, spirituality conomics, health, vocation, social and politicial activity, and literary and arti.
WST 4940 INTERNSHIP (3-5) Registration Approva: Intern earning Contract Req. A final, independent project in Women's tudies that consists of an internship involving some form of writ-
ten reflection and dassessment. proval: Instructor. A final, independent project in Women's Studies hat consists of an individual research project, investigating some
topic in depth and culminating in an integrative paper that demonlopic in depth and culminating in an integrative paper that demon-
strates interdisciplinary scholarship and independent thought.

## Academic Policies and Procedures



## Academic Policies and Procedures <br> Standards of <br> Scholarship

Faculty Advising: Key to Successful Academic Experience
One of the primary lactors 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 fuliilt their educaut the responsibilty of seeking out their faculty advisor for assistance in clarifying goals, exploring areas of interes for assistance in claritying goals, exploring areas on intere
and selecting classes each quarter. While the 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. Students who are undecided about a major are assigned a pre-major faculty exploring areas of interents Students are notified of their advisor assignment prior to the start of classes. Students may request a change in advisor, particularly if they have decided to pursue a major or have developed different Student Academic Services and in school and department offices.

## Advisor Signatures for Registration

o 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. Entering freshman and sophomore tansis are equired to apply for a major and request a major their sophomore year. Transfer students who enter as juniors or seniors are required to apply before they have completed 30 SPU credits. Once a student has been accepted into a major, students are encouraged to continue to meet with their Faculty Advisor on a consistent basis.

## Undergraduate Academic Services

Every student is assigned a counselor in Student Academic ervices wiofution 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 Cademic probation.

Emphasis on Scholarship
Seattle Pacific University seeks to inspire in each of its students a sincere appreciation for genuinely scholarly work 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 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 3.5 or higher grade point average. Students who have earned any of the following grades will not qualify for honors: $\mathrm{E}, \mathrm{NC}$, N or 0 (blank, no grade submitted). However, once the temporary grade of $\mathrm{N}, \mathrm{I}$ or O has been replaced by the gra

## Graduation Honors

 Baccalaureate degrees will be conferred with honors forundergraduate 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.
2. All courses taken at SPU (except ESL 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 degre 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 commencemen quarter for spring quarter graduates. Students who complete degrees during summer quarter are not eligible for recognition until completion of all degree requirements.

> Honor cum laude magna cum laude summa cum laude
Grade Point Average
$3.50-3.74$
$3.75-3.89$
$3.90-4.00$

## The President's Citation

The President's Citation is awarded each year to the graduating senior who has demonstrated distinguished arts program. To be eligible for this award, the student mus have taken all his/her university work at SPU and must have adhered consistently to the ideals of the University. An academic policies committee will make the selection.

## Alpha Kappa Sigma

Undergraduate students who have earned 90 credits at SPU and who are in the top $10 \%$ of the graduating class are eligible for election to the honor society Alpha Kappa Sigma. his honor society has chapters in all the colleges of SPU sponsoring denomination. During their senior year, committee and elected by vote of the faculty.

## Honoraries

The lvy Honorary, a chapter of National Mortarboard, Inc. ects students for membership at the end of their junio year who have distinguished themselves through scholarship, leadership and service. Other SPU honoraries nclude Centurions (men's service honorary), Falconettes (women's service honorary), Order of the S (athletics), igma Beta Delta (business), Pi Kappa Delta (speech), pha Psi (Enelish) and the Servant Scholar of the Year (Student Life).

Who's Who in American Colleges and Universities
Anumber of seniors are elected to Who's Who in American Colleges and Universities each year. This honor is awarde 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. the faculty.

## Academic Integrity

As a part of the Seattle Pacific community, students are expected to exhibit academic integrity The University o constantly strive towards doing their best work. Seattle Pacific does not permit dishonesty, such as cheating,
plagiarism or other academic misconduct. Both the student nd instructor have obligations to report and prevent academic misconduct. In the event academic misconduct is ategrity printed in the Student Handbook will be followe

## The Academic Load

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 "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
ollowing:
$\begin{array}{ll}12-17 \text { credits } & \text { Full-time } \\ 9-11 \text { credits } & \text { Threequarter time } \\ 6-8 \text { credits } & \text { Half-time } \\ 1-5 \text { credits } & \text { Less than half-time }\end{array}$

Permissible Academic Load. The term "academic load" efers to the schedule of studies for which the student is registered. Twelve to 18 credits are considered a regular tudents. 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 summe quarter.
By special permission from the University Registrar, undergraduate and post-baccalaureate students who register for as many as 20 credits. Under no circumstances will any student be allowed to register for more than 20 redits including physical education and all fractional
credits. It should be noted that there is an additional tuition harge for 18 or more credits. Courses taken concurrently y media, correspondence, extension in another institution, and non-credit courses count as part of the academic load

Reduction or Limitation of Load. An undergraduate student's academic load is subject to reduction or limitatio from the University Registrar for low scholarship. academic load in proportion to hours of employment outside of school hours. The following schedule suggests a relationship be
outside work:

| de Work Per Wee | Load Recommended |
| :---: | :---: |
| 14 hours or less | 15-17 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 some extra-curricular activities, students, must maintain a satisfactory cumulative grade point average. Consult the Office of Campus Life for specific requirements.
Specific Intercollegiate Athletic Eligibility. Al student-athletes in an intercollegiate sport must be practice and competition. In addition by the beginning o the student-athlete's second academic year, a cumulative GPA of 2.0 ("C") or higher must be achieved to be eligible or competition. All other NCAA Bylaws regarding eligibility must also be met.

## Academic Probation

An undergraduate student attempting 6 credits or more at Pu will be placed on tirst quarter academic probation whe 200. 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 oward dismissal. The second consecutive quarter the umulative GPA 24 , 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 2.4, the student will be dismissed from the University. he academic dismissal will be noted on the student's academic record

Academic Policie
and Procedures

Students on first-quarter probation are required to meet with their counselor in Student Academic Services develop a contract that outtines goals and appropriate nucess. This meeting must occur before the fifth day of the quarter or their registration will be withdrawn. Students on econdits 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 enroling 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 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

## Academic Schedule

SPU uses a quarter calendar which runs over three quarters (autumn, winter, spring), each consisting of 10 weeks of
 format; 5 credit courses are generally offered in either 50 minute periods 5 days a week or 90 minute periods 3 days a 10 minutes between periods and a chapel assembly is scheduled two mornings a week at $10 \mathrm{a} . \mathrm{m}$. on Tuesday and Thursday. 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. For more information on evening, weekend, summer and distaue laning courses, see page 53.

## Grading System

## Grades and Point

Except in cases of clerical error, no instructor may change grade which he/she has submitted to Student Academic is recognized by a letter mark or grade which 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 giv the student 20 grade points. These points express the quality of a students pering 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/she received a regular grade during the same period. For example, if a student earns 45 15 credits, his/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 but 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) |
| 1 |  | Incomplete |
| N |  | In Progress |
| G |  | Graduate In Progress |
| W |  | Withdrawa with official approv |

## Use of I, N, G, W Grade

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 on 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 "" grade as well as its removal.
The " $N$ " grade is used only in specified courses in whic "fina" "rade is deped ont in spen addified courses in whitk The " N grade indicates that work is satisfactory to date, but carrie 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.

The " $G$ " grade is used only in specified courses in whic a "final" grade is dependent upon additional work and only applies to approved 6000 level courses which includes internships, theses, and projects. Work must be completed Forms authorizing the removal of " $G$ " grades may be
obtained in Student Academic Services.
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 raduate courses. Please see specific graduate program anletins for additional information. Students may chang period which is published in the University Calendar. For more information see Auditors section

Pass/No Credit Option

1. A "P" "grade in this option must be at least equivalent
2. Students may elect the P/NC option for the number of courses specified in the schedule below to apply toward a bay
Classification at entrance
Freshman - 30 credits
Sophomore -20 credit
Sophomore - 20 credit
Junior -15 credits
Senior - 5 credits
3. No more than one course per quarter; no courses in major; no foundations courses; no courses in general education, University Seminar, University Foundations, University Core.
4. 6000 level courses may not be taken for PNC credit, with the exception of thesis, dissertation, research, and projects,
the schools.
For hose students who transfer to SPU, no "Pass" credits will be accepted for major or general education requirements (except within the College
P/NC form must be on file in Student Academ P/NC form must be on file in Student Ac
Services by the loth day of the quarter.

## Repeat/Substitute Courses

Students may repeat any course for the purpose of changing grade. Courses noted as being "equivalent" may be
substituted for one another. The latest grade received course will apply to both the GPA for graduation and for honors at graduation. The credits earned in the repeated course will be removed from the credits earned, however, he original grade will remain as a permanent part of the record. A symbol will be placed next to the earlier grade GPA Only courses taken at SPLi will be used to change course grades.

## Student Transportation Policy

Academic courses usually do not require the transportation of SPU students from campus to another location unless so tated in the course sylabi. If the course or event is to be convened at the remote location, students will be required 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 no
responsible for transportation of students to non-academic activities, whether such activities occur on or off campus. such activities. If activities. 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 writing by the Vice President for Business and

## Registration and Records Policies and Procedures

## Registration on the Web

Seattle Pacific University offers undergraduate, post baccalaureate, graduate, doctoral and non-matriculated students the opportunity to register for classes on the SPU Homepage on the World Wide Web. Registration for the ends on the 5th day of the quarter at $5: 00$ p.m. Once Web registration has ended, students must come to Student Academic Services in DH 151, mail or fax in their registration orms to withdraw from classes.
Registration for internships, independent study and travel study courses must be processed in Student Web. Students must come to Student Academic Services in DH 151, mail or fax in their registration forms to register for these classes.

## Changes in Registration

While choices made during the registration period are considered permanent, changes are permitted through the first week of each quarter. The deadline for adding courses is the fiith day of the quarter. The deadline for withdrawing for these registration deadlines are printed in the University Calendar located at the front of the Catalog and Time Schedule. Changes must be submitted to Student Academic Services on the Add/Drop Form after Web registration ends on the 5 th day at $5: 00$ p.m.

## Adding Classes and Late Registration

 Students are permitted to change their registration as long as the change is submitted by the fiith 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 adhere to this deadline. Any class additions after this date will be considered a late registration and subject to a $\$ 20$ fee; these are handled via, a registration petition.
An exception to registration policy may be considered by will need the instructor's written consent to accept the student as a late registrant and Student Academic Services receives a typed petition from the student explaining the extenuating circumstances. The student must seek permission from the instructor to sit in the class while the petition is pending. Extenuating circumstances inc mmigration. In all cases, the final decision to ap deny a late registration will be made by Student Academic Services. Each approved late course addition will incur a $\$ 2$ Late Registration Fee.

Waitlisting Closed Classes
Students have the option of waitisting any undergraduate classes that are closed. As space becomes available in closed classes, waitisted students will be registered on a first come basis. Students may waitlist only two classes pe quarter. Students will be no class(es) creates a time conflict or exceeds the maxi credit load for the student, it will not be added to the student's schedule, and the student will be dropped fou the waitlist. Waitlist forms may be obtained from Student Academic Services, or students may waitlist a class via the World Wide Web. This form outlines the process students need to follow to waitlist a class

The waitlist program is effective through $4: 30 \mathrm{p} . \mathrm{m}$. on the time. Instructors will be unable to raise the maximum enrollment on a course after the second day of the quarter. Refer to the University calendar for these dates.

Students may choose to withdraw from a waitlisted course by filling out an Add/Drop form in Student Academic or may drop via the web
second day of the quarter nor may a with a waitlist after the maximum enrollment on the course after this date.

## 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. Refunds and adjustments to the 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 their registration and related charges. The date thi notice is received by Student Academic Services wil determine the amount of refund where applicable. If the not be orter ading the instructor may contact Student Academic Services and request that the student be administratively withdrawn from the course.
If a student fails to notify Student Academic Services, by the end of the sixth week of the quarter, to be withdrawn from their course the instructor will issue a failing grade for the student.

## Withdrawal from Classes

Official withdrawal during the first and second week of the quarter will not reflect any record of the class on the nscript. Official withdrawal during weeks three throug six will result in a "W" appearing on the transcript. 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.
of the sixth week of the quarter, but stops attending the course, the instructor will issue a failing grade for the student.

## Changes in Personal Information

It is the student's responsibility to notify the University of any changes to their permanent or mailing addresses. Thi will enable the University to forward quarterly grade reports, student account statements, and quarterly
registration materials to students. Change of Address

Forms are available in the following offices: Student Academic Serve Residence Life

Students who wish to change their name (e.g., due to change in marital status) or stadent idenification number, documentation for the change (e.g, copy of marriage license, copy of social security card).

## Credit By Examination

Currently enrolled matriculated students may take special examinations in approved academic subject matter offere by SPU to gain credit without being enrolled in specific courses. The procedures for obtaining permission and fili Services. The following limitations pertain to credit by examination:

1. A student may receive credit by examination for any coursework which has been completed following high school graduation for which he/she has no formal record.
2. A student may be tutored by a private instructor and
3. A student may not take credit by examination
course in which he/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 xxaminations, Advanced Placement (AP) and Colleg Proficiency Examination Program (PEP), none 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 tha
A student may not repeat an examination for credit
A student may not receive credit by examination for lower-division courses in the student's native
language, if that language is other than English.
A student is entitled to only one consultation with the professor administering the test.
A student must pay for ats special exam fees prior to scheduling and taking the exam.

## Graduation

Graduation application forms for undergraduate or second accalaureate degrees are available in Student Academi Services. Students are expected to apply for graduatio during Academic April of their Junior year (when aproximately 120 credits have been earned). Graduation application deadlines are

| Intending to Graduate |  |
| :--- | :--- |
| Spring/Summer Deadline <br> September 1  <br> Autumn March 1 <br> Winter June 1 |  |

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

Student Class Status - Definition
Matriculated students are classified at the beginning of each quarter according to the following designations (note undergraduate, post-baccalaureate and graduate definitions assume that students have been admitted to the University)

## Undergraduate Student

Freshmen - Students having less than 45 earned credits; ncludes SPU and transfer work accepted
Sophomores - stadents having 45-89 earned credits; includes
uniors - Students having 90-134
uniors - transfer work accepted. earned credits; includes
Seniors - Students having at least 135 earned credits; includes SPU and transfer work accepted. (Senior status does not necessarily insure graduation with that class.)
Post-Baccalaureate Students - Students who have received the baccalaureate degree and are seeking a second achelor's degree or initial teacher certification. Admission to this classification is by application only.
Graduate Students - Master's or doctoral candidates. dmission to this classification is by application only

## Student Enrollment - Definitions

Matriculated Students - Students who have fully met all he requirements for admission and have registered for the graduate or doctoral students). A limited number of tudents who do not meet al the admission requiremen 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 ese sudens work closely win a special advisor and o the academic expectations of SPU
Non-Matriculated Students - Students who are not seeking a degree and are allowed to attend SPU without submitting the credentials required for admission with egular status. The maximum credit load per quarter is 20 redits. No more than 45 credits taken as a
te degree and no more than 15 such credits undergraduto a post-baccalaureate degree, nor can more than 9 such credits apply toward a graduate degree. A later decision to ork on a degree or certificate program will necessitate frmal application and admission to the University as matriculated student.
Auditors - Persons who wish to attend classes but who do ot desire credit. With approval from the instructo undergraduate courses, and most 6000 -level courses. tudents may change from audit to credit or vise versa uring the quarterly add period which is published in the University Calendar. If they do daily assignments, the instructor is under no obligation to read or correct them tudents who are unable to remain at the University for admission may not register as auditors. A student may receive credit for an audited course only by enrolling in it as regular student in a subsequent quarter. Tuition rates for uditors will be equal to the tuition credit rate.

Transcripts
fficial transcripts are released only on writte authorization of the student whose records are requested. he. University reserves the right to deny official transcrip services for indebtedness to the institution. Each official transcript contains the student's entire record while at SPU nay view an unofficial copy of their transcript over the SPU Homepage on the World Wide Web. If the student has an account, official transcripts are released only if the account is paid in full. A $\$ 3.00$ fee for each official transcript is charged. Students may request an unofficial copy of thei ranscript at no charge.
Tray wile the tudent's entire academic ork and CEU's 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 fter final grades have been submitted and recorded.
To receive a copy of the transcript, students must send written request to Student Academic Services. The letter ecurity number the last quarter and year the student ttended; if student is enrolled in a current quarter o instruction and the number of classes enrolled in for that uarter; destination; 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 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 or resending a transcript for any reason other than
University error.
Under unusual circumstances, students may find that they require an official copy of their transcript. When this
occurs, the student will need to either come to Student ccademic Services, mail in or fax the request. A $\$ 25.00$ same day service fee will be charged for immediate transcripts.

## Academic Policie



## The Faculty

Martin L. Abbott, Professor of Sociology; Dean, College of
Arts and Sciences; B.S., Portland State University 1974; M. A. Arts and Sciences; B.S., Portland State University, 1974; M.A.,
Pepperdine University, $1976 ;$ Ph.D., Portland State University, Pepperdine University,
1984. At SPU since 1985 .
Miriam Adeney, Associate Professor of Missions and Cross-Cultural Communications B.A., Wheaton College, 1967; M.A., Syracruse University, 1969; Ph.D., Washington State
University 1980. At SPU since 1976. (Continuing part-time.) University, 1980. At SPU since 1976. (Continuing part-time.)
Donna J. Allis, Assistant Professor of Nursing: B.S.N. Donna J. Allis, Assistant Professor of Nursing; B.S.N.,
University of Arizona, 1976; M.S., Indiana University, 1983 ; University of Arizona, 1976; M.S., Indiana University, 198
Ph.D., University of Arizona, 1992. At SPU since 1988. Ph.D., University of Arizo
(Continuing part-time.)
Thomas Amorose, Associate Professor of English, B.A., The Ohio State University, 1972; Ph.D., University of Washington, 1978. At SPU since 1996.
David Anderson, Assistant Professor of Choral Music; B.A., Whitworth Coilege, 1981; M.Mus., University of Oregon, 1987; D.M.A. (abd), University of Oregon. At SPU since 1992 . JoAnn Atwell-Scrivner, Instructor of Physical Education; 1990. At SPU since 1986.

Judee Axelson, Director of Education Professional
Development; B.S., Oregon State University, 1965 ; M.S.T, Development; B.S., Oregon State University, 1965; M.S.T.,
Portland State University, 1969; Ed.D., 1988.At SPU since Robert Baah, Associate Professor of Spanish; B.A., University of Ghana, 1982; M.A., University of Alberta; Ph.D., Roy Barsness, Professor of Graduote Psychology: Director Training and Clinical Services; B.S. Minot State University, 1975; M.A. Fuller Seminary, 1981; Ph.D. California School of

Professional Psychology, Los Angeles, 1988. At SPU since 1990 Kathryn M. Bartholomew, Associate Professor of Foreign Languages and Linguistics; B.A., University of Washington,
1969; M.A., 1970; Ph.D., 1979. At SPU since 1989. 1969; M.A., 1970; Ph.D., 1979. At SPU since 1989.
Edward J. Bauman, Director and Professor of Engineering; Astronautics, Massachusetts Institute of Technology, 1960; Ph.D., U.C.L.A., 1966. At SPU since 1985.
Janet Blumberg, Professor of English; Director, The University Scholars; B.A., University of Washington, 1968; Kevin W. Bolding Assistant Professor of Endineering. BA Kevin W. Bolding, Assistant Professor of Engineering; B.A.,
Rice University 1988 ; M.S., University of Washington, 1991; Ph.D., 1993. At SPU since 1995 .
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. Kathleen Braden, Professor of Geography; B.A., Boston University, 1972 ; M.A.,
David C. Brooks, Professor of Mathematics; B. S., Seattle Pacific College, 1958; M.S., University of Washington, 1960; Ph.D., 1978. At SPU since 1967.
Nathan Brown Chair and Associate Professor of Graduate Psychology; Clinical and Counseling Psychologist. B.A.,
University of Maryland 1977; M. Fuller Theological University of Maryiand, 1977; M.A. Fuller Theological
Seminary, 1984; Ph.D., Fuller Graduate School of Psycholog Seminary, 1985 . At SPU since 1994 .
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. David Caddell, Assistant Professor of Sociology; B.A., California Baptist College, 1986; M.A., California State-
Fullerton, 1989; Ph.D., Purdue University, 1992. At SPU since 1994.

Michael Caldwell, Professor of Art; B.S., University of Oregon, 1968; M.FA., 1970. At SPU since 1970. Grayson Capp, Professor of Chemistry; B.S., Seattle Paci College, 1958; M.S., University of Oregon, 1961 ; Ph.D., 1966 , National ins 196e-68 At SPU since 1968 Myrna Capp, Assistant Professor of Music; B.A., Seattle Pacific College, 1959; M.A., University of Washington, 1977 At SPU since 1968. (Continuing part-time.)
Robert Chamberlain, Professor of Communication; B.A Cascade College, 1961; M.S., University of Oregon, 1967; Ph.D., 1972. At SPU since 1978.
James L. Chapman, Associate Professor of Theatre; B.A.
Cascade College, 1960; Doctoral Candidate University of Oregon, 1973. At SPU part-time 1961-62. full-time since 190 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.
James H. Crichton, Professor of Physics and Engineering
Science; B.S., Seattle Pacific College, 1959: Ph D Universiy of Science; B.S., Seattle Pacific College, 1959; Ph.D., University of
California, 1965; National Science Foundation Facully Fellow University of Washington, 1971-72. At SPU since 1965 . Denise Daniels, Assistant Professor of Management; B Wheaton College, 1991; Ph.D., University of Washington, 1997. At SPU since 1996.
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
Kerry Dearborn, Assistant Professor of Theology; B.A 1988; Ph.D., University of Aberdeen, U.K., 1994. At SPU sinc 1994.

Jonathan C. Deming, Associate Professor of Economics; B.A., Whitman College, 1971; M.A., University of Oregon 197 Ph.D., 1979. At SPU since 1977.
James Denman, Lecturer in Music; B.Mus., San Francisco University of Washington. At SPU since 1993. (abd) David A. Diekema, Assistant Professor of Sociology; B.A Calvin College, 1982 ; M.A., University of WisconsinMilwaukee, 1985; Ph.D., University of lowa, 1990. At SPU
since 1992. since 1992.
Douglas A. Downing, Associate Professor of Economics, B.S., Yale
since 1983.

Robert R. Drovdahl, 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 Durasoff, Professor of Political Science; B.A.,
Michigan State University, 1966; M.Phil., Yale University, 1969;
Phili, 1978 . At SPU since 1986.
M.A., Arizona State Unident; B.A., Whitworth College, 1965; 1993.

Arthur Ellis, Professor of Education; B.S., Oregon College, 1962; M.S., 1965; Ed.D., University of Oregon, 1968. At SPU since 1986 .
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 .
Joyce Q. Erickson, Professor of English; Director of Freshman Year and Faculty Advising; B.A, North Central College, 1965; M.A., University of Washington, 1966; Ph.D
1970. At SPU 1969-83 and since 1992 1970. At SPU 1969-83 and since 1992. Alberto Ferreiro, Professor of History; B.A., University of California, Santa Barbara, 1986. At SPU since 1986.

Gary R. Fick, Professor and Library Specialist for Natural
sciences; B.A., State University of New York-Buffalo, 1971; Sciences, B.A., M.L.L., 1974; M.A., University of Washington, 1983. A. SPPU since 1974

Cynthia Fitch, Assistant Professor of Biology; B.S McMurry College, 1985; Ph.D., Iowa State University, 1990; Howard Hughes Medical nstitute post-doctoral fellow, University of Washington, Medore; Research Scientist,
University of Washington Medical School, $1993-94$. At SPU since 1994.
Jeffrey T. Fouts, Professor of Education; B.S., Oklahoma Chirstian College, 1971; M.A., Pepperdine University, 1973; M.S., Portland State University 1979: EdD 1983. At SPU since
1984.
Randa
kandal S. Franz, Assistant Professor of Management; B.A California State University-Sacramento, 1982; M.A., 1985; AM. Stanford University, 1988; Ph.D., 1991. At SPU since 199 University of Washington, 1966; M.N., 1972; Ph.D., Oregon tealth Sciences, 1994. R.N. At SPU since 1969 .
Susan VanZanten Gallagher, Professor of English; B.A. 1982. At SPU since 1993.

Fan Mayhall Gates, Associate Professor of English; B.A. Baylor University, 1956; M.A., Mississippi State University, 1963. At SPU since 1963

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Phillip N. Goggans, Assistant Profer
B.A., Asbury College, 1985; M.A., University of Kentucky, 1988; Ph.D., Syracuse University, 1993. At SPU since 1993.
Robert E. Grams, Assistant Professor of Physical
Education; B.A., Washington State University, 1975; M.S. University of Arizona, 1976. At SPU since 1976. Jennifer Graves, Assistant Professor of Nursing; B.S.,
University of Portland, 1987; M.S., 1992. AtSPU since 1992. Loren T. Gustafson, Assistant Professor of Managem B.A., Seattle Pacific University, 1983; M.B.A., San Diego State University, 1987; Ph.D., Arizona State University, 1995. At SPU ince 1995
Evette Hackman, Assistant Professor of Family Consumer ciences; B.S., University of Nebraska, 1964; M.S. University of Kansas 1966; Ph.D., University of Washington, 1980. At SPU since 1991.
Patricia A. Hammill, Associate Professor of Education; B.A., University of Washington, 1969; M.Ed., 1974; Ph.D. 1987. At SPU since 1988.
Eric Hanson, Professor of Music; B.M.E., Wheaton College, 971; M.M., Colorado State University, 1974; D.M.A.,
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University of Washington, 1986. At SPU since 1979.
Sandra C. Hartie, Assistant Professor of Family Consumer
Sandra C. Hartje, Assistant Professor of Family Consumer
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Education; B.S., Seattle Pacific College, 1964; M.Ed., 1975. At PU since 1969.
Dan W. Hess, Professor of Finance; B.A, Wheaton College, 1971; M.B.B.A., University of Washington, 1975; Ph.D.,
niversity of Arizona, 1982. At SPU since 1977.
Alexander D. Hill, Associate Professor of Business Law/ Business Ethics; Dean, School of Business and Economics, B.A, Seattle Pacific College, 1975; J.D., University of Washington, 1980; M.A., Seattle Pacific University, 1993. At PU since 1985.
Grant M. Hill, Associate Professor of Physical Education .1.A., 10 orthwest College, 1973; B.A., Seattle Pacific College,
I97; M.Ed., 1980; Ph.D., University of Iowa 1987. At SPU since 1989 .

Emily A. Hitchens, Professor of Nursing: Associate Dean, shool of Health Sciences; B.S.N., University of Washington, 1965; M.N., 1967; Ed.D., Seattle University, 1988. At SPU since
1999. 979.
amona Holmes, Assistant Professor of Music Education; .S., Portland State University, 1974; MA.T., University of onald C. Hols. College, 1970; Ph.D., Northwestern University, 1979. At SPU ince 1990.
Daniel Howard-Snyder, Assistant Professor of
Philosophy; B.A., Seattle Pacific University, 1983; Ph.D.,
yracuse University, 1993. At SPU since 1992.
Ensineering 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 .
Barbara S. Innes, Associate Professor of Nursing; B.S.N., University of Washington, 1963; M.S., University of California, an Francisco, 19 ince 1976
A. Westmont Coll Associate Professor of Mathematics; B.A., Westmont College,
1982. At SPU since 1982 .

Wayne D. Johnson, Professor of Music; B.A., Bob Jones University, 1969; M.M., University of Cincinnati, 1975. D.M.A., 886. At SPU since 1977

Jeffrey A. Joireman, Assistant Professor of Psychology; B.A., Eastern Washington University, 1987; M.A., U
Delaware, 1993; Ph.D., 1996. At SPU since 1996.

Gary L. Karns, Associate Professor of Marketing; MBA/ISM Graduate Director, B.A, University of Oklahoma, 1976; M.B.A. 1977; Ph.D., University of Washington, 1987. Extensive consulting experience in association with the Small
Business Administration; specializes in market research and Business Administration; specializes in market re eneral marketing problems. At SPU since 1979. ciences; B.A., Seattle Pacific University, 1984; M.A., Michigan State University, 1986; Ed.D., Seattle University, 1992. At SPU since 1986 .
Lucille M. Kelley, Associate Professor of Nursing; Director RNB Program; B.S.N., University of Connecticut, 1969 ; M.N., Unive
since 1985.

Elletta A. Kennison Assistant Professor of Education B.A., University of Washington, 1972; M.Ed., 1978; Ed.D, 1991. SPU since 1974.
Ralph Kester, Dean of Continuing Studies, Professor of ducation; B.S., Seattle Pacific College, 1961; M.S., Indiana University, 1968; Ed.D., 1973. At SPU since 1986.
Herbert E. Kierulff Professoro
ship; B.A., Stanford University, 1959; M.B.A. University of Southern California, 1964; D.B.A., 1967. Extensive consulting experience in management, economics, and finance for mall and large business. At SPU since 1980 . Russ Killingsworth, Instructor of Mathematics; 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; Chair of
Elementary Education; B.S., Greenville College, 1978; M. Ed., Wichita State University, 1981; Ph.D., University of Kansas, 1989. At SPU since 1996.

Kenneth E. Knight, Professor of Management; B.S., Yale University, 1959; M.S., Carnegie-Mellon University, 1961; Ph.D., 1963 . At SPU since 1989.
Bob Jones University, 1972; M.A. 1974- Ph D Theatre; B.A., 1983. At SPU since 1990 .
inda Westbrook, Assistant Professor of Nursing; B.S.N., nversity of Missourt, 19 ; M.N., Siversty of Washington 882; Ph. D., I 994 . St SPU since 1996
ernon Wicker, Professor of Music; B.M., Biola College, 964; D.M.A. University of Oregon, 1979. At SPU since 1979 David Wicks, Assistant Professor, Instructional Design Specialist and Coordinator for Technology and Learning: B.S., Missouri State College, 1986; M.S. Northwest Missouri State niversity, 1990. At SPU since 1998.
Wanda A. Williams, Assistant Professor of Policy, 1964; M.A., 1969; Ph.D., University of Washington, 1989. At SPU since 1992. (Part-time.)
Kenman L. Wong, Associate Professor of Business Ethics, .S., Biola University, 1986; M.B.A. University of Washingto 987; Ph.D., University of Southern California, 1996. At SPU ince 1997 .
ick A. Wood, Professor of Mathematics and Computer science, B.S., California State College at Long Beach, 1961 $5,1968-79$, and since 1984.
William H. Woodward, Professor of History; A.B., Wheaton college, 1969; M.A., Ph.D., Georgetown University, 1974. At PU since 1974
Martha L. Worcester, Associate Professor of Nursing B.S.N., California State University, Chico, 1962; M.S. University of Washington, 1990. At SPU since 1989. Donald P. Yanik, Professor of Theatre; B.S., Anderson College, 1964; M.Ed., University of Nebraska, 1970; M.FA. Southern Methodist University, 1981. Fulbright Scholar, aiwan, 1994-95. At SPU since 198
Sharon Young, Associate Professor of Mathematics; B.A., 1976; Ph.D., University of Colorado-Boulder, 1979. At SPU since 1995.
Daisy Zhang, Assistant Professor of Chemistry; B.S., Calvin College, 1989; Ph.D.,University of Chicago, 1993. At SPU since 998.

Michael Ziemann, Associate Professor of European studies/German and Linguistics; B.A., Freie Universitat, University, 1969; Ph.D., Washington University (St. Louis), 1974. At SPU since 1982.

## Part-time Lecturers

Dan Adams, Music; B.M.E., University of Idaho, 1974; M.Mus., University of Washington, 1980. At sPU since 1988. Eva Aw, Chemistry, B.S., Tam Kang University, 1981; M.S. niversity of Washington, 1988. At SPU since 1998. Uiversity 1983. JD University of California-Davis, 1989 SPU since 1996 .
Ronald G. Brown, Business Law; B.A., B.J., University of Missouri, 1971; M.A., University of Washington, 1975; J.D., 1978. At SPU since 1996

Rodger Burnett, Music; B.Mus., Illinois State University, 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. Raymond Davis, Music; B.M., Juilliard School of Music, 59. At SPU since 1986.
aniel M. Eernissee, Business Ethics; B.A., Univeristy of 1992.
lany Feld, M.si, B.A. State 1092 lony Brook, 1980. At SPU since 1992 har Forsiund, Christian Education; B.A., Seattle Pacifi lege, 1964. At SPU since 199.
保 19. At SPU since 1994. BA. Seattle Pacific University 19 Ronald Haight, A
Ernest Hughes, Information Systems Management; B.S al-Polytechnic State University, 1977; M.B.A., California tate College at Bakersfield. At SPU since 1983
iane Johnson, Music; B.A., Bob Jones University, 1970; M.Mus., University of Cincinnati, 1977. At SPU since 197 University, 1983; M.M., 1985. At SPU since 1994.
John E. Lastelic, Physics and Engineering; B.S., Universit of Kansas, 1965; M.S., University of LaVerne, 1978. At SPU since 1994
rik Little, Engineering; B.S.E.E., Seattle Pacific Universi 992; M.S.E.E., University of Washington, 1995. At SPU since

Bradley R. Marshall, Business Law; B.A., University of Washington, 1980. J.D. 1984, At SPU since 1998.
oy Namtredt, Math; B.S., Seattle Pacific University, 199| S., Western Washington University, 1996. At SPU since 1996.

Kristine M. Anderson Ostrem, Religion; B.A uhlenberg College; M.A. Yale Divinity School, 1985. At SPU le, Electrical Engineering; B.S., University of California 1968; M.S., University of California, 1970. At SPU ince 1989.
Melanie Plaza-Bunselmeyer, Nursing; B.S.N., St. Paul ollege of Manila, 1969; M.Ed., Columbia University, 1974. Parbara Endic
Management: B.A. University of Pittsburgh 19967, M. BA University of Washington, 1985; M.S. Seattle Pacific University, 1987. At SPU since 1989
John F. Rapp, Business Law and Ethics; B.A. Northwest Nazarene College, 1980; M.A., J.D., University of Washington 84. At SPU since

Runderan University, 1976; M.Div. Fuller Theological eminary, 1987; D. Min., Fuller Theological Seminary, 1994. At SPU since 1992.
sichard Skerlong, Music; B.Mus., Oberlin, 1953; M.Mus., Eastman School of Music, University of Rochester, 1956. At SPU since 1971.
ichard Sleight, Computer Applications, B.A., University 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.
Rae Terpenning, Music; B.M., New England Conservatory of Music, 1965; M.Mus., 1967. At SPU since 1974.
ernon Westburg, Engineern, B. B.E.L.,., Purdue, 194
Karen S. Winslow, Biblical Studies' BA. Seattle Pacific College, 1974; M.A.R., Asbury Theological Seminary, 1976. A SPU since 1987.

## Affiliate Facult

Phil Smart Sr., Chairman of the Board, Phil Smart Mercedes-Benz. Outstanding leadership in the communit, Over 25 years serving as a volunteer at Children's several other volunter community organizations.

Emerit
Arthur Leon Arksey, English; B.A., Greenville College, Arthur L.A. University of Illinois, 1952. At SPU 1959-92. Emeritus since 1992.
Wayne H. Balch, Music; Director of Music 1966-1977, Director of Registration and Records; B.A., Wheaton College 1966-85. Emeritus since 1985.
R. Reed Boyce, Urban and Regional Studies; B.S. Rniversity of Utah, 1956; M.S., 1957; Ph.D., University of Washington, 1961. At SPU 1976-97. Emeritus since 199 Gustave Breitenbach, German; B.A., Seattle Pacific College, 1941; M.A., University of Washington, 1942 ; 1965. At SPU part-time 1959-61: full-time 1961-81. Emerity, since 1981.
June (Dilworth) Brown, Education; Director of Media and Inservice Programming; B.A., Aurora College, 1946 M.Ed., University of Washington, 1968 . At SPU 1976-85. Emerita since 1985.
anet B. Buck, Mathematics; B.S., Seattle Pacific College, 955. At SPU 1957-96. Emerita since 1996 .

University of Washington, 1955. At SPU 1955-74. Emerita since 1974.
C.Y. Jesse Chiang, Political Science; B.A, St. John's University 1944; M.A., University of Washington, 1951; Ph.D., 958. At SPU 1964-86. Emeritus since 1986.
ordon E. Cochrane, Sociology; B.A., Seattle Pacifi Coliege, I950; M.A., 1957 ; Ph.D., U niversity of Southern oseph L. Davis, Biblical Studies; B.A., Seattle Pacific coliege, 1941; S.T.B., New York Theological Seminary, 1944 h.M., Union Theological Seminary in Virginia, 1961; Th.D., 1966. At SPU part-time, 1947-49; full-time, 1950-81. Emeritus since 198

Mevin Foreman, Sociology; B.A., Seattle Pacific M.A., University of Washington, 1955; Ph.D., 1957. At SPU 1948-52 and 1953-85. Emeritus since 1985.
Lester H. Groom, Music; B.Mus., Wheaton College, 195 Mus.M., Northwestern University, 1952; A.A.G.O., 1954. At PU 1968-92. Emeritus since 1991
Coy F. Hammersla, Psychology; B.A, Seattle Pacific 174. At SPU 1981-96. Emerita since 1996 1962 ; Ph.D William Hansen, Dean, School of Humanities
Communication; B.A., Seattle Pacific College, 1956; M.A. University of Washington, 1963; Ph.D., University of Oregon, 1972. At SPU part-time 1958-60; full-time 1960-88. Emeritu nce 1988.
Shirley Harlow, Nursing: B.A., University of Oregon, 1948; merita since 1988 .
Daniel L. Harris, Business Management; B.A, Westmont College, 1963 ; M.B.A., University of California at Los Angeles, Chester A. Hausken Statistics and Rus since 1990. hester A. Hausken, Statistics and Research; B.A., St. 956; Ed.D., 1963. At SPU 1982-97. Emeritus since 1997. Maxine Haynes, Nursing; B.A., University of Washing 941; M.S., University of California at Los Angeles, 1959. At PU 1976-81. Emerita since 1981
. Walter Helsel, Biblical Studies and Church History; , , eatue Pacinic College, 1939 ; S.T.B., New York Theological PU 1942-48 and 1949-80. Emeritus since 1980 .

Walter H. Johnson, Philosophy and Religion; B.A., Greenville College, 1940; B.D., McCormick Theologica Seminary, 1943; Th.D., Northern Baptist Theological Seminary, 1947. At SPU 1964-80. Emeritus since 1980.
Donald D. Kerlee, Physics and Computer Science; B.S Donald D. Kerlee, Physics and Computer Science; B.S.
Seatte Pacific College, 1951 ; Ph.D., University of Washington, 1956. At SPU 1956-69 and 1974-90. Emeritus since 1990
Harriett N. Kovacevich, Education; B.A, Whitman College, 1955; M.Ed., Seattle Pacific University, 1979. At SPU 966-96. Emerita since 1996.
O. Karl Krienke, Jr., Mathematics, Physics and Computer Science; B.A., Seattle Pacitic College, 1953; M.A., 1955;
M.S. (Physics). University of Washingon Astronomy), 1969; Ph.D., 1973. At SPU part-time 1953-56; full-time 1956-97. Emeritus since 1997
William L. Lane, Professor of Biblical Studies; Paul $T$ Walls Chair in Wesleyan and Biblical Studies; B.A., Wesleyan University, 1952; B.D., Gordon Divinity School, 1955; M.Th., Westminster Theological Seminary, 1956; Th.D., Harvard University, 1962. At SPU since 1989. Emeritus since 1998. M.A., University of Washington, 1966 . At SPU 1966 -92. Emeritus since 1993.
Vivian M. Larson, Education; B.A, Bethany Penial College, 931; M.A., University of Iowa, 1938. At SPU 1940-77. Emerita ince 1973.
ack Lattin, Accounting; B.A., University of Washington, 947. At SPU 1977-86. Emeritus since 1986. Linguistics; B.A., Seattle Pacific College, 1956; B.D., Asbury Theological Seminary, 1958; Ph.D., University of Washington, 972; IREX Scholar at Moscow State University, Russia, 1975. At SPU 1962-66 and 1969-97. Emeritus since 1997. Winifred J. Leighton, Music and Education; B.M.,
University of Washington, 1932; M.A., 1939. At SPU $1947-76$. Emerita since 1976 .
Wesley E. Lingren, Professor of Chemistry. B. S, Seattle Pacific College, 1952; M.S., University of Washington, 1954; Ph.D., 1962; National Science Foundation Science Faculty ellow, Yale University, 1967-68. At SPU part-time 1961-62; ll-time since 1958. Emeritus since 1998
tanley D. Luke, Mathematics; B.A., Gordon College Rawalpindi, 1947; M.A., Forman Christian College, Lahore, 1949 Pittsburg, 1968. At SPU 1982-93. Emeritus since 1993. Marcile C. Mack, Music; Dean, School of Fine and 1942:Mus M 1946 At SPU 1955., Cleveland Institute of Music 1942; Mus.M., 1946. At SPU 1955-90. Emerita since 1990. Curis A. Martin, Education; President; B.A.Ed., Seattle 1958: MA University of Washington 19653: PhDeminary, SPU 1964-70 and 1972-94. Emeritus since 1994 George E. McDonough, English; Director, Learning Resources; B.A., University of California, 1949; M.A, Johns Hopkins University, 1950; M.Libr., University of Washington, 1963. At SPU 1962-65, 1968-71 and 1973-88. Emeritus since 1988. Donald McNichols, English and Religion; B.A., Los California, 1947; M.A., 1950; Graduate Research Hunthington Library, 1949-50, 1966. At SPU 1955-80. Emeritus since 1980. Lloyd J. Montzingo, Mathematics; B.A., Houghton Coilege 1949; M.A. State University of New York at Buffalo, 1951; Ph.D., 1961. At SPU 1962-92. Emeritus since 1992 Hugh Nutley, Electrical Engineering; B.S., Massachusetts 1960; B.A. (English), 1973: M.A. English) 1974:M M (Chenica Engineering), 1976. At SPU 1966-97. Emeritus since 1997. State University, 1968; Ph.D., University of Washington, 1977
At SPU 1981-95. Emeritus since 1995 . William D. Rearick, Professor of En Theatre; Director of Centennial Celebrations; University Registrar, Dean of Continuing Studies; Vice President for Academic Affairs; B.A., Greenville College, 1948; M.A., Los Angeles State College, 1958: Ed.D., University of Washington,
1969. At SPU 1957-92. Emeritus since 1991. 1969. At SPU 1957-92. Emeritus since 1991. Carl H. Reed, Music; Dean, School of Fine and Performing University of Washington, 1956; Ph.D., 1966. At SPU 1957-92 Emeritus since 1991 .
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 Theoological Seminary, 1943. AtSPU 1934; M.R.E., New York Theological Seminary, 1943. At SPU
1960-78. Emerita since 1978. Rose Reynoldson, English; B.A., University of Washingto
1971; M.A., 1974. At SPU 1977-93. Emerita since 1993. 1971; M.A., 1974. At SPU 1977-93. Emerita since 1993. Clifford E. Roloff, History; B.A., Seattle Pacific College,
1931; M.A., University of Washhington, 1932. At SPU 1944-74. 1931; M.A.. University
Emeritus since 1974.
Emeritus since 1974.
William A. Rosenberger, Education and Administration William A. Rosenberger, Education and Administration
A.B., Roberts Wesleyan College, 1951; M.A., Michigan State A.B., Roberts Wesleyan college,
University, 1955. At SPU 1976-93. Emeritus since 1993. Wadad Saba, Music; B.A., Whitworth College, 1959; M.A. University of Washington, 1964; D.M.A., 1981. At SPU parttime 1962-64; full-time 1964-97. Emeritus since 1997. Lynn Samford, Physical Education; B.A., University of Ay SPU 1982-92. Emeritus since 1993.
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Paul L. Schwada, Education; B.S.Ed., Northeast Missouri State, 1938; Th.B., Olivet Nazarene College, 1941; M.A.,
University of Chicago, 1943• Ph D University of Illinois, University of Chicago, 1943; Ph.D., University of Illinois, 1964
At SPU 1970-77. Emeritus since 1977. At SPU 1970-77. Emeritus since 1977 . M.A., University of South Dakota, 1958: Ph.D Uniege, 1952; Iowa, 1961. At SPU 1965-96. Emeritus since 1996. Myrthalyne C. Thompson, Psychology; B.S., Akro University, 1953; M.S., 195; Ph.D., Purdue University, 1958. A SPU 1968-87. Emerita since 1987.
Della Tiede, Nursing; Director, School of Health Sciences; B.S.N., University of Washington, 1951; M.N., 1967. At SPU Kenneth D. Tollefson
Bible College, 1958; M.Div, Anthropology; B.S., Manhattan 1961; M.A. University of O., Asbury Theological Seminary, Washington 1976 at of Oklahoma, 1965; Ph.D., University of F. Wesley Walls P Plitical Science; Beritus since 1996. F. Wesley Walls, Political Science; B.A., Greenvile Coilege SPU 1941-67 and 1969-81. Emeritus since 1981. N. Hubert Wash, Music; A.B., Greenville College, 1943; M.M.Ed., Illinois Wesleyan University, 1960; Ph.D., Michigan State University, 1971. At SPU 1951-55, 1976-79 and 1981-88. Emeritus since 1988.
Raymond J. Wells, Philosophy and Religion; B.A., Seattle Pacific College, 1946; S.T.B., New York Theological Seminary,
1949: S.T.M. 1950 ; Ph.D., University of Edinburgh, Scotland, 1955. At SPU 1967-93. Emeritus since 1993.

Winifred E. Weter, Classical Languages; B.A., University Oregon, 1929; M.A., University of Chicago, 1930; Ph.D., 1933 At SPU 1935-75. Emerita since 1975. Margaret S. Woods, Education; B.A., Washington State SPU part-time 1958-67; full-time 1970-76. Emerita since 1976 .

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B.A., Whitworth College, 1965; M.A., Arizona State B.A., Whitworth College, 1965; M.A.,. Arizona State
University, 1966; Ph.D., 1971 . At SPU since 1933.
H. Mark Abbott, D.Min.
A.B., Marion College, 1965; M.Div, Asbury Theological A.B., Marion Coilege, 1965 ; M.Div,, Asbury Theological
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Dean, College of Arts and Sciences
B.S., Portland State University, 1974; M.A., Pepperdine University, 1976; Ph.D., Portland State University, 1984 Judee K. Axelson, Ed.D.
Director of Education Professional Development B.S., Oregon State University, 1965; M.S.T., Portland State University, 1968; Ed.D., 1988; Superintendent Certification, Lewis and Clark College, 1992. At SPU
J. Ray Doerksen, M. A

University Libarian
B.A., Tennesse 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
Joyce Quiring Erickson, Ph.D.
Director of Freshman Year and Faculty Advising
Washington 1966. Ph. D. . 197 , 1965 ; M.A., University of since 1992 .
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Director of Distance Learning Program
B.A., Wheaton College, 1975; M.A., Stanford University

Bible, 1977 : M.Ed., University of Washington 1985
SPU, 1 , M.E.L., University or Washington, 1985. At
exander D. Hill, J.D
Dean, School of Business and Economics
B.A., Seattle Pacific College, 1975; J.D., University of Washington, 1980; M.A., Seattle Pacific University, 1993.
At SPU since 1985 . Ralph J Kester Ed D
Dean of Continuing Studies
B.S., Seattle Pacific College, 1961; M.S., Indiana

University, 1968; Ed.D., 1973. At SPU since 1986.
Annalee R. Oakes, Ed.D., FA.A.N., C.C.R.N
Dean, School of Health Sciences
B.S.N., University of Washington, 1970; M.A., 1971; Ed.D.

Seattle University 1988. At SPU since 1971

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Vice President for Business and Planning
B.S., Seattle Pacific College, 1971; C.PA., State of Washington, 1973; M.B.A., Seattle Pacific University, 1988. At SPU since 1980.

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Director of Facility Management
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B.A., Pacific Lutheran University, 1959; M.Ed., Oregon State University, 1963; Ed.D., University of Washington, 1976. At SPU since 1995.

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B.A., Seattle Pacific University, 1988; M.B.A., Seattle University, 1991; C.PA., State of Washington, 1994. At SPU since 1993.
don A. Nygard BA
Gordon A. Nygard, B.A.
Executive Director and Treasurer,
Executive Director and Trea
Seattle Pacific Foundation
Seattle Pacific Foundation
B.A., Seattle Pacific College, 1973. At SPU since 1988.
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Director of Purchasing
At SPU since 1976 .
Executive Director of Computer and
Information Systems
B.A., Seattle Pacific College, 1975; M.S., Seattle Pacific University, 1989. At SPU since 1975.

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Vice President for Campus Life
B.S., McMurry University, 1974; Research Fellow, St. Andrew's University, Scotland, 1977; M.Div, Asbur
Theological Seminary 1980; Ph.D, University of Michigan, 1992. At SPU since 1989 .
Kimberlee Campbell, M.Ed.
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B.A., Washington State University, 1985; M.Ed.,

Washington State University 1990. At SPU since 1995.
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B.A., Seattle Pacific University, 1987; M.A., M. Div., Fuller Theological Seminary, 1995. At SPU since 1993.
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B.A., Wheaton College, 1981; M.A., Ohio State

University, 1985. At SPU since 1992.
Les Parrott ilictor, Center for Relationship Development
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School of Psychology, 1930 At SPU since 1989.
Co-director, Cen.
Campus Life Center for Relationship Development/
B.A. Olivet Nazarene University, 1984; M.A. Fuller Theological Seminary, 1989, Ed. D., Seattle University,

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Dean of Educational Services
.A., University of Wisconsin-Eau Claire, 1970; M.Ed., niversity of Wisconsin-Oshkosh, 1974; Ed.D., Seattle University 1998. At SPU since 1977.

## Athletics

Jo Ann Atwell-Scrivner, B.A.
Head Women's Volleyball Coach
B.A., Willamette University 1972. At SPU since 1986

Kemeth W. Bone, B.A.
Head Men's Baske
B.A., Seattle Pacific University, 1983. At SPU since 1986.

Kenneth E. Foreman, Ed.D.
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Doris Heritage, M. Ed.,
Head Cross Country Coach
B.S., Seattle Pacific College, 1964; M. Ed., 1975. At SPU since 1969.
John C: Hoyt, B.A
Head Men's Track and Field Coach
B.A, Seattle Pacific University, 1987. At SPU 1989-91 and nce 1993

Associate Athletic Director
B.A., Whitworth College, 1962; M.A., California State

University-Long Beach, 1965. At SPU since 1976.
Keith P. Jefferson, B.A
B.A., Seattle Pacific University, 1983. At SPU 1987-89 and since 1990 .
Howard Kellogg, B.A
Director of Intramural and Club Sports; Facilities Manager
B.A., Whitworth College, 1972. At SPU since 1981

Hoad Men's Soccer Co
B.A., Wheaton College, 1958; M.Div., Gordon Divinity School, 1964. At SPU since 1970.
Gordon Presnell, M.S.
Head Women's Basketball Coach
B.A., Northwest Nazarene College, 1983; M.S., Seattle

Laurel J. Tindall, B.A.
Women's Gymnastic Coach; Director of Falcon Gymnastics Center
B.A., Seattle Pacific College, 1975. At SPU since 1975.

University Advancemen
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MPU Trusident for University Advancement
SPU Trustee 1983-1996. Staff since 1996.
Thomas W. Box, M.B.A.
Director of Development
A., Biola University 1974; M.B.A., Seattle Pacific

Gene E. Keene, M.B.A.
Director of Planned Giving
B.A., Eastern Washington University, 1971; M.B.A

Gonzaga University, 1972. At SPU since 1990.
Douglas Taylor, B.A.
Director or Alumni
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## University Relations

MARJORIE R. JOHNSON, M.A
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Registrar
niversity 1991 Pacif College, 1984; M.S., Seattle Pacific Kenneth E. Cornell, Jr., M.B.A.

Director of Undergraduate Marketing and Admissions B.A., Seattle Pacific University, 1985; M.B.A., 1994. At erald L. Finch, M.B.A.
Director of Institutional Research
B.S., Southern Illinois University, 1971; M.B.A., Eastern

Washington University, 1978. At SPU since 1988.
John L. Glancy, M.C.
Director of University Communications
B.A., Seattle Pacific College, 1970; M.C., University of
and since 1980 ickie L. Rekow
udent Financial Services
Janet L. Ward, M.P.A.
Dean of Enrollment Services
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Evergreen State College 1986. At SPU

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## Emeriti

Wayne Balch, M.M.
University Registrar; Professor of Music
B.A, Wheaton College, 1942; M.M. American Conservatory
of Music, 1949. At SPU 1966-85. Emeritus since 1985.
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drector of Media and Inservice Programming
Assistant Professor of Education
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avid O. Dickerson, Ph.D.
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Affairs; Professor of Englis
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Southern California, 1958; Ph.D., 1964. At SPU 1976-92.
Emeritus since 1992.

David C. Le Shana, Ph.D.
President
A.B., Taylor University, 1953; M.A., Ball State University, 1959; Ph.D., University of Southern California, 1967; L.H.D., George Fox College, 1982. At SPU 1982-91. Emeritus since 199.
tis A. Martin, Ph.D.
Curtis A. Martin, Ph.D.
President; Professor of Education
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Washington, 1963. At SPU 1962-65, 1968-71 and 1973-88. Emeritus since 1988
dia A. McNichols, B.S.
Director of Registration and Records
B.S., Seattle Pacific College, 1945. At SPU 1957-79. Emerita since 197 .
Director of Centennial Celebrations; University Registrar Dean of Continuing Studies; Vice President for Academic Affairs;Professor of English, Education and Theatre. B.A, Greenville College, 1948; M.A., Los Angeles State College, 91. Emeritus since 1991

## Alumni Association

The Seattle Pacific Alumni Association is an organization of former students and graduates. The current executive board year. The Young Alumni Council works in concert with the Alumni Board.

Five times a year, Seattle Pacific publishes and sends free to alumni the tabloid newspaper, Response. Al alumni are urged to keep the Association informed of changes in address and employment, births, marriages and The Alumni Center is located at 316 W. Nickerson.

Area meetings are held throughout the nation under the leadership of area alumni representatives. The Association assists the University through referral of prospective students and campus volunteer services. Alumni participate in Roll Call "Phonathon" (the annual fund drive) for the benefit of SPU. The Alumni Director and Alumni Program coordination of the Association's activities.

## Alumni Board

Presid $\qquad$ . J. Harland Beery ' 54
Vice-Presi $\qquad$ Bob McDowell ${ }^{5} 2$
 ... Larry Brown '83
$\qquad$ Representatives at Large ......................... Doug Bickerstaff '68

$\qquad$
Appointive Members .................................. Dan Boberg'89
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

$$
\begin{aligned}
& \text { Student Representative ................................................................................................................................................ } \\
& \text { Director }
\end{aligned}
$$

$$
\text { Alumni Program Assistant.................................... Laila Sharpe } 73
$$

## Calendar, Campus Map and Index



## University Calendar 1998-1999

Autumn Quarter 1998
First Payment Due on (an Class Instruction Begins
 Last Day to Waitlist.

ast Day to Register or Add Courses*, to Register without Late Fee, or to Apply for Audi............................................................................ st Day to Apply for Pass/No Credit, Independent Study and Internships eterans Day (Holiday ) the 3 Month Payment Plan




Mon. Septembe
 inter Registration for Graduate or New Admits Begin Mon. November


## Winter Quarter 1999

First Payment Due on (and last day to apply for) the 3 Month Payment Plan ............................................. Thurs. December
$\qquad$ Thurs. December Class Instruction Begin
Last Day to Waitlist...................................................................................................................................... Second Payment Due on the 3 Month Payment Plan Tues. Januar artin Luther ring's Birthday** (Holiday)
 hird Payment Due on the 3 Month Payment Plan President's Day (Holiday)

ast Day to With frion dited Students Currently in Attendance begins.

Spring Registration for Non-Admitted Students Begins
Final Examination
Spring Vacation
$\qquad$

Spring Quarter 1999
First Payment Due on (and last day to apply for) the 3 Month Payment Plan. Class Instruction Begins $\qquad$ Wed. March 10 Last Day to Waitlist.......

 Last Day to Register or Add Courses*, to Register without Late Fee, or to Apply for Audit .................................... Mon. April 5 Last Day to Apply for Pass/No Pass Credit Second Payment Due on the Last Day to Withdraw from Courses
和 Autumn Registration for New Admits begins Autumn Registration for New Admits begins .... Wed: May 1 Autumn Registration for Graduates .... Sat. May 22 Memorial Day (Holiday

Non-Admitted Students Begins ._..... Mon. May Commencement..

## Summer Session 1999

Pre-Session Begins ....................
First Four-Week Session Begins
First Four-Week Session Begins.
Second Four-Week Session Begins
Post-Session Begins .
*Evening/Weekend students may register through the first class session or through the 5th day (whichever is later) a registration petition
**Monday evening classes will meet on Martin Luther King's Birthday in order to have the required 10 class sessions.
seattle Pacific University Campus


Coming from the north or south on $1-5$, take the $N$. 50 th Street
Exit ( $f$ flo9) marked "Seattle Pacific University." Turn west onto Exit 50 and marked Seattle Pacific University." Turn west on
N. 5 th
and proced to Fremont Avenue N. Nurn left onto Fremont and cross the Fremont Bridge. Turn right immediately
atter the bridge onto Florentia Street. Go one block and turn atter the bridge onto Florentia Street. Go one block and turn
right onto Nickerson Street. Continue on Nickerson to Third right onto Nickerson street. Continue on Nickerson to hird
Avenue W. and turn left. You are now on campus. Remain on
Third for Third for three blocks, then turn right onto W. Drayus Street
and right again into the tiered parking lot (\#45 on the map).





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## Application Materials

## How to Apply

Use these checklists whether you're entering directly from high school or transferring rom another institution. For more details about the "ansfer process, see SPU's brochure, he Transfer Student Guide." pages following.

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, is extremely important that these materials present a full and accurate record of our academic and personal qualifications.
A decision will be made regarding your admission soon after all application materials have been received. If an interview is required, you will be contacted by phone.
Questions? If you need assistance in completing the application process for admission, please call Undergraduate Admissions at (206) 281-2021 or 1-800-366-3344, oll free. If you have questions about financing your education, please call the Office of Student Financial Services at (206) 281-2061 or 1-800-737-8826.

## Admission Checklist

Application Materials. Submit your application materials to Undergraduate Admissions, including:

SPU Undergraduate Admission Application
1999-2000 Early Action Form (Submit this form with your application if you are applying under the Early Action Plan. Due December 1, 1998. See form fo details.)

- $\$ 35$ Application Fe

Academic Recommendation
$\square$ Essays (2)
Test Scores. High school students only: Request that official SAT I or ACT scores be sent to Undergraduate Admissions. Scores must be sent directly from SAT or ACT in order oo be considered official, or they must be posted on your official high school transcript.

Transcripts. Request that official transcripts for all courses taken (high school and college) be sent to Undergraduate Admissions. In order for the transcripts to be considered official, they must be sent directly by the school to SPU in a sealed envelope any high school or college work is currently in progress, please ask your school to orward another transcript when the work is complete
Advance Payment. Indicate a decision to enroll by sending your $\$ 200$ advance payment to Undergraduate Admissions. Payments for students entering Autumn Ouarte payment to undergraduate Admissions. Payments for students entering Au
1999 are due no later than May 1, 1999, the National Candidates' Reply Date.

## Scholarships and Financial Aid Checklist

Scholarships. The SPU Undergraduate Admission Application is also your applicaion for most SPU scholarships. Information provided in the section on "Involvement and ctivities" is particularly important for determining scholarship eligibility. You wil utomatically be considered for any scholarships for which you are eligible

Deadline for High School Students (includes Running Start) Enterin Autumn 1999: All application materials must be received by March 1, 1999, in order for to be considered for merit scholarships.
Deadline for Transfer Students Entering Autumn 1999: All application cholarships
Fine Arts and Athletic Scholarships. Auditions are required for fine art Fcholarships. You may request an application by calling (206) 281-2205. For information bout athletic scholarships, call (206) 281-2085

Financial Aid. Submit your Free Application for Federal Student Aid (FAFSA) as oon as possible after January 1, 1999. Make sure that all admission application materials re received by March 1,1999 , so that you are eligible for the maximum amount of inancial aid. If final tax information is not available, you're encouraged to provide stimates on the FAFSA. Don't wait! The earlier you apply for inancial aid, the better th nancial aid offer you can expect SPU's school code for FAFSA is 003788

## 1999-2000 Early Action Form

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, 1998. All remaining application materials must be received by

Early Action students receive priority consideration in financial aid, scholarships and housing assignments, provided they meet financial aid and housing deadlines. Students submitting a complete application packet by December 1 will be notified of any scholarships awarded upon admission. 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 Undergraduate Admissions for details.

The $\$ 200$ advance payment must be received in Undergraduate Admissions no later than May 1, 1999

## Request for Early Action Status

Seattle Pacific University is my first choice, and I intend to enroll as a student beginning Autumn Quarter 1999. I request Early Action status when my application for admission is considered.

Signature $\qquad$ Date $\qquad$
Please type or print.

Name $\qquad$
Address $\qquad$ State $\qquad$ Zip $\qquad$
Social Security Number

Return this form with the Undergraduate Admission Application and \$35 application fee by December 1, 1998. Mail it to

## Seattle Pacfic Unversity

## 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.)
 Have you requested admission information from SPU in the past? $\square$ Yes $\square$ No
Have you applied to SPU before? $\square$ Yes $\square$ No If yes, when? Quarter $\qquad$ Year_ $\qquad$ Were you admitted? $\square$ Yes $\square$ No If you were previously admitted, did you enroll in classes? $\square$ Yes $\square$ No When did you last attend? $\qquad$

## Personal Information

1. Name $\qquad$
2. Sex $\square$ Male $\square$ Female
3. Present Address
$\qquad$ Evening Phone ( $\qquad$ _) $\qquad$

How long will you receive mail at this address?
Until
4. Permanent Address $\qquad$ Your E-Mail Address: Number and Street City
Phone ( _()
$\qquad$ 1 $\qquad$ 6. Birthdate $\qquad$ 7. Birthplace $\qquad$
8. Country of Citizenship $\qquad$ CurrentVisa Type $\qquad$ Areyou a residen Resident Alien No. A- $\qquad$
9. (Optional) How would you describe yourself? (Please check.)
(Optional) How would you describe yourself? (Please check.)
$\square$ American Indian $\quad \square$ African-American $\quad \square$ Hispanic-American
$\square$ Alaskan Native $\quad \square$ Caucasian/White (Please specify o
Asian/American $\qquad$
$\square$ Hawaiian
$\square$ Other
(Please specify origin.) $\qquad$
10. (Optional: This information will not be used to determine admission to the University, but will help to determine what accommodations may be needed.) Do you have a physical, sensory or mental impairment that substantially limits one or more life activities (e.g. walking, seeing, hearing breathing or learning)? $\square$ Yes $\square$ No
11. Name of Church You Attend $\qquad$ Denomination $\qquad$
Address $\qquad$ Number and Street Cily
Phone ( )

## Family Information

Note: Adult learners do not need to complete this section, unless it applies.
12. $\overline{\text { Name of Father or Legal Guardian Living? } \square \text { Yes } \square \text { No }}$

| $\overline{\text { Address (Number and Street) }}$ |  | Phone |
| :--- | :--- | :--- |
| $\overline{\text { City }}$ | State | $\overline{\text { Zip }}$ |

$\overline{\text { Country }}$
Father's Occupation
Employer
Colleges Attended by Father Degrees Earned
If your father is an alumnus of SPU, please indicate year of graduation:
13.

Name of Mother or Legal Guardian Living? $\square$ Yes $\square$ No
$\overline{\text { Address (Number and Street) } \quad \text { Phone }}$

| City |
| :--- |

Mother's Occupation
Employer
Colleges Attended by Mother Degrees Earned
If your mother is an alumna of SPU, please indicate year of graduation:
14. Check here if one or both of your parents is a full-time, ordained, practicing Christian minister or missionary. $\square$ Yes $\square$ No (Optional: This information determines eligibility for ministerial scholarships and will not be used for admission purposes.)
15. Names of Brothers and Sisters in High School
Name Year of H.S. Graduation

Name Year of H.S. Graduation
16. Names of Family Members Currently Attending SPU

Name

## Name

17. (Optional) Are you the first person in your immediate family to attend college? $\square \mathrm{Yes} \square$ No

## Educational Plan

18. Intended Major

If undecided, what subject area or career interests you?
19. (Optional) Please list each of the colleges and universities to which you are applying.


## Educational Background

20. When will (or did) you graduate from high school? $\qquad$ 21. Do you have a GED? $\square$ Yes $\square$ №
21. Are you a home-schooled student? $\square$ Yes $\square$ No
22. Have you taken the SATI or ACT? $\square$ Yes $\square$ No Test Date $\qquad$ Scores: SAT. $\qquad$ ACT: $\overline{\text { Composite }}$ Did you take the SATI or ACT twice? $\square$ Yes $\square$ No. Test Date $\qquad$ Scores: SAT: $\frac{\mathrm{V}}{\mathrm{M}}$ ACT. $\frac{1}{\text { Composite }}$
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.
$\qquad$ $\begin{array}{r}5 \\ -6 . \\ \hline\end{array}$
24. 8. $\qquad$ 9.
1. $\qquad$
2. (Freshman Applicants) Have you ever been enrolled in a college or university course for which you also received high school credit? $\square$ Yes $\square N o$ If $s 0$, at which college or university have you been enrolled? $\qquad$
3. 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.

4. (Transfer Students) Are you a member of the Phi Theta Kappa Honor Society? $\square$ Yes $\square$ No
5. Will you be applying for a scholarship with ROTC? $\square \mathrm{Yes} \quad \square$ No
6. 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
30. Do you plan to apply for financial assistance? $\square$ Yes $\square$ No

If yes, the Free Application for Federal Student Aid (FAFSA) was/will be filed on: $\qquad$
31. Preference for Living Arrangements $\square$ On Campus $\square$ Off Campus
(Note: Unmarried students under 21 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 Campus Life.)
32. In which of the following would you like to participate? (Check as many as apply.)

| $\square$ Band | $\square$ Visual Arts | $\square$ Debate | $\square$ Intramural Sports |  |
| :--- | :--- | :--- | :--- | :--- |
| $\square$ Choir | $\square$ Campus/Urban Ministry | $\square$ Student Publications | $\square$ NCAAAthletics |  |
| $\square$ Orchestra | $\square$ International Missions | $\square$ Student Leadership |  | Specify sport(s) |
| $\square$ Theatre | $\square$ Honors Programs | $\square$ Study Abroad |  |  |

33. Have you visited the SPU campus? $\square$ Yes $\square$ No

If yes, what was the occasion? $\square$ Personally Arranged Visit
$\square$ Senior Preview/Campus Preview
$\square$ Other Campus Event (Please name.) $\qquad$
34. 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)?
35. What was the most important factor in your decision to apply for admission?

## Involvement and Activities

Please describe all high schoolcollege church community or professional activities in which you have participated over the last four years. This information will be used to determine both admission and scholarship eligibility Attach additional pages if necesary

| 36. High School/College Activities | \# of Hours <br> Per Week | Years of <br> Involvement |
| :--- | :--- | :--- |
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| 37. Church Activities/nvolvement |  |  |
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| 38. Leadership Positions Held |  |  |
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| 40. Professiona/EmploymentActivities |  |  |
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## Personal Essays

Please read the statement describing "Seattle Pacific: A Christian University" on the inside back cover and thoughtfully respond to the questions below. Your answers will provide us with a more personal assessment of you and how you might benefit from an education at SPU Answer the questions concisely and in your own words. Please type (attach additional pages, minimum one page per essay). Both essay ques tions must be answered
42. Seattle Pacific University seeks to admit students who will best succeed in and benefit from an environment where learning and Christia faith are integrated (although a profession of Christian faith is not required for admission). Howwould enrolling at SPU help you accomplis your educational and perisonal goals?
43. Based on your involvements and life experiences, describe the unique contribution(s) you believe you can make to the SPU community

## Agreement

I certify that the information I have provided in my application for admission to Seattle Pacific University is true, complete and accurate. Furthe Sam aware of the standards and expectations for student conduct outlined on page 30 and on the inside back cover of this Catalog. If admitted to Seattle Pacific, Iagree to abide by and support these standards and values.

## Signature

Date
Thank you for providing us with the following information to ensure your application is complete.

|  | Enclosed | Previously Sent/Date |
| :--- | :---: | :---: |
| Seattle Pacific Undergraduate Admission Application | $\square$ | $\square$ |
| Personal Essays (2) | $\square$ | $\square$ |
| $\$ 35$ Application Fee | $\square$ | $\square$ |
| Early Action Form (if applicable) | $\square$ | $\square$ |
| Academic Recommendation | $\square$ | $\square$ |
| Personal Recommendation | $\square$ | $\square$ |
| Official High School Transcript | $\square$ | $\square$ |
| Official Scholastic Aptitude Test (SAT I) or | $\square$ |  |
| American College Test (ACT) Scores (if required) | $\square$ | $\square$ |
| Official College Transcripts (if required) | $\square$ | $\square$ |

Please enclose your \$35 application fee with this form and mail to:
Kenneth E. Cornell, Director of Admissions
Seattle Pacific University
3307 Third Avenue West
Seattle, Washington 98119

## Nondiscrimination Poliey

It it the policy of Seattle Paciicic University not to discriminate on the basis of race, color, national origini, sex, age or disability in admis ssion and accesss to, or treatment or employment in its programs or
 mendments of 11972 , as amended, Titit $V$ of the Civil Rights Act of 1964 , as amended, and the Age Discrimination Act, ss a mended, and their implementing regulations.
As a religious educational institution operating under the auspices of the Free Methodist Ciurch of North America, Seattie Pacific University ys perritted and reserves the right to prefere employees or
prospecive employes on the lasis of religion.
If you have any questions regarding this polico

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< Mite IXCoordinators:
    Primary Coordinator for Learning Serrices (206) 281-272
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        3307T\mathrm{ Third, Avenue W}
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                                    Sirector of Human Resources (206) 28-2065
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Ifyou beliere you may have been discriminated 2gainst in violition of this policy, please contact the Section 504 Cordinators, the "Tite IX Coordinators, the Office of Campus Life or the office of Human

## Seatile Pacific Unviersity

## 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 com pleted by a high school teacher, counselor or official; or a college advisor or official. Adult learners should select someone to complete this recom mendation who is familiar with your 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 $\qquad$ Social Security Number $\qquad$
Address $\qquad$ City

$\square$ 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? $\qquad$
2. In what context have you known the applicant? $\qquad$
3. Academic Performance

How would you rate this student in the following areas?

|  | Outstanding (Top 10\%) | Good | Average | Below Average |
| :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |
|  |  |  |  |  |
| Motivation |  |  |  |  |
| Self-Discipline |  |  |  |  |
| Creativity |  |  |  |  |
| College Preparedness |  |  |  |  |

4. Character and Personal Qualities

How would you rate this student in the following areas?

Leadership
Self-Confidence
Concern for Others
Personal Initiative

| Outstanding (Top 10\%) | Good | Average | Below Average |
| :--- | :--- | :--- | :--- |
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5. Seattle Pacific University seeks to admit academically qualified students who desire a challenging and distinctly Christian education in the arts, Seattle Pacific University seeks to admit a summary appraisal of the applicant's qualifications for admission and potential for success at SPU. Wha sciences and professions. Please write a summary apprasced at Seattle Pacific? Are there any academic or personal traits which might hinder the
talents and strengths would enable this student to succe applicant's success? Please explain.

## Personal Recommendation

## To be completed by applicant.

Note to Applicant: APersonal 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 completed your Academic Recommendation

## Please type or print.

Applicant's Name $\qquad$ Social Security Number $\qquad$
Address $\qquad$ cily
State Z Zip Code
$\square$ 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? $\qquad$
2. In what context have you known the applicant?
3. Character and Personal Qualities

How would you rate this student in the following areas?

Leadership
Self-Confidence
Concern for Others
Personal Initiative

| Outstanding (Top 10\%) | Good | Average | Below Average |
| :--- | :---: | :---: | :---: |
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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 aith? How is this manifested in the church and community?
. Seattle Pacific University seeks to admit academically qualified students who desire a challenging and distinctly Christian education in the arts sciences and professions. Please write a summary appraisal of the applicant's qualifications for admission and potential for success at sind wher the talents and strengths would enable
5. I recommend this applicant for admission:

For Academic Promise
For Character and Personal Promise For Leadership Potential

Overall Recommendation

| With Enthusiasm | Strongly | Fairly Strongly | Without Enthusiasm | Not Recommended |
| :--- | :--- | :--- | :--- | :--- |
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Name (Please print.) $\qquad$ Date $\qquad$ -

Signature $\qquad$ Position $\qquad$
Church/Organization
Address $\qquad$ State $\quad$ zip

Phone ( $\qquad$ _) ) lumber and Street $\square$ SPU Alum Class of $\qquad$ $\square$

Please return to:
Kenneth E. Cornell, Director of Admissions
Seattle Pacific University
307 Third Avenue West
Seattle, Washington 98119

## 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 intellectualy 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 which balances
freedom and support as you graple with difficult questions. 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 and 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 Adents.
Another way is through the University Chapel/Forum program, which includes morning worship and faculty-led mail groups, urban ministry, forums, reflection retreats and other spiritual growth opportunities. All full-time undergraduate students must meet SPU's requirement for Chapel/Forum attendance.

Students are also asked to adhere to community standards of behavior. They are expected to refrain from alcohol or illegal drugs; and particicipation in acts of rac sexual harassment. These are not "rules for rules' sake," but are intended to show respect for SPU's Christian tradition and for other community members. Seattle Pacific University doesn't use the word identity is as important to us today as 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 extent applicable to the University, Title IX of the Educational Amendments of 1972 , as amended, Titte 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 you have any questions regarding this policy, please contact the following persons:
ection 504 Coordinators:
rimary: Coordinator for Learning Support Programs $\qquad$ .. (206)
(206) $281-2272$
(2067

## Title IX Coordinators:

Primary: Vice President for University Relation

$\qquad$ (206) $281-2650$
. (206) $281-2065$

Secondary: Director of Human Resource $\qquad$
If you believe you may have been discriminated against in violation of this policy, please contact the Section 504 Coordinators, the fitte IX Coordinators, the Office of Campus Life or the Human Resources Office for a copy of he University's grievance procedures.

Seattle Pacific Universit<br>3307 Third Avenue We 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 chedules whenever these are deemed necessary or desirable, including changes in course content, clas rescheduling, and the canceling of scheduled classes or other academic activities.

3307 Third Avenue West
Seattle, Washington 98119/Phone: (206). 281-2000
Toll Free: 1-800-366-3344
abelsod S'

