

1997

## Seattle Pacific University Catalog 1997-1998

Seattle Pacific University

Follow this and additional works at: [https://digitalcommons.spu.edu/archives\\_catalogs](https://digitalcommons.spu.edu/archives_catalogs)

---

### Recommended Citation

Seattle Pacific University, "Seattle Pacific University Catalog 1997-1998" (1997). *Seattle Pacific Catalogs*. 80.  
[https://digitalcommons.spu.edu/archives\\_catalogs/80](https://digitalcommons.spu.edu/archives_catalogs/80)

This Book is brought to you for free and open access by the University Archives at Digital Commons @ SPU. It has been accepted for inclusion in Seattle Pacific Catalogs by an authorized administrator of Digital Commons @ SPU.

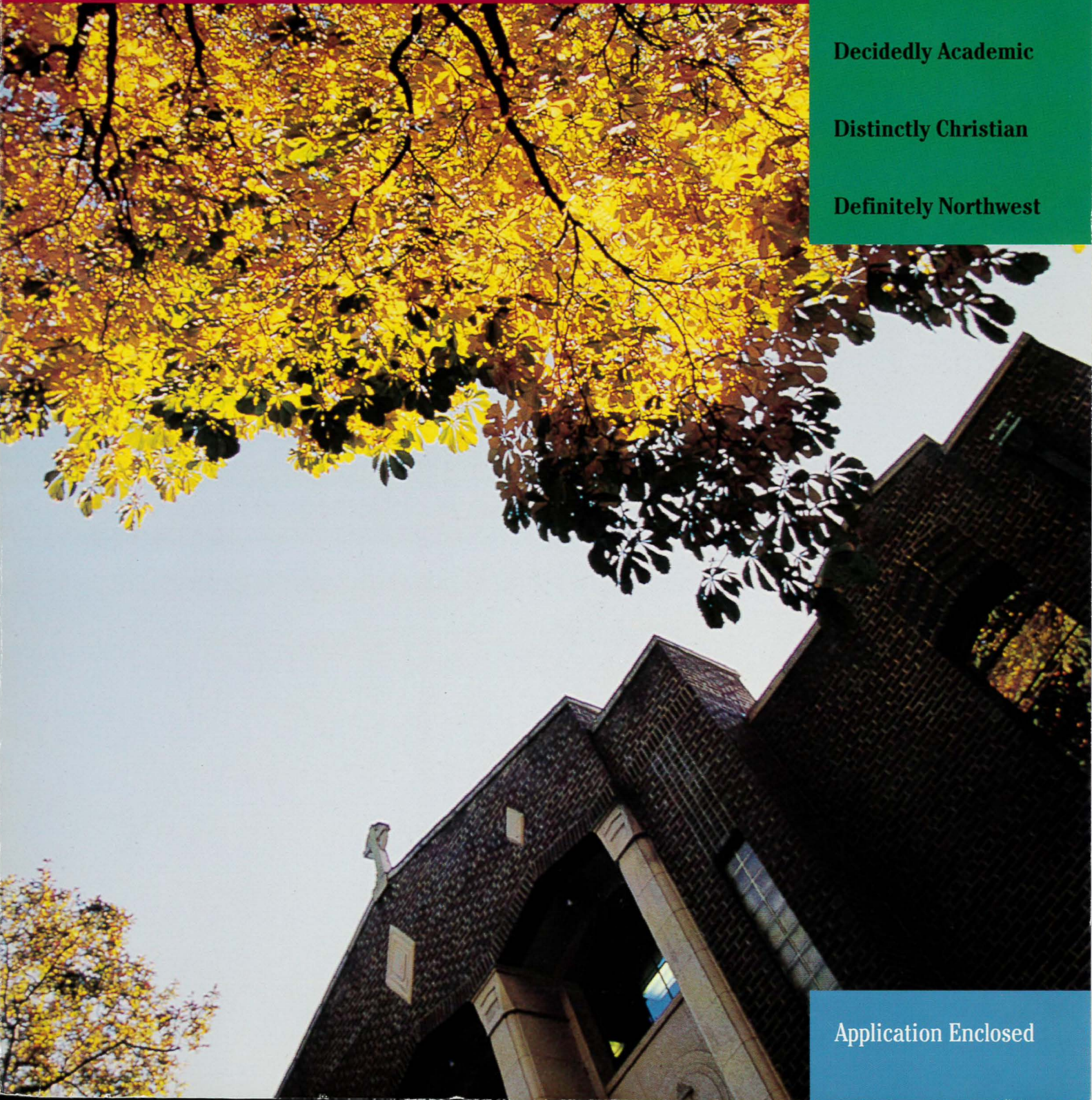
# Seattle Pacific University 1997-98 Undergraduate Catalog

**Decidedly Academic**

**Distinctly Christian**

**Definitely Northwest**

**Application Enclosed**





# SPU Reference Guide

General Information .....	(206) 281-2050
General University Fax .....	281-2500
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 Application Process .....	281-2021
Toll Free Number .....	1-800-366-3344
Fax .....	281-2669
E-mail .....	admissions@spu.edu
Campus Ministries .....	281-2966
Career Development Center .....	281-2018
Evening/Weekend Classes .....	281-2121
Residence Life .....	281-2043
Student Academic Services	
Graduation/Transfer Student Services .....	281-2021
Registration Dates .....	281-2031
Fax .....	281-2669
Student Financial Services .....	281-2061
Fax .....	281-2835
Student Government .....	281-2126
 SPU HOME PAGE .....	 <a href="http://www.spu.edu">http://www.spu.edu</a>

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

# Table of Contents

About Seattle Pacific University .....	2
University Calendar, 1997-98 .....	5
General Information .....	7
Admissions .....	15
Costs and Financial Aid .....	21
Student Life .....	33
Academic Policies and Procedures .....	37
Baccalaureate Degree Requirements .....	45
Foundations and General Education .....	48
The Academic Program .....	53
Areas of Instruction (chart) .....	56
Art .....	58
Biochemistry .....	70
Biology .....	60
Blakely Island .....	63
Business and Economics, School of .....	64
Chemistry .....	70
Classics .....	111
College of Arts and Sciences .....	73
Communication .....	74
Computer Science .....	76
Economics .....	68
Education, School of .....	79
Engineering .....	88
English .....	92
English as a Second Language .....	96
European Studies .....	113
Family and Consumer Sciences .....	96
Fine Arts (interdisciplinary courses) .....	102
Food and Nutritional Sciences .....	98
French .....	114
General Studies .....	103
Geopolitics .....	103
German .....	115
Graduate Programs .....	104
Health Sciences, School of .....	105
History .....	108
Internships .....	110
Journalism .....	74
Languages .....	113
Latin .....	115
Latin American Studies .....	112
Linguistics .....	117
Mathematics .....	118
Music .....	120
Natural Sciences (interdisciplinary courses) .....	126
Philosophy .....	126
Physical Education .....	128
Physics .....	130
Political Science .....	132
Pre-Law .....	134
Pre-Professional Health Programs .....	135
Psychology .....	137
Religion .....	139
ROTC Programs .....	143
Russian .....	116
Student-Designed Major .....	145
Social and Behavioral Sciences (interdisciplinary courses) .....	145
Social Service .....	146
Sociology .....	146
Spanish .....	116
Textiles, Clothing and Interiors .....	99
Theatre and Film Studies .....	148
University Scholars Program .....	151
Women's Studies .....	152
Faculty .....	154
Trustees and Administration .....	162
Alumni Association .....	165
Campus Map .....	169
Index .....	170
Application Materials .....	back of catalog

## How to Use This Catalog

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

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



# About Seattle Pacific University

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

*-Mission Statement  
Seattle Pacific University*

Seattle Pacific is a flourishing Christian university of the arts, sciences and professions serving more than 3,400 students. Its campus is located in a residential neighborhood just minutes from downtown Seattle, the business and cultural heart of the Northwest

Fully accredited, Seattle Pacific's academic disciplines set very high standards for students. Undergraduate students are not taught by graduate assistants, but by experienced professors recognized locally and nationally for the quality of their scholarship. Small classes mean students actively participate in their own education, gaining the confidence to achieve their goals. And the University's clear Christian commitment gives depth and perspective to classroom learning, balancing knowledge with values

Complementing the academic program is the University's emphasis on service. Beginning with new student orientation, SPU students act upon their faith in local service agencies and around the world.

A degree from SPU means something special. It not only identifies individuals of significant academic achievement, but people of integrity. This combination is a powerful one that opens doors to further study, a challenging career and world service.

## Defining Our Christian Mission

In the beginning, God called His creation good. Because of this, we at SPU feel a divine responsibility to study God's creation — the universe, our societies, our cultures and our lives. This is our ultimate purpose as an evangelical Christian university.

However, although God called His creation good, human beings have usurped His authority by attempting to take control of their own futures. Life on earth has become broken and distorted.

Yet God, in His infinite love, seeks to restore human beings to their original wholeness. He came to earth in the God-man Jesus Christ to show us how we should live. By dying, Christ paid the price of our wrong-doing and offers a loving forgiveness. His bodily resurrection guarantees our ultimate victory over sin and death. His Holy Spirit fills us with the power to love. And, He will return to complete history.



2

## Seattle Pacific University

*"At SPU, we are motivated by a great passion for Jesus Christ on the one hand and a great passion for learning on the other. These things come together in amazing ways; they even bump into each other at times. Now that's exciting work! Discovering how our faith informs the learning process is what we're all about."*

**Philip W. Eaton**  
President



3

## Seattle Pacific University

Our response to God's love is gratitude and joy. Care and concern for other human beings and for creation take on new meaning. Through acts of caring we learn by following Christ's example that to lead is to serve.

Students and faculty are challenged to follow this example by developing a scholar's mind while turning their classroom knowledge into acts of service in the world. The scholar-servant then becomes a living example of Christian leadership — at home, on the job and in the world community. Leading through serving becomes the ultimate life-product of all who seek to follow in Christ's footsteps.

In affirming the great tenets of the Christian faith, Seattle Pacific stands unequivocally for (1) the deity of Christ, (2) the inspiration and authority of the Old and New Testaments, (3) the need and efficacy of the atonement, (4) the new birth as a divine work carried out in the repentant heart by the Holy Spirit, (5) the necessity and glorious possibility for the Spirit-filled Christian to live a life of victory over sin, and (6) the personal return of the Lord Jesus Christ.

We use the phrase "spiritual formation" to describe everything Seattle Pacific does intentionally — in and out of the classroom — to encourage members of the University community to make faith in Christ the authentic center of their lives. This transforming and developmental process enables Christian growth and maturity by promoting the spiritual disciplines; fostering spiritual mentoring; modeling a community of love, justice, reconciliation, support, authenticity and civility; encouraging an informed and thoughtful faith; and cultivating and advancing faith through service.

## Becoming Scholars and Servants

The emphasis on scholarship and service at Seattle Pacific University enables each student to prepare for a balanced, creative and productive life.

Specifically, SPU seeks to help students achieve the following goals:

1. Growth toward mature Christian faith.
2. Maturing intellectual, social, spiritual and emotional judgment.
3. Specialized learning, built on a foundation in liberal learning.
4. Skills in reasoning, judgment and communication.
5. Synthesis of academic knowledge, Christian values and personal behavior.
6. Aesthetic appreciation and creative expression.
7. Attitudes contributing to bodily fitness.
8. Growing interpersonal and cultural sensitivity.
9. Awareness of personal purpose with unique, creative self-expression.
10. Development of competency in the context of Christian vocation.
11. Commitment to lifelong learning.

## Seattle and the Pacific Northwest

Few Christian universities can claim the natural and cultural advantages of one of America's "Most Livable Cities."

A gateway to Canada and the Pacific Rim, Seattle is virtually surrounded by water. Seagulls, bridges and ferryboats are part of everyday life. Bordered on two sides by mountains, Seattle offers easy access to a wide variety of outdoor recreation such as skiing, hiking and camping. SPU's own campuses on Blakely and Whidbey Islands are not only ideal for studies in the sciences — they're great getaways as well.



There's no limit to discovery when you live and study in the cultural heart of the Northwest. Seattle's world class fine arts include opera, theatre, symphony and ballet, as well as numerous art museums. Athletics is a vital part of the city, too. Seattle is home to such major league sports franchises as the Sonics, the Seahawks and the Mariners.

Combining classroom education with practical experience is the best way to master a subject — and Seattle's urban opportunities offer that link. As part of their educational program, many students work 10 to 20 hours per week for organizations such as Boeing, Microsoft, KIRO TV, the Empty Space Theatre and the Fred Hutchinson Cancer Research Center.

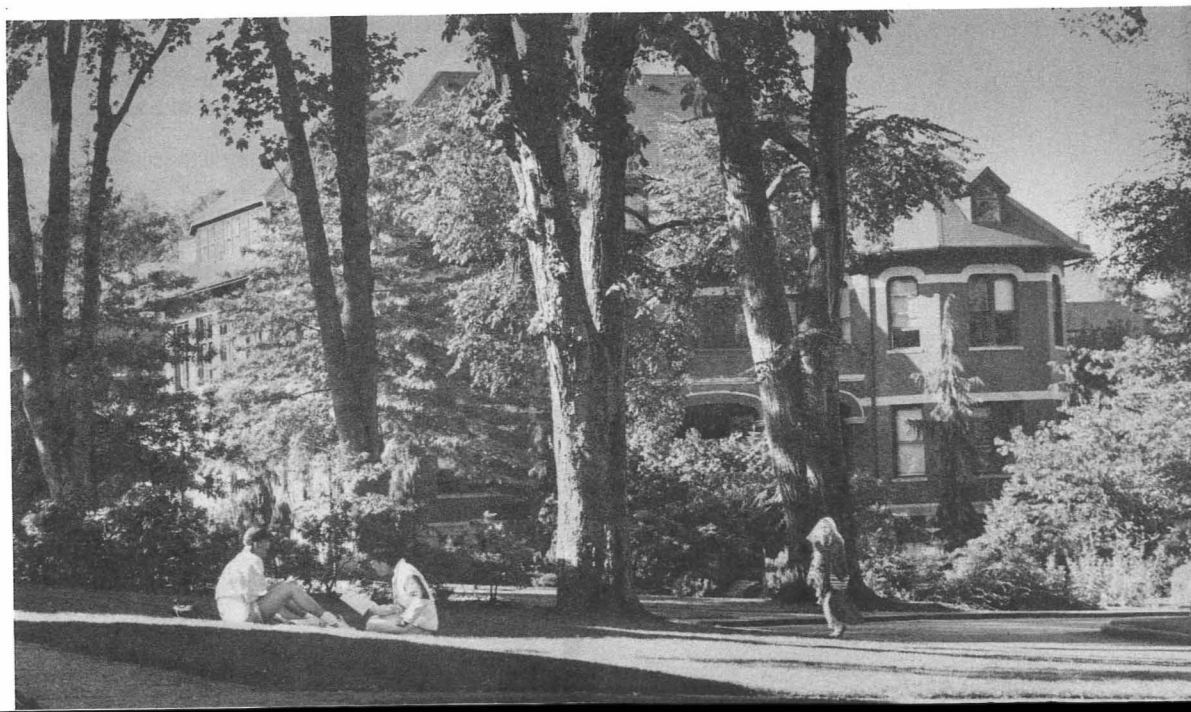
### You're Invited to Visit the Campus

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 a few minutes from the bustling, cosmopolitan city center.

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

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



There are several opportunities for students to schedule a visit:

**Campus Preview.** Campus Preview offers prospective students an in-depth look at life on campus. This special weekend event is an opportunity for more than 200 students to attend classes, meet professors, live in the residence halls, and take part in information workshops and athletic/social events. In 1998 it will be held February 19-21.

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

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

To arrange a visit to Seattle Pacific University, simply give us a call at (206) 281-2021 or 1-800-366-3344 toll free. We'll take care of the details.

# University Calendar 1997-1998

## Autumn Quarter 1997

Labor Day (Holiday)	Mon. September 1
First Payment Due on (and last day to apply for) the 3 Month Payment Plan	Wed. September 10
Class Instruction Begins	Mon. September 29
Last Day to Register or Add Courses*, to Register without Late Fee, or to Apply for Audit	Fri. October 3
Last Day to Apply for Pass/No Credit, Independent Study and Internships	Fri. October 10
Second Payment Due on the 3 Month Payment Plan	Fri. October 10
Last Day to Withdraw from Courses	Mon. November 10
Third Payment Due on the 3 Month Payment Plan	Mon. November 10
Winter Registration for Admitted Students Currently in Attendance	November 17-21
Winter Registration for New Admits Begins	Tues. November 25
Thanksgiving (Holiday)	Thurs.-Fri. November 27-28
Winter Registration for Graduate or Non-Admitted Students Begins	Mon. December 1
Final Examinations	Wed.-Fri. December 10-12

## Winter Quarter 1998

First Payment Due on (and last day to apply for) the 3 Month Payment Plan	Wed. December 10
Class Instruction Begins	Mon. January 5
Last Day to Register or Add Courses*, to Register without Late Fee, or to Apply for Audit	Fri. January 9
Second Payment Due on the 3 Month Payment Plan	Mon. January 12
Last Day to Apply for Pass/No Credit, Independent Study and Internships	Fri. January 16
Martin Luther King's Birthday** (Holiday)	Mon. January 19
Third Payment Due on the 3 Month Payment Plan	Tues. February 10
President's Day (Holiday)	Mon. February 16
Spring Registration for Admitted Students Currently in Attendance	February 17-20 & 23
Last Day to Withdraw from Courses	Tues. February 17
Spring Registration for New Admits Begins	Wed. February 25
Spring Registration for Graduate and Non-Admitted Students Begins	Mon. March 2
Final Examinations	Wed.-Fri. March 18-20
Spring Vacation	March 23-27

## Spring Quarter 1998

First Payment Due on (and last day to apply for) the 3 Month Payment Plan	Tues. March 10
Class Instruction Begins	Mon. March 30
Last Day to Register or Add Courses*, to Register without Late Fee, or to Apply for Audit	Fri. April 3
Good Friday (Half-Day Holiday)	Fri. April 10
Second Payment Due on the 3 Month Payment Plan	Fri. April 10
Last Day to Apply for Pass/No Pass Credit, Independent Study and Internships	Mon. April 13
Summer Registration Begins	Wed. April 15
Last Day to Withdraw from Courses	Mon. May 11
Third Payment Due on the 3 Month Payment Plan	Mon. May 11
Autumn Registration for Admitted Students Currently in Attendance	May 18-22
Memorial Day (Holiday)	Mon. May 25
Autumn Registration for Graduate and Non-Admitted Students Begins	Fri. May 29
Autumn Registration for New Admits Begins (PREMIERE)	Sat. May 30
Final Examinations	Tues.-Thurs. June 9-11
Commencement	Sat. June 13

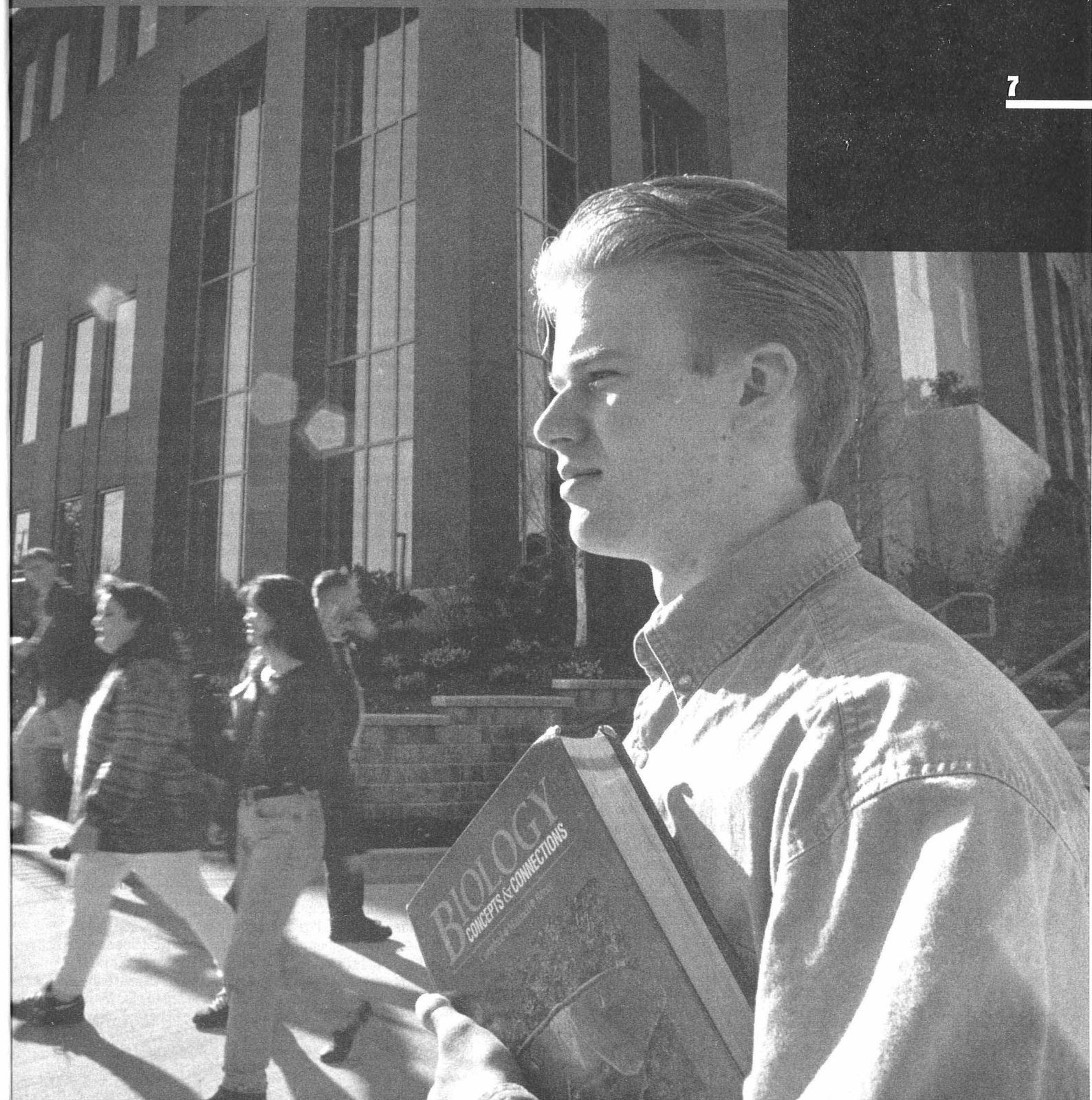
## Summer Session 1998

Pre-Session Begins	Mon. June 15
First Four-Week Session Begins	Mon. June 29
Second Four-Week Session Begins	Mon. July 27
Post-Session Begins	Mon. August 24

*\*Evening/Weekend students may register through the first class session. Late registration may be allowed through the second class session with the instructor's permission. However, late fees will be charged if registration occurs after the first week of the instructional quarter.*

*\*\*Monday evening classes will meet on Martin Luther King's Birthday in order to have the required 10 class sessions.*

# General Information





# General Information

## Accreditation and Affiliation

The history of the growth of SPU is linked to the educational community of which it is a part. In successive steps from 1921 to 1937, the University was accredited by the Washington State Board of Education. Since 1936, the University has been fully accredited by the 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 country. SPU is a charter member of the Christian College Consortium and is also a member of the Coalition of Christian Colleges and Universities.

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

The dietetics specialization in the food and nutritional sciences program has been granted approval 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. This means a graduate of SPU with dietetic specialization is eligible to apply for a dietetic internship in another institution. After the dietetic internship taken elsewhere, the student is "RD Eligible." The student can then take the registration examination. If passed, the student becomes a Registered Dietitian.

The undergraduate nursing curriculum is accredited by the Washington State Nursing Care Quality Assurance Commission and both the undergraduate and graduate programs are accredited by the National League for Nursing.

SPU is a full member of the National Association of Schools of Music.

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

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

The University is a member of the American Assembly of Collegiate Schools of Business and the Association for Continuing Higher Education. The University is approved by the United States Government for education of veterans and their dependents under the applicable public laws.

## Our Resources for Learning

Seattle Pacific University students enjoy aesthetically pleasing physical learning spaces. Spread over the 35-acre Seattle campus, the buildings, recognized by their traditional brick or modern faces, are better known for the many ways in which they meet students' educational needs.

### The Library

Completed in 1994, the Library is a spacious four-level facility that serves as the center for academic endeavors outside the classroom. It provides collections, services, technology, and space for study and research, with approximately 200,000 volumes arranged on open shelves for easy access to readers. The collection grows by some 4,000 new titles each year, including over 1,400 current periodical titles and an ever expanding microfiche collection numbering more than 300,000 items. The collection is accessible on-line in the library and through the campus computer network via its automated catalog. In addition, fundamental library processes of circulation, reserves, acquisitions, cataloging and serials control are also facilitated through the same integrated automation system. Microfilm and microfiche reader-printers, low-cost duplicating facilities and audiovisual listening and viewing stations are available as well.

In addition to standard reference resources, over 20 subject-specific CD-ROM databases are accessible through a local area network. With support from a librarian, more than 400 databases through the DIALOG Information Retrieval Service and the Datatimes newspaper service are accessible via satellite connection.

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 Library 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 agreement.

### Student Computer Labs

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

**Library:** There are three computer labs in the Library: two instructional - one with 19 MS-Windows computers, one with 12 Macintosh computers, and an open lab with 21 MS-Windows and 15 PowerMacintosh computers. The Library also has a number of terminals for library catalog searches, 12 computer stations which are able to search CD-ROM databases, and five terminals dedicated for email only.

**Miller Science Learning Center:** There are three computer labs in the Miller Science Learning Center. A large open lab has 32 MS-Windows computers and 16 terminals, the Electrical Engineering Design lab has 8 workstations, and the Electrical Engineering "Computer Aided Engineering" lab has 10 MS-Windows computers.

**Writing Lab:** The Humanities Writing Lab in Tiffany contains 4 MS-Windows computers for instruction and support of basic writing skills.

**Music Keyboard Lab:** The music lab in Beegle Hall contains 8 high-end Macintosh computers attached to MIDI keyboards.

**Archer Technology and Learning Center:** The Center in lower Moyer contains 7 MS-Windows and Macintosh computers dedicated to multimedia programming, computer graphics, desktop publishing, desktop video and Internet access.

### Classroom Technology

Faculty have a wide range of technology available in the classroom to enhance learning. From "low-tech" equipment such as TV's and VCR's (available in nearly all classrooms), to "high tech" resources such as large-screen projectors and PC's (installed in seven classrooms), to fully equipped electronic classrooms (two on campus).

### Internet Access

On-campus network connectivity and access to the Internet (part of the information highway) is available throughout campus. Most students, faculty and staff use electronic mail and other electronic communication tools. Access to campus resources and databases through the World Wide Web is wide spread. The Internet also provides access to libraries, databases and information resources throughout the world. Nearly all faculty are provided late model computers and high speed network connections. Students can get access to the Internet from student computer labs or from their residence hall rooms. Off-campus students have access to email from campus-provided modem connections.

### Instructional Technology Resources

The Archer Technology and Learning Center is responsible for the circulation of media equipment, media production, satellite downlink, duplication services and the management of a multimedia laboratory. Circulating equipment includes: video camcorders; video players; video, slide, film, and opaque projectors; 16mm projectors; and audio cassette recorders and players. Academic multimedia lab equipment includes Windows and Macintosh computers, CD-ROM units, scanners, video digitizers, color and laserprinters and video editing systems available for faculty and students working on class projects.

### Technology Services in the Residence Halls

All of the campus residence halls units are provided a full compliment of technology resources that include: network connections to the local campus computers and the Internet, cable TV connections in each room and telephone/voice mail services.

### Technology Instruction and Assistance

The use of computers and networked resources is an important part of the academic program at SPU. Assistance in learning how to use these resources is available in many forms. A 40-page booklet "SPUnet Systems and Internet User Guide" is distributed to students, there are many

training sessions offered for help in using the campus resources, student assistants are available in all of the computer labs, and Computer & Information Systems provides a central computer HelpDesk.

### Computer Ownership

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

## The Freshman Year and Freshman Core

Students who are making the transition from high school to university often find it more difficult than they had anticipated. The Director of Freshman Year works with the Office of Student Life and Student Academic Services to help students make a successful personal and academic adjustment. Faculty advisors work with freshman students to help them develop and refine their academic goals and choose appropriate courses to meet those goals.

The freshman CORE, which stands for Community, Orientation, Relationships through Education, is an academic enhancement program that provides students an opportunity to make the most of their first year by enrolling in a CORE group that stays together in at least one course each quarter. CORE faculty members work together to identify common themes in coursework and to design additional educational, cultural, and social activities that help students apply their learning to other courses and to their own experience. Courses in the CORE program are chosen to meet foundation and general education requirements and provide guaranteed placement in high-demand courses.

Further information about freshman programs or CORE can be obtained by contacting Dr. Joyce Quiring Erickson, Director of Freshman Year, Seattle Pacific University, Seattle, WA 98119 (206) 281-2189 or jquericks@spu.edu.

## Coalition, Consortium and Other Special Study Programs

Seattle Pacific University is a member of the Coalition of Christian Colleges and Universities and the Christian College Consortium. The purpose of these organizations is to promote Christian higher education, and to provide programs for students and professional development opportunities for faculty and administration.

The main services for students provided by the Coalition of Christian Colleges and Universities are the following interdisciplinary programs - American Studies (Washington D.C.), Film Studies (Los Angeles, CA), Latin American

Studies (San Jose, Costa Rica), Middle East Studies (Cairo, Egypt) and Russian Studies (Russia). Based on the principle of integrating faith with learning and living, these semester-long residential experiences combine an internship with a series of seminars and grant Seattle Pacific credit. The Coalition also offers a Summer Institute in Journalism in Washington, D.C. and, in conjunction with the Centre for Medieval & Renaissance Studies at Oxford University, offers a summer school program focusing on the events and ideas of the European Renaissance and Reformation. For information regarding these programs contact the individual noted below or call the Coalition office at (202) 546-8713.

Students may also elect to attend one of the other 12 Christian College Consortium schools on a visitor basis for one or two quarters on the Student Visitor Program. In addition to SPU, Consortium schools include Asbury College, Bethel College (St. Paul), George Fox University, Gordon College, Greenville College, Houghton College, Malone College, Messiah College, Taylor University, Trinity International University, Westmont College, and Wheaton College. Applications should be filed through Student Academic Services. The deadline for autumn quarter is March 1; for winter and spring quarters the deadline is October 1.

The Christian College Consortium also sponsors a study program at Daystar University in Nairobi, Kenya. Programs of study include communications, business administration and management, education, community development, and Bible and Christian ministries. All instruction is in the English language, offered by a faculty composed primarily of African nationals. Admission to Daystar is limited to Consortium students in their junior or senior years.

In addition to the above-noted Coalition or Consortium programs, other opportunities for off-campus study are available. These include European Studies, Fashion Institute of Technology in New York, Fashion Institute of Design and Marketing in Los Angeles and special summer study programs.

A list of available programs and the contact for each follows.

- American Studies Program (Washington DC)  
Reed Davis, Political Science Department
- Clark Atlanta College (Atlanta, GA)  
Office of Student Life
- Costa Rica Nursing Program  
Vicki McClurg, School of Health Sciences
- Consortium Student Visitor Program  
Student Academic Services
- Daystar University (Nairobi, Kenya)  
Donald Holsinger, History Department
- European Studies Program  
Foreign Language Department
- Fashion Institute of Design and Marketing FIDM (LA)  
Sandra Hartje, Family Consumer Sciences
- Fashion Institute of Technology FIT (New York)  
Stella Warnick, Family Consumer Sciences
- 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 Department
- Taiwan Nursing Program  
Annalee Oakes, School of Health Sciences

## Access Program

Since 1977 the ACCESS program has been offered to students who would benefit from additional personal and academic support during their first year at SPU. This program provides personalized academic advising, priority registration, tutoring and mid-quarter class assessments. Additionally, students enroll in two study skills classes to equip them for college course expectations and to clarify educational and professional goals. Participation in the ACCESS program may be an expectation for some students upon admission or may be a voluntary option. The charge for three quarters of participation is \$250. Questions about the program can be directed to the Center for Special Populations.

## Academic Schedule

SPU uses a quarter calendar which runs over three quarters (autumn, winter, spring), each consisting of 10 weeks of instruction. Classes begin at 8 a.m. on days of instruction and are generally arranged in 50-minute periods. Except during summer session, there is an interval of 10 minutes between periods and a chapel assembly is scheduled two mornings a week at 10 a.m. 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 distance learning courses, see the Division of Continuing Studies section which follows.

## The Division of Continuing Studies

SPU is committed to serving the education needs of our community by remaining flexible and responsive to changing needs. To complement the traditional undergraduate, graduate and personal or professional offerings at our city campus, the Division of Continuing Studies (DCS) is constantly developing special programs to meet the needs of adult learners, evening/weekend and off-campus students.

DCS is the service arm of the University responsible for developing and managing programs that provide adult learners greater access to completing an undergraduate degree or certificate, or continuing their professional development. DCS also oversees SPIRAL, Summer School, distance learning, and promotes the evening/weekend programming.

Students desiring further information about any of the programs offered by DCS should write: Division of Continuing Studies, Seattle Pacific University, 3307 Third Avenue West, Seattle, WA 98119 or call (206)281-2121 or (800)648-7898. FAX (206)281-2662. Information can also be obtained via the World Wide Web at <http://paul.spu.edu/dcs/> or via the Internet at [dcsmtk@spu.edu](mailto:dcsmtk@spu.edu).

## Professional Development

Courses are offered in a variety of fields such as business, education, and mental health.

### SPIRAL - Education Professional Development

Reflecting SPU's concept of service, the mission of the SPIRAL program is to provide educators with courses of high educational quality. Established in 1976, SPIRAL represents the continuing education program which was developed to meet the changing needs of teachers, staff development personnel and school administrators. SPIRAL programs are specifically designed for educators who like the convenience of courses offered off-campus and at nominal fees. More than 20,000 professional educators take advantage of SPIRAL every year.

A student need not be formally admitted to Seattle Pacific to take advantage of the special programs and courses through SPIRAL. An adult continuing education student not seeking an undergraduate or graduate degree may register by mail, fax or in-person for up to 20 credits in any quarter as a non-matriculated student.

### Business Professional Development

The Division of Continuing Studies offers a variety of opportunities for business professionals. In cooperation with the Northwest Human Resources Management Association (NHRMA), Seattle Chapter, DCS offers a Professional Human Resource Management Course. This advanced training provides a review of the latest body of knowledge in preparation for the HRCI national certification examination as well as supplying high quality professional development. DCS also sponsors, in cooperation with the School of Business and Economics, periodic seminars or conferences.

### Summer School

Every summer thousands of students take advantage of Seattle Pacific's full range of accredited undergraduate liberal arts courses and intensive educator institutes during its 12 week summer session on the SPU campus. As well, many graduate programs offer convenient evening courses for students. The summer courses may range from two days to four weeks in length, and credits are about half-price of credits taken during the regular academic year, with many classes offered in the evening.

No formal admission to the university is required to attend the summer session. Some courses may require permission of the instructor to register, or a pre-requisite. Submission of test scores or transcripts is not required.

### Evening/Weekend School

The evening/weekend program is designed to accommodate the schedules of working professionals with a Washington, Oregon or California transfer program A.A. degree. Courses are scheduled in most disciplines to meet general education and major requirements in selected degree areas. Through evening/weekend classes, students can complete the following programs:

Certificates in Adventure-Based Education, Business Management, Computer Science/Data Processing and Electrical Engineering.

Bachelor's degrees in Business Management, Computer Engineering, Computer Science/Business Applications, Electrical Engineering, and Engineering Science.

## Distance Learning

SPU offers distance learning courses to assist students unable to attend regularly scheduled campus classes to continue their education. These courses utilize diverse mediums—audiocassettes, videocassettes, television, printed materials, and satellite or cable transmission—to bring courses to the students. Students work independently to complete these courses as they acquire information through viewing, listening, reading, thinking and writing. Students then demonstrate synthesis and application of the learned information by completing a variety of assignments and projects.

Distance learning courses currently exist in Biblical and religious studies, selected disciplines of general education and graduate education, and educational professional development. Some of these course are designated in the University's Time Schedule and Bulletins with an "M" in the title (e.g., BIL 3103 POETIC LITERATURE: THE PSALMS-M). Please refer to the Catalog for information on how distance learning courses may be applied to a degree.

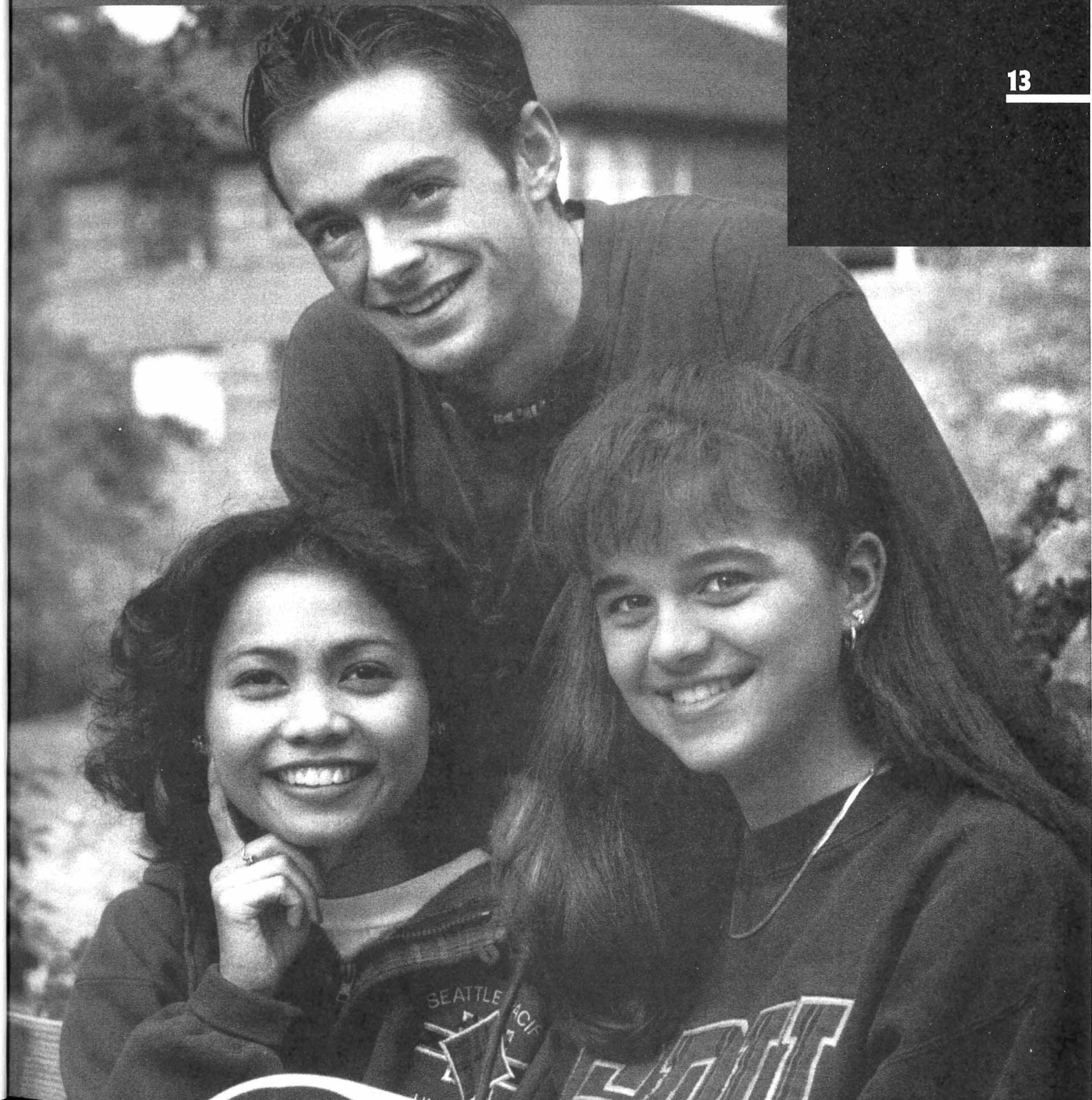
## Senior Citizen Program

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

Those wishing to apply work toward a degree must formally apply to the Office of Undergraduate Admissions. Non-matriculating students need only register at Student Academic Services.



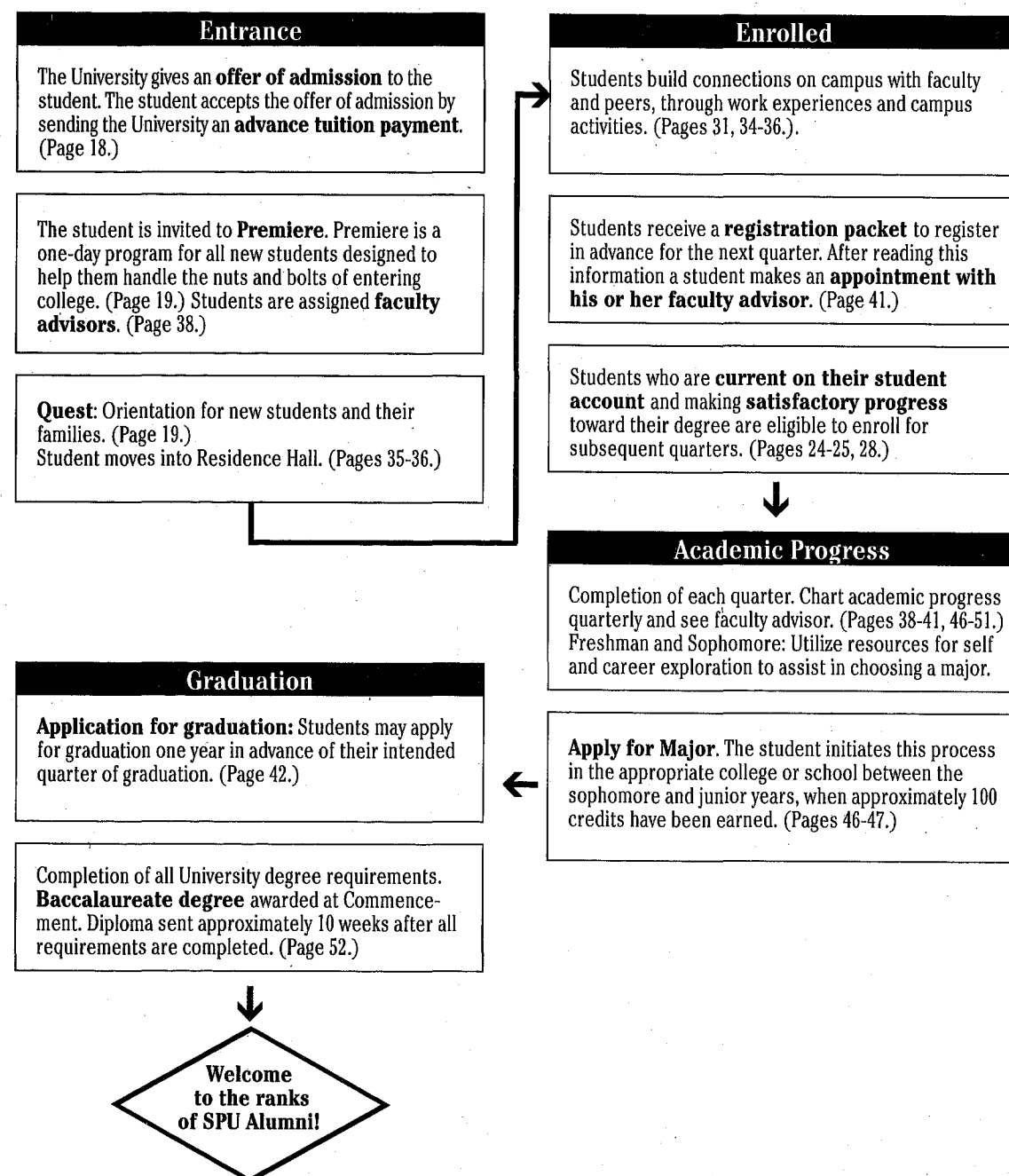
# Admissions



# What Happens Once a Student is Admitted?

## Progression From Admission Through Graduation

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



## Admissions

Seattle Pacific University admits students who exhibit the academic characteristics which predict their success in the University programs to which they seek enrollment and the personal qualities that indicate a contribution to the fulfillment of 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 below 2.5 or SAT-I/ACT scores below average. Admission to the University does not automatically constitute admission to the particular program or school in which a student wishes to study. Specific admission requirements are located in each academic program section in the Catalog.

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

### Application for Admission

#### General Instructions For All Applicants

Students 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.

Applications for admission must be received in Undergraduate Admissions at least one month prior to the beginning of the quarter for which a student wishes to enroll. The application deadlines for 1998-99 are:

To Be Admitted For:	All Materials Must Be Received By:
Autumn 1998	September 1, 1998
Winter 1999	December 1, 1998
Spring 1999	March 1, 1999
Summer 1999	May 1, 1999

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

Students desiring financial aid and scholarship consideration should file the Free Application for Federal Student Aid (FAFSA) with the Federal processor as soon as possible after January 1 and submit all application materials before March 1. Financial aid award decisions (scholarships, grants, loans, student employment) for students who meet these deadlines are processed beginning the second week of March. Further information and instructions for financial 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 seventh semester (first semester of the senior year) along with the \$35 application fee and the two required essays. Seattle Pacific University also accepts the uniform application for Washington State colleges and universities. An application supplement is required and is sent to all students who submit the uniform application.
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 counselors 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 student's high school counselor. The addresses for testing information are as follows: College Entrance Examination Board (SAT-I), Box 1025, Berkeley, CA 94701; American College Testing Program (ACT), P.O. Box 414 Iowa City, Iowa 52290. It is recommended that applicants take the SAT-I or ACT by January of their senior year.
4. Recommendations - Applicants should request an academic recommendation from a teacher or counselor familiar with their academic qualifications and a personal recommendation from a minister, youth leader, employer, or professional associate. (See forms with application materials.)

### Procedures for Transfer Students

1. Follow Steps 1, 2, and 4 listed above.
2. Send in official transcripts from all colleges previously attended.
3. 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.
4. All transfer students should review the Transfer Student section on the following pages for further information on SPU's transfer policies.

Transfer students are not required to provide ACT/SAT-I test scores for admission. However, official test scores are required for math proficiency test exemption. (See Placement/Proficiency Testing program).

### Early Action Plan For 1998-1999

High school and transfer students who have selected SPU as their first choice may be offered admission as early as October 1, 1997 for autumn 1998. Early Action students must apply for autumn admission by December 1, 1997 by submitting the Early Action Form and Application for Admission which are located in the SPU Catalog and the SPU Viewbook. The deadline for submitting application materials is March 1, 1998.

Early Action students are given first consideration for campus housing and financial aid provided they meet housing and financial aid application deadlines (See



## Admissions

Determining Residence Status and Financial Aid sections for details). In addition, SPU offers assistance to Early Action students as they make plans to enroll by providing discounted tickets to Senior Preview or Campus Preview, as well as a transportation allowance to attend one of these events. Early Action students may elect to visit the campus at a different time and will receive complimentary meals, housing on campus and an allowance for transportation to the campus. Contact Undergraduate Admissions for details.

**Washington State Running Start Program**

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

**Home Schooling**

SPU recognizes that greater numbers of students are 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 completion of high school graduation requirements. 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 highly recommended for Early Admission will be considered. Such students rank among the top students in their class with high aptitude test scores. Requirements include evidence of completion of junior year in high school, outstanding high school record and test scores, and a letter of recommendation from the high school principal approving early college admission. Evidence of high school completion (high school transcript with graduation date or GED) is required in order to receive financial aid. Contact Undergraduate Admissions for details.

**Advanced 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. If students believe courses may also fulfill major requirements, 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	5C	Fine Arts Core
Art-History	5	5C	Fine Arts Core
Biology	5	4A	BIO 2101 with a score of 4 or 5
Chemistry	5	4B	CHM 1211 with a score of 4 or 5
CSC-A	5X if AB not 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
Lang-Comp	3, 2X	2B	ENG 1105
Lit-Comp	5	5A	ENG 1110
His-Amer	5	3C	HIS 2502/2503
HIS-Europ	5	3C	HIS 1202
French-Lang	5	2A	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	4C	MAT 1225 with a score of 4 or 5
Math-BC	10	4C	MAT 1225, 1226 with a score of 4 or 5
Music-Lit	5	5C	Fine Arts Core
Music-Theory	5	5D	Fine Arts Core
Phy-B	5	4B	PHY 1101
Phy-C Mechan	5	4B	PHY 1121
Phy-C Electr	5	4B	PHY 1121
Psy	5	3B	PSY 1180
Spanish-lang	5	2A	SPN 1103
Spanish-Lit	5	5B	Lit Option

**CLEP/PEP**

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

**International Baccalaureate**

Students who complete the IB diploma or certificate in high school can receive college credit at SPU in their Higher Level subjects. Five quarter credits are granted to holders of IB diplomas or certificates for each higher level subject in which a grade of 5 or higher is earned. Further information is available in Student Academic Services.

**Transfer Student Information****Students Entering From Regionally or A.A.B.C. Accredited Colleges and Universities**

Students desiring admission to SPU from another regionally accredited institution or American Association of Bible Colleges (A.A.B.C.) accredited institution will follow the procedures for Transfer Students. All records submitted for admission become the property of SPU and are considered a part of the student's official file and permanent record.

Failure to submit transcripts from all institutions attended, including high school, may result in dismissal from the University. Advanced standing will be determined on the basis of the credentials submitted by the candidate. In every case, however, the following conditions will apply:

1. A transfer student must be in good standing at all prior institutions attended.
2. Transfer students who have successfully completed any number of college credits from an accredited institution at the time of application are not required to take the American College Test (ACT) or the College Board Scholastic Achievement Test (SAT-I).
3. It is the student's responsibility to ensure that final official transcripts reflecting coursework subsequent to admission are received by SPU. The absence of final coursework will affect the student's class standing, eligibility for financial aid and progress toward degree completion.
4. The average grade in all courses accepted for advanced standing from each school must be "C" (2.0) or higher. This means that for every grade of "D" accepted there must be another grade of at least "B" or its equivalent for an equal number of credits. Exception: For A.A.B.C. accredited institutions, no grade below "C" (2.0) will be accepted.
5. No more than 30 quarter credits earned via correspondence and/or media courses (e.g., cassette, TV, video)—inclusive of both residence and transfer credits—may be applied to a bachelor's degree. Exception: Existing Washington State community college associate degree transfer agreements will be honored as they apply to general education requirements.
6. A combined total of not more than 90 credits will be accepted from all two-year colleges, including unaccredited schools, AP, CLEP and I.B.. Existing Washington, Oregon and California community college associate degree transfer agreements will be honored as they apply to 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 one institution as well as non-credit courses are included.
8. An undergraduate transfer student is required to earn a minimum of 45 credits in residence at SPU including 15 upper-division credits in his/her major at SPU to be eligible for a degree. See individual majors for additional degree requirements.
9. A transferring student who holds a professional baccalaureate degree may be given senior or lower classification, depending on the specific circumstances.
10. One-credit courses, except physical education activity and applied music courses, ordinarily are not transferable.

**Students Entering From Regionally Unaccredited Colleges**

SPU welcomes transfer students from all institutions. While the absence of accreditation raises questions concerning the nature and quality of an institution's programs, SPU recognizes that institutions may not seek accreditation for a

variety of reasons related to mission, sponsoring entity requirements, etc. SPU will, therefore, review credentials from unaccredited institutions at the student's request. An official transcript and copy of the unaccredited institution's catalog must accompany a written request for review.

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

1. Only college-level academic courses will be transferred. Vocational, technical and practicum courses will be transferred only with faculty approval.
2. To be accepted a course must have a grade of "C" (2.0) or better.
3. Only courses of at least 2 quarter credits will transfer (except physical education and applied music).
4. The cumulative GPA of transferable courses must be 2.0 or better (on 4.0 scale).
5. Courses comparable to SPU general education categories or courses will apply to the appropriate GE categories.
6. A maximum of 10 credits in Biblical Literature courses may be accepted as elective credits only.
7. Application of credits to major requirements is a determination made by the individual discipline.
8. The maximum number of credits transferred, when combined with community college and advanced credit/testing programs, will not exceed 90.

Except as outlined above, the conditions for students entering from accredited colleges will apply. A student transferring from an unaccredited college may be required to present acceptable scores on either the College Board Scholastic Aptitude Test (SAT-I) or 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 discount. Students who have earned, prior to matriculation at SPU, an associate degree (Washington, Oregon and California community college transfer program or Central College, KS), are considered to have completed the general education (but not foundations) requirements, including the foreign language requirement, of SPU. All undergraduate transfer students, however, must participate in the Math Proficiency and English Placement testing program, and achieve required minimum scores or compensatory instruction. For possible exemptions, see Math and English Testing section.

SPU considers the foundations requirements to be at the heart of its approach to higher education. Therefore, each transfer student is expected to complete the 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 upon admission will complete the full 15-credit requirement.

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 Bible college, up to 5 credits may be granted in fulfillment of the Biblical Heritage requirement.

## Admissions

If Bible courses have been transferred from another accredited Christian liberal arts college which is not a member of the Coalition of Christian Colleges and Universities, up to 5 credits may be granted toward fulfillment of the Biblical Heritage requirement.

### International Students

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

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

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

1. Submit a TOEFL score of 550 minimum.
2. Have a cumulative grade point average for transferable academic credit of at least 2.5 on a 4.0 scale.
3. Provide an official confidential statement of financial support in U.S. dollars (such as an official bank statement) covering each year of intended enrollment.

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

Students may meet the SPU English proficiency requirement by completing the Advanced B level with grades of "A" or "B" and by receiving a full recommendation from the American Cultural Exchange Program (ACE) on the SPU campus. Students who receive a full recommendation from ACE are not required to submit a TOEFL score.

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

Students whose first language is not English and who wish to enter SPU directly from high school or to transfer from another institution must demonstrate English proficiency by submitting a satisfactory Scholastic Aptitude Test (SAT-I) Verbal score. If an SAT score is not available, students may substitute a TOEFL score of 550 minimum, or a satisfactory score from the Michigan Placement Test taken at the American Cultural Exchange (ACE) program on the SPU campus. Immigrants may also meet the SPU English proficiency requirement by completing the Advanced B level with grades of "A" or "B" and a full recommendation from ACE.

### To Accept an Offer of Admission

Students who have applied for admission will receive a letter notifying them of their eligibility approximately two to four weeks from the date all relevant information—application forms, transcripts, test scores and recommendation forms—is on file with Undergraduate Admissions. To accept an offer of admission, follow these steps:

#### 1. ADVANCE TUITION PAYMENT

A \$200.00 advance tuition payment is the student's acknowledgment of acceptance. This deposit should be submitted to the Office of Undergraduate Admissions. This guarantees a place in the entering class and allows the student to register for classes. This deposit is credited to the student's account and is applied toward the initial tuition payment. Advance tuition payment refunds are available if Undergraduate Admissions receives a written refund request before July 1 for Autumn Quarter, or 30 days prior to the beginning date of subsequent quarters.

#### 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 be mailed detailed housing materials, including information on the housing application process and room reservation deposit.

#### 3. HEALTH RECORD

Along with the notification of admission, each student will receive a medical health history form, to be completed and returned to Student Health Services. This medical history is required of students who are 1) entering SPU for the first time, 2) returning after an absence of more than one calendar year, or 3) have previously attended summer quarter but are entering regular University classes for the first time. Health insurance is available to all matriculated students enrolled for at least 9 credits. Insurance information is available in Student Financial Services.

### Application for Re-admission

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 they desire to re-enter. If the student has been away from SPU for less than two years, he/she may register for classes without completing paperwork for Undergraduate Admissions. Any 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 application and credentials must be submitted.

Undergraduate Admissions will inform the student if additional credentials need to be submitted. Admission will be governed by the policies regulating the admission of the level the student is reactivating under (a student who was admitted to SPU out of high school and is reactivating after attending another institution is now considered a transfer student).

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

### Disabled Student Services

The University assists with program access through a variety of services for students with disabilities. Any student requiring special assistance should contact the Director of Special Populations (Tiffany 100; 206/281-2247) 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 Quest

#### Premiere – Initial Advisement and Registration

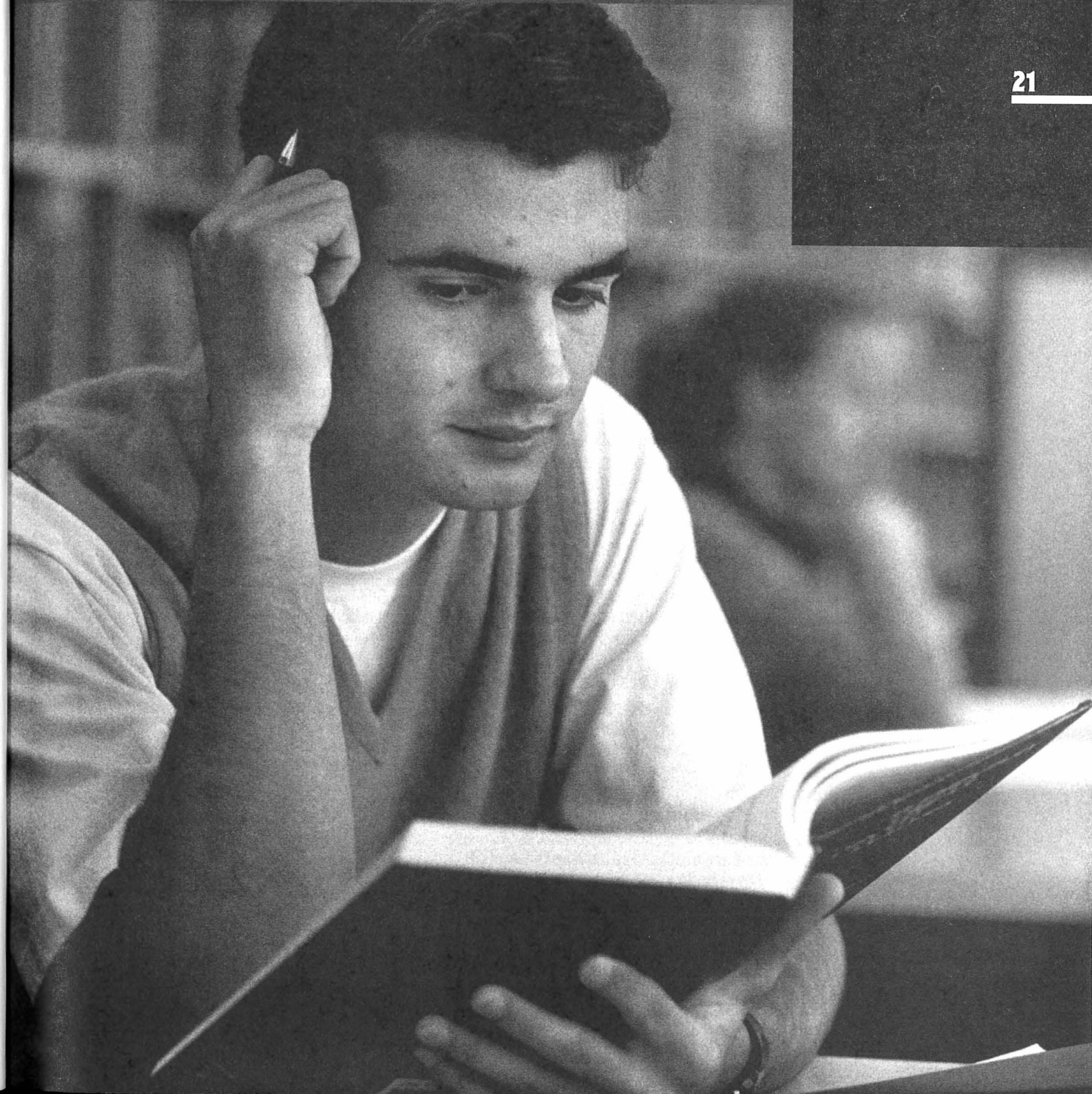
All new undergraduate students, including transfer students, receive initial advisement and register for classes as part of the Premiere program before the first quarter of matriculation. Premiere is a one-day program which provides students with the opportunity to confer with an advisor about the selection of classes, register for classes, receive an official university ID card, take the required English Placement and Math Proficiency tests and make financial arrangements. Once students have completed Premiere, they will be prepared to go through new student orientation, known as Quest.

#### Quest – Orientation of New Students and Families

New student orientation sessions are held each quarter. Autumn quarter orientation, Quest, includes four days of orientation to the academic and social community of SPU. Brief orientation sessions are offered winter and spring quarter. All of these sessions are designed to help new students 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 orientation is required and provides students with the essential information for a successful transition to university life.



# Costs and Financial Aid



# Costs and Financial Aid

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 recognized excellence without primary regard for personal remuneration; administrative staff who work continually to provide needed services with greater efficiency; and trustees, alumni, churches, and other friends of the University who provide necessary financial support.

All expenditures related to educational and support activities are carefully planned and budgeted. The trustees, president, and other administrators are committed to a high level of stewardship in the handling of all of Seattle Pacific's financial resources, with a goal of maintaining 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 the staff is to provide helpful, friendly service to all inquirers. It is the hope of Seattle Pacific that students will not only have exceptional educational experiences, but will also feel that same commitment to excellence and service throughout all of the support areas of the institution.

## 1997-98 Tuition and Fees

In addition to direct instructional costs, Seattle Pacific University's tuition covers a wide range of student and academic support services, including guidance services, social activities, membership in the Associated Students of Seattle Pacific (ASSP) and access to its programs. Other student benefits include admission to all University athletic events and participation in intramural activities. All tuition, fees, and other charges stated in this publication are payable in U.S. dollars (\$U.S.). The following charges may 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 1997-Spring 1998)

Per quarter for courses numbered 0000-4999

8 or fewer total credits, per credit .....	\$225.00
9-11 total credits, per credit .....	\$395.00
12-17 total credits .....	\$4,710.00
Additional per credit hour over 17 .....	\$395.00
Tuition for arranged courses .....	regular rates apply
Tuition for auditors .....	regular rates apply

### Advance Payments

Resident students .....	\$300.00
\$100 (room reservation deposit)	
\$200 (advance payment)	
(applied as a credit towards account)	
Commuter students .....	\$200.00
\$200 (advance payment)	
(applied as a credit towards account)	

Students taking fewer than 12 credits may elect not to pay an advance payment by paying in full at the time registration is submitted.

A full refund of the \$200 advance payment is available if Undergraduate Admissions receives the student's written request before July 1 for autumn quarter, or 30 days prior to the beginning date of subsequent quarters. Resident students who cancel their Room and Board contract with or without the approval of the Office of Residence Life before the contract period begins will receive \$50 of the room reservation deposit if canceled before July 1. The total \$100 room reservation deposit is forfeited if canceled after July 1.

### Special Instruction, Examination, Certification and Other Credit Fees

(For specific classes with fees, refer to the 1997-98 Time Schedule and/or revision listings.)

#### Music

Individual instruction fee	
1000-2000 level (per credit) .....	\$125.00
3000-4000 level for	
majors only (1 or 2 credits) .....	\$125.00
Piano class instruction fee (two periods weekly),	
per quarter .....	\$75.00
Voice class instruction fee (two periods weekly),	
per quarter .....	\$75.00
Theory lab fee, per quarter .....	\$25.00

#### Nursing

Nursing application holding fee .....	\$100.00
NLN Diagnostic Readiness Exam .....	\$35.00
Clinical practicum fee (selected courses),	
per credit hour .....	\$65.00

#### Teacher Education

Internship fee, per quarter .....	\$75.00
Penalty for late changes of internship .....	\$70.00

#### Faith Tradition in Western Cultures,

course fee .....	\$50.00
------------------	---------

#### Special Examination Fees

Rescheduled final exam fee, per course .....	\$60.00
Credit by examination or challenge fees:	
Per-course examination fee .....	\$100.00
Per-credit-hour fee .....	\$40.00

#### 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, with their applicable fees, are listed in the 1997-98 Time Schedule and/or revision listings.

#### Administrative and Special Fees

Application fee .....	\$ 35.00
If received after deadline .....	\$ 60.00
Matriculation fee* .....	\$ 50.00
Special handling fee: official transcripts .....	\$ 25.00
Late registration fee** .....	\$ 20.00
Official transcript fee .....	\$ 3.00
Teacher certification fee .....	\$ 25.00
Parking fee, per quarter*** .....	\$ 20.00
I.D. replacement card (includes temp) .....	\$ 15.00
Temp ID replacement card .....	\$ 3.00
ACCESS program fee .....	\$250.00

\*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 is assessed only once, at the time of an admitted student's initial registration. This fee covers the costs associated with maintaining students' academic files over the duration of their stay at Seattle Pacific. A student's academic file may contain admission records, transcripts and evaluations of the course work from other institutions, academic appeals, graduation checksheet, etc.

\*\* Students may register for evening courses (courses beginning at 4:30 p.m. and later) through the first class session; however, a \$20.00 late enrollment fee is charged when registration is completed after the first week of the 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 fee waived for interns the year they become certificated.

Registration fee .....	\$5.00
------------------------	--------

Mailing Credits: for prepayment of first-class file mailings:

One Mailing Credit .....	\$7.50
Two-four credits (each) .....	\$6.00
Five or more credits (each) .....	\$5.00

Education vacancy bulletins (weekly, first-class mailings and/or email job listings, from February through October)

Current students .....	\$7.00/mo. or \$15.00 for 3 consecutive months
------------------------	--

SPU alum .....	\$11.00 /mo. or \$25.00 for 2 consecutive months
----------------	--

Community .....	\$15.00/mo. or \$35.00 for 3 consecutive months
-----------------	---

Psychological testing (administration, interpretation, and counseling with regard to aptitude, skills, personality analysis, and placement) .....

.....	based on actual costs of materials and scoring
-------	--

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

.....	variable
-------	----------

Student Health Center services

Residential students .....	included in Room and Board charges
----------------------------	------------------------------------

Commuter students .....	\$7.50
-------------------------	--------

.....	per quarter on first visit
-------	----------------------------

Tests and pharmaceuticals .....	based on actual costs of materials
---------------------------------	------------------------------------

.....	
-------	--

.....	
-------	--

.....	
-------	--

.....	
-------	--

.....	
-------	--

.....	
-------	--

.....	
-------	--

.....	
-------	--

.....	
-------	--

.....	
-------	--

.....	
-------	--

.....	
-------	--

.....	
-------	--

.....	
-------	--

.....	
-------	--

.....	
-------	--

.....	
-------	--

.....	
-------	--

.....	
-------	--

.....	
-------	--

.....	
-------	--

.....	
-------	--

.....	
-------	--

.....	
-------	--

.....	
-------	--

.....	
-------	--

.....	
-------	--

.....	
-------	--

.....	
-------	--

.....	
-------	--

.....	
-------	--



made, insurance coverage will be in effect for the school 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 awards are in order so that students may meet the tour departure date. Study tours must be paid in full prior to departure.

Charges For Room and Board - Per Year

Traditional Residence Halls (Ashton, Moyer, Martson/Watson, Hill) residents must choose one of the following meal plans:

Platinum .....	\$5,498
Gold .....	\$5,349
Silver .....	\$5,202
Bronze .....	\$5,151

Non-traditional Residence Halls (Falcon, Davis apartments) may choose one of the following meal plan options:

	2-person and studio units	3, 4 and 6-person units
Platinum	\$6,183	\$5,600
Gold	6,114	5,531
Silver	6,102	5,497
Bronze	5,996	5,400
No meal plan	3,987	3,339

Rates for the Robbins apartments are slightly less. Other meal options available for non-traditional residents (cost in addition to no meal plan room charge):

Block 25 (provides any 25 meals) .....	\$137
Block 50 (provides any 50 meals) .....	248
Advantage Card (declining balance card, no sales tax) ...	25

Detailed descriptions of meal plans are mailed with the housing contract, or call the Office of University Services at (206) 281-2188.

The quarterly meal plan entitles a student to meals beginning with the evening meal the day residence halls open and ending with the evening meal of the last day of examinations. There will be no refund or adjustment for meals missed during the week or on weekends.

Meal service is not available during the Thanksgiving, Christmas, or spring break periods. For closures of residence halls during vacation periods, refer to the Room and Board Contract Guide.

Estimated University Expenses for  
1997-98 (Undergraduate - full time)

	Per Quarter	Per Year
Tuition	\$4,710	\$14,130
Room and Board (traditional dormitories)	\$1,806	\$ 5,418
Textbooks, supplies and transportation, average cost	688	2,064
TOTAL	\$7,204	\$21,612

Financial  
Arrangements  
and Services

Registration

SPU uses an information system (Banner) 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 enrollment process, registration materials are returned to 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 proper written notification is provided by either party (see 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, 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 the statement of account will also be mailed by Student 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 Offer of Financial Assistance to determine the proper amount due on their student account. It remains the student's responsibility, however, to see that proper payment reaches Student Financial Services by the payment due date. If students need assistance determining the proper amount due they should contact Student Financial Services to talk with a representative.

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

Payment Policies

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 full payment prior to the first day of classes, or make application 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 classes, or (2) use of the three month extended payment 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 extended payment plan option. If a student who chooses 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 register for subsequent quarters. All payments are to be made in U.S. dollars (\$U.S.).

Payment in Full

Students may meet their financial obligations each quarter by paying in full by October 10 for autumn, January 12 for winter, and April 10 for spring.

Three Month Extended Payment Option

If students choose this option, the total charges, after all financial aid\* is applied to the account, will be divided into three equal payments. In order to participate 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 1997

Application Deadline/First Payment .....	September 10, 1997
Second Payment .....	October 10, 1997
Third/Final Payment .....	November 10, 1997

Winter quarter 1998

Application Deadline/First Payment .....	December 10, 1997
Second Payment .....	January 12, 1998
Third/Final Payment .....	February 10, 1998

Spring quarter 1998

Application Deadline/First Payment .....	March 10, 1998
Second Payment .....	April 10, 1998
Third/Final Payment .....	May 11, 1998

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:

	Per Quarter	Per Year
Tuition - Autumn	\$4,710	\$14,130
Room and Board	1,806	5,418
Subtotal	6,516	19,548
Estimated financial aid* (example only)	(500)	(1,500)
Balance owed	\$6,016	\$18,048

	Option 1 Pay in Full	Option 2 3-Month Plan
September 10, 1997		\$25 set-up fee
October 10, 1997	\$6,016	\$2,030
November 10, 1997		\$2,005
		\$2,006

\*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 required and allows deferment of tuition up to approximately 30 days after the quarter ends. All other fees and charges are due when billed. Call Student Financial Services for more details.

Canadian Discount

A discount is available for families who are permanent Canadian residents and have not applied for financial aid (financial aid recipients are not eligible for the Canadian discount). The exchange rate is applied to the tuition, room and board charges, reducing the amount due. The calculation is made three weeks prior to the start of each quarter. Payment in U.S. funds is still required.

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 account. To avoid interest charges, payment must be made in adherence with the chosen payment option.

Unpaid Student Charges

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

On rare occasions, legitimate financial circumstances may warrant allowing students who have delinquent financial obligations to register for subsequent quarters before meeting those obligations. The following policy has been established regarding special permission to register for a subsequent quarter.

Prior to registering, the student will need to contact Student Financial Services to review the past-due amounts, specific circumstances, any financial aid information and the student's action plan for repayment. If the action plan is approved, the student may be required to sign a promissory note agreeing to the payment terms for the past-due balance of the account as well as any interest charges accruing on the past due balance.

In some situations, a co-signer (parent or guardian) may be required. If the terms of repayment are not met and delinquent amounts persist, disenrollment will take place, canceling the student's current registration.

In no event will a student be given special permission to register if the total amount delinquent exceeds one quarter's tuition, room, and board charges.

A continued failure to meet financial obligations may result in the referral of the delinquent account to an outside agency for collection of the total amount due, plus all 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 reserved by Student Academic Services and Student Financial Services to process enrollment materials and handle student payments.

A late registration fee of \$20.00 is charged if a student adds a course to their schedule of classes in Student Academic Services after the first week of the quarter (a week is defined as the first five days of classroom instruction). Currently-enrolled students are registered for a subsequent quarter in advance of new students. Dates for registration of both groups are publicized widely on campus and are also included in the official University calendar.

Students may register for evening courses (courses beginning 5:00 p.m. and later) through the second class session only, with the instructor's written permission and approval from Student Academic Services. A \$20.00 late registration fee will be charged when the registration is completed after the first week of the quarter.

Prepaid Accounts and Banking Services

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, funds 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 account 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 withdrawal requests should be sent to Seattle Pacific University, Student Financial Services, Seattle, WA 98119.

Commercial banking services are conveniently available to students. A bank is located on campus, adjacent to the University Bookstore and a cash machine is located in Weter.

Refunds and Account Adjustments

If a student decides to add or drop courses, withdraw from school, or delete other contracted services, an official change of registration form must be filed with Student Academic Services. If a complete withdrawal is contemplated, and/or if the student plans to cancel the residence hall contract, proper notification must also be provided to the Office of Residence Life (see the residence hall contract and the current *Student Handbook* for withdrawal procedures).

If a student does not provide proper written notification to the University, financial obligations will remain binding, regardless of whether classes were attended or whether or not any of the contracted services were utilized.

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

In the event that enrollment changes result in a refund, tuition will be refunded according to the schedule which follows. If the refund results in a credit balance on the account, the student may obtain a check by submitting a written request to Student Accounts. If there is an owing balance on the account, the refund will first be applied

against the owing balance. Any questions regarding tuition refunds should be referred to Student Financial Services.

Schedule of Tuition Refunds for Day and Evening Classes

(A week is defined as five business days beginning on the first day of regular classroom instruction.)

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

Examples: Tuition Refunds and Adjustments

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 credits drops one 3-credit course the second week of class. The refund is as follows:

Full tuition (13 credits) .....	\$4,710
Tuition for 10 credits (\$395 x 10) .....	3,950
Difference .....	760
75 percent refund .....	570
3. Assume the above student drops a 5-credit course the second week of class. The refund is as follows:

Full tuition (13 credits) .....	\$4,710
Tuition for 8 credits (\$225 x 8) .....	1,800
Difference .....	2,910
75 percent refund .....	2,182
4. A student who was originally enrolled for 11 credits drops 2 credits and at the same time adds 3 credits during the second week of class. The result is as follows:

Old level - 11 credits (\$395 x 11) .....	\$4,345
New level - 12 credits .....	4,710
Additional due .....	365
5. Assume the same facts as in (4), above, but done on separate days:

Drop 2 credits (11 to 9)	
Refund = 75 percent of \$395 x 2 .....	\$592
Add 3 credits (9 to 12)	
12 credits = .....	4,710
9 x \$382 = .....	3,555
Additional due .....	1,155
6. A student completely withdraws from all courses in the second week:

Full tuition 13 credits) .....	4,710
75% refund .....	3,532

Effect on Financial Aid

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

Drop in Credits

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

Complete Withdrawal

If, during a quarter, a student who receives financial aid completely withdraws from the University, the tuition refund is applied first to the student's financial 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 Federal Stafford Loan; subsidized Federal Stafford Loan; Federal Plus Loan; Federal Perkins Loan; Federal Pell grant; Federal SEOG, other Title IV Aid programs; other federal, state, private, or institutional aid; the student.

Room and Board/Room Refunds

Students who completely withdraw from University classes 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 .....	90%
Withdrawal during the second week of the quarter .....	75%
Withdrawal during the third week of the quarter .....	50%
Withdrawal during the fourth and fifth week of the quarter .....	25%

There will be 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.

A student who cancels his or her room and board contract before the contract period begins, will forfeit \$50.00 of the Room Reservation deposit if canceled before August 1 and will forfeit the total \$100.00 Room Reservation deposit if canceled after August 1.

Room and Board Cancellation Charges for Continuing Students

Students who cancel their room and board contract after the contract period begins, will be responsible for the room and board charges through the end of the quarter in which the contract was canceled. The student will also forfeit the \$100.00 Room Reservation deposit. No refunds are made for other charges of the University not specifically covered in this section.

Financial Aid

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

Guidelines

For need-based financial assistance, the contribution toward college costs expected from the student and his or her parents is calculated according to a federally-mandated system called need analysis, which takes into account many factors representing the family's financial situation. To the extent funds are available, the University will supplement the amount expected from the family with scholarships, grants, loans, or employment (singly or in various combinations) up to the amount of the student's documented financial need. The amount and source of assistance will be determined on the basis of available

funding and eligibility criteria for the various financial aid programs. To receive financial aid, a student must be enrolled for a minimum of 6 credits (courses numbered 0100-4999) per term in a program leading to an undergraduate degree or teacher certification from SPU. Media courses and courses numbered 5000-5999 are not eligible. Full-time enrollment (12 credits per quarter) is required for scholarship eligibility.

Application Process

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

1. Complete the admissions process.
2. 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 verify eligibility. The student must reapply for financial aid 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 application.
2. Complete the other requirements as specified under the scholarship listing.

Application Deadlines

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

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

The Financial Aid Offer

Generally, students qualifying for financial aid receive a financial aid package containing one or more of the following types of aid: grants, scholarships, loans, and student employment. 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 aid offer by returning the signed Offer of Financial Aid by the specified deadline.

Disbursement of Financial Aid

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



account in four ways:

1. SPU Grants and Scholarships, Federal Pell Grant, and Federal SEOG: This aid is automatically applied to the student's account.
2. Federal Perkins Loans, Nursing Loans and SPU Undergraduate Loans: Once the student has filled out the necessary papers and signed 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 participates in electronic funds transfer and the 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 student's account. If the bank does not participate in electronic funds transfer, it will send a check each quarter that the student will need to endorse in Student Financial Services.
4. Washington State Need Grant and the Educational Opportunity Grant (EOG) are disbursed via check which is available for the student to pick up in Student Financial Services on or after the first day of the quarter.

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

### Satisfactory Progress

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 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 of 80% of the credit hours attempted at SPU. Students averaging 80% satisfactory completion of credits attempted will be eligible to be considered for financial aid. Current financial aid recipients must satisfactorily complete a minimum of 80% of all attempted credit hours each academic year. For normal academic progress, full time undergraduate students are expected to complete an average 12 credits per quarter. At this rate, a student is expected to complete an undergraduate degree in five years. Part time students enrolled in an undergraduate degree or certificate granting program must complete a minimum of 6 credits per quarter or 80% of attempted credits, whichever is greater. Graduate students must complete a minimum of 4 credits per quarter or 80 percent of all attempted credits, whichever is greater. The

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 the end of the academic term.

### Maximum Time Frame

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

### Consequences of Unsatisfactory Progress

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

A student who completes less than 6 credits in any quarter will be ineligible for further financial assistance. To regain eligibility for financial assistance the student must complete enough credits to bring them into compliance with the 80% completion rate.

### Petitions for Reinstatement of Eligibility

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

### 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 to the length of time the student was in school. See the Refunds and Account Adjustments section of the Catalog for details.

### Veterans' Benefits

SPU is approved by the Higher Education Coordinating Board to offer educational assistance to matriculated students who qualify for veterans' benefits. These benefits may not be given for media courses. To be certified to receive benefits, students should contact the veterans' coordinator in Student Academic Services.

## Kinds of Aid 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 about these programs is available in Student Financial Services.

**Seattle Pacific University Merit Fellowships** are awarded to entering freshmen selected on the basis of demonstrated exceptional academic ability who have been identified as National Merit Semi-Finalists or Finalists. Recipients are approved by the President and the Board of Trustees. Renewable.

**Seattle Pacific University Free Methodist Scholar Award** is awarded to an entering freshman based on academic achievement; demonstrated church, school, and community involvement; and affiliation with the Free Methodist Church from one of the supporting conferences. Renewable.

**Trustee Scholar Awards** are awarded to entering freshmen on the basis of academic excellence. Renewable.

**ROTC Academic Achievement Awards** are awarded to selected students who are awarded an Air Force or Army ROTC academic scholarship. Renewable. Contact Student Financial Services for application procedures.

**Presidential Scholar Awards** are awarded to entering freshmen on the basis of academic excellence. Renewable. **Presidential Transfer Scholar Awards** are awarded to transfer students on the basis of academic excellence. Renewable.

**Provost Scholar Awards** are awarded to entering freshmen on the basis of outstanding academic achievement. Renewable.

**Provost Transfer Scholar Awards** are awarded to transfer students on the basis of outstanding academic achievement. 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 on the basis of academic achievement. Renewable.

**Dean's Transfer Scholar Awards** are awarded to transfer students on the basis of academic achievement. Renewable.

**Valedictorian Scholarships** are awarded to entering 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 the Washington State Higher Education Coordinating Board. Renewable.

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

**Fine and Performing Arts Scholarships** are awarded on the basis of audition before the fine arts faculty to students who demonstrate outstanding talent and promise. Contact the Fine Arts Department for further information.

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

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

**Athletic Scholarships** are awarded by Athletics in men's soccer, women's gymnastics and volleyball, women's and men's basketball, cross-country, and track. Contact the Athletics Office for further information.

**Ministerial Scholarships** are awarded to dependents of full-time, ordained pastoral ministers or missionaries from the United States or Canada. Contact Student Financial Services for application information.

**Alumni Scholarships** are awarded to dependent, undergraduate children of Seattle Pacific University graduates. Contact Student Financial Services for application information.

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

**SPU-Church Matching Scholarships** will be awarded up to \$500. Churches must be approved by Student Financial Services and must provide that office with a letter of confirmation for each scholarship awarded by September 1. Contact Student Financial Services for further information.

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

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

**Federal Pell Grants.** This federal program provides grants to qualified students from moderate to low income families.

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

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

University funded scholarships and grants are not available during the summer session. In some cases, federal aid programs are available.

## Other Scholarship Funds

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

Ackerley Merit Award  
Alpac Scholarship  
Arthur Andersen and Company Merit Award  
Sophie Anderson Trust Fund  
Harry and Lois Ansted Scholarship  
Philip Ashton Scholarship  
Lowell Berry Memorial Scholarship  
Harold and Lois Best Scholarship  
Tony and Thelma Bettencourt Scholarships  
Ned Bohrer Memorial Scholarship  
Brohamer Nursing Scholarship  
Robert W. Burwell Engineering Scholarships  
Callen Missions Scholarship  
Campus Life Scholarships  
Carpenter Scholarship



Cascade College Alumni Scholarship  
Causey Biology Scholarship  
Causey Theatre Scholarship  
Chapman-Stewart Scholarship  
Ben Cheney Scholarship  
Chevron, USA Merit Award  
Custom Business Systems, Inc., Scholarship  
Deffenbaugh Electrical Engineering Scholarship  
Trina Marie Deffenbaugh Nursing Scholarship  
Dietzman Scholarship  
C. Dorr Demaray Scholarship  
Deshazer Scholarship  
Kim Drone Scholarship  
Winifred Rhoades Emmanuel Music Scholarship  
Ethnic Diversity Scholarship  
Falcon Athletic Scholarship  
Farmers Insurance Group Scholarship  
First Interstate Bank Scholarship  
Charles Fogg Scholarship  
C. Melvin Foreman Scholarship  
Charles and Pearl Foster Scholarship  
Class of '39/Wellspring Scholarship  
Clayton E. Gibson Scholarship  
Bertha Gilbertson Music Scholarship  
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 Scholarship  
Irwin Engineering Scholarship  
Larry Issak Scholarship  
Matthew Kelley Scholarship  
Dorothy Kennedy Scholarship  
Dorothy Kennedy Wellspring Scholarship  
Kirkpatrick Scholarship  
Sarah Louise Knight-Wimpy Scholarship  
Kreider Home Economics Scholarship  
Michael K. Lake Classical Guitar Scholarship  
Arthur and Gloria E. Langer Scholarships  
Harriet and Winifred Leighton Music Scholarships  
Le Master Nursing Scholarship  
Lemcio-Philipchuk Scholarship  
Lesser Nursing Scholarship  
Catherine Loomis Scholarship  
Margaret McCarty Scholarship  
McClurg Vocal Performance Scholarship  
David L. McKenna Scholarship  
McNeese Athletic Scholarship  
Alice C. Marston Scholarship  
Merrick Scholarships  
Otto M. Miller Physics Scholarship  
Miller/Wellspring Scholarship  
Milliken Teachers Scholarship  
Minority Student Leadership Scholarship  
Morgan Engineering Scholarship  
Burton Moyer Scholarship  
Native American Youth Scholarship

Lloyd E. Northrup Jewish Student Scholarships  
Northrup Scholarship  
Nursing Leadership Scholarship  
Professional Nurses Traineeship Grants  
Harold and Alba Overland Scholarship  
Pacific Coca-Cola Scholarship  
Peat-Marwick Scholarship  
Earl Phillips Scholarship  
Ellen Joyce Pinnt Religion Scholarship  
Rearick Theatre Scholarship  
Registered Nurses Scholarship  
Catherine M. Richey Memorial Scholarship  
Richards Teacher Education Scholarship  
Robichaud Scholarship  
Clifford E. Roloff History Scholarships  
Rosser-Danielson Speech Scholarship  
Lawrence R. Schoenhals Music Scholarship  
Mildred M. Schoenhals Music Scholarship  
Sigma Rho Scholarship  
Sheard Alumni Falconette Scholarship  
Ken Smith, Sr. Computer Science Scholarship  
Marge Snyder Memorial Nursing Scholarships  
Sternberg Athletic Scholarship  
Stundon Memorial Fund  
Margaret Sutton Scholarships  
Roy Swannstrom Centurion Scholarship  
Robert L. Taylor Memorial Scholarship  
Alfred A. Thorn World Missions Scholarship  
V. W. Thuesen Trust Fund  
Tollefson Minority Scholarship  
Vereide Memorial Scholarship  
Walters Nursing Scholarship  
Washington Auto Dealer Scholarship  
Washington Mutual Great Teacher Scholarship  
Robert L. and Buelah N. Whitlow Scholarship  
Wimpy Scholarship  
Howard M. Winegarden Engineering Scholarship

Loans

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

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 at least sophomore standing are eligible for loans to assist in meeting their educational expenses. Loans carry a simple interest rate of 5% and are repayable over a 10 year period, beginning nine months after completion of the course of study.

**Federal Stafford Loans** (subsidized and unsubsidized). These loans are made through banks, savings and loan associations, and credit unions. Any student is eligible to apply who satisfies the eligibility requirements as established by the United States Department of Education.

**Parent Loan for Undergraduate Students (PLUS).** Parents of dependent undergraduates can borrow money through lenders to help supplement educational costs. The PLUS Loan has a variable interest rate not to exceed 10% annual rate. Arrangements can be made with some lenders to have payments deferred. Contact Student Financial Services for more information.

**SPU Undergraduate Student Loan Program.** This program, sponsored by SPU, was created to provide assistance to needy students. Specific information about the program, student eligibility criteria, and application forms are available in Student Financial Services.  
**Emergency Short Term Loan Funds.** Loan funds exist from which, under emergency conditions, limited amounts of money may be borrowed for up to 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 part-time employment opportunities. This job service is available to all SPU students, whether or not they are financial aid recipients.  
Both work-study and non work-study jobs are posted outside Student Financial Services and on SPU's Web page (see Financial Services and Transactions). Once employed, the student will complete time sheets and receive payment from the Student Payroll Office if they work on campus and payment directly from their employer if they work off campus. It is the student's responsibility to make payment on his/her student account from these funds if so needed.

Work-Study Programs

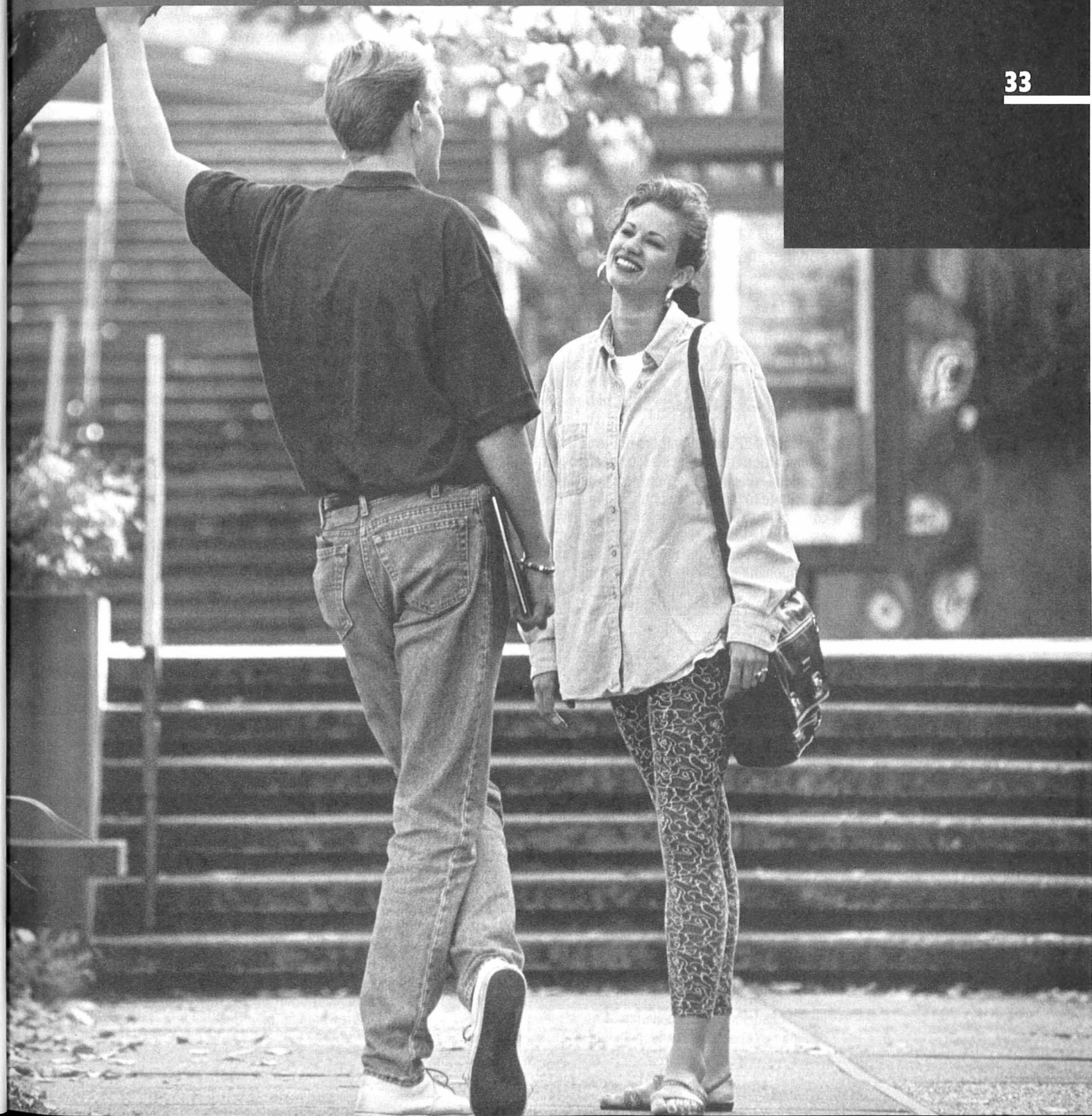
SPU is a participant in both the federal-and state-sponsored work study programs, whereby students may be employed in an approved job on or off campus. In order to participate in a work-study program, a student must demonstrate financial need and be awarded work-study as a part of the financial aid award. Department of Religion majors are not eligible to participate in the state work study program, but may be employed through the federal work study program. Students who have been awarded work study are also eligible for employment in community service positions with schools and agencies who assist at-risk youth, the homeless, and the elderly.

**Campus Work** - Several hundred on-campus jobs are available to SPU students. Positions are available for students with financial need and to those who do not qualify for financial assistance.

**Off-Campus** - An off-campus employment service is also maintained by Student Financial Services. This service is available to all SPU students, whether or not they are financial aid recipients.

Information about current part-time work opportunities is available at Student Financial Services and on SPU's Web page (see Financial Services and Transactions). Students needing assistance in locating part time employment are encouraged to check with the student employment coordinator in Student Financial Services.

# Student Life





# Student Life

A complete understanding of education recognizes that learning occurs both in and out of the classroom. At SPU there is a strong commitment to academic discipline through the study of literature, business, science and the arts. We also value the personal and community experiences that enhance our capacity to love; we seek to develop an understanding of integrity and justice. These qualities, along with the ability to work hard and learn, are an integral part of SPU's model of education. The Office of Student Life is dedicated to fulfilling and enriching the goal of SPU by providing educational services and opportunities which develop women and men committed to wholeness through scholarship, leadership, service, and excellence in all endeavors.

## Community Expectations

Students of SPU are members of the SPU community. All communities (families, cities, companies) expect that their members will uphold certain standards of behavior and contribute to the welfare of the group in specific ways. The community expectations of the Seattle Pacific community, explained below, are standards of behavior which reflect the University's commitment to its Christian philosophy of education in the context of a Wesleyan heritage.

Christian institutions, like Christian individuals, are guided 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 being of all students. *It is important to remember that admission to the University is contingent upon a student's agreement to abide by these expectations. These behavioral expectations are outlined here in the Catalog and more thoroughly explained in the Student Handbook.*

In keeping with community expectations and to ensure a spirit of Christian community, the University does not permit students to: (1) violate local, state or federal laws; (2) participate in activities 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 or non-prescription drugs; (5) participate in acts which involve gambling or dishonest behavior; (6) participate in acts which involve racial, sexual and/or other forms of harassment. Students participating 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 redemptive procedure with application of the principles of due process. In order to maintain an effective Christian witness, students are expected to avoid questionable practices of 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 has a diversity of options, including morning chapels, faculty-led small groups, urban ministry, special forums, reflection retreats, and more. *All full-time undergraduate students (12 credits or more) are required to earn 15 chapel/forum credits per quarter.*

A student's signature on the application for admission signifies an agreement to support and conform to the social standards of SPU. Non-matriculated students admitted to special programs of the University are expected to acknowledge these goals by maintaining the social standards of the institution while on campus or while involved in University related activities.

## Programs and Services

The following programs and services are designed for students to make the most of their education.

### Campus Life

The Office of Campus Life is dedicated to enhancing the community life at SPU. In conjunction with student organizations and University departments the Office of Campus Life:

- builds lasting relationships, collaborative partnerships and a sense of responsibility to the community,
- creates dynamic curricular and co-curricular opportunities including leadership training and advising,
- sponsors social, educational and cultural programming to build understanding for different lifestyles and cultures,
- encourages students to find innovative solutions for problem solving and conflict resolution,
- provides campus communication and information services, and
- articulates and implements University policy.

### Campus Ministries

As a Christian University, SPU makes a deliberate attempt to promote the intellectual, spiritual, and social growth of all members of its community within a framework of Christian faith. The first of the educational goals of the University is "growth toward mature Christian faith." Thus, as a part of our educational mission and philosophy, the University seeks to involve students in activities both in and out of the classroom which will expose them to a worldview and lifestyle informed by Christian faith. These include chapels and convocations, lecture series, residence hall fellowships, opportunities to work with less fortunate people in our city and around the world, participation in the activities of a local church, and many other events which may be helpful to a student's growth in faith.

The Office of Campus Ministries sponsors both on-and off-campus programs promoting such growth. **Chapel/Forum** is an opportunity to share in various forms of worship and learning and to hear guest and faculty speakers, musical concerts, and to participate in student-led gatherings. Chapel attendance is required of all full-time undergraduate students. Further explanation of this requirement can be found in the *Student Handbook*.

**Small groups** that explore Christian faith in community exist for the resident and commuter student alike. **Student Ministry Coordinators** are students who are selected to help facilitate 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 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 options can be found in the *Student Handbook*, and other publications distributed by the Office of Campus Ministries.

### Career Development Center

The move from college to career represents a transition of major importance. The goal of the Career Development Center is to help SPU students make effective choices, 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 is 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 business, TV, broadcasting, public relations, social service and recreation.

Job search assistance is provided on topics such as resumé writing, interviewing skills and job search strategies as well as through individual counseling. An on-campus recruiting program brings representatives from national and local companies, government and non-profit agencies, and school districts to campus to interview students. Job listings are available in notebooks in the Career Resources Library and are listed in campus newsletters. A comprehensive placement file system is maintained for School of Education graduates.

A cornerstone of SPU's Career Center services is our Student Career Connection program which is designed to foster relationships between students and SPU alumni or other professionals in the student's area of career interest. Full-time students may apply for the Student Career Connection program anytime during their tenure at SPU. They will be matched with a "career mentor" to talk with them about the realities of the career they are considering.

### Center for Special Populations

The Center for Special Populations offers services and support for international and ethnic minority students as

well as returning adult learners. Center staff promote campus awareness on issues of diversity by offering programs like Martin Luther King Chapel, Native American Week and International Week. All students are invited to learn more about cross-cultural and individual differences by participating in cadres, seminars and fellowship activities.

Center staff also coordinate a variety of services for students with learning and other disabilities to promote academic and co-curricular program accommodations. Any otherwise qualified student with a disability requiring special assistance should contact the Center for Special Populations (Tiffany Hall 100; 206/281-2475) to make arrangements for an intake interview and to determine the level and type of services needed. Students are required to provide documentation of the nature of their disability to qualify for service and academic accommodations.

Academic learning services for all undergraduates are provided by the Center through classes, seminars, tutoring and consultations. Many students participate in the ACCESS program which provides individualized academic monitoring, support and advising. For more information on ACCESS see page 10.

### Watson Center - Counseling and Health Services

The Counseling Center, staffed by mental health professionals, provides educational programs, personal development counseling and psychological testing to help students deal with the fears, guilt, issues and struggles they may face as they grow toward a balanced, healthy life. Additional programs and services in health and wellness are provided through Health Services, staffed by medical professionals committed to physical as well as emotional and spiritual well-being.

## Residential Life

SPU takes pride in the fact that their education program goes beyond the classroom by providing experience in community living through on-campus housing.

SPU provides housing for approximately 1,200 undergraduate students in traditional and non-traditional settings. The traditional halls vary in size from 120 to 400 residents. These halls are typically divided into floors containing two-person rooms, common bathroom facility and in most cases, a floor lounge. All rooms are supplied with single beds, mattresses, desks, dressers, chairs, a telephone, television cable service and internet access. Non-traditional halls are University-owned apartments for two or four students and include kitchens. Returning students are given priority for living in these apartments. Traditional residence halls are closed during the vacation periods as indicated in the residence hall contract.

Limited housing is also available for graduate students and families. Two guest housing units are available at a minimal cost on a first-come, first-served basis for family or friends visiting students.

### Campus Dining Services

All students who reside in traditional halls contract for one of four flexible meal plans. In addition to offering continuous service and unlimited meals, the plans entitle participants to points that may be used in the board dining

room, the snack bar, the convenience store or espresso cart. Meal plan options are also available for the non-traditional resident, commuter student, faculty and staff member.

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 plan entitles a student to meals beginning with the evening meal the day residence halls open and ending with the evening meal on the last day of examinations.

### Determining Residence Status

SPU has a commitment to a residential learning community. For that reason, all undergraduate students enrolled for 9 or more credits are required to live on campus unless one of the following applies: The student lives at home with parents, legal guardians or spouse in the Seattle area; the student is 21 years of age or older; or the student has achieved senior status (completed 135 SPU credits or transferable credits).

Infrequent exceptions to this policy are made if unusual circumstances warrant such a decision. Students who believe they have circumstances warranting special consideration to live off-campus must gain approval from the Office of University Services by completing an Off-Campus 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 the subsequent academic year.

Further information regarding housing and food service is available through the Office of University Services, (206) 281-2043.

### 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 in the residence halls must complete the Campus Housing Application and submit it with the \$100 Room Reservation Deposit. Room assignments are made according to a priority system which includes the date on which the Campus Housing Application and the advance payment are received by the University. Prompt application generally guarantees the best selection of residence hall space.

## Intercollegiate Athletics

The mission of intercollegiate athletics at SPU is to prepare student-athletes for dynamic Christian living, leadership and dedicated service by the integration of Christian principles and values through physical performance, while participating in intercollegiate sport at the highest level possible.

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 the person is more important than the program.

The intercollegiate athletic program offers opportunities for students to compete in several sports. As members of the NCAA Division II, the Falcons field intercollegiate teams in the following sports: men's and women's basketball,

crew, cross-country and track and field; men's soccer, women's gymnastics and volleyball.

The Falcons have enjoyed outstanding regional and national success over the years and compete against NCAA Division I universities as well as local NAIA schools while they compete for championships in NCAA Division II.

### The Intramural-Recreational Sport Program

A comprehensive program of intramural competitions and recreational sports activities is available for all students. These include organized tournaments, small group instruction, and free play. Recreational facilities are open to students seven days a week during the academic year. Clinics are available during the first week of an intramural season. For credit, a student must attend all clinic sessions and participate on an intramural team. Call (206) 281-2881 for further information.

## Ombudsperson

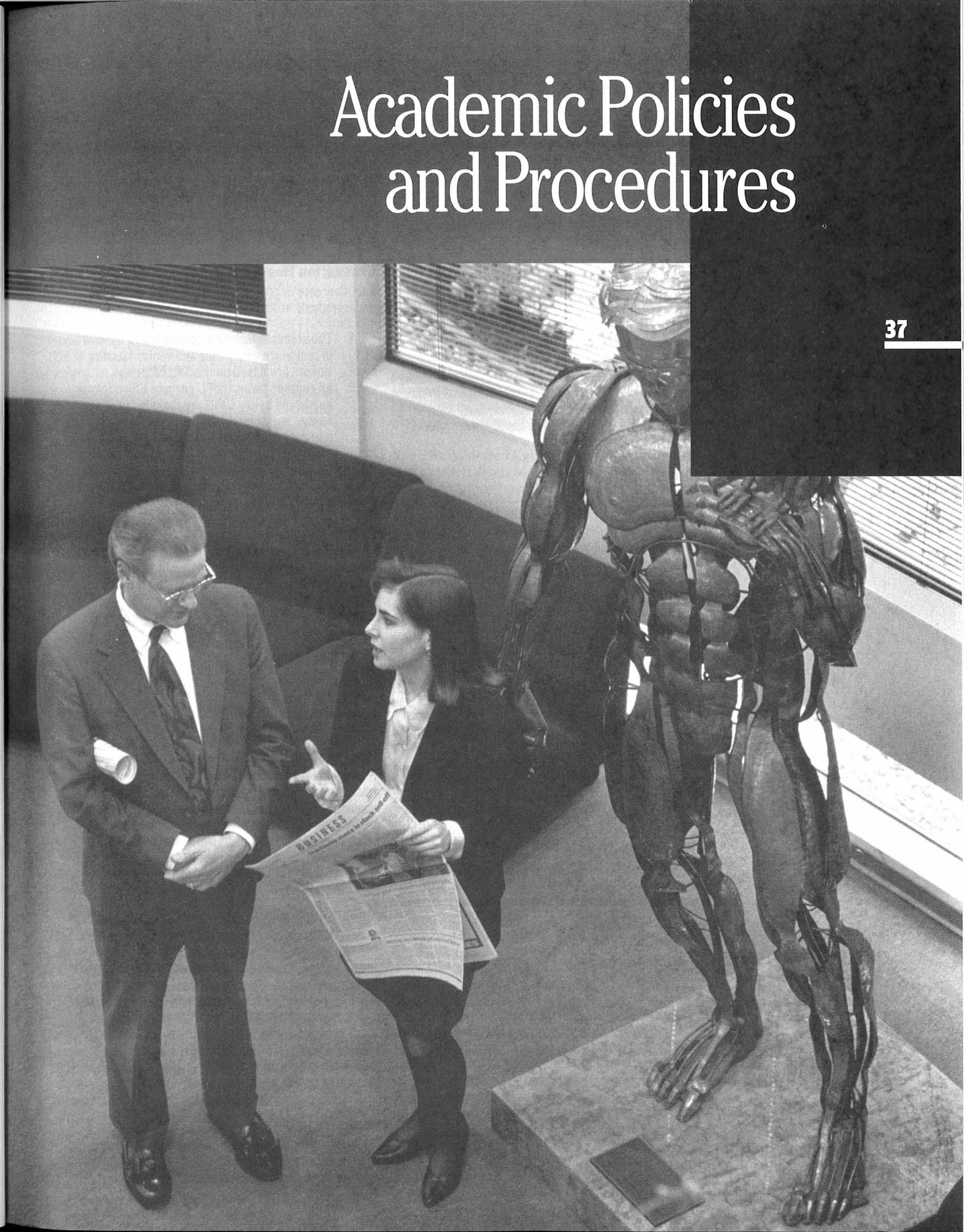
The service of an Ombudsperson is available to all students to assist in the resolution of problems and to enable the Seattle Pacific community to better meet students' needs. Working together with University staff and the student, the Ombudsperson seeks to expedite communication to solve problems. The individuals serving 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 of appeal within any office or area of the University. This process is outlined in the Student Handbook. To appeal a decision to an Ombudsperson, a student must first complete the office or area process of appeal. This process is typically a written appeal to the department head, the director or an appeals committee within the office or area.

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

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

# Academic Policies and Procedures





# Academic Policies and Procedures

## Faculty Advising: Key to Successful Academic Experience

One of the primary factors contributing to a successful academic experience is the positive relationship built between students and faculty. Faculty advisors reach out to students to assist them through the University system and to enable them to fulfill their educational goals. Students have the responsibility of seeking out their faculty advisor for assistance in clarifying goals, exploring areas of interest, and selecting classes each quarter. *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 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 advisor who assists students in clarifying goals and exploring areas of interest. 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 interests. Advisor change request forms are available in Student Academic Services and in school and department offices.

## Undergraduate Academic Services

Every student is assigned a counselor in Student Academic Services who follows a student's progress from admission through graduation and works closely with that student's faculty advisor to ensure students make appropriate progress toward graduation. These counselors evaluate transcripts of transfer students as well as SPU student records. When a student applies for graduation, counselors and faculty advisors will consult with one another to confirm the student has completed all necessary requirements.

## Standards of Scholarship

### Emphasis on Scholarship

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

## Academic 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: E, NC, I, N or O (blank, no grade submitted). However, once the temporary grade of N, I or O has been replaced by the grade earned, honors may be awarded to qualified students.

### Graduation Honors

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

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

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

Students must meet the graduation application deadlines to have honors appear in the commencement program. Graduation honors are computed for the commencement program on the basis of work completed through winter quarter for spring quarter graduates. *Students who complete degrees during summer quarter are not eligible for recognition until completion of all degree requirements.*

Honor	Grade Point Average
cum laude	3.50-3.74
magna cum laude	3.75-3.89
summa cum laude	3.90-4.00

### The President's Citation

The President's Citation is awarded each year to the graduating senior who has demonstrated distinguished academic achievement in the context of a Christian liberal arts program. To be eligible for this award, the student must have taken all 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 make an outstanding contribution in upholding and promoting the standards and ideals of the University and who show an enthusiasm for good scholarship, character development, and extracurricular activities may be eligible for election to the honor society Alpha Kappa Sigma. This honor society has chapters in all the colleges of SPU's sponsoring denomination. During their senior year, candidates are recommended by an academic policies committee and elected by vote of the faculty.

### Honoraries

The Ivy Honorary, a chapter of National Mortarboard, Inc., selects students for membership at the end of their junior year who have distinguished themselves through

scholarship, leadership and service. Other SPU honoraries include Centurions (men's service honorary), Falconettes (women's service honorary), Order of the S (athletics), Sigma Beta Delta (business), Pi Kappa Delta (speech), Alpha Psi Omega (drama), Mu Phi Epsilon (music), Lambda Iota Tau (English), and the Servant Scholar of the Year (Student Life).

## Who's Who in American Colleges and Universities

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

## Academic Integrity

As a part of the Seattle Pacific community, students are expected to exhibit academic integrity. The University expects students to set high standards for themselves and to constantly strive towards doing their best work. Seattle Pacific does not permit dishonesty, such as cheating, plagiarism or other academic misconduct. Both the student and instructor have obligations to report and prevent academic misconduct. In the event academic misconduct is suspected by the instructor, the guidelines on academic integrity printed in the *Student Handbook* will be followed.

## 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 such period of regular class work. The SPU "credit" is a "quarter" credit and is equal to two-thirds of the "semester" credit in use at some institutions. (For instance, 45 quarter credits are equivalent to 30 semester credits.) It is expected that students will spend at least two 50-minute periods of work outside the classroom for each 50-minutes in class.

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

12-17 credits	Full-time
9-11 credits	Three quarter time
6-8 credits	Half-time
1-5 credits	Less than half-time

**Permissible Academic Load.** The term "academic load" refers to the schedule of studies for which the student is registered. Twelve to 18 credits are considered a regular academic load for undergraduate and post-baccalaureate students. Although summer quarter consists of more than one session, to be considered full-time a student must be registered for at least 12 credits within the entire summer quarter.

By special permission from the University Registrar, undergraduate and post-baccalaureate students who maintain a high scholarship standard may be permitted to register for as many as 20 credits. Under no circumstances will any student be allowed to register for more than 20 credits including physical education and all fractional credits. It should be noted that there is an additional tuition charge for 18 or more credits. Courses taken concurrently

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

Outside Work Per Week	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 eligible to be rated for scholarship honors. To participate in some extra-curricular activities, students must maintain a satisfactory cumulative grade point average. Consult the Office of Student Life for specific requirements.

**Specific Athletic Eligibility.** Except for participants in men's basketball, women's basketball and volleyball, a freshman must be currently registered for 12 credits and must have passed at least 12 credits the previous quarter. A person in his/her fourth quarter must have a 1.75 GPA, either cumulatively or for his/her previous quarter. From the fifth quarter on, a student must have a 2.0 GPA, either cumulatively or in his/her previous quarter.

Freshmen in men's basketball and women's basketball and volleyball must also be currently registered for at least 12 credits and must have also passed 12 credits the previous term. However, from the second quarter on, these athletes must have a 2.0 GPA, either cumulatively or in the previous quarter.

## Academic Probation

An undergraduate student attempting 6 credits or more at SPU will be placed on first quarter academic probation when his or her cumulative grade point average first falls below a 2.0. Once on probation, any student who earns a quarterly GPA of 2.4 or higher, yet fails to raise the cumulative GPA to 2.0 or above, will be put on probation hold; once placed on probation hold, the student retains the same probation status as held the previous quarter, but does not move toward dismissal. The second consecutive quarter the cumulative GPA remains below 2.0 and the quarterly GPA is below 2.4, the student will be placed on second quarter academic probation; the third consecutive quarter the cumulative GPA remains below 2.0 and the quarterly GPA is below 2.4, the student will be dismissed from the University. The academic dismissal will be noted on the student's academic record.

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

A student dismissed from the University may appeal to the Academic Probation Committee for reinstatement

through the University Registrar. If an appeal is denied, a student may appeal again after the lapse of one year. Once reinstated, the student's GPA is the same as when dismissed; the student may not use grades from other colleges and universities to raise the SPU GPA. A reinstated student may not enroll for more than 13 credits in the quarter in which the student is reinstated. A reinstated student will be dismissed if he or she fails to attain either a quarterly GPA of 2.4 or higher or a cumulative GPA of 2.0 or above by the end of the first quarter that person returns.

If a student on academic probation leaves the University, that person resumes the same probation status upon returning as when leaving. The student is removed from probation at the end of the quarter in which a cumulative GPA of 2.0 or better is achieved. A senior will not receive a degree until he or she is removed from academic probation.

## Grading System

### Grades and Points

Except in cases of clerical error, no instructor may change a grade which he/she has submitted to Student Academic Services. The quality of a student's performance in a course is recognized by a letter mark or grade 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 give the student 20 grade points. These points express the quality of a student's performance in terms of numbers for the purpose of determining scholastic achievement, and individual and graduation honors.

### Grade Point Average

A student's grade point average (GPA) is determined by dividing the total number of grade points earned during a given period by the number of credits for which the student was enrolled and for which he/she received a regular grade during the same period. For example, if a student earns 45 grade points during a quarter in which he/she is enrolled for 15 credits, his/her GPA for the quarter will be 3.0.

Grade	Points	Explanation
A	4.0	Excellent Attainment
A-	3.7	
B+	3.3	
B	3.0	
B-	2.7	
C+	2.3	Highly Satisfactory Attainment
C	2.0	
C-	1.7	
D+	1.3	
D	1.0	
E	0.0	Satisfactory Attainment
Au		
P		
NC		
I		
N		Insufficient Attainment but with credit allowed
G		
W		

### Use of I, N, G, W Grades

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

The "N" grade is used only in specified courses in which a "final" grade is dependent upon additional work. The "N" grade indicates that work is satisfactory to date, but carries with it no credit or "final" grade until all work is completed. Work must be completed within one calendar year or the "N" becomes permanent. Forms authorizing the removal of "N" grades may be obtained in Student Academic Services.

The "G" grade is used only in specified courses in which a "final" grade is dependent upon additional work and only applies to approved 6000 level courses which includes internships, thesis, and projects. Work must be completed within three calendar years or the "G" becomes permanent. Forms authorizing the removal of "G" grades may be obtained in Student Academic Services.

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

### Audit

Any SPU course may be audited, with the exception of some graduate courses. Please see specific graduate program bulletins for additional information. Students may change from audit to credit or vice versa during the quarterly add 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 to a "C" grade (2.0).
2. Students may elect the P/NC option for the number of courses specified in the schedule below to apply toward a bachelor's degree. Limitations in (3.) below apply.  
Classification at entrance:  
Freshman - 30 credits  
Sophomore - 20 credits  
Junior - 15 credits  
Senior - 5 credits
3. No more than one course per quarter; no courses in major; no foundations courses; no courses in general education.
4. 6000 level courses may not be taken for P/NC credit, with the exception of thesis, dissertation, research, and projects, to be determined at the discretion of the schools.
5. For those students who transfer to SPU, no "Pass" credits will be accepted for major or general education requirements (except within the College Transfer Program with the associate degree).
6. P/NC form must be on file in Student Academic Services by the 10th day of the quarter.

### Repeat/Substitute Courses

Students may repeat any course for the purpose of changing a grade. Courses noted as being "equivalent" may be substituted for one another. The latest grade received in a 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, the original grade will remain as a permanent part of the record. A symbol will be placed next to the earlier grade which will prevent the grade from being calculated in the GPA. Only courses taken at SPU 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 stated in the course syllabi. If the course or event is to be convened at the remote location, students will be required to provide their own transportation to the site. Unless specifically stated, the University normally assumes no responsibility for determining transportation of students to the site of a course.

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

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

Any exception to this policy must be approved in advance and in writing by the Vice President for Business and Finance.

## Registration and Records Policies and Procedures

### 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 fifth day of the quarter. The deadline for withdrawing from courses is the sixth week of the quarter. Specific dates for these registration deadlines are printed in the University Calendar located at the front of the Catalog and Time Schedule. Changes must be submitted to Student Academic Services on the Add/Drop Form.

### Adding Classes and Late Registration

Students are permitted one free change of registration each quarter, as long as it is submitted by the fifth day of the quarter (refer to University Calendar for specific dates). Students may not attend or sit in classes unless officially registered by the fifth day of the quarter. Any class additions after this date will be considered a late registration; these are handled on an individual basis.

An exception to registration policy may be considered

after the fifth day of the quarter if the student has received the instructor's written consent to accept the student as a late registrant. 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 Late Registration Fee.

### Waitlisting Closed Classes

Students have the option of waitlisting any undergraduate classes that are closed. As space becomes available in closed classes, waitlisted students will be registered on a *first come basis*. Students may waitlist only *two* classes per quarter. Students will be notified in writing when they are entered into a class via the waitlist. If the waitlisted class(es) creates a time conflict or exceeds the maximum credit load for the student, it will not be added to the student's schedule, and the student will be dropped from the waitlist. Waitlist forms may be obtained from Student Academic Services. This form outlines the process students need to follow to waitlist a class.

The waitlist program is effective through 5:00 p.m. on the fifth day of the quarter which is also the last day to add classes. All schedules will be final at that time. 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 Services.

### Complete Withdrawal from School

A student who desires to withdraw from school must obtain an official Add/Drop Form from Student Academic Services or submit a letter requesting a complete withdrawal. Special instructions are printed on the Add/Drop Form advising students to contact Student Financial Services regarding any penalties associated with tuition prior to withdrawal. Refunds and adjustments to the student's account are governed by the financial policies printed in the Costs and Financial Aid section.

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

### Withdrawal from Classes

Official withdrawal during the first and second week of the quarter will not reflect any record of the class on the transcript. Official withdrawal during weeks three through 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.

The deadline for withdrawing from courses is the end of the sixth week of the quarter. Students are permitted one free change of registration each quarter, as long as it is submitted by the University's deadline. A Change of Registration Fee will be charged for the second and each subsequent withdrawal.

### Changes in Personal Information

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



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

### Credit By Examination

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

1. A student may receive credit by examination for any coursework 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 challenge a course for credit by examination.
3. A student may not take credit by examination for a 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 Examinations, Advanced Placement (AP) and College Level Examination Program (CLEP), and the Proficiency Examination Program (PEP), none of which will apply to the 45 hour resident requirement.
5. Within a given major, no student may receive credit by examination in subject matter more elementary, as determined by the dean of the school, than that for which credit has been received previously.
6. A student may not repeat an examination for credit.
7. A student may not receive credit by examination for lower-division courses in the student's native language, if that language is other than English.
8. A student is entitled to only one consultation with the professor administering the test.
9. A student must pay for all special exam fees prior to receiving approval to take the exam.

### Graduation

Graduation application forms for undergraduate or second baccalaureate degrees are available in Student Academic Services. Students may apply for graduation no earlier than one year in advance of their intended quarter of graduation. Graduation application deadlines are:

<u>Intending to Graduate</u>	<u>Deadline</u>
Spring/Summer	December 1
Autumn	June 1
Winter	September 1

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

### Student Class Status - Definitions

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 Students

*Freshmen* - Students having less than 45 earned credits; includes SPU and transfer work accepted.

*Sophomores* - Students having 45-89 earned credits; includes SPU and transfer work accepted.

*Juniors* - Students having 90-134 earned credits; includes SPU and transfer work accepted.

*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 bachelor's degree or initial certification. Admission to this classification is by application only.

**Graduate Students** - Master's or doctoral candidates. Admission to this classification is by application only.

### Student Enrollment - Definitions

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

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

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

### Transcripts

Official transcripts are released only on written authorization of the student whose records are requested. A \$3.00 fee for each official transcript is charged. The University reserves the right to deny official transcript services for indebtedness to the institution. Each official transcript contains the student's entire record while at SPU. Official transcripts may be released to students. Students may request an unofficial copy of their transcript at no charge. If the student has an account, official transcripts are

only released if the account is paid in full.

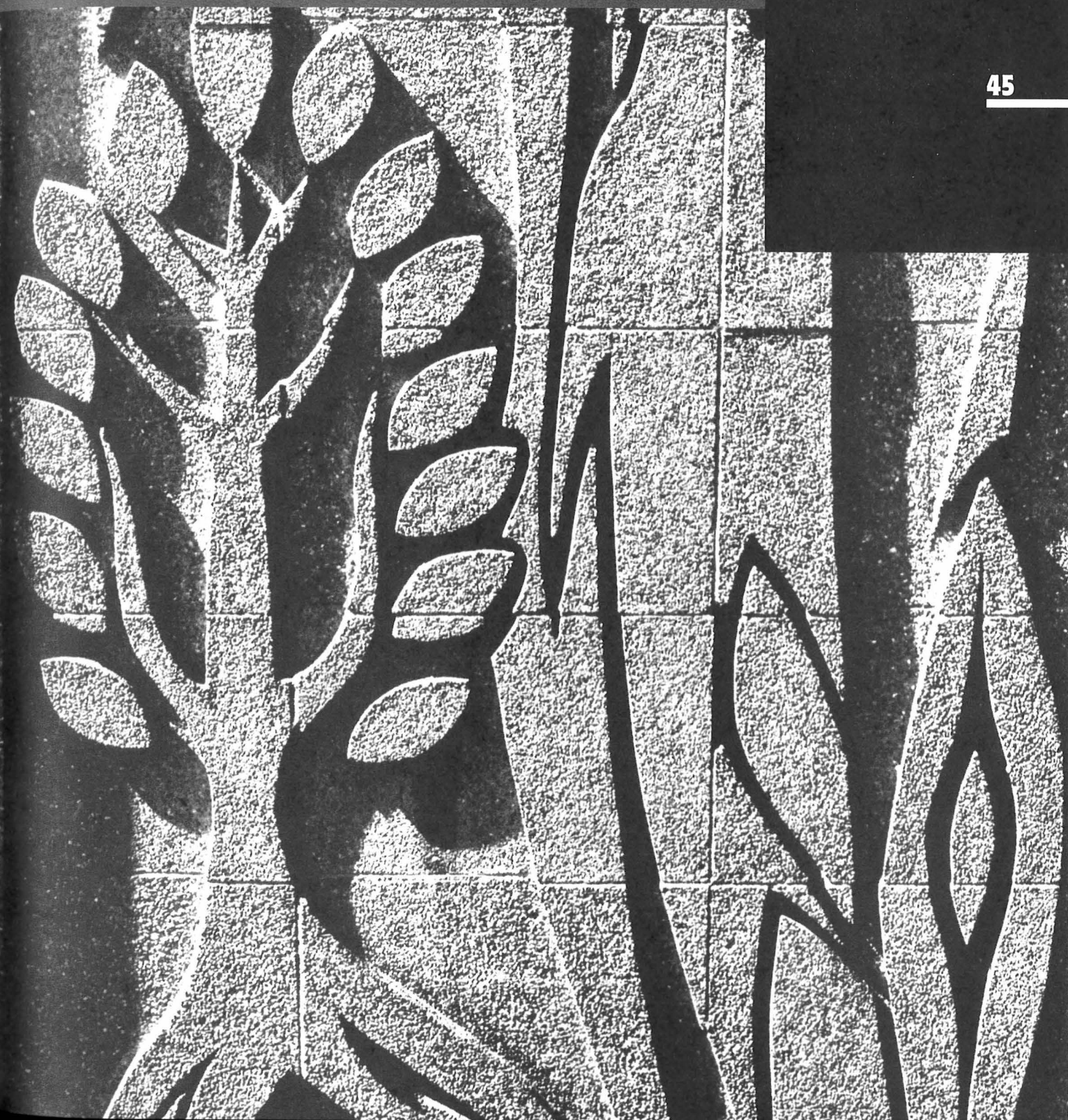
Transcripts contain the student's entire academic history while at SPU. Undergraduate, graduate, doctoral work and CEU's are segregated on separate pages of the SPU transcript. Although a copy of the transcript may be requested at any time, updated transcripts will be available after final grades have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

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

SPU will resend a transcript to the originally requested institution provided the University made an error in processing. We must, however, be contacted within three months of the original request. After the three month grace period, a separate written request must be submitted. The University reserves the right to approve or deny any request for resending a transcript for any reason other than University error.

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 Academic Services, mail in or fax in a request. For a \$25.00 special handling fee, Student Academic Services will immediately provide students with an official copy of their transcript.

# Baccalaureate Degree Requirements





# Baccalaureate Degree Requirements

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. The University Catalog under which the student enters serves as the official record of admission, academic and degree completion requirements as it pertains to general education, foundation and all other general University requirements, except for standards governing the completion of a major and/or minor. The quarter in which a student is accepted by the school or department which is offering the major or minor will determine the Catalog under 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.)

## 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.
4. At least 60 credits earned in courses numbered 3000-4999.
5. 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.
6. The last 15 credits prior to degree completion must be earned in residence.
7. Achievement of satisfactory scores on required proficiency test in mathematics and placement test in English or completion of required remedial course work.
8. 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, while incoming seniors are required to complete 3 credits. (See section on Writing Courses.)

10. Students are expected to declare a major at the start of their junior year. Declaration of major forms are available in the school or division office. Students will be notified by Student Academic Services if they have not declared a major but have completed 120 or more credits at SPU. All degree requirements for a major or minor are based on the Catalog year when the major or minor is declared. For example, a student declaring a major in autumn 1997 is subject to all major requirements listed in the 1997-98 Catalog.
11. 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 available in Student Academic Services. Application deadlines appear under the Graduation section of the Catalog (page 42).
  - 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 transcripts nor diplomas ordered until all requirements are completed, including any outstanding "I" and "N" grades.
  - e. The official record of degree completion is the official SPU academic transcript.

## 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 required or controlled by a school in designating requirements for a major without review and approval of the Undergraduate Policies and Evaluation Committee.
2. A major is required for completion of either the Bachelor of Arts or Bachelor of Science degree.
3. Major requirements must be met in full. These requirements of proficiency in depth and breadth 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 supporting courses. For a list of approved majors, see the section entitled Areas of Instruction.
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. Course work with a "P" or a grade below "C" (1.7) may not be applied to a major.
6. The student must apply for a major and be accepted by the school or department in which he/she declares a major. The acceptance date determines 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 Registrar that he/she has satisfactorily met the evaluative and proficiency standards for such a major.

8. A student may simultaneously complete a double major. Both majors may be in a B.A. category, or two majors in a B.S. category, or one in a B.A. category and one in a B.S. category. All requirements for each major must be completed simultaneously to earn a double major.

## Specific Standards Governing the Completion of a Minor

1. Students are not obligated to specify a minor area of study in order to receive the B.A. or B.S. degree. However, a student must be working towards a major in order to earn a minor.
2. A minor requires a minimum of 30 credits but may not require more than 45 credits. A minimum of 15 credits is required in courses numbered 3000-4999. Requirements for specific minors may be found in the school or department sections of this Catalog. For a list of approved minors, see the Catalog section entitled Areas of Instruction.
3. Transfer students must earn a minimum of 15 credits in a minor at SPU, 10 credits of which must be in courses numbered 3000-4999.
4. Coursework with a "P" or a grade below "C" (1.7) will not be applied to a minor.
5. In all cases it is necessary to apply for and be accepted for the minor field. This determines the Catalog under which minor requirements will be 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 Degree

1. No more than 30 resident or transfer credits earned via correspondence and/or distance learning courses (i.e., courses marked "M") may be applied 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.
2. Prerequisite to taking a media course in Biblical Literature, undergraduate students must have junior 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.
3. 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.
4. A student may earn up to 10 credits towards a baccalaureate degree in skills courses approved by the Undergraduate Policies and Evaluation Committee.
5. Students may enroll in 5000 level courses but they will not apply to undergraduate degree program requirements at SPU.
6. Credits in excess of 45 taken as a non-matriculated student will not apply towards an undergraduate degree.
7. Credits in excess of 15 credits taken as a non-matriculated student may not be applied to a post-baccalaureate degree.

## Transfer Students/Foundations Requirements

(See page 17 for information)

## Additional Bachelor's Degree

A second bachelor's degree may be earned upon completion of a minimum of 45 credits subsequent to the granting of the first degree. The student must be accepted into a major; this determines the Catalog under which major requirements will be applied. A second degree is subject to the following conditions:

If the first degree was earned at SPU:

1. Fifteen 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.
3. Of the 45 credits required for the second degree, up to 15 credits may be earned prior to the granting of the first degree, provided the credits are in excess of the minimum (usually 180 quarter credits) required for granting the first degree.

If the first degree was earned at another institution:

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

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

## 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 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.

# The Foundations and General Education Program

## Based on the Christian Scholar-Servant Model

Seattle Pacific University exists to provide an environment in which Christian scholars—both faculty and students—can grow in scholarship, service, and leadership. The program of foundations and general education at Seattle Pacific is based on this ideal of the Christian scholar-servant. Such a person, whether faculty or student, applies learning to personal development and leadership in human relationships to God, knowledge, others, and creation. The faculty members of SPU commit themselves to such growth. Their goal is to be effective scholars in their disciplines and in the Christian faith. They commit themselves to a process of study and learning that becomes active in their lives through service to Christ. They invite the student to join them in this adventure in the foundations and general education program.

The foundational requirements introduce the student to the ways of understanding God and the world from the perspective of the Scriptures, the world of ideas, the Christian theological tradition, and the personal experience of values and faith development. The insights of Christian thought, meaning and values are focused on understanding the concepts of the liberal arts and professions. Students encounter the values of the Christian faith in terms of their own personal faith development in relationship to Christ. They examine the Biblical heritage as the foundation of their relationship to God and the world. They then translate their understanding of the Christian thought and life to their own personal lives and to the needs of human society.

General education requirements, which take the student from self to society, provide the basic understanding of nature and culture that equips the Christian scholar-servant for effective living in today's world. First one must encounter oneself as an individual in the process of growth. To fulfill one's personhood, effective interaction with others is essential, requiring well developed communication skills. Having mastered these skills, the student is prepared to study the four broad domains of human inquiry: society, nature, the fine arts, and the literary arts. To complete the process, the student must develop an understanding of how to integrate creatively into a society undergoing rapid change.

Accordingly, the foundations and general education requirements are designed to develop competencies. Diagnostic tests measure basic abilities in math and writing so that entering students can be advised into appropriate courses. The Christian scholar-servant should also be competent in articulating bases of the Christian faith, recognizing relationships between Christian faith and living, reasoning, decision-making, inquiry, development of aesthetic awareness and appreciation, and the application of skills in career development. The program is specifically designed to achieve these and certain other competencies in students. These abilities enable persons to become effective Christian scholars, servants, and leaders.

## Math Proficiency and English Placement Testing Program

All undergraduate students at Seattle Pacific University must demonstrate math and English competency early in their career at SPU and as a condition of graduation. Unless stipulated by their major, post-baccalaureate students are not required to take the tests. In order to determine competency and assign any necessary remedial coursework, 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 student registers for all necessary remedial coursework.** The tests are administered during Premiere, Quest (autumn quarter student orientation), and at other times throughout the year.

### Math Skills

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

1. By scoring 500 or above on the SAT-I exam if taken 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 test.
4. By receiving a grade of C (2.0) or better in MAT 1225 Calculus, or its college equivalent. (MAT 1221, Survey of Calculus, does not meet this requirement.)
5. 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 analysis of errors is done and areas of weakness are determined. Any student whose score on this test falls below accepted college entrance level norms will be required to strengthen these areas of weakness through work in arithmetic review courses during the first year of registration. Before students are permitted to take any mathematics courses (other than arithmetic review) or any courses using mathematics, they must either pass the mathematics proficiency test or complete the required work in MAT 0125. Arithmetic review courses are not considered college-level courses. Credits earned in MAT 0121-MAT 0125 do not count toward the 180 minimum credits required for graduation.

### Writing Skills

The ability to write well, in English, is essential to becoming a liberally educated person and an able Christian communicator. Upon entry to the University, students are required to take the English Placement Test, which samples their writing.

Students whose score on this test indicates they do not yet write on the college level will be required during their first year of registration to enroll in coursework (the two-quarter 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 the next quarter.

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

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

Depending upon their placement score on the English exam, transfer students who have already taken a freshman-level writing course or courses at another institution may be required to enroll in the sophomore level writing course, ENG 2201.

The School of Education requires teacher certification students to take the English Placement Test *prior* to entering Phase I of their program.

All students are required to demonstrate minimal competence in standard written English as a condition of graduation. Those failing to perform at satisfactory levels must complete additional work in the Writing Lab until their competence can be demonstrated.

## Foundations Program (Total of 15 Credits)

(Courses designated by a ▲ can also be taken by distance learning. See Limitations on Credit Applicable Toward a Degree section of the Catalog.)

### 1. CHRISTIAN PERSPECTIVES ..... 5 CREDITS

Choose from among the following courses:

- PHI 1100 or PHI 3100 Faith and Philosophy (5)
- PHI 3340 Values, Faith and Social Issues (5) ▲
- REL 1501 Dynamics of Christian Formation (5)
- REL 1610 or REL 3610 Christian Biography (5)
- REL 1620 or REL 3620 Christianity in America (5)
- REL 2720 Intro to Theology (5)

### 2. BIBLICAL HERITAGE ..... 10 CREDITS

To meet Biblical Heritage foundations requirements, students may choose option a, b or c.

- a. Choose BIL 1220 Exploring Biblical Literature, followed by at least 5 credits of 3000-level BIL coursework (except BIL 3101 or BIL 3201).
- b. Choose one introduction course (BIL 3101 Old Testament ▲ or BIL 3201 New Testament ▲) followed by at least 5 credits of a 3000-level BIL course.
- c. Choose BIL 3101 Old Testament ▲ and BIL 3201 New Testament ▲.

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

## General Education Program (Total of 56-71 Credits)

(Courses designated by a ▲ can also be taken by distance learning. See Limitations on Credit Applicable Toward a Degree section of the Catalog.)

### 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

#### COMPETENCY ..... 0-15 CREDITS

The required number of credits is dependent upon previous coursework or demonstrated competency. For a list of the specific ways to meet the requirement see the end of this section.

Electrical Engineering and RNB students are not required to take foreign language courses. Students entering SPU with an AA degree (Washington, Oregon or California College Transfer Program, or Central College, KS) have completed all general education, including foreign 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 ..... 3 CREDITS

Choose from among the following courses:

- COM 1101 Intro to Interpersonal Communication (3)
- COM 1301 Public Speaking (3)
- COM 1321 Speaking Before Groups (5)
- ENG 1101 Writing in College (3)
- ENG 2201 Research for Writing (3)
- ENG 2215 Imaginative 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 3301 Writing to be Read (3) [Writing course]
- ENG 4401 Writing Beyond College (3) [Writing course]

### 3. SOCIAL SCIENCES (15 credits)

#### A. SOCIAL SCIENCE INTEGRATION .... 5 CREDITS

Choose from among the following courses:

- ANT 2250 Cultural Anthrology (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 Gov't and Politics (5) ▲
- POL 2330 International Relations (5)
- POL 2641 Christianity and American Politics (5)

#### B. SOCIAL SCIENCE

#### INTRODUCTIONS ..... 5 CREDITS

Choose from among the following courses:

- ANT 1110 General Anthropology (5)
- ECN 1100 Fundamentals of Econ (5)
- ECN 2101 Microeconomics (5)
- ECN 2102 Macroeconomics (5)
- POL 1110 Intro to Politics (5) ▲
- PSY 1180 General Psych (5)
- SOC 1110 Intro 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 (POL3170) (5)
- GEO 3500 Geography of Natural Resources (5) [Writing Course]
- HIS 1201 Medieval Europe (5) ▲
- HIS 1202 Modern Europe (5)
- HIS 1500 Intro 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 3440 Int'l Peace and World Order (POL 3440) (5)  
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]  
HIS 3730 Modern Middle East (5) [Writing course]

4. NATURAL SCIENCES (15 credits)

A. BIOLOGICAL SCIENCES ..... 5 CREDITS

BIO 1100 Bio Science (5) ▲  
BIO 1102 Individual and Environment (5)  
BIO 2101, BIO 2102, BIO 2103 General Bio (5 each)  
BIO 2129, BIO 2130 Anatomy and Physiology (5 each)\*

B. PHYSICAL SCIENCES ..... 5 CREDITS

CHM 1110 Intro 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 Sci and Engineering (5 each)  
PHY 1135 Astronomy (5)  
PHY 1150 Intro to Geology (5)

C. QUANTITATIVE REASONING ..... 5 CREDITS

Choose from among the following courses:  
BUS 2700 Stats for Bus and Econ (5)  
HSC 4044 Biomedical Tests, Measurements and Statistics (5)  
MAT 1221 Survey of Calculus (5)  
MAT 1225 Calculus I (5)  
MAT 1360 Intro to Statistics (BUS 1360) (5)  
MAT 1521 Intro to Contemporary Math (5)  
MAT 2530 Survey of Mathematics I (3)\*\*  
MAT 2531 Survey of Mathematics II (2)\*\*  
SOC 2360 Intro to Statistics in SBS (PSY 2360) (5)

\* Must take both to fulfill category requirements.

\*\*For education certification students only; Completion of Phase I is a prerequisite.

5. LITERATURE AND THE ARTS (20 CREDITS)

A. LITERATURE CORE ..... 5 CREDITS

Choose from among the following courses:  
ENG 1110 Individual in the Literary World (5)  
ENG 3110 Individual in the Literary World-M (5) ▲  
EUR 1110 Heritage of Europe (5)

B. LITERATURE OPTIONS ..... 5 CREDITS

Choose from among the following courses:  
CLA 3104 Survey of Ancient Greek Lit (5)  
CLA 3170 Classical Civilization (HIS 3170) (5)  
CLA 3204 Survey of Classical Latin Lit (LAT 3204) (5) [Writing course]  
ENG 2230 Literature of the American West (5)  
ENG 2233 Issues of Faith in Lit (5) ▲  
ENG 3234 Literature by Women (5)  
ENG 3248 Non-Western Lit (5)  
ENG 3334 American Ethnic Lit (5)  
EUR 3247 Classics of Eastern Europe Lit (5) [Writing course]  
FRE 2102, 2103 Niveau Intermed (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)  
HUM 3287 Mythology in Lit (5) [Writing course]  
SPN 2101, 2102, 2103 Intermed Spanish (5 each)  
SPN 4401 Topics in Spanish Literature (3)  
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 options 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.

C. FINE ARTS CORE ..... 5 CREDITS

Choose from among the following courses:  
ART 1180 The Visual Arts (3)\*  
ART 1181 The Visual Arts Lab (2)\*  
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)  
FCS 3870 History of Costume (5) [Writing course]  
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 ..... 5 CREDITS

Choose from among the following courses:  
ART 1102, ART 1103, ART 1104 Drawing Studio (3 each)  
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 3602 History of Ancient Art (5)  
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)  
EUR 3100 Foundations of European Art (2)  
MUS 1250, 1251, 1252 Piano Class (1-3)  
MUS 1260, 1261 Class Instruction: Voice (1)  
MUS 2305, 4305 Women's Choir (1-2)  
MUS 2312, 4312 Men's Choir (1-2)  
MUS 2350 or MUS 4350 Concert Choir (1-2)\*  
MUS 2351 or MUS 4351 Symphonic Wind Ensemble (1-2)\*  
MUS 2353 or MUS 4353 Symphony Orchestra (1-2)\*  
MUS 2654 World Music (3)  
MUS 2655 World Music Lab (2) Must be taken simultaneously with MUS 2654  
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 1340 Acting I: Fundamentals (5)  
TRE 1930, 3930 Performance Practicum (2)

TRE 1931, 3931 Production Practicum (2)  
TRE 2420 Theatre and Drama: Tragedy (5) \*\*  
TRE 2421 Theatre and Drama: Comedy (5) \*\*

\*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 MUS 3501 Elem Meth and Materials (3), or MUS 3502 Music in Special Ed (3) toward Fine Arts credit.

Foreign Language Competency Requirement

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

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

Note: The languages offered through the regular curriculum at SPU are French, German, Latin, Russian and Spanish. Other languages are offered through the 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 Disability

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

Former Foundations And General Education Requirements

A new general education program went into effect starting 1991-1992. For students matriculated under those earlier Catalog requirements it may be necessary to approve substitute courses currently taught for courses which have been eliminated. Students may apply or exchange any foundation or general education requirement which has been approved by the Undergraduate Policy and Evaluation Committee for any past or subsequent catalogs, provided the specific categories have not undergone significant changes. Assistance in this process is available from the counselors in Student Academic Services. Students may choose as an alternative to fulfill the requirements of the Catalog of the year in which they graduate. See the University's Library or Student Academic Services for a set of reference catalogs.

Graduation Requirements Checklist

Students may wish to track their progress toward graduation by taking their quarterly grade reports, along with the General Education/Foundation section of the catalog and filling out the appropriate completed courses on the graduation requirements checklist on the following page.

GRADUATION REQUIREMENTS CHECKLIST:  
Seattle Pacific University (1997-98 SPU Catalog only)

NAME \_\_\_\_\_ SSN \_\_\_\_\_ CLASS AT ADMISSION/READMISSION \_\_\_\_\_  
MAJOR \_\_\_\_\_ MINOR \_\_\_\_\_ FACULTY ADVISOR(S) \_\_\_\_\_

DEGREE REQUIREMENTS

Minimum 180 total credits

- ☐ Not including courses below 1000 level
- ☐ At least 45 credits must be completed at SPU, including the last 15 credits.

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

Minimum 60 upper division credits

- ☐ 3000-4999 level
- Date: \_\_\_\_\_/\_\_\_\_\_/60
- Date: \_\_\_\_\_/\_\_\_\_\_/60

All classes in Major complete

- ☐ See requirements below

All classes in Minor\* complete

\*Minor not required for graduation

- ☐ Students must have applied and been officially accepted into their Major/Minor
- ☐ A Major/Minor checksheet will be sent to students by their advisor.
- ☐ All grades in the Major/Minor must be a C- (1.7) or better.

PLACEMENT TEST RESULTS

Math Proficiency Test passed, waived, or ALL required lab credits completed

Date: \_\_\_\_\_ Lab Credits remaining \_\_\_\_\_

English Placement Test passed, waived, or ALL required lab credits completed

Date: \_\_\_\_\_ Lab Credits remaining \_\_\_\_\_

“W” (Writing) REQUIREMENT

Entry Status: Freshmen & Sophomores - 8 credits  
Juniors - 5 credits, Seniors - 3 credits  
(These credits are 3000-4999 level)

FOUNDATIONS  
REQUIREMENTS

Entry Status: Freshman & Sophomore - 15 credits required

Junior & Senior - 10 credits required  
(5 credits in each category)

- ☐ 1. Christian Perspectives (0-5)

- ☐ 2. Biblical Heritage (5-10)

GENERAL EDUCATION  
REQUIREMENTS (56-71 Credits)

- ☐ 1. Wellness (3 credits)

- ☐ 2. Communication (3-18 credits)

A. Foreign Language Competency: (0-15)  
(See requirements in 1997-98 Catalog)

B. Oral or Written Communication: (3)

- ☐ 3. Social Sciences (15 credits)

A. Social Science Integration: (5)

B. Social Science Introductions: (5)

C. Contexts for Society: History/Geography: (5)

- ☐ 4. Natural Sciences (15 credits)

A. Biological Sciences: (5)

B. Physical Sciences: (5)

C. Quantitative Reasoning: (5)

- ☐ 5. Literature and the Arts (20 credits)

A. Literature Core: (5)

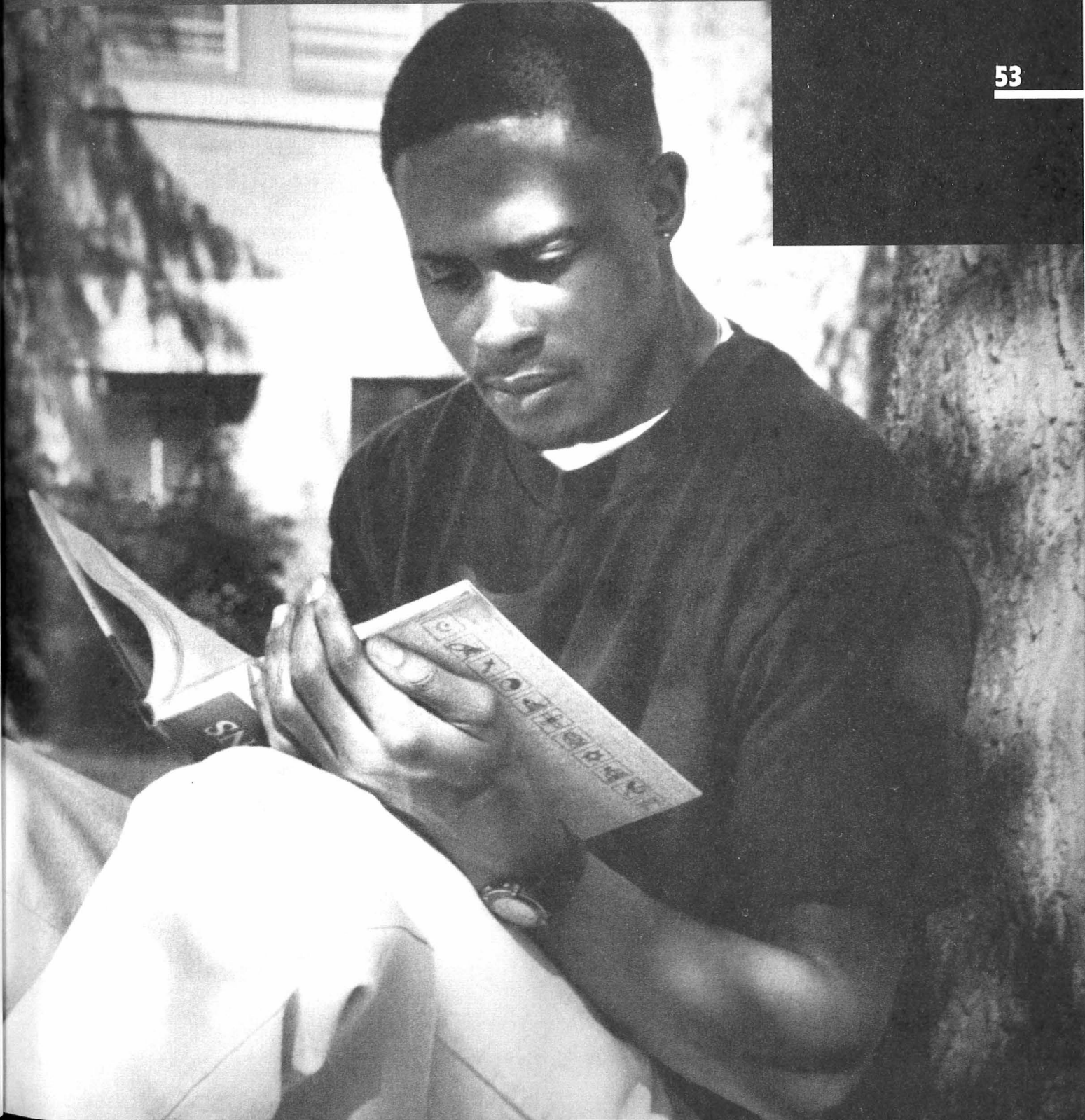
B. Literature Options: (5)

C. Fine Arts Core: (5)

D. Fine Arts Options: (5)

NOTES TO STUDENTS

The Academic Program





# The Academic Program

## Scholarship Informed by Faith

The clear Christian commitment of Seattle Pacific University has remained the same for more than a century. The institution continues to believe that the finest education is informed by Christian faith.

As a university, Seattle Pacific's mission is one of intellectual inquiry. Believing that the Christian faith calls it to excellence — both intellectually and spiritually — the University actively strives to provide the highest quality education available. In keeping with this, academic freedom and integrity are highly prized.

What does this mean to students? It means that they are taught by professors who approach their discipline from a Christian perspective. But students are not told what to believe. Instead, through the educational process of inquiry, discussion and experience, they are encouraged to develop a mature, personal faith.

Students are challenged at Seattle Pacific. But the University seeks to create an environment which balances freedom and support as they grapple with difficult questions. The goal is to help students emerge with an even deeper Christian conviction and a desire for Christian leadership and service.

## Academic Structure

### College of Arts and Sciences

#### Division of Fine Arts

Art  
Music  
Theatre

#### Division of Humanities and Religion

Communication and Journalism  
English  
Foreign Languages and Literatures  
Philosophy  
Religion

#### Division of Science and Engineering

Biology  
Chemistry  
Computer Science  
Engineering  
Mathematics  
Physics  
Pre-professional Programs

#### Division of Social and Behavioral Sciences

Family and Consumer Sciences  
History  
Physical Education  
Political Science  
Psychology  
Sociology, Anthropology and Social Service

#### Interdisciplinary

General Studies Major  
Interdisciplinary Courses  
University Scholars Program  
Student-Designed Majors

### School of Business and Economics

### School of Education

### School of Health Sciences

AREAS OF INSTRUCTION

COLLEGE OF ARTS AND SCIENCES	BA	BS	Masters	Minors	Elementary Cert.	Secondary Cert.	Areas of Study	Refer to Page Number
Division of Fine Arts								
Art	•			•	•	•		58
Fine And Applied Arts Education	•				•			84
Music Education	•				•	•		121
Music	•			•	•			120
Theatre	•			•	•			148
Division of Humanities and Religion								
Biblical Studies				•				140
Classics*	•						•	111
Communication	•			•				74
Cross Cultural Ministries				•				140
Educational Ministry/Christian Education	•			•	•			139
English	•				•	•		92
Literature				•				93
Writing				•				94
European Studies - Europe	•				•			113
European Studies - French	•			•	•	•		114
European Studies - German	•			•	•			115
European Studies - Latin	•			•	•	•		115
European Studies- Russian	•			•	•			116
European Studies- Spanish	•			•	•	•		116
Journalism				•				74
Language Arts Education	•				•	•		84
Latin American Studies*	•			•				112
Linguistics				•				117
Philosophy	•			•	•			126
Religious Studies	•				•			140
Teaching Eng. as Second Lang.			•					104
Youth Ministry				•				141
Division of Science and Engineering								
Biology	•	•		•	•	•		60
Biochemistry		•						70
Biotechnology							•	73
Chemistry	•	•		•	•	•		70
Computer Science	•	•		•	•			76
Electrical Engineering		•			•			88
Engineering and Applied Science		•			•			88
Science Education	•				•			85
Mathematics	•	•		•	•	•		118
Mathematics Education	•				•			84
Physics		•		•	•	•		130
Division of Social and Behavioral Sciences								
Exercise Science		•			•			128
Geopolitics				•				103

\* Student-Designed Majors  
The University also offers two doctoral programs in education (Ed.D.) and clinical family psychology (Psy.D.).

	BA	BS	Masters	Minors	Elementary Cert.	Secondary Cert.	Areas of Study	Refer to Page Number
Health				•				128
History	•				•	•		108
Family and Consumer Sciences	•			•	•	•		97
Food and Nutritional Sciences		•		•	•			98
Marriage and Family Therapy			•					104
Physical Education	•			•	•	•		128
Political Science	•			•	•			132
Psychology	•			•	•			137
Social Science Education	•				•	•		85
Sociology	•			•	•			146
Sociology - Social Service							•	146
Textiles, Clothing and Interiors	•			•	•			99
PROFESSIONAL SCHOOLS								
Business and Economics								
Accounting	•				•			65
Administration (MBA)			•					104
Business Administration	•			•	•			67
Economics	•			•	•			68
Information Systems Management			•					104
Education								
Curriculum and Instruction			•					104
Educational Leadership			•					104
School Counseling			•					104
Special Education	•				•	•		85
Teaching Secondary			•					104
Health Sciences								
Nursing		•	•					105
Nurse Practitioner			•					104
Special/Interdisciplinary Programs and Curricula								
General Studies	•				•			103
Dental Hygiene							•	136
Medical Records Administration							•	136
Physical Therapy							•	136
Pre-Dentistry							•	135
Pre-Law							•	134
Pre-Optometry							•	136
Pre-Medicine							•	135
Student-Designed	•	•			•			145
Women's Studies				•				152

How to Read Catalog Course Information

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

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

**Subject Number:** This is the course number which 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 are primarily for seniors, but may also be suitable for fifth year and other post-baccalaureate students. Courses numbered 5000-5999 are considered primarily for professional development and cannot be applied toward fulfillment of an undergraduate degree requirement. Courses numbered 6000-6999 are designed for master's degree programs and 7000-7999 for doctoral degree programs. Note: 3000 and 4000 level courses fulfill upper-division degree requirements.

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

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

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

**Repeat Limits:** Courses which may be repeated for credit state the number of times the course may be repeated or the maximum number of repeatable credits. Courses which 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 40 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.

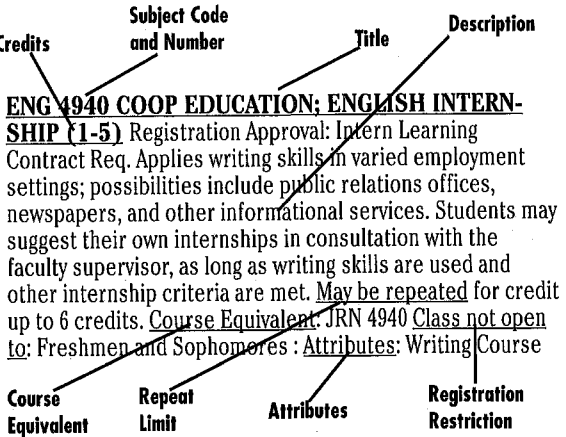
**Course Equivalent:** Classes noted as equivalent means the courses are the same and that students will not receive credit towards graduation if they enroll in both courses. However, equivalent courses may substitute for one another during the degree audit process or when repeating a class (see repeat rules, page 40).

**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.

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

Sample Course Description

(For illustration purposes only.)





## Accounting

See School of Business and Economics section.

## Anthropology

See Sociology 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 and principles of visual art, (2) to explore the techniques of 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 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 the case of transferring students beyond the sophomore 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 comprehensive photographic portfolio of work completed 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)

[Refer to page 52 for a summary of degree requirements]

#### Core Courses

ART 1102, 1103, 1104 Drawing .....	9
ART 1202, 1203, 1204 Design .....	9
ART 2302 Painting .....	3
ART 2722 Sculpture .....	3
ART 2421 Printmaking .....	3

#### Studio Emphasis Courses

Drawing .....	3
Ceramics .....	3
Metals or Weaving .....	3
Art History .....	15
Pro Seminar .....	1
Senior Project .....	3
Art Electives .....	12
<b>Total .....</b>	<b>67</b>

ART 1180 may not be included in this total. Information concerning concentrations for teacher preparation is available from the School of Education.

Formal admission to a minor in art should be completed by the end of the first quarter of the sophomore year, or in the case of transferring students beyond the sophomore level, in the second quarter of residence. To qualify for admission as a minor, the student must complete 9 credits of work in art with a minimum of 2.5 GPA and submit an application for admission.

Prior to graduation, seniors must submit samples of 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
ART 1202, 1203 Design .....	6

#### Studio Emphasis Courses

Painting .....	3
Ceramics .....	3
Printmaking .....	3
Art History .....	10
Art Electives .....	6
<b>Total .....</b>	<b>37</b>

### 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 1103 DRAWING STUDIO (3)** Registration Approval: Instructor. Studies the use of line, perspective, value and composition in the context of drawing as visual description based on observation and analysis of various motifs. Emphasizes tonal drawing.

**ART 1104 DRAWING STUDIO (3)** Studies the use of line, perspective, value and composition in the context of drawing as visual description based on observation and analysis of various motifs. Emphasizes composition of the pictorial space.

**ART 1180 THE VISUAL ARTS (3)** Introduces visual forms 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 exercises using the visual elements and principles of organization to create a work of art. Corequisite: ART 1180.

**ART 1202 DESIGN STUDIO (3)** Applies the elements and principles of the visual arts to projects in a variety of media emphasizing practical problems. Emphasizes two-dimensional design.

**ART 1203 DESIGN STUDIO (3)** Applies the elements and principles of the visual arts to projects in a variety of media emphasizing practical design problems. Emphasizes three-dimensional design.

**ART 1204 DESIGN STUDIO (3)** Applies the elements and principles of the visual arts to projects in a variety of media emphasizing practical residential interior design problems. Course Equivalent: FCS 1204.

**ART 2206 GRAPHIC DESIGN (3)** Prerequisites: ART 1202, 1203, and 1204. Exploration of creative ideas and resources related to graphic design including use of tools, media, terminology and development of layout skills. May be repeated for credit 1 time.

**ART 2302 PAINTING STUDIO - OIL OR ACRYLIC (3)** Analyzes 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 STUDIO (3)** Studies graphic art with projects in several printing media including relief and intaglio processes of woodcut, linocut, drypoint and etching, and 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 jewelry. Emphasizes fabrication. Class not open to: Freshmen.

**ART 2425 WEAVING STUDIO (3)** 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 weaving of tapestry or fabric. Emphasizes hand looms.

**ART 2428 CERAMICS STUDIO (3)** Explores the design and construction of pottery. Projects include several hand building processes of construction, glazing and loading and firing the kiln. Emphasizes handbuilding. Class not open to: Freshmen.

**ART 2502 ILLUSTRATION (3)** Prerequisites: ART 1102, 1103, and 1104. Introduction to the various problems, materials and techniques of commercial illustration.

**ART 2722 SCULPTURE STUDIO (3)** Prerequisite: ART 1203. Studies of three-dimensional form and composition with the several media of sculpture. Emphasizes additive and reductive sculptural 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 from the draped model. Class not open to: Freshmen.

**ART 3114 ILLUSTRATION (5)** Prerequisite: ART 2502 or permission of instructor. Presents several illustration problems that 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)** Prerequisite: ART 2206. Introduces the history, terminology, tools and elements of graphic design. Examines and implements design concepts, elements and criteria through several design problems.

**ART 3217 ADVANCED DESIGN - INTERIORS (3)** Prerequisite: ART 1204 or permission of instructor. Applies design principles to practical problems in interior design. Course Equivalent: FCS 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 individual expression and the study of styles in various subject matter. Class not open to: Freshmen.

**ART 3315 PAINTING STUDIO - WATERCOLOR (3)** Investigates a range of technical skills in the use of traditional watercolor.

**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 methods of surface embellishment 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 media 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, soldering and forging of metals into utensils and decorative forms such as jewelry. Emphasizes forming. Class not open to: Freshmen and Sophomores.

**ART 3425 WEAVING STUDIO - ADVANCED I (3)** Prerequisite: ART 2425 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 weaving of tapestry or fabric. Emphasis: Table looms. Class not open to: Freshmen and Sophomores.

**ART 3428 CERAMICS STUDIO - WHEEL I (3)** Explores the design and construction of pottery. Projects include wheel processes of throwing, glazing and packing and firing the kiln. Emphasizes beginning wheel. Class not open to: Freshmen and Sophomores.

**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. Special emphasis on the role of art in the curriculum and understanding the perceptual development of children. Studio periods will be augmented with lectures and discussion. Class not open to: Freshmen and Sophomores.

**ART 3547 ART EDUCATION - SECONDARY (3)** Studies the teaching of art in the secondary school with investigation of several appropriate media and emphasizing development of an art curriculum. Studio periods will be combined with lectures and discussions. Offered alternate years. Course Equivalent: EDU 3358. Class not open to: Freshmen and Sophomores.

**ART 3602 HISTORY OF ANCIENT ART (5)** Explores the pictorial and plastic expression of the ancient Mediterranean cultures to the end of the Roman Empire. Offered alternate years. Class not open to: Freshmen and Sophomores.

**ART 3603 HISTORY OF CHRISTIAN ART (5)** Explores the symbolic, pictorial and plastic expressions of the Christian faith, particularly emphasizing origin of forms and their development through the Renaissance. Considers contemporary examples of ecclesiastical art and architecture. Offered alternate years. Class not open to: Freshmen and Sophomores.

**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 3605 HISTORY OF MODERN ART (5)** Explores the plastic and pictorial expression of Europe and America from the 18th century to the present particularly emphasizing 20th century development. Offered alternate years. Class not open to: Freshmen and Sophomores.

**ART 3606 HISTORY OF ASIAN ART (5)** Examines the art forms of Japan, Korea, China, India and Indian Asia. Offered alternate years. 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. Attribute: Writing Course. Class not open to: Freshmen and Sophomores.

**ART 3608 ISSUES IN CONTEMPORARY ART (3)** A study of art produced since 1970 focusing on current art movements and their relationship to changing societal values. May be repeated for credit 1 time. Attribute: Writing Course. Class not open to: Freshmen and Sophomores.

**ART 3609 PHOTOGRAPHY: HISTORY AND CRITICISM (3)** Course traces the history and distinctive properties of photography 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 composition 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 Approval: Instructor. Prerequisites: ART 1102, 1103, 1104. Advanced problems in drawing with emphasis on experimentation and the development of a personal style. Offered alternate years. Class not open to: Freshmen and Sophomores.

**ART 4214 ADVANCED DESIGN II - RESIDENTIAL INTERIORS (3)** Registration Approval: Instructor. Prerequisite: ART 3217. Studies in the application of design principles to projects in residential design. May be repeated for credit 1 time. Class not open to: Freshmen and Sophomores.

**ART 4215 ADVANCED DESIGN II - COMMERCIAL INTERIORS (3)** Prerequisite: ART 3217. Studies in the application of design principles to projects in commercial design. May be repeated for credit 1 time. Class not open to: Freshmen and Sophomores.

**ART 4236 PORTFOLIO (1)** Instruction in the development of a professional portfolio including resume and cover letter writing and presentation of samples of creative work. Class open to: Visual Arts majors.

**ART 4302 PAINTING STUDIO - ADVANCED II (3)** Registration Approval: Instructor. Prerequisites: ART 2302, 3302. May be repeated for credit 2 times. Class open to: Visual Arts majors.

**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.

*"To create as a visual artist is to strive to fulfill the responsibility of our creation: to seek after our Creator's perfect beauty and to catch hints of ourselves in that mystery."*

**Michael Caldwell**  
College of Arts and Sciences



**ART 4422 METALS STUDIO - ADVANCED II (3)** Prerequisites: ART 2422, 3422 or permission of instructor. Teaches the raising, soldering and forging of metals into utensils and decorative forms such as jewelry. Emphasizes casting. May be repeated for credit 2 times. Class not open to: Freshmen and Sophomores.

**ART 4425 WEAVING STUDIO - ADVANCED II (3)** Prerequisites: 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 weaving of tapestry or yardage. Emphasis: Double weave. May 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 construction of pottery. Projects include wheel processes of construction, glazing and loading and firing the kiln. Emphasizes advanced wheel. May be repeated for credit 2 times. Class not open to: Freshmen.

**ART 4722 SCULPTURE STUDIO - ADVANCED II (3)** Prerequisite: ART 3722 or permission of instructor. Studies of three-dimensional form and composition with the several media of sculpture. Emphasizes site specific sculpture and art in the public place. May be repeated for credit 2 times. Class not open to: Freshmen and Sophomores.

**ART 4849 WORKSHOP IN ELEMENTARY ART - DRAWING AND PAINTING (2)** Provides experimentation and practice with crayon, pencil, and charcoal, tempera and watercolor, ink with particular 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 standing with a major in art or permission of instructor. Deals with preparation of the senior exhibition and explores the problems of setting up a studio and working professionally. Class open 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. Attribute: Writing Course. Class open to: Visual Arts majors. Class not open to: Freshmen, Sophomores and Juniors.

**ART 4943 ART INTERNSHIP (3-5)** Registration Approval: Intern Learning Contract Req. An opportunity for art students to gain additional proficiency and experience in an approved project of the student's own design. May be repeated for credit up to 20 credits. Class not open to: Freshmen and Sophomores.

**ART 4950 SPECIAL TOPICS IN ART (3-5)** Registration Approval: Instructor. May be repeated for credit up to 15 credits. Class open to: Visual Arts majors. Class not open to: Freshmen, Sophomores and Juniors.

**ART 4966 SENIOR STUDIO PROJECT (3)** Senior designs and completes a visual arts project. May be repeated for credit 2 times. Class open to: Visual Arts majors and Fine & Applied Arts majors. 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 graduate work or professional careers in biology and as 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 in General Biology. Transfer students are eligible to apply after

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 be a GPA of 2.5 in biology courses.

### Requirements for the Biology Major

[Refer to page 52 for a summary of degree requirements]

#### B.S. IN BIOLOGY

##### Option I

(100 Credits; 35 upper-division in biology)

This major provides preparation for graduate studies or professional careers in biology. General Physics is strongly recommended for students preparing for graduate or professional school. In addition to the requirements indicated below, students select 17 credits of elective courses (upper-division) from departmental offerings to fulfill degree requirements. Depending upon interests and professional goals, the elective coursework may be chosen to emphasize botany, cellular biology, ecology, marine biology, or zoology. Elective 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 requirements listed below, 10 elective credits are required from the following: BIO 3325, 3434, 4256, 4413, and 4418. Other recommended courses include CHM 3225 and 3400, FCS 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 or BIO 4415 Plant Physiology	5	
BIO 3351 Microbiology		5
<b>Required supporting courses</b>		
CHM 1211 General Chemistry	5	5
CHM 2371 Organic Chemistry	5	5
CHM 2372 Organic Chemistry	5	5
CHM 2373 Organic Chemistry	5	5
CHM 3225 Chemical Equilibrium and Analysis	5	
CHM 3400 Physical Chemistry for the Life Sciences	5	
MAT 1221 Survey of Calculus or MAT 1225 and 1226 Calculus	5	

chart continues on the next page

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
<b>Total</b>	<b>100</b>	<b>108</b>

\*No more than 6 credits of BIO 4950 or 5 credits in BIO 4900, 4930, 4940, or 4979 may be applied to a B.S. degree in Biology.

#### B.A. IN BIOLOGY

##### Option I

(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 related and applied biology fields. Other courses in chemistry, physics, and mathematics should be taken to meet the demand of the student's individual plans or career goals.

##### Option II

(78-80 credits; 30 upper-division)

This program is designed to provide a broad foundation in biology for liberal arts students and those preparing for the teaching profession at the junior high school or secondary level. Students preparing for teaching careers are strongly advised to take CHM 3225 and 3400 in addition to the 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 Physiology or BIO 4415 Plant Physiology		5
BIO 4615 Issues and Values in Biology (3) or PHY 3120 Physical Science and Society (5)		3-5
<b>Required supporting courses</b>		
CHM 1211 General Chemistry	5	5
CHM 2371 Organic Chemistry	5	5
CHM 2372 Organic Chemistry	5	5
CHM 2373 Organic Chemistry	5	5
CHM 3225 Chemical Equilibrium and Analysis	5	
CHM 3400 Physical Chemistry for the Life Sciences	5	
MAT 1360 Statistics or HSC 4044 Biomed Tests, Measurements and Stats	5	5
Electives	25	10
<b>Total</b>	<b>85</b>	<b>78-80</b>

B.A. Elective Courses Choose acceptable electives as indicated	B.A. I (25 credits)	B.A.II (10 credits)
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
<b>Blakely Island Field Station Courses</b>		
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 credits in BIO 4900, 4930, 4940, or 4979 may be applied to a B.A. degree in Biology.



*"Our students discover the intricate details involved in the processes of life while studying biology. The influence of SPU's strong Christian environment becomes a solid foundation for these scientists as they strive to learn and understand the mechanisms of life that God has set in motion."*

**Cynthia Fitch**  
College of Arts and Sciences



## Requirements for the Biology Minor

(34-38 Credits; 15 upper-division)  
Note that some of the courses in elective categories have prerequisites in chemistry.

### Required courses

BIO 2101, BIO 2102, and BIO 2103 General Biology ..... 15  
BIO 4615 Issues and Values in Biology ..... 3

A minimum of 8 credits each from two of the following four categories:

#### Molecular and Cellular Biology

BIO 3325 Genetics (5)  
BIO 3350 Immunology (3)  
BIO 3351 Microbiology (5)  
BIO 4352 Cell Biology (5)  
BIO 4325 Molecular Biology (5)

#### Anatomy and Physiology

BIO 2129 Human Anatomy and Physiology (5)  
BIO 2130 Human Anatomy and Physiology (5)  
BIO 4413 Animal Physiology (5)  
BIO 4415 Plant Physiology (5)  
BIO 4418 Neurobiology (5)  
BIO 4420 Histology and Microscopic Technology (5)  
BIO 4256 Environmental Physiology (5)

#### Organismal Biology

BIO 3432 Biodiversity: Vertebrate Biology (5)  
BIO 3434 Animal Behavior (5)  
BIO 3453 Biodiversity: Plant Identification and Taxonomy (5)  
BIO 3456 Biodiversity: Protista (5)  
BIO 4117 Birds of the Pacific Northwest (3)  
BIO 4435 Biodiversity: Parasites and Pests (5)  
BIO 4735 Marine Biology (5)  
BIO 4740 Marine Invertebrate Zoology (5)  
BIO 4744 Marine Botany (5)

#### Ecology and Evolution

BIO 3310 Ecology (5)  
BIO 4330 Evolutionary Mechanisms (3)  
BIO 4815 Aquatic Ecology (5)  
BIO 4820 Ecomorphology (5)  
BIO 4825 Forest Ecology (5)  
BIO 4950 Special Studies in Biology (3)  
BIO 4981 Marine Ecology (5)

**Total** ..... **34-38**

## Biology Courses

**BIO 1100 BIOLOGICAL SCIENCE (5)** Intended for non-biology majors seeking a broad understanding of biology. Basic concepts include the chemistry of living things, their structure and function, their interactions with their environment, and their diversity. Applications to current issues are considered from a Christian perspective. The emphasis varies quarterly: Humans, plants, and/or animals may be considered in some detail. No laboratory. No credit for students who have taken BIO 2102, 2102, 2103, 2129, 2130 or have Advanced Placement Biology credit. May also be offered at Blakely Island Field Station during summer quarter.

**BIO 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 environment. Includes a biblical perspective on environmental ethics.

**BIO 2101 GENERAL BIOLOGY (5)** Prerequisite: One year of high school chemistry, CHM 1100, or equivalent. Surveys scientific method, chemistry of living organisms, organization and structure of cells and genetics. Includes laboratory.

**BIO 2102 GENERAL BIOLOGY (5)** Prerequisite: BIO 2101 or permission of instructor. Surveys animal classification, structure, function, development and behavior. Includes laboratory.

**BIO 2103 GENERAL BIOLOGY (5)** Prerequisite: BIO 2101 or permission of instructor. Surveys the Kingdoms Monera, Protista, Fungi, and Plantae, plant structure and function, evolutionary mechanisms and ecology. Includes laboratory.

**BIO 2129 HUMAN ANATOMY AND PHYSIOLOGY (5)** Studies the structure and function of the human organism. Includes cells and membranes, skeletal, integumentary, muscular and nervous systems. Includes laboratory.

**BIO 2130 HUMAN ANATOMY AND PHYSIOLOGY (5)** Studies the structure and function of the human organism. Emphasizes the circulatory, immune, respiratory, digestive, endocrine, renal and reproductive systems. Includes laboratory.

**BIO 3310 ECOLOGY (5)** Prerequisites: BIO 2102, 2103 and MAT 1360 or HSC 4044. Explores interrelationships of animals and plants and environmental factors influencing their distribution. Includes laboratory. Attribute: Writing Course.

**BIO 3320 PRINCIPLES OF DEVELOPMENT (5)** Prerequisites: BIO 2102 or equivalent, and MAT 1360 or HSC 4044. Surveys principles of developmental biology in vertebrates and representative invertebrate models. Required laboratory is devoted to experimental and descriptive approaches to the study of development.

**BIO 3325 GENETICS (5)** Prerequisite: BIO 2101 and MAT 1360 or HSC 4044. Introduces inheritance of specific traits through the study of transmission genetics. Focuses on the biology of chromosomes, including DNA replication, transcription and translation. Aspects of quantitative biology including population genetics and biological statistics will be presented. Includes laboratory. Attribute: Writing Course.

**BIO 3350 IMMUNOLOGY (3)** Prerequisites: BIO 2101 or 2130. Surveys specific and non-specific immune responses, the body's response to infection by viruses, bacteria and other foreign material, and current topics in immunological research. No laboratory. Offered alternate years.

**BIO 3351 GENERAL MICROBIOLOGY (5)** Prerequisite: BIO 2101 or 2130. Explores the nature of microorganisms and their activities, the relationship of microbes to other living organisms, the biology of viruses, immunity and topics in microbiological research. Required laboratory focuses on culturing microbes and sterile technique.

**BIO 3432 BIODIVERSITY: VERTEBRATE BIOLOGY (5)** Prerequisite: BIO 2102, 2103. Examines vertebrate life in an evolutionary context through the study of adaptations, comparative anatomy, paleontology and natural history. Includes laboratory. Offered alternate years.

**BIO 3434 ANIMAL BEHAVIOR (5)** Prerequisite: BIO 2102, 2103. Examines the mechanisms and evolution of behavior in the major animal groups, exploring the application of scientific thinking and methodology to the study of animal behavior. Includes laboratory/discussion. Offered alternate years. Attribute: Writing Course.

**BIO 3453 BIODIVERSITY: PLANT IDENTIFICATION AND TAXONOMY (5)** Prerequisite: BIO 2103. Explores sampling, identification and taxonomy of the major plant families with special emphasis on the flora of the Pacific Northwest. Includes laboratory/field studies. Offered alternate years.

**BIO 3456 BIODIVERSITY: SEAWEEDS AND SLIME MOLDS (5)** Prerequisite: BIO 2103. Examines the chormista and algal plants specifically considering algae and fungus-like organisms. Their economic and ecological importance will be evaluated. Their relationship to each other and to plants, animals and true fungi will be considered by examining their ultrastructure, physiology and phylogeny. Includes laboratory/field studies. Offered alternate years.

**BIO 4256 ENVIRONMENTAL PHYSIOLOGY (5)** Prerequisites: BIO 2102 and CHM 2372. Studies organisms in relation to the physical factors of the environment. Examines physiological and biochemical aspects of adaptation. Includes laboratory. Offered alternate years. Attribute: Writing Course.

**BIO 4325 MOLECULAR BIOLOGY (5)** Prerequisites: BIO 2101, 3325. Explores gene regulation and expression in several organisms including bacteria, viruses, yeast, plants and animals. Principles of molecular genetics and genetic engineering including gene mapping, DNA and RNA isolation, gene cloning, gel electrophoresis and sequencing. Advanced topics in molecular biological research will be presented. Includes laboratory. Offered alternate years.

**BIO 4330 EVOLUTIONARY MECHANISMS (3)** Prerequisites: BIO 3310, 3325. Explores population genetics as a mechanism of evolution change, including mutation, recombination and selection. Considers speciation, netral theory, phylogenetic systematics, history, and extinction. Includes discussion of microevolutionary and macroevolutionary changes. Class not open to: Non-Matriculated.

**BIO 4352 CELL BIOLOGY (5)** Prerequisites: BIO 3325 amd CHM 2371. Examines structure and functions of viruses, bacteria, plants and animals emphasizing cellular specialization, organelle models and chemical dynamics. Includes laboratory. Course Equivalent: EGR 4352. Attribute: Writing Course.

**BIO 4361 BIOCHEMISTRY (5)** Prerequisite: CHM 2373 or 3372. (CHM 3226 and CHM 3403 are recommended.) Studies chemical properties of biological compounds: carbohydrates, lipids, amino acids and proteins and nucleic acids. Metabolism: biochemical energetics, enzymes, electron transport and oxidative phosphorylation. Integration of metabolism: biochemical genetics, metabolic regulation. Includes laboratory. Course Equivalent: CHM 4361.

**BIO 4362 BIOCHEMISTRY (5)** Prerequisite: BIO 4361. Continuation of BIO 4361. Studies chemical properties of biological compounds: carbohydrates, lipids, amino acids, proteins and nucleic acids. Metabolism: biochemical energetics, enzymes, electron transport and oxidative phosphorylation. Integration of metabolism: biochemical genetics, metabolic regulation. Includes laboratory. Course Equivalent: CHM 4362.

**BIO 4363 BIOCHEMISTRY (3)** Prerequisite: BIO 4362 or permission of instructor. Explores selected topics including: immunoglobulins and the immune system; bacterial cell walls; membrane transport; hormone action; control of expression; genetic code; muscle contraction; cell physiology; drug action; protein folding; HIV mechanisms; and mechanisms of infectious disease. Seminar format with leading researchers presenting current work. No laboratory. Course Equivalent: CHM 4363.

**BIO 4413 ANIMAL PHYSIOLOGY (5)** Prerequisite: BIO 2102 and CHM 2372. Investigates physiology of higher animals, emphasizing endocrine and neuro-coordinating systems, cardiovascular, muscular, renal and reproductive physiology of higher vertebrate organisms. Includes laboratory. Offered alternate years.

**BIO 4415 PLANT PHYSIOLOGY (5)** Prerequisite: BIO 2103. Considers photosynthesis, material transport, seed germination, growth and development, flowering and fruiting, and hormones of plants. The relationship of structure and function will be emphasized. Includes laboratory.

**BIO 4418 NEUROBIOLOGY (5)** Prerequisites: BIO 2102 or 2129 and CHM 3372. An introduction to the neurosciences, focusing on fundamental concepts and comparative aspects of nervous system structure and function. Laboratory makes extensive use of invertebrate models to examine the cellular basis of behavior, including neuronal morphology, electrophysiology, and transmitter chemistry. Includes laboratory. Offered alternate years.

**BIO 4420 HISTOLOGY AND MICROSCOPIC TECHNOLOGY (5)** Prerequisites: BIO 2102, CHM 2372. Examines microscopic anatomy of cells, tissues and organ/systems, examining their structure and the morphological evidences of their function. Emphasizes human histology. Includes laboratory. Offered alternate years.

**BIO 4435 BIODIVERSITY: PARASITES AND PESTS (5)** Prerequisite: BIO 2102. Explores the biology and classification of medically and economically important organisms, with emphasis on protozoa, parasitic worms, insects and mites. Provides a survey of parasitic disease, vector biology and animal pests of livestock and crops. Includes laboratory. Offered alternate years.

**BIO 4615 ISSUES AND VALUES IN BIOLOGY (3)** Examines biological thought, especially those historical, philosophical and ethical aspects bearing on current issues in biology which help shape a Christian world view and value system. Attribute: Writing Course. Class not open to: Freshmen and Sophomores.

**BIO 4900 INDEPENDENT STUDY IN BIOLOGY (1-3)** Registration Approval: Independent Study Agreement. Directed readings and/or investigation on special topics. May be repeated for credit up to 5 credits.

**BIO 4930 BIOLOGY PRACTICUM (1-3)** Registration Approval: Instructor. Provides opportunity for applied biology. Selected students are assigned teaching, grading, lab preparation and/or tutoring responsibilities. May be repeated for credit up to 5 credits.

**BIO 4940 INTERNSHIP IN BIOLOGY (1-5)** Registration Approval: Intern Learning Contract Req. Provides a significant learning experience to be obtained in a closely supervised work-study environment. May be repeated for credit up to 5 credits.

## 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 another 3000 acres on Blakely Island, in the San Juan archipelago of northwestern Washington. The Blakely Island Field Station serves as the teaching site for upper division biology courses in marine, aquatic, and terrestrial ecology, natural 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 few miles from the mainland, the island is isolated and home to only a few year-round residents. Facilities include a dining hall-library-classroom building that accommodates 24 students and staff, a residence hall with 10 double occupancy rooms, and a dive shop.

The island is surrounded by lush kelp forests, eelgrass meadows, and spectacular rock walls. These subtidal and intertidal habitats support a diversity of seaweeds, invertebrates, fish, and marine mammals. In the island interior, the lakes provide habitat for river otters, herons, kingfishers, bald eagles and ospreys, as well as a diverse invertebrate fauna. The terrain is rugged, rising sharply from sea level to more than 1,000 feet, and supports several distinctive forest types.

For more information, contact the Field Station Director, (206/281-2899 or [bcongdon@spu.edu](mailto:bcongdon@spu.edu)) or visit our website: <http://www.spu.edu/depts/biology/blakehome.html>

## Blakely Island Courses

**BIO 4117 BIRDS OF THE PACIFIC NORTHWEST (3)** Prerequisite: BIO 2102. Study of birds of the San Juan Islands and surrounding waters. Class activities include field observations, lectures, library research and laboratory study. Offered alternate years at the Blakely campus. Extra fee.

**BIO 4735 MARINE BIOLOGY (5)** Prerequisites: BIO 2102, 2103. Study of the marine environment, and the identification, unique features, and natural history of the organisms inhabiting it. Extra fee.

**BIO 4740 MARINE INVERTEBRATE ZOOLOGY (5)** Prerequisite: BIO 2102. Provides a field and laboratory course emphasizing identification, life histories, habitats and interrelationships of marine invertebrates from Puget Sound. Includes laboratory. Offered in summer at Blakely Island. Extra fee.

**BIO 4744 MARINE BOTANY (5)** Prerequisite: BIO 2103. Provides a field and laboratory course emphasizing identification, life histories, habitats and interrelationships of marine plants with emphasis on local flora and Blakely Island. Includes laboratory. Normally taught in summer at Blakely Island. Extra fee.

**BIO 4815 AQUATIC ECOLOGY (5)** Prerequisite: BIO 2102. Introduces students to the biology of freshwater organisms. The physical, chemical and biological characteristics of flowing and standing water habitats will be studied. The field and laboratory work will focus on lakes, streams and marshes found on Blakely Island. Extra fee. Class open to: Undergraduate level and Non-Matriculated.

**BIO 4820 ECOMORPHOLOGY (5)** Prerequisite: BIO 2102. A field course providing an introduction to the study of ecological morphology. Relationships between the environment and the structure, functional design, and behavior of organisms are examined through a combination of lectures, laboratory work, and field observations at Crowley Laboratory on Blakely Island.

**BIO 4825 FOREST ECOLOGY (5)** Prerequisite: BIO 2103. Examines the organisms that comprise the forest ecosystem and their interaction with the physical environment. Emphasis will be placed on field study of population dynamics, composition and function of the forest community, and the forest as biologically modified habitat.

**BIO 4980 BLAKELY FIELD STUDIES (1-5)** Provides a field learning experience with students focusing on a single topic or aspect of the Blakely environment (geology, animals, plants and aquatic, terrestrial 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. Symbioses, predation, herbivory, and interactions with the physical environment will be emphasized. Laboratory and field work will include the application of ecological techniques to a specific problem and will include the writing of a report describing the results. Offered during the summer quarter at Blakely Island. Extra fee. Class open to: Undergraduate level and Non-Matriculated.

## 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 Rand, Regina Schlee, Gerhard Steinke, Ian Stewart, Ross Stewart, Lisa Surdyk, Kenman Wong

*"We prepare students for service and leadership in business and society by developing their professional competence and integrity in the context of Christian faith and values.*

*We are a learning community which prizes educational excellence and effective teaching, supported by scholarship and service."*

*School of Business and Economics Mission Statement*

Specifically, the School of Business and Economics seeks to:

1. Present a uniquely value-centered curriculum that applies Christian principles to the private enterprise system as well as other economic systems;
2. Develop a wide range of student competencies including technical skills. This is achieved through a continuous curriculum review and a highly competent faculty who combine academic expertise with professional field experience;
3. Place a positive emphasis on management skills as a basis for all majors to help develop students into successful managers in public, private and not-for-profit organizations;
4. Serve business and not-for-profit organizations by developing capable, motivated graduates, offering specialized 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 of Business and Economics

Majors offered by the School of Business and Economics are accounting, business administration and economics. The business administration major offers concentrations in the following areas: (1) Economics, (2) Finance, (3) Information Systems, (4) Management (5) Marketing.

Students who are interested in a business major are encouraged to indicate their interest upon arrival at SPU. This indication is made with the Admissions Office. It does not commit the student to a major within the School, but assures that an advisor from within the School will be assigned and information about the School and its various activities will be received.

For 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 submitted to the School of Business and Economics when all admission requirements are satisfied. See the sections on individual majors for the specific admission requirements of the major.

For students who are declared majors outside the School of Business and Economics, and for non-matriculated students who wish to take upper-division classes, permission to enroll in certain upper-division classes will require instructor permission along with 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 sophomore standing; completed a minimum of 15 credits in 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 3.00 GPA in the most recent 15 credits at SPU. Application forms may be obtained in McKenna Hall or students may choose to use the on-line application on the 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 cumulative GPA from all institutions or at least a 3.00 GPA in the most recent 15 credits at SPU. Application forms may be obtained in McKenna Hall or students may choose to use the on-line application on the SBE home page at <http://www.spu.edu/depts/sbe>.

### Scholarship Program

The School of Business and Economics has, through the generous donations of corporations and individuals, several separate scholarships for School of Business and Economics majors. All incoming students interested in

these business scholarships should contact the School of Business and Economics. The application deadline for these scholarships is March 1.

### Internships

Internships give students an opportunity to gain practical work experience and to apply their academic background in a professional business environment. (See BUS/ECN 4940.)

### Interdisciplinary Program B.A. Program in Computer Science (Business Emphasis)

Students planning to major in computer science for the B.A. degree with a business application emphasis should see the Requirements for the Major in the Computer Science section of the Catalog.

### Master's Programs in the School of Business and Economics

See the SPU Graduate Catalog for details about the MBA and M.S. in Information Systems Management degree programs. Call (206) 281-2753 to request information.

## Accounting

**Ross E. Stewart, Contact Person**

Graduates with majors in accounting have careers in private industry, not-for-profit organizations and in public accounting. The program balances sound theoretical foundations with relevant applications. This provides the necessary current knowledge for the student to launch a career and also prepares the student to respond to the changing future environment and needs for accounting information.

Students who successfully complete the program will be eligible to take both the Certified Public Accountant (CPA) and the Certified Management Accountant (CMA) examinations.

### Requirements for the Major

(105 credits)

*[Refer to page 52 for a summary of degree requirements.]*

Students desiring to major in accounting must follow the application process described above. To be awarded a degree with a major in accounting, students must meet the major requirements in effect at the time declaration of a major was made and have a minimum of 45 credit hours in the major at SPU.

Students who are planning to obtain any of the professional designations such as Certified Public Accountant (CPA), Certified Management Accountant (CMA) or Certified Internal Auditor (CIA) should contact an Accounting faculty member for advising.

### 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 accounting 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 first quarter sophomore year:

ECN 2101 Principles of Microeconomics ..... 5

ECN 2102 Principles of Macroeconomics ..... 5  
BUS 2414 Legal Environment of Business (5)  
or BUS 3414 Business Law (5) ..... 5

### Core requirements to be completed during the sophomore year:

ACCT 2361 Financial Accounting ..... 5  
ACCT 2362 Managerial Accounting ..... 5  
BUS 3250 Business Finance ..... 5  
BUS 2700 Statistics For Business and Economics ..... 5

### These six courses are recommended to be completed in the junior and senior years in this order:

BUS 3400 Business Ethics ..... 5  
BUS 3614 Organizational Behavior ..... 5  
BUS 3541 Marketing and Society ..... 5  
BUS 3700 Quantitative Methods for Decision Making ..... 3  
BUS 4644 Operations Management ..... 5  
BUS 4690 Strategic Management ..... 5

### These requirements should be completed during the junior or senior year:

BUS 3620 Management Information Systems ..... 5

### Accounting Core Courses

ACCT 3327 Cost Accounting ..... 5  
ACCT 3351 Intermediate Accounting I ..... 5  
ACCT 3352 Intermediate Accounting II ..... 5  
ACCT 3353 Intermediate Accounting III ..... 5  
ACCT 4362 Accounting Theory and Problems ..... 5

Also select two of the following three courses:

ACCT 3324 Federal Income Taxation (5)  
ACCT 3328 Auditing (5)  
ACCT 4351 International Accounting (5) ..... 10

**Total ..... 106\***

\*or 103 credits if computer courses are waived

### Accounting Courses

**ACCT 2361 FINANCIAL ACCOUNTING (5)** Makes clear the ways in which accounting is an information development and communication function that supports economic decision making, and prepares students for subsequent learning. Not recommended for first quarter freshmen.

**ACCT 2362 MANAGERIAL ACCOUNTING (5)** Prerequisites: BUS 2361 and BUS 1700 or CSC 1123 or competency exam. Develops basic concepts and skills for preparing accounting information for managerial decision making purposes. Computer spreadsheet skills are required.

**ACCT 3324 FEDERAL INCOME TAXATION (5)** 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 open to: Freshmen.

**ACCT 3325 FEDERAL INCOME TAX II (5)** This is a continuation of ACCT 3324. Class not open to: Freshmen.

**ACCT 3327 COST ACCOUNTING (5)** Prerequisite: ACCT 2362. Introduces basic principles of cost accounting as applied to materials, labor and manufacturing overhead. Class not open to: Freshmen.

**ACCT 3328 AUDITING (5)** Prerequisite: ACCT 3352. Teaches auditing procedures for verifying 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 I (5)** Prerequisite: ACCT 2362. Studies the concepts and principles of accounting related to recognition, valuation and classification of economic events. Includes issues related to the measurement of income. 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: Freshmen.

**ACCT 4351 INTERNATIONAL ACCOUNTING (5)** Prerequisite: ACCT 3353. Considers and analyzes financial accounting con-



cepts relating to consolidated financial statements, translation of foreign financial statements and accounting for foreign transactions, international financial reporting and accounting for special entities. Recommended for CPA examination preparation. Class not open to: Freshmen and Sophomores.

### ACCT 4362 ACCOUNTING THEORY AND PROBLEMS (5)

Prerequisite: 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 in depth with the objective of having the student form a well-reasoned position on the matter. Attribute: Writing Course. Class not open to: Freshmen and Sophomores.

## Business Administration

### Douglas A. Downing, Contact Person

The business administration major provides a broad-based education in the fundamental theories, principles and practices of modern business. The program develops a general management outlook toward organizations and the changing environment they face. It teaches standards of professional and ethical behavior along with the technical expertise and leadership attributes necessary to attain entry-level positions in business.

Students who major in business administration are expected to master a core of courses in business and economics as well as a concentration selected from one of the following areas: (1) Economics, (2) Finance, (3) Information Systems, (4) Management, and (5) Marketing.

Students in all concentrations will take the following common core of classes described below under General Core.

### Requirements for the Major

(95 credits)

[Refer to page 52 for a summary of degree requirements.]

Students desiring to major in business administration must follow the application process described above. To be awarded a degree with a major in business administration, students must meet the general core requirements and complete at least one 15 credit concentration. Major requirements are based on those in effect at the time declaration of the major was made. Also, a minimum of 45 credit hours in the major must be completed at SPU.

### General Core

Demonstration of computer competency is required. This is documented by passing 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).

### Core requirements to be completed by first quarter sophomore year:

ECN 2101 Principles of Microeconomics .....	5
ECN 2102 Principles of Macroeconomics .....	5
BUS 2414 Legal Environment of Business .....	5

### Core requirements to be completed during the sophomore year:

ACCT 2361 Financial Accounting .....	5
ACCT 2362 Managerial Accounting .....	5
BUS 3250 Business Finance .....	5
BUS 2700 Statistics for Business and Economics .....	5

### These six courses are recommended to be completed during the junior and senior years in this order

BUS 3400 Business Ethics .....	5
BUS 3614 Organizational Behavior .....	5
BUS 3541 Marketing and Society .....	5
BUS 3700 Quantitative Methods for Decision Making .....	3
BUS 4644 Operations Management .....	5
BUS 4690 Strategic Management .....	5

### These four requirements may be completed any time during the junior or senior year:

BUS 3620 Management Information Systems .....	5
BUS 3828 International Business .....	5
BUS 4940 Internship .....	2
BUS xxxx An upper-division elective of the student's choice (from ACCT, BUS, or ECN .....	3
<b>Total general core: .....</b>	<b>78 - 81</b>

In addition to the general core, students must take 15 credits in one of the following concentrations:

### Management Concentration

BUS 3631 Entrepreneurship .....	5
BUS 3657 Human Resource Management .....	5
BUS 4660 Managing Systems .....	5

### Marketing Concentration

BUS 3542 Marketing Research .....	5
BUS 4542 Consumer Behavior .....	5
BUS 4543 Marketing Management .....	5

### Finance Concentration

BUS 3251 Investments .....	5
BUS 4274 Problems in Corporate Finance .....	5
BUS 4275 Practice of Finance .....	5

### Economics Concentration

ECN 3101 Intermediate Macroeconomics .....	5
ECN 3102 Applied Economics .....	5
ECN 4641 History of Economic Thought .....	5

### Information Systems Concentration

CSC 1230 Problem Solving and Programming .....	5
BUS 4620 Computer Networks .....	5
BUS 4622 Information and Database Systems .....	5

**Total .....** **96\***

\*or 93 credits if computer courses are waived

### Requirements for the Minor in Business Administration

The School of Business and Economics offers a business minor for students who want to complement their major with general business coursework. Formal declaration of a minor is required. Acceptance is based upon an application to the School of Business and Economics with a minimum cumulative grade point average of at least 2.70 in a minimum of 45 quarter credits of coursework or at least a 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>.

ECN 1100 or ECN 2101 or ECN 2102 .....	5
ACCT 2361 Financial Accounting .....	5
BUS 3400 Business Ethics .....	5
Choose two of these three	
BUS 3250 Finance (5)	
BUS 3541 Marketing and Society (5)	
BUS 3614 Organizational Behavior (5) .....	10
Choose one other course from ACCT, BUS, or ECN. ....	5
<b>Total .....</b>	<b>30</b>

## Business Courses

(See Admission to Majors section for requirements to enroll in upper-division courses.)

### BUS 1100 INTRODUCTION TO FINANCIAL MANAGEMENT

(3) Registration Approval: Instructor. Studies the key areas of financial management in the firm. These include financial markets, internal and external sources of funds, working capital management, capital budgeting, valuation and financial forecasting. Class open to: Non-Matriculated.

**BUS 1700 SPREADSHEETS (1)** What is a "Spreadsheet"? Creating, modifying, saving and printing spreadsheet documents. Entering and using formulas and calculations. Editing and importing data. Incorporating graphs. Formatting and enhancing the appearance of a spreadsheet document. Course Equivalent: CSC 1123.

**BUS 2414 LEGAL ENVIRONMENT OF BUSINESS (5)** Studies the relationship between law and business. Includes coverage of laws which impact the employer-employee relationship, product safety, advertising, contracts, business organizations and business crimes and torts.

**BUS 2700 STATISTICS FOR BUSINESS AND ECONOMICS (5)** Prerequisite: BUS 1700 or CSC 1123 or competency exam. Explores descriptive statistics, probability, random variable distributions, estimation, hypothesis testing, regression and nonparametric statistics.

**BUS 3250 BUSINESS FINANCE (5)** Prerequisite: ACCT 2361. Studies the principles of financial markets, internal and external sources of funds and their costs to the firm. Includes management of working capital, capital budgeting, valuation issues and financial planning. Class not open to: Freshmen.

**BUS 3251 INVESTMENTS (5)** Prerequisite: BUS 3250. Studies the basic problems and issues concerning development and implementation of a personal investment program. Includes analysis of investment risks, types of investments, securities markets and portfolio theory. Also considers securities analysis and valuation techniques. Class open to: School of Business & Economics majors. Class not open to: Freshmen.

**BUS 3400 BUSINESS ETHICS (5)** Prerequisite: BIL 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 MOTIVATION AND LEADERSHIP (5)** Prerequisite: BUS 3614. Presents the theories and principles of motivation and leadership with practical application in business, church, community 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: BUS 2700, 3541. Studies the marketing research process: preliminary 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. Describes the theory and practice of advertising and its role in the firm and in the socio-economic system. Discusses techniques and the management of advertising and applies them to the practice of marketing. Class not open to: Freshmen.

**BUS 3545 SALES AND SALES MANAGEMENT (5)** Prerequisites: BUS 3541, 3614. Sales planning and organization. Management of the sales force for productivity. Personal selling techniques. Class open to: School of Business & Economics 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 used to examine interdependencies between organization environments, strategy, structure, process/systems, and culture with an emphasis on the human dimension. Class not open to: Freshmen.

### BUS 3620 MANAGEMENT INFORMATION SYSTEMS (5)

Satisfies SBE computer competency requirement. Studies the processes for collecting, verifying, and processing information to assist management in making decisions to achieve the organization's goals. Software, hardware, networks and electronic data interchange will be examined, with computer systems viewed as one part of the complete information system. Class not open to: Freshmen.

**BUS 3631 ENTREPRENEURSHIP (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 personality and the nature of the entrepreneurial task. Special emphasis is placed upon leadership, venture planning, time management and the transfer of technology from concept to commercialization. Class open to: School of Business & Economics majors. Class not open to: Freshmen.

**BUS 3657 HUMAN RESOURCE MANAGEMENT (5)** Prerequisite: BUS 3614. An introduction to the management of human resources in organizations. Theory, research and practice in the areas of human resources planning, job analysis and design, recruiting and staffing, training and development, performance appraisal, compensation, organization development, government regulation of HRM and quality of work life will be studied. Class open to: School of Business & Economics majors. Class not open to: Freshmen.

**BUS 3670 MANAGEMENT IN THE NON-PROFIT SECTOR (3)** Focuses on the management of not-for-profit organizations. Includes analysis of board of directors, management responsibilities, funding requirements, coordination and direction of volunteers, legal issues and public relations. Appropriate for those interested in the management of churches, hospitals, performing groups, social service organizations. Class open to: School of Business & Economics majors. Class not open to: Freshmen.

**BUS 3700 QUANTITATIVE 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 INTERNATIONAL BUSINESS (5)** Covers the major forms of international business including problems of licensing, production, marketing, import and export; emphasizes relationships between theory and practice regarding management, government policy, and international problems. Class not open to: Freshmen.

**BUS 4273 SPECIAL TOPICS IN FINANCE (3)** Prerequisites: BUS 3250; junior standing. Presents lectures and case studies dealing with cash flow, cash budgets, financial forecasting and establishing and maintaining relationships with financial sources. Also considers capital budgeting, leasing and specialized funding vehicles. Class not open to: Freshmen.

**BUS 4274 PROBLEMS IN CORPORATE FINANCE (5)** Prerequisite: BUS 3250. Gives an in-depth treatment of the more critical aspects of financial decision making introduced in BUS 3250, utilizing lectures and case studies. Topics typically include mergers and acquisitions, forecasting and cash budgeting, valuation techniques and capital structure issues. Class open to: School 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 4542 CONSUMER BEHAVIOR (5)** Prerequisite: BUS 3541. Examines how consumers make choices about what, how and when they buy. Special emphasis will be placed on integrating cognitive, behavioral and ethical concepts in the study of consumer behavior, and the relationships of consumer behavior with marketing strategies. Class open to: School of Business & Economics 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 simulation and a case format. Class open to: School of Business & Economics majors. Class not open to: Freshmen.

**BUS 4620 COMPUTER NETWORKS (5)** Prerequisite: BUS 3620. The components, development and management of computer networks are studied. Topics include: telecommunications, installation and configuration of computer systems, network op-

erations and management, client/server network issues, distributed systems, business applications of networks, hands-on network installation. Class open to: School of Business & Economics 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 implementation and application of a database. Topics include: information modeling, database design and manipulation, query languages, integrity, reliability, distributed database, database management, design and implementation of a database application. Class not open to: Freshmen.

**BUS 4644 OPERATIONS MANAGEMENT (5)** Prerequisites: BUS 3614, 3700. Analyzes theory and application of the systems approach to production management. Provides a focus on the decision making process, the design and control of manpower, materials and machines in several production/service environments. Class open to: School of Business & Economics majors. Class not open to: Freshmen and Sophomores.

**BUS 4660 MANAGING SYSTEMS (5)** Prerequisite: BUS 3614. This capstone management course is a problem-focused look at organizational systems. Building upon a systems-theory model we will explore the macro-level issues and dynamics of whole organizations. Topics will include: organization structure, technology, culture, context, power and politics, effectiveness, innovation, learning and change. This is an applications-oriented course, where our analysis of companies will be informed by theory and grounded in practice. The term will culminate in a comprehensive group project and presentation. Class open to: Business Administration majors and Business and Economics majors. Class not open to: Freshmen and Sophomores.

**BUS 4661 SPECIAL TOPICS IN MANAGEMENT (3)** Prerequisite: BUS 3614 Students analyze current issues in improving the effectiveness of organizations. Class open to: Business Administration 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 formulation and implementation processes and the measurement of performance designed to aid organizations to achieve the purpose and objectives of both small and large businesses. Attribute: Writing Course. Class not open to: Freshmen and Sophomores.

**BUS 4900 INDEPENDENT STUDY IN BUSINESS (1-5)** Registration Approval: Independent Study Agreement. The student proposes a topic of current interest in business to a professor in the School of Business and Economics. The student meets with the professor to discuss a bibliography and rough drafts before turning in the final draft of a paper. 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 there must be equivalent work in exams or other requirements. May be repeated for credit up to 5 credits.

**BUS 4940 INTERNSHIP (2-5)** Registration Approval: Intern Learning Contract Req. Provides field experience opportunities for students to relate and apply principles of business, faith, service and leadership to a professional business setting. Course consists of 1) an internship in a professional business setting (minimum 10 hours/week) and 2) an on-campus seminar. Internship placement must be arranged the quarter prior to registration. Additional information may be obtained from the Career Development Center or Internship Coordinator for the School of Business and Economics. May be repeated for credit up to 10 credits. Course Equivalent: ECN 4940. Class not open to: Freshmen and Sophomores.

# Economics

**Douglas A. Downing, Contact Person**  
Economics is the study of the allocation of scarce resources among competing uses. Many vital issues that affect human welfare are studied in economics, 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

(70 credits)  
(Refer to page 52 for a summary of degree requirements). Students desiring to major in economics must follow the application process described above. To be awarded a degree with a major in economics, students must meet the major requirements in effect at the time declaration of a major was made and have a minimum of 45 credit hours in the major at SPU.

## General Core

Demonstration of computer competency is required. This is documented by passing 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 first quarter sophomore year

BUS 2700 Statistics for Business and Economics .....	5
ECN 2101 Principles of Microeconomics .....	5
ECN 2102 Principles of Macroeconomics .....	5
Select one course from the following:	
GEO 1110 World Regional Geography (5)	
POL 1110 Introduction to Politics (5)	
SOC 1110 Introduction to Sociology (5) .....	5

## Core requirements to be completed during the sophomore year

ACCT 2361 Financial Accounting .....	5
--------------------------------------	---

## Core requirements to be completed junior or senior years

ECN 3101 Intermediate Macroeconomics .....	5
ECN 3102 Applied Economics .....	5
ECN 3321 Money and Banking .....	5
ECN 4310 International Political Economics (5)	
or POL 3320 Political and Economic Development of Nations (5) .....	5
BUS 3700 Quantitative Methods for Decision Making .....	3
BUS 3400 Business Ethics .....	5

## Economics electives (15 credits required)

Take at least two courses from the following list; Students then may (with approval of advisor) select ECN 4900 or a course in finance or business to complete the 15 credits.

ECN 2207 Economic Geography (5)	
ECN 3231 Urban 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) .....	15
<b>Total .....</b>	<b>71*</b>

\*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 be a valuable addition to the degree. These requirements also satisfy the requirements for a teaching endorsement in economics. The requirements for the minor in economics include a 20 credit core of ECN 2101, ECN 2102, BUS 3400 and either ECN 3101 or ECN 3102, followed by 10 elective credits in ECN or other approved coursework. Formal declaration of the minor is required. Acceptance is based upon an application to the School of Business and Economics with a minimum cumulative GPA of at least 2.70 in a minimum of 45 quarter credits of coursework or at least a 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 and the public sector, international trade, economic growth, and capitalism and socialism.

**ECN 2101 PRINCIPLES OF MICROECONOMICS (5)** Provides a foundation course for business majors. Topics include supply and demand; markets and the price system; allocation of resources, income distribution, economic power and the public sector; international trade; and comparative economic systems.

**ECN 2102 PRINCIPLES OF MACROECONOMICS (5)** Presents topics including elementary demand and supply, determination of national income, employment and prices, money and banking system, fiscal and monetary policy and economic welfare, economic growth and development and international finance.

**ECN 2207 ECONOMIC GEOGRAPHY (5)** Surveys the changing world production and distribution systems, particularly principles and conditions 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.

**ECN 3101 INTERMEDIATE MACROECONOMICS (5)** Prerequisites: ECN 2101, 2102. An analysis of aggregate income, employment, and price level; and classical, Keynesian, and recent contributions. Offered alternate years. Attribute: Writing Course. Class not open to: Freshmen.

**ECN 3102 APPLIED ECONOMICS (5)** Prerequisites: ECN 2101, 2102; BUS 2700; computer familiarity. Examines microeconomics at the intermediate level with particular application to operations of the firm. Emphasizes the application of theory to actual situations encountered in the management of firms and explores the use of economic theory for projections and forecasting. Class not open to: Freshmen.

**ECN 3231 URBAN LAND ECONOMICS (5)** Prerequisite: ECN 1100 or 2101. Examines economic and social factors influencing urban growth and land use patterns, especially forces influencing the demand for urban land and affecting intra-urban rent, real estate values and the housing market. Examines such factors as taxation, zoning, and other land use policies as they relate to the development of urban land. Offered alternate years. Class not open to: Freshmen.

**ECN 3316 ISSUES IN POLITICAL ECONOMY (5)** Prerequisites: ECN 2101, 2102; Junior standing preferred or permission of instructor. Studies the interrelationship between politics and economics and their effect on human welfare: economic issues, policies and reform. Offered alternate years. Attribute: Writing Course. Class not open to: Freshmen.

**ECN 3318 ECONOMICS OF THE PUBLIC SECTOR (5)** Prerequisite: ECN 1100 or 2101. Presents the rationale for governmental provision of goods and services, non-market decision making, public expenditure analysis, taxation, fiscal policy, and the role of the government in economic systems. Offered alternate years. Class not open to: Freshmen.

**ECN 3321 MONEY AND BANKING (5)** Prerequisites: ECN 2101 and 2102; ACCT 2361. Surveys monetary theory and the role of major financial institutions such as commercial banks, the Federal Reserve System, and savings institutions in the monetary system. The impact of bank operations on the quantity and flow of money in the economic system is emphasized. Class not open to: Freshmen.

**ECN 3635 MARXISM: 20TH CENTURY THEORY AND PRACTICE (3)** Examines the development of varieties of Marxist theory and practice in the 20th century, compares the Soviet, European, Chinese and Latin American experiences with Marxist thought and practice. Offered alternate years. Course Equivalents: HIS 3435 and POL 3435. 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 attention to the rise of the modern business system and its impact on American society; gives corollary consideration of labor, agriculture, technology, and the monetary system. Offered alternate years. Course Equivalent: HIS 3640. Class not open to: Freshmen.

**ECN 4310 INTERNATIONAL POLITICAL ECONOMY (5)** Examines the nature and dynamics of the global economy in relation to the economies and political systems of nations and to theories and models of national, regional and global economic growth. International trade, business and government policy are studied in this context. Offered alternate years. Course Equivalent: POL 4310. 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 biblical, classical, physiocratic and mercantilist schools of economic thought. Offered alternate years. May be repeated for credit up to 3 credits. Attribute: Writing Course. Class not open to: Freshmen.

**ECN 4642 HISTORY OF ECONOMIC THOUGHT II (1-3)** Registration Approval: Instructor. Prerequisites: ECN 2101, 2102 and 4641. Continuation of ECN 4641. Class not open to: Freshmen.

**ECN 4900 INDEPENDENT STUDY IN ECONOMICS (1-5)** Registration Approval: Independent Study Agreement. The student proposes a topic of current interest in business to a professor in the School of Business and Economics. The student meets with the professor to discuss a bibliography and rough drafts before turning in the final draft of a paper. 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 there must be equivalent work in exams or other requirements. May be repeated for credit up to 5 credits.

**ECN 4940 INTERNSHIP IN ECONOMICS (2-5)** Registration Approval: Intern Learning Contract Req. Provides field experience opportunities for students to relate and apply principles of business, faith, service, and leadership to a professional business setting. Course consists of 1) an internship in a professional business setting (minimum 10 hours/week) and 2) an on-campus seminar. Internship placement must be arranged the quarter prior to registration. Additional information may be obtained from the Career Development Center or Internship Coordinator for the School of Business and Economics. May be repeated for credit up to 10 credits. Course Equivalent: BUS 4940. Class not open to: Freshmen and Sophomores.

## 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 which provides quality education and spiritual guidance to students who are preparing for a career in business, government, and private non-profit institutions.

### Executive Advisory Council Members

CHARLES L. ANDERSON, Chairman, TelTone Corporation  
MARTIN and NONA BRAZIER, Owners, World Environmental Systems, Inc.  
THOMAS K. BROWN [EAC Emeritus]  
DOUG BURLEIGH, Associate, Leadership Development Foundation

*"The School of Business and Economics strives to apply Christian faith to business through our work and the lives of our students. We want to make a real difference in this major sphere of life by educating people whose leadership and service reflect Christian values and virtues."*

**Gary Karns**  
School of Business and Economics





erations and management, client/server network issues, distributed systems, business applications of networks, hands-on network installation. Class open to: School of Business & Economics 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 implementation and application of a database. Topics include: information modeling, database design and manipulation, query languages, integrity, reliability, distributed database, database management, design and implementation of a database application. Class not open to: Freshmen.

**BUS 4644 OPERATIONS MANAGEMENT (5)** Prerequisites: BUS 3614, 3700. Analyzes theory and application of the systems approach to production management. Provides a focus on the decision making process, the design and control of manpower, materials and machines in several production/service environments. Class open to: School of Business & Economics majors. Class not open to: Freshmen and Sophomores.

**BUS 4660 MANAGING SYSTEMS (5)** Prerequisite: BUS 3614. This capstone management course is a problem-focused look at organizational systems. Building upon a systems-theory model we will explore the macro-level issues and dynamics of whole organizations. Topics will include: organization structure, technology, culture, context, power and politics, effectiveness, innovation, learning and change. This is an applications-oriented course, where our analysis of companies will be informed by theory and grounded in practice. The term will culminate in a comprehensive group project and presentation. Class open to: Business Administration majors and Business and Economics majors. Class not open to: Freshmen and Sophomores.

**BUS 4661 SPECIAL TOPICS IN MANAGEMENT (3)** Prerequisite: BUS 3614 Students analyze current issues in improving the effectiveness of organizations. Class open to: Business Administration 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 formulation and implementation processes and the measurement of performance designed to aid organizations to achieve the purpose and objectives of both small and large businesses. Attribute: Writing Course. Class not open to: Freshmen and Sophomores.

**BUS 4900 INDEPENDENT STUDY IN BUSINESS (1-5)** Registration Approval: Independent Study Agreement. The student proposes a topic of current interest in business to a professor in the School of Business and Economics. The student meets with the professor to discuss a bibliography and rough drafts before turning in the final draft of a paper. 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 there must be equivalent work in exams or other requirements. May be repeated for credit up to 5 credits.

**BUS 4940 INTERNSHIP (2-5)** Registration Approval: Intern Learning Contract Req. Provides field experience opportunities for students to relate and apply principles of business, faith, service and leadership to a professional business setting. Course consists of 1) an internship in a professional business setting (minimum 10 hours/week) and 2) an on-campus seminar. Internship placement must be arranged the quarter prior to registration. Additional information may be obtained from the Career Development Center or Internship Coordinator for the School of Business and Economics. May be repeated for credit up to 10 credits. Course Equivalent: ECN 4940. Class not open to: Freshmen and Sophomores.

## Economics

**Douglas A. Downing, Contact Person**

Economics is the study of the allocation of scarce resources among competing uses. Many vital issues that affect human welfare are studied in economics, 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

(70 credits)

(Refer to page 52 for a summary of degree requirements).

Students desiring to major in economics must follow the application process described above. To be awarded a degree with a major in economics, students must meet the major requirements in effect at the time declaration of a major was made and have a minimum of 45 credit hours in the major at SPU.

### General Core

Demonstration of computer competency is required. This is documented by passing 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 first quarter sophomore year

BUS 2700 Statistics for Business and Economics .....	5
ECN 2101 Principles of Microeconomics .....	5
ECN 2102 Principles of Macroeconomics .....	5
Select one course from the following:	
GEO 1110 World Regional Geography (5)	
POL 1110 Introduction to Politics (5)	
SOC 1110 Introduction to Sociology (5) .....	5

### Core requirements to be completed during the sophomore year

ACCT 2361 Financial Accounting .....	5
--------------------------------------	---

### Core requirements to be completed junior or senior years

ECN 3101 Intermediate Macroeconomics .....	5
ECN 3102 Applied Economics .....	5
ECN 3321 Money and Banking .....	5
ECN 4310 International Political Economics (5)	
or POL 3320 Political and Economic Development of Nations (5) .....	5
BUS 3700 Quantitative Methods for Decision Making .....	3
BUS 3400 Business Ethics .....	5

### Economics electives (15 credits required)

Take at least two courses from the following list; Students then may (with approval of advisor) select ECN 4900 or a course in finance or business to complete the 15 credits.	
ECN 2207 Economic Geography (5)	
ECN 3231 Urban 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) .....	15
<b>Total .....</b>	<b>71*</b>

\*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 be a valuable addition to the degree. These requirements also satisfy the requirements for a teaching endorsement in economics. The requirements for the minor in economics include a 20 credit core of ECN 2101, ECN 2102, BUS 3400 and either ECN 3101 or ECN 3102, followed by 10 elective credits in ECN or other approved coursework. Formal declaration of the minor is required. Acceptance is based upon an application to the School of Business and Economics with a minimum cumulative GPA of at least 2.70 in a minimum of 45 quarter credits of coursework or at least a 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 and the public sector, international trade, economic growth, and capitalism and socialism.

**ECN 2101 PRINCIPLES OF MICROECONOMICS (5)** Provides a foundation course for business majors. Topics include supply and demand; markets and the price system; allocation of resources, income distribution, economic power and the public sector; international trade; and comparative economic systems.

**ECN 2102 PRINCIPLES OF MACROECONOMICS (5)** Presents topics including elementary demand and supply, determination of national income, employment and prices, money and banking system, fiscal and monetary policy and economic welfare, economic growth and development and international finance.

**ECN 2207 ECONOMIC GEOGRAPHY (5)** Surveys the changing world production and distribution systems, particularly principles and conditions 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.

**ECN 3101 INTERMEDIATE MACROECONOMICS (5)** Prerequisites: ECN 2101, 2102. An analysis of aggregate income, employment, and price level; and classical, Keynesian, and recent contributions. Offered alternate years. Attribute: Writing Course. Class not open to: Freshmen.

**ECN 3102 APPLIED ECONOMICS (5)** Prerequisites: ECN 2101, 2102; BUS 2700; computer familiarity. Examines microeconomics at the intermediate level with particular application to operations of the firm. Emphasizes the application of theory to actual situations encountered in the management of firms and explores the use of economic theory for projections and forecasting. Class not open to: Freshmen.

**ECN 3231 URBAN LAND ECONOMICS (5)** Prerequisite: ECN 1100 or 2101. Examines economic and social factors influencing urban growth and land use patterns, especially forces influencing the demand for urban land and affecting intra-urban rent, real estate values and the housing market. Examines such factors as taxation, zoning, and other land use policies as they relate to the development of urban land. Offered alternate years. Class not open to: Freshmen.

**ECN 3316 ISSUES IN POLITICAL ECONOMY (5)** Prerequisites: ECN 2101, 2102; Junior standing preferred or permission of instructor. Studies the interrelationship between politics and economics and their effect on human welfare: economic issues, policies and reform. Offered alternate years. Attribute: Writing Course. Class not open to: Freshmen.

**ECN 3318 ECONOMICS OF THE PUBLIC SECTOR (5)** Prerequisite: ECN 1100 or 2101. Presents the rationale for governmental provision of goods and services, non-market decision making, public expenditure analysis, taxation, fiscal policy, and the role of the government in economic systems. Offered alternate years. Class not open to: Freshmen.

**ECN 3321 MONEY AND BANKING (5)** Prerequisites: ECN 2101 and 2102; ACCT 2361. Surveys monetary theory and the role of major financial institutions such as commercial banks, the Federal Reserve System, and savings institutions in the monetary system. The impact of bank operations on the quantity and flow of money in the economic system is emphasized. Class not open to: Freshmen.

**ECN 3635 MARXISM: 20TH CENTURY THEORY AND PRACTICE (3)** Examines the development of varieties of Marxist theory and practice in the 20th century, compares the Soviet, European, Chinese and Latin American experiences with Marxist thought and practice. Offered alternate years. Course Equivalents: HIS 3435 and POL 3435. 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 attention to the rise of the modern business system and its impact on American society; gives corollary consideration of labor, agriculture, technology, and the monetary system. Offered alternate years. Course Equivalent: HIS 3640. Class not open to: Freshmen.

**ECN 4310 INTERNATIONAL POLITICAL ECONOMY (5)** Examines the nature and dynamics of the global economy in relation to the economics and political systems of nations and to theories and models of national, regional and global economic growth. International trade, business and government policy are studied in this context. Offered alternate years. Course Equivalent: POL 4310. 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 biblical, classical, physiocratic and mercantilist schools of economic thought. Offered alternate years. May be repeated for credit up to 3 credits. Attribute: Writing Course. Class not open to: Freshmen.

**ECN 4642 HISTORY OF ECONOMIC THOUGHT II (1-3)** Registration Approval: Instructor. Prerequisites: ECN 2101, 2102 and 4641. Continuation of ECN 4641. Class not open to: Freshmen.

**ECN 4900 INDEPENDENT STUDY IN ECONOMICS (1-5)** Registration Approval: Independent Study Agreement. The student proposes a topic of current interest in business to a professor in the School of Business and Economics. The student meets with the professor to discuss a bibliography and rough drafts before turning in the final draft of a paper. 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 there must be equivalent work in exams or other requirements. May be repeated for credit up to 5 credits.

**ECN 4940 INTERNSHIP IN ECONOMICS (2-5)** Registration Approval: Intern Learning Contract Req. Provides field experience opportunities for students to relate and apply principles of business, faith, service, and leadership to a professional business setting. Course consists of 1) an internship in a professional business setting (minimum 10 hours/week) and 2) an on-campus seminar. Internship placement must be arranged the quarter prior to registration. Additional information may be obtained from the Career Development Center or Internship Coordinator for the School of Business and Economics. May be repeated for credit up to 10 credits. Course Equivalent: BUS 4940. Class not open to: Freshmen and Sophomores.

### 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 which provides quality education and spiritual guidance to students who are preparing for a career in business, government, and private non-profit institutions.

#### Executive Advisory Council Members

CHARLES L. ANDERSON, Chairman, TelTone Corporation  
MARTIN and NONA BRAZIER, Owners, World Environmental Systems, Inc.  
THOMAS K. BROWN [EAC Emeritus]  
DOUG BURLEIGH, Associate, Leadership Development Foundation

*"The School of Business and Economics strives to apply Christian faith to business through our work and the lives of our students. We want to make a real difference in this major sphere of life by educating people whose leadership and service reflect Christian values and virtues."*

**Gary Karns**  
School of Business and Economics



NANCY CAHILL, Attorney, Ellis Li & McKinstry  
LUTHER J. CARR, JR., President, The Environmental Housing Group  
ROBERT L. DRYDEN, Executive Vice President, Airplane Production, Boeing Commercial Airplane Group  
DAVID A. EDERER, Chairman, Ederer Investment Company  
DALE M. FOREMAN, Attorney at Law, Foreman, Arch, Dodge, and Volyn  
F. KEMPER FREEMAN, President, Bellevue Square  
MICHAEL R. HALLMAN, Owner, The Hallman Group  
BRUCE R. KENNEDY, Chairman Emeritus, Alaska Air Group, Inc.  
SHIRLEY LANSING, Vice Chairman, General Employment Services, Inc.  
DAVID R. LAUBE, Vice President, Chief Information Officer, U S WEST Communications  
JACK J. LINK, President, Tri-Land Corporation  
DONALD P. LORENTZ, Director, Economic and Trade Development Department, Port of Seattle  
NANCY C. LUCKS, Consultant  
JACK McMILLAN, Director, Nordstrom  
GORDON A. NYGARD, Treasurer, Seattle Pacific Foundation  
JAMES H. SCHAFER, Senior Vice President, Employee Resources Group, The Seattle Times  
PHIL SMART, SR., Chairman of the Board, Phil Smart Mercedes-Benz  
DONALD B. SUMMERS, President, The Meridian Consulting Group, Inc.  
GEORGE TOLES, Owner, The Toles Company  
JEFFREY B. VAN DUZER, Partner, Davis Wright Tremaine  
FREDERIC S. WEISS, President, The Weiss Company  
GORDON R. WERKEMA, Executive Vice President, Federal Reserve Bank of San Francisco  
ROBERT L. WILEY, Managing Partner, Fidelity Associates, [EAC Emeritus]  
JAMES G. YOUNG, President and Chief Executive Officer, Seattle Steam Company

## Chemistry and Biochemistry

Grayson L. Capp, *Chair*; Paul A. Lepse, Wesley E. Lingren, Lyle B. Peter

Chemistry is primarily concerned with matter, energy, and their interactions. Chemists do a wide variety of things, such as making new substances, including new materials and 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 for criminal investigations and environmental problems, selling chemicals, teaching chemistry, and applying chemical knowledge to solve other societal and technological problems. Chemists are concerned about the effect their work and technology have on society and on individuals. They are in the forefront of efforts to make sure that technology serves humankind rather than vice versa.

The curriculum is designed to serve persons desiring to enter a career in chemistry, biochemistry, or science education, as well as those interested in pursuing further study in medicine, dentistry, pharmacy, engineering and the other sciences.

To qualify for admission to the major, a student must have a 2.5 minimum GPA.

### Requirements for the Chemistry Major

[Refer to page 52 for a summary of degree requirements]

#### Core Courses

CHM 1211* General Chemistry .....	5
CHM 2371, 2372, 2373 Organic Chemistry .....	15
CHM 3225, 3226 Analytical Chemistry .....	10
CHM 3540 Inorganic Chemistry .....	5
PHY 1101, 1102, 1103	
or PHY 1121, 1122, 1123 General Physics .....	15
<b>Total .....</b>	<b>50</b>

\* CHM 1211 is not required for exceptionally well prepared students.

**CHEMISTRY SEMINARS.** Chemistry majors are required to attend the chemistry seminars during their junior and senior years. These seminars will be scheduled up to five times per quarter to provide a forum for undergraduate research students, faculty, and visiting chemists to communicate the results of their research.

#### B.S. in Chemistry

(65 Credits; 45 upper-division)  
This course of study is recommended for a professional degree in chemistry or for those interested in doing graduate and other advanced work in chemistry, certain aspects of molecular biology, toxicology, and forensic science. It conforms with the recommendations of the American Chemical Society, and should prepare the student for graduate work in chemistry or for employment as a chemist. A minimum of 65 credits in chemistry (excluding CHM 1100, 1110, 1330, and 3400) is required, including the core requirements listed above, and: CHM 3401, 3402, 3403 (14 credits); CHM 3460 (1 credit); CHM 4542 (5 credits); 5 credits of Independent Project (CHM 4900), or Internship (CHM 4940) plus chemistry electives. The physics requirement and chemistry seminar requirement are described above. Also, MAT 1225, 1226, and 1228 are required. Additional mathematics is recommended for students planning to go on to graduate work in certain areas of chemistry. A computer programming course is strongly recommended. A reading knowledge of German, French, or Russian is desirable for those who plan to do graduate work in chemistry.

The B.S. chemistry track is credit intensive. In order to complete the major in four years, ideally one should begin with CHM 1211 or 2371 in the first quarter of the freshman year.

#### Suggested First Year B.S. Chemistry Curriculum

<b>Autumn</b>	
CHM 1211 General Chemistry .....	5
MAT 1225 Calculus .....	5
General Education .....	5
	15
<b>Winter</b>	
CHM 2371 Organic Chemistry .....	5
MAT 1226 Calculus .....	5
General Education .....	5
	15

#### Spring

CHM 2372 Organic Chemistry .....	5
MAT 1228 Series and Differential Equation .....	5
General Education .....	5
	15

### Suggested Second Year B.S. Chemistry Curriculum

#### Autumn

CHM 2373 Organic Chemistry .....	5
PHY 1121 Physics for Science and Engineering .....	5
General Education .....	5
	15

#### Winter

CHM 3225 Chemical Equilibrium and Analysis .....	5
PHY 1122 Physics for Science and Engineering .....	5
General Education .....	5
	15

#### Spring

CHM 3226 Quantitative and Instrumental Analysis .....	5
PHY 1123 Physics for Science and Engineering .....	5
General Education .....	5
	15

#### B.S. in Biochemistry

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

This degree prepares students for graduate study in biochemistry and molecular biology. It provides a strong background for entree to medical school, dental school and the field of biotechnology.

The program includes 48 credits of chemistry; 20 credits of biology; 15 credits of physics; 5 credits of statistics; 5 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 electives are to be selected from the following: BIO 3325, BIO 4352, CHM 3540, CHM 3226.

#### Suggested First Year B.S. Biochemistry Curriculum

<b>Autumn</b>	
CHM 1211 General Chemistry .....	5
BIO 2101 General Biology .....	5
General Education .....	5
	15

#### Winter

CHM 2371 Organic Chemistry .....	5
BIO 2102 General Biology .....	5
General Education .....	5
	15

#### Spring

CHM 2372 Organic Chemistry .....	5
MAT 1360 Intro to Statistics .....	5
General Education .....	5
	15

#### Suggested Second Year B.S. Biochemistry Curriculum

<b>Autumn</b>	
CHM 2373 Organic Chemistry .....	5
PHY 1101 General Physics .....	5
MAT 1221 Survey of Calculus .....	5
General Education .....	5
	20

### Winter

CHM 3225 Chemical Equilibrium and Analysis .....	5
PHY 1102 General Physics .....	5
General Education .....	5
	15

### Spring

CHM 3400 Physical Chemistry for Life Sciences .....	5
PHY 1103 General Physics .....	5
General Education .....	5
	15

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, 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 other health related field, should choose CHM 4361 and 4362 as electives. The physics requirement and Chemistry Seminar requirement are described above. Also required is MAT 1221 or MAT 1225 and 1226, although generally, MAT 1225, 1226, and 1228 should be taken.

#### Requirements for the Chemistry Minor

(35 Credits; 15 upper-division)	
CHM 1211 General Chemistry .....	5
CHM 2371, 2372 Organic Chemistry .....	10
Chemistry courses chosen from at least two of these five areas: organic, inorganic, analytical, physical, and biochemistry.* .....	20
<b>Total .....</b>	<b>35</b>

\*excluding CHM 1100, 1110, 1330, 2930, 4800, 4900, 4930, and 4940.

**CHEMICAL EDUCATION.** Students preparing for the teaching profession at the elementary level should take at least CHM 1100 or CHM 1211. (For general science major requirements in elementary teaching, see School of Education listing in this Catalog.) For junior high level a "supporting endorsement" provides an appropriate basis. A "supporting endorsement" can be obtained by completing a minor including CHM 1211, 2371, 2372, 3225, 3400, and 3540. See School of Education for a definite description of the "supporting endorsement." Students preparing for a secondary certificate should complete the requirements for a B.A. in chemistry including at least two quarters of physical chemistry.

**PRE-PROFESSIONAL HEALTH.** Students interested in medicine, dentistry, or similar professional health career should complete 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 biochemistry. See pre-professional health section of the Catalog.



**Chemistry Courses**

**CHM 1100 INTRODUCTION TO CHEMISTRY (5)** Prerequisites: 1 1/2 years of high school mathematics including algebra, or permission of instructor; passing score on the SPU Mathematics Proficiency Exam or take the required Arithmetic Review (MAT 0121-MAT 0125) credits concurrently. This course is not recommended for students who have completed one year of high school chemistry. Examines the structure of matter and the tools and methods used by the chemist. Simple reactions and some current applications are studied. Can be used as preparation for CHM 1211. Includes laboratory.

**CHM 1110 INTRODUCTION TO THE NATURE OF SCIENCE (5)** Provides a non-mathematical lecture, discussion, student participation course in the physical sciences with a chemistry emphasis. Examines basic revolutions in the development of scientific views and their relationships to religious faith and human values. Also examines selected scientific concepts and theories. Provides preparation for informed decision making on some current and future societal issues. Not recommended for students with more than one high school science course. Course Equivalent: PHY 1110.

**CHM 1211 GENERAL CHEMISTRY (5)** Prerequisites: Requires 2 years high school mathematics (including algebra) and a passing score on the SPU Mathematics Proficiency Exam or completion of the required Arithmetic Review (MAT 0121-MAT 0125) credits, and 1 year of high school chemistry or CHM 1100. Introduces properties of matter, stoichiometry, chemical reactions, thermochemistry, states of matter, chemical bonding, atomic and molecular structure. Includes laboratory.

**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 1211 or permission of instructor. This is the introductory course in organic chemistry. It reviews topics such as stoichiometry, acids and bases, structure and bonding theory, nomenclature, synthesis, thermodynamics, gas laws, functional groups and reaction mechanisms as applied to organic chemistry. Laboratory work will emphasize basic methods of separation and purification representative substances.

**CHM 2372 ORGANIC CHEMISTRY (5)** Prerequisite: CHM 2371. A continuation of CHM 2371. Continues studies of principles of nomenclature, synthesis, thermodynamics, structure and reaction mechanisms to a broadening collection of organic functional groups. Introduces spectroscopic methods. Laboratory work will emphasize basic methods of synthesis of representative compounds, and obtaining their spectra and other properties.

**CHM 2373 ORGANIC CHEMISTRY (5)** Prerequisite: CHM 2372. A continuation of CHM 2372. Completes a survey of the properties of common organic functional groups and introduces topics of bioorganic chemistry. Laboratory includes some qualitative organic analysis, identifying unknown substances using chemical, physical and instrumental techniques.

**CHM 2930 CHEMISTRY PRACTICUM (1-3)** Registration Approval: Instructor. Selected students are assigned teaching, grading, laboratory preparation, and/or tutoring responsibilities. May be repeated for credit up to 3 credits.

**CHM 3225 CHEMICAL EQUILIBRIUM AND ANALYSIS (5)** Prerequisite: CHM 2372. Laboratory oriented course dealing with chemical equilibria in solution and their applications to quantitative analysis. Some types of reactions to be studied are precipitation, acid-base, complex formation and oxidation-reduction. Traditional wet chemical and instrumental methods will be used.

**CHM 3226 QUANTITATIVE AND INSTRUMENTAL ANALYSIS (5)** Prerequisite: CHM 1213. Laboratory oriented course dealing with the theory and practice of quantitative analytical chemistry with emphasis on instrumental techniques. Instrumental analysis will include a variety of separation, spectroscopic and electrochemical methods, includes engineering and clinical applications. Course Equivalent: EGR 3226.

**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 mechanics, kinetics, quantum chemistry and spectroscopy 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 applications. Includes elements of statistical thermodynamics. Course Equivalents: EGR 3401 and PHY 3401.

**CHM 3402 PHYSICAL CHEMISTRY (4)** Prerequisite: CHM 3401. Studies quantum theory and group theory and their applications to spectroscopy, molecular and solid state structures and bonding.

**CHM 3403 PHYSICAL CHEMISTRY (4)** Prerequisite: CHM 3402. Studies statistical mechanics, chemical kinetics, physical and chemical equilibria, electrochemistry and selected related topics.

**CHM 3460 PHYSICAL CHEMISTRY LABORATORY (1-2)** Prerequisites: CHM 1213 or equivalent and CHM 3401 (may be taken concurrently with 3401). Provides opportunity for several experiments with a written report for 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 Course.

**CHM 3540 INTRODUCTORY INORGANIC CHEMISTRY (5)** Prerequisites: CHM 2373, 3225. This is a systematic study of chemical principles as applied to inorganic systems. It may include inorganic nomenclature, solid state structure, thermodynamics and bonding, general bonding theory, non protonic acid-base theory, coordination chemistry, and descriptive inorganic chemistry. Includes laboratory.

**CHM 4361 BIOCHEMISTRY (5)** Prerequisite: CHM 2373 or 3372; (CHM 3226 and CHM 3403 are recommended). Studies chemical properties of biological compounds: carbohydrates, lipids, amino acids and proteins and nucleic acids. Metabolism: biochemical energetics, enzymes, electron transport and oxidative phosphorylation. Integration of metabolism: biochemical genetics, metabolic regulation. Includes laboratory. Course Equivalent: BIO 4361.

**CHM 4362 BIOCHEMISTRY (5)** Prerequisite: CHM 4361. Continuation of CHM 4361. Studies chemical properties of biological compounds: carbohydrates, lipids, amino acids and proteins and nucleic acids. Metabolism: biochemical energetics, enzymes, electron transport and oxidative phosphorylation. Integration of metabolism: biochemical genetics, metabolic regulation. Includes laboratory. Course Equivalent: BIO 4362.

**CHM 4363 BIOCHEMISTRY (3)** Prerequisite: CHM 4362 or permission of instructor. Explores selected topics including: immunoglobulins and the immune system; bacterial cell walls; membrane transport; hormone action; control of gene expression; muscle contraction; cell physiology; drug action; protein folding; HIV mechanisms; mechanisms of infectious disease. Seminar format with leading researchers presenting current work. No laboratory. Course Equivalent: BIO 4363.

**CHM 4374 ORGANIC QUALITATIVE ANALYSIS (3)** Prerequisites: CHM 2373 and 3226. An advanced laboratory course using separation and instrumental techniques to identify unknown organic compounds, including those found in mixtures. Offered alternate years.

**CHM 4542 TRANSITION METALS (3)** Prerequisites: CHM 2373 or 3372 or permission of instructor (CHM 3403 recommended). The chemistry of the d and f block elements, with emphasis on the correlation of color, magnetic properties, structure and reactivity to fundamental theory. Topics from the current chemical literature will be included. Topics may include bioinorganic chemistry, organometallic chemistry, and chemical applications of group theory. Offered alternate years.

**CHM 4700 SELECTED TOPICS IN CHEMISTRY (3)** Registration Approval: Instructor. An advanced course on any area of chemical science. It is designed to deepen the student's knowledge in one area of chemistry, expose him/her to the current research literature, and give him/her experience in writing and speaking critically on examples of recent research. Offered alternate years. Attribute: Writing Course.

**CHM 4760 ADVANCED SYNTHESIS (1-2)** Prerequisite: CHM 2373 or 3372; (CHM 4542 is recommended.) A laboratory course involving organic and/or inorganic synthesis using advanced techniques such as the handling of air-sensitive compounds, vacuum distillations and vacuum line transfers. Recommended especially for students who plan a research project involving synthesis. To be offered on demand basis. May be repeated for credit up to 4 credits.

**CHM 4900 INDEPENDENT PROJECT IN CHEMISTRY (1-10)** Registration Approval: Independent Study Agreement. Laboratory research, library research or other individual project. A final written report is required; also, the student must report orally on his or her results at a chemistry department seminar. May be repeated for credit up to 10 credits. Attribute: Writing Course.

**CHM 4930 CHEMISTRY PRACTICUM (1-3)** Registration Approval: Instructor. Selected students are assigned teaching, grading, laboratory preparation and/or tutoring responsibilities. May be repeated for credit up to 3 credits. Class not open to: Freshmen and Sophomores.

**CHM 4940 INTERNSHIP IN CHEMISTRY (1-5)** Registration Approval: Intern Learning Contract Req. Provides a significant learning experience through a closely supervised work-study program. A final written report is required; also, the student must report orally on his or her work experience at a chemistry department seminar. May be repeated for credit up to 10 credits. Class open to: Chemistry majors. Class not open to: Freshmen and Sophomores.

**CHM 4950 CURRENT TOPICS IN CHEMISTRY (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 identified as one of the most important applied sciences of the 21st century. This emergent discipline embraces the disciplines of biochemistry, molecular biology, genetics, cell biology and computer science/mathematical modeling. It has been argued that this will lead to a new discipline where 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 lessen disease.

The Seattle area is one of the leaders in biotechnology with nearly 100 biotechnology firms in operation. This industry exerts a major economic force and provides a rapidly growing employment opportunity for research and administrative positions.

The influence of this biotechnology industry is felt in educational institutions including science education enhancement in the K-12 classrooms as well as for college and university students who find many opportunities for undergraduate research projects.

To maximize benefits for students at 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) Internship evaluation at a local biotechnology firm (each student will engage in a one or two term working internship at a local research lab; this work may be extended to a Senior Thesis project).

This portfolio then becomes an asset that students can carry forward to their professional activities.

**Course Requirements**

The biotechnology program is framed within existing majors in biology, biochemistry and chemistry. The core courses for the program are:

BIO 3325 Genetics (5)  
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:  
CHM 3226 Quantitative and Instrumental Analysis (5)  
BIO 3350 Immunology (3)

The internship component of the program is satisfied by:  
CHM 4940 Internship in Chemistry (1-5)  
BIO 4940 Internship in Biology (1-5)

**Classics****College of Arts  
and Sciences****Classics**

See Languages section.

**College of Arts  
and Sciences**

**Martin Abbott and Thomas Trzyna, Deans**

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

There are four divisions within the College of Arts and Sciences: Fine Arts, Humanities and Religion, Natural Sciences and Social and Behavioral Sciences.

# Communication and Journalism

**Robert Chamberlain, Chair; Richard Jackson,** Journalism contact; **William Purcell, Debra Sequeira** The Department of Communication and Journalism investigates communication as a social and intellectual process, views oral forms as shapers of history, examines speech as an art form and a tool, and studies journalism as responsible human behavior. Courses are offered to all students seeking understanding, ethical frameworks, and skills to manage their conduct as communicators, in mediated and unmediated forms. Those who major in communication explore theory, history, and application of human communication from ancient times to the present, and learn the values of research into the frameworks within which humans attempt to deal with personal, religious, social and political concerns. Those who specialize in communication or journalism, as majors or minors, explore the impact of communication and communications on society, and develop ethical and theoretical understandings and skills for managing ideas and relationships.

### Admission to the Major

Applicants for a major in communication must display a cumulative GPA of 2.5 or higher (4.0=A) in all college work applicable to the degree or 3.0 in the 45 credits immediately preceding application for the major.

### Foreign Language Requirement

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

### Requirements for the Communication Major

(50 Credits; 23 upper-division)  
*[Refer to page 52 for a summary of degree requirements]*

COM 1101 Introduction to Interpersonal Communication ...	3
COM 1321 Speaking Before Groups .....	5
COM 2227 Small Group Discussion and Leadership (5) or COM 4265 Organizational Communication (3) .....	3-5
COM 2323 Argumentation .....	5
COM 3001 Theories of Communication .....	5
COM 3628 Foundations of Western Rhetoric (5) or COM 3629 Modern Rhetorical Theory (5) .....	5
COM 4142 Advanced Interpersonal Communication .....	5
COM 4910 Communication Seminar .....	3
Electives in communication or journalism to complete 50 credit minimum .....	14-16
<b>Total .....</b>	<b>50</b>

Practical experiences such as internships, forensics practicum, journalism practicum, and similar courses may be taken as part of the degree program and may be included in the major for up to 6 credits of the electives required.

### 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 .....	5
COM 3001 Theories of Communication .....	5
Electives in communication to complete the 30 credit minimum .....	17
<b>Total .....</b>	<b>30</b>

Practical experiences may be included as up to 2 credits of the electives required in a communication minor. Application for a communication minor requires prior selection of the electives with written approval of an advisor from the communication faculty.

### Requirements for the Journalism Minor

(30 Credits; a minimum of 15 upper-division)

JRN 2101 News and Informational Writing .....	4
JRN 2202 Public Affairs Reporting .....	4
JRN 2203 Editing and Design .....	4
JRN 3301 Media Law and Ethics .....	5
JRN 3355 The Public and the Media .....	3
Select one course from the following: JRN 3801/02/03 Newspaper Production (6) JRN 3930/31/32 Publication Editor Practicum (6) .....	6
Electives to complete 30 credit minimum .....	4
<b>Total .....</b>	<b>30</b>

Electives are to be selected from among other JRN courses and Eng 2215, 3206, 3207, 3301, and 4401.

### Communication Courses

**COM 1000 ORAL COMMUNICATION FOR NON-NATIVE ENGLISH SPEAKERS (4)** Registration Approval: Language Institute Director. Develops presentation, listening, interpersonal and pronunciation skills necessary for active participation in the college classroom. Credit in COM 1000 is not applicable to the major specialty in communication.

**COM 1101 INTRODUCTION TO INTERPERSONAL COMMUNICATION (3)** Studies bases of interpersonal communication, including self-concept, content and relational dimensions of communication, nonverbal communication, assertiveness and conflict.

**COM 1321 SPEAKING BEFORE GROUPS (5)** Analyzes platform speaking; includes analysis, preparation and presentation of formal speeches. Includes rhetorical criticism of significant models. Not open to students who have taken COM 1301. Recommended for students planning to major in communication; 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 conferences. May be repeated for credit up to 12 credits. Class not open to: Juniors and Seniors.

**COM 1931 COMMUNICATION PRACTICUM (1-2)** Registration Approval: Instructor. Provides field experience in communication activities with faculty guidance in selection, preparation and review; application to campus ministry teams, speakers' bureau and other contexts. May be repeated for credit up to 12 credits. Class not open to: Juniors and Seniors.

**COM 2227 SMALL GROUP DISCUSSION AND LEADERSHIP (5)** Develops awareness of and experience in the processes of small, coaching group activity; examines and applies theories of structure, climate, roles, norms and leadership in planning and managing member participation. Explores group effort in fact-finding, problem-solving and decision making.

**COM 2323 ARGUMENTATION: ART OF INFERENCE (5)** Examines ambiguity, analysis, evidence, observation and inference; applies principles of reasoning to significant issues through extensive practice in public discourse, questioning, response to questions, refutation and negotiation.

**COM 2330 ORAL INTERPRETATION OF LITERATURE (5)** Analyzes literary works to discover means of effectively communicating literature orally; provides opportunities for guided practical experience in narrative, lyric poetry and dramatic reading.

**COM 2950 SPECIAL TOPICS IN COMMUNICATION (1-5)** Explores selected topics in communication, with emphasis on skills and content not normally examined in regular curriculum. Offered occasionally with specific topics identified in Time Schedule. May be repeated for credit up to 40 credits.

**COM 3001 THEORIES OF COMMUNICATION (5)** Examines theories of human communication and introduces a range of research methodologies used in investigating and creating those theories. Prerequisite for COM 4142 and 4910. Attribute: Writing Course.

**COM 3102 LISTENING (3)** Evaluates research into nature of listening; provides exposure to aesthetic, substantive and critical listening experiences; individual projects lead to personal improvement of listening skills and/or listening curriculum for elementary and secondary classrooms.

**COM 3160 CONFLICT MANAGEMENT (3)** Examines research in and techniques for conflict management. Includes theory, models and case studies in conflict in interpersonal, organizational and public contexts.

**COM 3321 ADVANCED PUBLIC SPEAKING (5)** Prerequisite: COM 1301 or 1321, or permission of instructor. Advances application of speech principles to prepare public address for various contexts; provides individualized instruction in research, organization, composition, style and presentation.

**COM 3322 PERSUASION: SOCIAL INFLUENCE AND RESPONSIBILITY (5)** Evaluates the role of persuasion in society; the role of symbolic persuasion; production and reception of persuasive messages; the persuasive event and the persuasive campaign; ethical questions in social influence.

**COM 3351 VIDEO PRODUCTION (3)** Exposes students to the process of creating video programs in the field (portable cameras) 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 be repeated for credit 1 time. Course Equivalent: JRN 3351.

**COM 3628 FOUNDATIONS OF WESTERN RHETORIC (5)** Examines theories of communication and persuasion from ancient times to the 5th century A.D. Intensively studies selected Greek and Roman rhetorical treatises. Attribute: Writing Course.

**COM 3629 MODERN RHETORICAL THEORY (5)** Examines theories of communication and persuasion from the 15th century to the present, with special emphasis on European and American rhetorical theorists. Attribute: Writing Course.

**COM 3930 FORENSICS PRACTICUM (1-2)** Registration Approval: Instructor. Provides experience in cocurricular speech activities. Meets weekly by arrangement; individual coaching conferences. May be repeated for credit up to 12 credits. Class not open to: Freshmen and Sophomores.

**COM 3931 COMMUNICATION PRACTICUM (1-2)** Registration Approval: Instructor. Provides field experience in communication activities with faculty guidance in selection, preparation and review; application to campus ministry teams, speakers' bureau and other contexts. May be repeated for credit up to 12 credits. Class not open to: Freshmen and Sophomores.

**COM 4142 ADVANCED INTERPERSONAL COMMUNICATION (5)** Prerequisites: COM 1101 and 3001 or permission of instructor. Focuses on selected communication theories, research and application pertaining to initiation, development, maintenance and dissolution of dyadic relationships.

**COM 4180 CULTURAL COMMUNICATION (3)** Examines theory and literature of the ethnography of communication, with direct application in the description and analysis of language in its social context.

**COM 4265 ORGANIZATIONAL COMMUNICATION (3)** Analyzes organizations as contexts for human communication. Evaluates organizational structures, decision making, group process and organizational efficiency.

**COM 4318 STORYTELLING (3)** Gives instruction in selecting, preparing and presenting stories aloud to various audiences according to criteria that include the dramatic structure of the story and the characteristics of story teller and audience.

**COM 4607 CRITICISM OF PUBLIC ADDRESS (5)** Applies rhetorical theories to historical and contemporary political, social and religious oratory. Treats the speech as historical document,

cause of social change and refiner of theory. COM 3628 or 3629 is strongly recommended before registration for COM 4607. Attribute: Writing Course.

**COM 4900 INDEPENDENT STUDY (1-5)** Registration Approval: Independent Study Agreement. Individual research and conferences in area of specialization. May be repeated for credit up to 10 credits. Class not open to: Freshmen and Sophomores.

**COM 4910 COMMUNICATION SEMINAR (3)** Prerequisites: Completion of 15 credits in communication major; and COM 3001. Class not open to: Freshmen and Sophomores.

**COM 4930 INSTRUCTIONAL PRACTICUM (3)** Registration Approval: Instructor. Provides selected students with experience as undergraduate teaching assistants in lower division courses. May be repeated for credit 2 times. Class open to: Communication majors.

**COM 4940 COOP EDUCATION: INTERNSHIP IN COMMUNICATION (1-5)** Registration Approval: Intern Learning Contract Req. Prerequisites: 15 credits of "B" work in communication; an approved internship plan; and COM 3001. Provides supervised application of interpersonal and public communication skills in the marketplace. May be repeated for credit up to 5 credits.

**COM 4941 COOP EDUCATION: INTERNSHIP IN COMMUNICATION (1-5)** Registration Approval: Intern Learning Contract Req. Prerequisites: 15 credits of "B" work in communication; an approved internship plan; COM 3001. Provides supervised application of interpersonal and public communication skills in the marketplace. May be repeated for credit up to 5 credits.

**COM 4950 ADVANCED TOPICS IN COMMUNICATION (1-5)** Explores selected topics in communication, with emphasis on theories and research not normally examined in regular curriculum. Offered occasionally with specific topics identified in Time Schedule. May be repeated for credit up to 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 grammar, punctuation; developing interview techniques; covering speeches, press conferences.

**JRN 2202 PUBLIC AFFAIRS REPORTING (4)** Prerequisite: JRN 2101. Develops basic reporting skills while continuing instruction in news writing. Encourages students to develop their own stories through document, on-line and human sources. Discusses both hard-news and feature writing styles.

**JRN 2203 EDITING AND DESIGN (4)** Develops basic skills in editing publication design of print media. Topics include basic editing skills; story and page design; headline writing; photo captions; photo sizing and cropping; proper use of graphics.

**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; obscenity; broadcast regulation; legal issues in cyberspace. Also explores various models for ethical decision making and their application to issues in journalism.

**JRN 3101 ADVANCED NEWSWRITING (3)** Prerequisites: JRN 2101, 2202. Develops skills in research, reporting and writing. Explores both hard-news and feature writing styles for both newspapers and magazines.

**JRN 3350 MASS COMMUNICATION THEORY (3)** Explores theories relating to the development and use of mass media and applies those theories to current issues in mass media. Topics include: propaganda and persuasion; media effects on children; social learning and violence; cultural analysis.

**JRN 3351 VIDEO PRODUCTION (3)** Exposes students to the process of creating video programs in the field (portable cameras) and in the television studio. Examines basic production skills, principles of television electronics; individual and team processes in developing a video program.

**JRN 3355 THE PUBLIC AND THE MEDIA (3)** Investigates historical and contemporary issues involving media performance. Topics include; structure of media industry; journalistic performance; political campaign coverage; impact of advertising, public relations; race and gender; obscenity.



**JRN 3801 NEWSPAPER PRODUCTION (2)** Registration Approval: Instructor. Laboratory for the student newspaper, the year-book, and other student publications. Students work under editors in a variety of production phases with access to a faculty advisor. Only 6 credits of JRN 3801, 3802, 3803, 3930, 3931 and 3932 total may be applied to the student-designed JRN major or the JRN minor. May be repeated for credit 5 times.

**JRN 3802 NEWSPAPER PRODUCTION (2)** Registration Approval: Instructor. Laboratory for the student newspaper, the year-book, and other student publications. Students work under editors in a variety of production phases with access to a faculty advisor. Only 6 credits of JRN 3801, 3802, 3803, 3930, 3931 and 3932 total may be applied to the student-designed JRN major or the JRN minor. May be repeated for credit 5 times.

**JRN 3803 NEWSPAPER PRODUCTION (2)** Registration Approval: Instructor. Laboratory for the student newspaper, the year-book, and other student publications. Students work under editors in a variety of production phases with access to a faculty advisor. Only 6 credits of JRN 3801, 3802, 3803, 3930, 3931 and 3932 total may be applied to the student-designed JRN major or the JRN minor. May be repeated for credit 5 times.

**JRN 3930 PUBLICATION EDITOR PRACTICUM (1-3)** Registration Approval: Instructor. Provides opportunity for application of writing, editing, and production skills in leadership roles in student publications. Open only to those officially selected for positions. No more than 6 credits of Publication Editor Practicum and Newspaper Production total may count toward a student-designed JRN major or a JRN minor. May be repeated for credit up to 6 credits.

**JRN 3931 PUBLICATION EDITOR PRACTICUM (1-3)** Registration Approval: Instructor. Provides opportunity for application of writing, editing, and production skills in leadership roles in student publications. Open only to those officially selected for positions. No more than 6 credits of Publication Editor Practicum and Newspaper Production total may count toward a student-designed JRN major or a JRN minor. May be repeated for an unlimited number of credits.

**JRN 3932 PUBLICATION EDITOR PRACTICUM (1-3)** Registration Approval: Instructor. Provides opportunity for application of writing, editing, and production skills in leadership roles in student publications. Open only to those officially selected for positions. No more than 6 credits of Publication Editor Practicum and Newspaper Production total may count toward a student-designed JRN major or a JRN minor. 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.

**JRN 4920 DIRECTED READINGS (2)** Registration Approval: Independent Study Agreement.

**JRN 4940 COOP EDUCATION: JOURNALISM INTERNSHIP (1-5)** Registration Approval: Intern Learning Contract Req. Applies journalism skills in various employment settings. Students may suggest their own internships in consultation with the faculty supervisor as long as journalism skills are used and other internship criteria are met. No more than 5 of such credits may apply toward a journalism minor. May be repeated for credit up to 5 credits. Course Equivalent: ENG 4940. Class open to: Juniors and Seniors.

**JRN 4941 COOP EDUCATION: JOURNALISM INTERNSHIP (1-5)** Registration Approval: Intern Learning Contract Req. Applies journalism skills in various employment settings. Students may suggest their own internships in consultation with the faculty supervisor as long as journalism skills are used and other internship criteria are met. No more than 5 such credits may apply toward a journalism minor. May be repeated for credit up to 5 credits. Course Equivalent: ENG 4941. Class open to: Juniors and Seniors.

# Computer Science

**Michael H. Tindall, Chair; Charles Burris, Philip Prins, Elaine Weltz, Dick Wood**

Computer science is the discipline which studies the representation, storage, and transformation of information utilizing automatic computing machines. The computer scientist is interested in developing computer software and hardware to analyze data and solve problems. In addition to understanding the organization and operation of modern computer systems, 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 in several areas, including systems analysis and design, computer 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. Interactive timeshare computing is provided by Digital Equipment Corporation servers and a fiber-optic EtherNet network. The student laboratory contains about 10 VT320 timesharing terminals and 30 Pentium PC systems, each connected to the EtherNet and with access to printers and appropriate software packages.

It is recommended that students majoring in computer science obtain their own IBM PC-compatible machine to gain the full experience of configuring and maintaining a computer system. A suitable system would be based on a fast Pentium processor with 16-32MB memory, a 1.2 GB hard drive, VGA video display, mouse, 28,800 Baud modem, and printer. Software should include Windows 95 or Windows NT 4.x, a C/C++ compiler (Microsoft Visual C/C++ Version 4.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 recommended.

**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) must be earned in each other course required for the major.

**Requirements for the B.S. in Computer Science Major**  
(107 Credits ; 49 upper-division)  
[Refer to Chart on page 78]  
[Refer to page 52 for a summary of degree requirements]  
The B.S. major is the traditional degree in computer science. It provides preparation for graduate studies or professional careers in computer science, with an emphasis on scientific and engineering applications.

**Requirements for the B.A. in Computer Science Major**  
[Refer to page 52 for a summary of degree requirements]  
The B.A. major is an applications-oriented degree in

computer science. Each option provides preparation for professional careers in computing, with a specific emphasis on an area of applications.

**B.A. - Computer Systems Option**  
(82 Credits; 44 upper-division)  
[Refer to Chart on page 78]  
This option provides a thorough preparation in the topics and applications in computer science.

**B.A. - Quantitative Option**  
(82 Credits; 46 upper-division)  
[Refer to Chart on page 78]  
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 78]  
This option combines preparation in the core areas of computer science with additional emphasis on business 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)

<b>Core Courses</b>	
CSC 1230 Problem Solving and Programming .....	5
CSC 2430 Data Structures and Programming .....	5
<b>Electives</b>	
CSC 3000 - CSC 4999 .....	15
CSC 1000 - CSC 4999 .....	2
<b>Mathematics</b>	
Select one of the following:	
MAT 1221 Survey of Calculus (5)	
MAT 1225 Calculus (5)	
MAT 1360 Introduction to Statistics (5) .....	5
<b>Total .....</b>	<b>32</b>

**Computer Science Courses**

**CSC 1115 COMPUTING AND APPLICATIONS (3)** Prerequisite: MAT 1101. Introduction to personal computer operations and application software. Covers file systems, directories and disk operations; System configuration; Introduction to word processing, number processing and data management applications; Introduction to the Internet, World-Wide Web and electronic mail.

**CSC 1120 INTRODUCTION TO THE COMPUTER (1)** Explores how to use a (window-based) computer; Description of computer hardware components; Basics of the windowing environment, including the file system, running applications, editing messages and documents, and printing; and the effects of computers in society.

**CSC 1121 INTERNET AND EMAIL (1)** Prerequisite: CSC 1120 or equivalent experience. Explores the following topics: Networks, 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 Web and the Internet.

**CSC 1122 WORD PROCESSING (1)** Prerequisite: CSC 1121, or equivalent. What is "Word Processing"? Creating, modifying, saving and printing documents. Formatting and enhancing a document. Using columns, tables, footnotes, pictures, and drawings. Using document "proofing" tools, such as spelling and grammar checkers and a thesaurus.

**CSC 1123 SPREADSHEETS (1)** Prerequisite: CSC 1121, or equivalent. What is a "Spreadsheet"? This course covers creating, modifying, saving and printing spreadsheet documents; Entering and using formulas and calculations; Editing and importing data; Incorporating graphs; and formatting and enhancing the appearance of a spreadsheet document. Course Equivalent: BUS 1700.

**CSC 1124 DATABASES (1)** Prerequisite: CSC 1121, or equivalent. What is a "Database" and a relational database management system? Designing a database. Defining tables. Defining and editing fields. Entering and editing data. Creating and using queries using one or more tables. Creating, formatting, and enhancing forms and reports.

**CSC 1126 PRESENTATION MANAGERS (1)** Prerequisite: CSC 1121, or equivalent. What is a "Presentation Manager"? Covers designing an effective presentation; Creating and editing slides, Incorporating pictures, drawings and "graphics"; Rearranging topics and slides; Formatting and enhancing the look of a presentation; Estimating the timing and sequencing of a presentation; Printing notes and handouts.

**CSC 1130 BEGINNING PROGRAMMING (2)** Prerequisite: CSC 1121, or equivalent, two years of high school algebra. What is "Programming"? Covers solving problems with a computer; Designing 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.

**CSC 1230 PROBLEM SOLVING AND PROGRAMMING (5)** 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 fundamentals of a high-level block structured language.

**CSC 1800 SPECIAL TOPICS IN COMPUTER USAGE (1)** Prerequisite: CSC 1121 or equivalent. Presentation of a topic of current interest in computer usage. Topics may vary between offerings. May be repeated for credit up to 5 credits.

**CSC 2220 SCIENTIFIC PROGRAMMING (3)** Prerequisites: 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)** Prerequisite: CSC 1230. Explores fundamentals of business computing systems, programming and applications.

**CSC 2224 OBJECT ORIENTED PROGRAMMING (3)** Prerequisite: CSC 2430. Introduces the object oriented programming methodology, languages and systems. Examines encapsulation, classes, inheritance and polymorphism.

**CSC 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 structures, trees, introduction to graphs, and recursion.

**CSC 2951 DIRECTED STUDY:"C" PROGRAMMING (2)** Prerequisite: Previous programming language experience. Presents fundamentals of the C programming language. Offered as a directed-study, instructor arranged course.

**CSC 3150 SYSTEMS DESIGN (3)** Prerequisite: CSC 2430; CSC 2221 recommended. Surveys issues and tools used in the analysis and design of software systems. Covers data flow diagrams, data dictionaries, process specification, structure charts and data access diagrams, measures for the evaluation of specifications and designs. Attribute: Writing Course.

**CSC 3310 CONCEPTS IN PROGRAMMING LANGUAGES (4)** Prerequisites: CSC 3760 and knowledge of two high-level programming languages or permission of instructor. Explores organization and structure of programming languages; run-time behavior and requirements of programs; and programming language specification.

**CSC 3350 SYSTEMS PROGRAMMING (4)** Prerequisites: CSC 3410 and 3760. Introduction to systems programming. Surveys systems software; operating system interface and functions; utilities and shell programming; linkers and loaders; and translators.

Required Courses	B.S.	B.A. Systems	B.A. Business	B.A. Quant.
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 3760 Computer Organization	5	5	5	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

**CSC 3410 FILE STRUCTURES (5)** Prerequisites: CSC 2430 and MAT 1360. Explores external data structures and techniques necessary for implementing different file organizations. Covers methods of organizing and accessing data on secondary storage devices (indexing, trees and hashing). Includes the design and implementation of programs using sequential and direct access files.

**CSC 3430 ALGORITHM DESIGN AND ANALYSIS (4)** Prerequisites: CSC 2430 and MAT 1360 and MAT 1720, and either MAT 1221 or MAT 1225. Covers the design and analysis of algorithms for searching, sorting, string processing, table management and graphs. Includes principles of computational complexity and analysis.

**CSC 3760 COMPUTER ORGANIZATION AND ASSEMBLY LANGUAGE (5)** Prerequisite: CSC 2430 and either MAT 1720 or EE 1210. Studies organization and structuring of the major hardware and software components of computers; mechanics of information transfer and control within a digital computer system; networks and communication systems; microprogramming; machine instruction sets; and assembly language programming. Course Equivalent: EE 3760.

**CSC 3900 INDEPENDENT STUDY IN COMPUTER SCIENCE (1-5)** Registration Approval: Independent Study Agreement. Independent study and research in an advanced computer science topic. May be repeated for credit up to 10 credits.

**CSC 3930 PRACTICUM IN COMPUTER SCIENCE (1-5)** Registration Approval: Instructor. Studies applied computer science. Typically involves academic systems programming, teaching, grading, lab preparation of tutoring responsibilities. Includes an assessment of Christian service issues or experiences. May be repeated for credit up to 10 credits.

**CSC 3940 INTERNSHIP IN COMPUTER SCIENCE (1-5)** Registration Approval: Intern Learning Contract Req. Provides a significant learning experience to be obtained in a supervised work-study environment. Typically involves work in systems analysis and design, advanced applications or systems programming. Includes an assessment of Christian service issues or experiences. May be repeated for credit up to 10 credits.

**CSC 3950 TOPICS IN COMPUTER SCIENCE (1-5)** Registration Approval: Instructor. Advanced or special interest topics in computer science. May be repeated for credit up to 10 credits.

**CSC 3960 PROJECT IN COMPUTER SCIENCE (1-5)** Registration Approval: Instructor. Independent work on a significant project in computer science. May be repeated for credit up to 10 credits.

**CSC 4150 SOFTWARE ENGINEERING (4)** Prerequisite: CSC 3150. Covers topics in software engineering, including team programming, project planning and management, SDLC (software development life cycle) and software quality assurance. Surveys automated tools for use in software engineering. Course requirements include the design and implementation of a major software project.

**CSC 4210 THEORY OF COMPUTATION AND ALGORITHM (4)** Prerequisites: CSC 3430, CSC 3760, MAT 1360 and either MAT 1221 or MAT 1225. Introduction to theoretical topics in computer science. Includes formal languages, automata and parsing; computational complexity, analysis of algorithms; computability; and program correctness and verification.

**CSC 4310 COMPILER DESIGN (4)** Prerequisites: CSC 3310 and CSC 4210. Studies programming language translation and compiler design concepts; language recognition, symbol table management, semantic analysis and code generation.

**CSC 4350 OPERATING SYSTEMS (4)** Prerequisite: CSC 3350. Introduces the major functions of operating systems. Covers processes and concurrency; concurrent programming; resource allocation, contention and control; scheduling, memory management and device management.

**CSC 4410 DATABASE MANAGEMENT (4)** Prerequisites: CSC 3150. Introduces database concepts: data models; data description and data manipulation languages: query facilities; data security, integrity and reliability. Primary emphasis on relational data model; includes the design and implementation of database applications using a relational DBMS.

**CSC 4510 GRAPHICAL USER INTERFACE DESIGN AND PROGRAMMING (4)** Prerequisite: CSC 3350. CSC 2224 recommended. Introduction to programming in the Windows GUI environment. Comparison to other GUI environments.

**CSC 4760 ADVANCED COMPUTER ARCHITECTURE (4)** Prerequisite: CSC 3760 or EE 3760. Studies the architecture of multiprocessor, vector, pipelined and parallel computers. Emphasis placed on principles of parallelism and their application. State-of-the-art super computers are discussed.

**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 approval. May be repeated for an unlimited number of credits. Class open to: Computer Science majors.

**CSC 4810 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 approval. May 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 such areas as invasion of privacy, computer crime, intellectual property, software theft, computer security, ethics in the workplace and artificial intelligence. Class format is a combination of lecture and discussion. Computer science minors may take this course with instructor approval. Class open to: Computer Science majors. Class not open to: Freshmen and Sophomores.

**CSC 4900 INDEPENDENT STUDY IN COMPUTER SCIENCE (1-5)** Registration Approval: Independent Study Agreement. Independent study and research in an advanced computer science topic. May be repeated for credit up to 8 credits.

**CSC 4930 PRACTICUM IN COMPUTER SCIENCE (1-5)** Registration Approval: Instructor. Studies applied computer science. Typically involves academic systems programming, teaching, grading, lab preparation or tutoring responsibilities. Includes an assessment of Christian service issues or experiences. May be repeated for credit up to 8 credits.

**CSC 4940 INTERNSHIP IN COMPUTER SCIENCE (1-5)** Registration Approval: Intern Learning Contract Req. Provides a significant learning experience to be obtained in a supervised work-study environment. Typically involves work in systems analysis and design, advanced applications or systems programming. Includes an assessment of Christian service issues or experiences. May be repeated for credit up to 8 credits.

**CSC 4950 TOPICS IN COMPUTER SCIENCE (2-5)** Registration Approval: Instructor. An advanced course studying a special interest topic in computer science. Topics and credits may vary between offerings. May be repeated for credit up to 5 credits. Class open to: Computer Science majors. Class not open to: Freshmen and Sophomores.

**CSC 4960 PROJECT IN COMPUTER SCIENCE (1-5)** Registration Approval: Instructor. Independent work on a significant project in computer science. May be repeated for credit up to 8 credits.

## Education, School of

**Arthur Ellis, Jeffrey Fouts, Patricia Hammill, Elletta Kennison, Frank Kline, Ginger MacDonald, Raymond Myers, William Nagy, Lawrence Nyland, Lorelie Olson, Mark Pitts, Susan Roberts, Annette Robinson, William Rowley, Christopher Sink, JoAnne Smatlan, Peter Smith, Richard Smith, Wanda Williams**

The primary purpose of the undergraduate program in the School of Education is to prepare competent teachers who integrate academic training and Christian faith with professional practice. The mission statement of the school is "Educational Leadership Through Quality and Commitment."

School of Education programs are accredited by the National Council for Accreditation of Teacher Education. Certification programs in the School of Education are also accredited by the Washington State Board of Education and meet initial and continuing level requirements for State of Washington elementary and secondary teaching certificates.

*"With Christ as our example, the School of Education prepares teachers, principals, counselors and superintendents to be role models. Through a love of learning, their challenge is to demonstrate moral living and compassion for all students, regardless of their circumstances."*

**Ginger MacDonald**  
*School of Education*





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 theoretical and philosophical foundations of education drawn from the social and behavioral sciences, and (2) the effective teaching and schooling research of the past decade. The Phase I (introductory), methods courses, and Phase II (practicum-internship) components of the basic programs are built on this knowledge base and reflect recent research on effective teaching.

Students who successfully complete the Seattle Pacific basic certification program will have:

1. completed an integration of liberal studies, an academic major from which school curricula are drawn, and content and skills of professional education;
2. an understanding of the basic psychological and sociological foundations of education, including how individuals think and learn at different ages and developmental stages;
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 difficulties students experience, and to reteach difficult concepts;
5. the ability to recognize moral/ethical issues in classroom content and events, and to develop objectives and strategies to encourage student character development;
6. an appreciation of the diversity found in our culture 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 the 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 thinking, 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;
10. demonstrated the ability to apply principles of learning theory into classroom practice.

The School of Education offers the following graduate programs: a Doctorate of Education and master's degrees in Secondary Education, Educational Leadership, School Counseling, and Curriculum and Instruction. C&I specializations are available in the areas of Teaching/Learning, Reading/Language Arts, Educational Technology and Early Childhood Development. Persons desiring certification as either a school administrator or a school counselor who have already completed an advanced degree need only complete the certification portion of the desired degree. For further information on SPU's graduate education programs, contact the School of Education directly at (206) 281-2214.

### School of Education Code of Ethics

As teachers perform their duties, they serve as role models exhibiting standards of behavior which are not only observed by the students 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 who will live their lives through Christian principles, giving additional meaning to our work in the development of moral character.

As students and emerging teachers, individuals will be honest and fair, and will treat others with respect and trust. The following specific behaviors apply as related to the individual's academic conduct and as an emerging teacher in teaching and reinforcing these behaviors in students:

**Academic Work:** (1) The individual's academic 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 unacceptable to use information from another student or another student's paper during an examination unless directed by the instructor to work with another student or in cooperative groups. (3) The individual will not alter a graded paper and submit it for re-grading unless asked to do so by the instructor. The individual will only submit work that is his/her own. This means that submission of commercially prepared materials as if they are one's own is unacceptable.

**Research Procedures:** Data in a piece of work must be gathered in accordance with guidelines defining the appropriate methods for collecting and generating data and must be accompanied by an accurate account of the method by which data were gathered or collected.

**Aiding Honesty in Others:** The individual will encourage honesty in others by refraining from providing materials or information to another person with knowledge that these materials or information will be used improperly.

**Authenticity of Documents:** The individual will present only authentic documents and records such as transcripts, grade reports, letters of permission or recommendation, petitions, or any document designed to meet or exempt the individual from an established requirement or regulation.

### Moral Character and Personal Fitness Policy

Teacher certification programs at SPU include a number of experiences in public and private schools working closely with children. It is our belief that this is an important opportunity for potential teachers to learn and to develop the skills necessary for successful teaching. We believe it is our responsibility to provide prospective teachers with meaningful experiences in school settings.

At the same time, the School of Education seeks to insure that the individuals whom we send into the classrooms to work with children are adequately prepared academically, and that they possess the desirable psychological and emotional characteristics for working with children. The protection of children from inadequately trained individuals or from individuals of questionable moral, emotional or psychological stability is a paramount concern. Consequently, the School of Education reserves the right to refuse placement of any SPU student in a practicum setting (including Phase One) if in the professional judgment of School of Education faculty there is a cause for concern about the fitness of that individual to work closely with children.

Any SPU student registering for any School of Education course 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 judgment of the University.
2. The student may be required to withdraw from the course, practicum experience or the certification program should the School of Education receive information during the course of a practicum placement which raises a concern about the fitness of the person to work in a setting with children.
3. Information received about the fitness of the student for working with children may be shared with the school district to determine if a placement can and should be made or continued.
4. Ultimately, the SPU School of Education cannot override school districts, and practicum placements are dependent on school district cooperation and subject to school district approval.
5. Denial of, or removal from, a practicum setting due to lack of fitness to work with children will result in a denial of admission to the teacher education program or being dropped from a program if the student has already been admitted.
6. Acceptance into the program and completion of the program does not guarantee granting of a Washington State teaching certificate. In addition to satisfying the requirements of SPU, good moral character and personal fitness to hold such certification must be established by each student with the Washington State Office of the Superintendent of Public Instruction Office of Professional Practice.

### Admission to the School of Education

A student enrolling in Phase I is considered a tentative candidate for admission to the School of Education. During the Phase I quarter, the student is asked to prepare a formal application for admission which may be considered only upon satisfactory completion of Phase I. The student may continue the sequence of professional courses (Phase II) upon approval of application and fulfillment of Phase II 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)
2. Achieve a cumulative GPA of at least 3.0 or have achieved a 3.3 GPA in the last 45 credits of college or university work.
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. Successfully plan and evaluate professional goals as required by the School of Education.
5. File a formal application for internship and contract indicating projected quarters of internship (Phase II).
6. Complete Phase I and achieve a favorable recommendation from the Phase I team. The Phase I experience must be no more than five years old for admission to the School of Education.
7. File appropriate Moral Character/Personal Fitness and Code of Ethics forms.
8. Complete and submit the application form to the School of Education.
9. Meet the requirements listed above by following this time schedule:

autumn/winter internship - April 1  
winter/spring internship - September 1  
spring/autumn internship - January 15

## Initial Level Certification

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

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

### Phase I Program

**Lorelie Olson, Chairperson**

Designed to provide the basic foundations for beginning teaching, Phase I introduces the student to the area of educational psychology and the social ramifications of the schooling process. Students are placed in daily public school laboratory experiences 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 3104 Foundations of Multicultural Education .....	2
EDU 3105 Laboratory Experience .....	3-4
EDSP 3107 Exceptionality in the Classroom .....	3

It is NOT recommended that Phase I be taken during the first quarter a student is at SPU. Students are eligible to enter Phase I, as space permits, by completing all the prerequisites and presenting evidence of such completion, e.g., transcripts, test scores.

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

Phase I must be taken after junior status is attained. The following are required\*:

1. PSY 1180 General Psychology (not more than five years before Phase I) with a grade of C [2.0] or 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. (SAT or ACT test scores, as outlined under Proficiency Testing Program elsewhere in this catalog, will meet the math competency for School of Education purposes, but not the English competency. The English test must be taken by all education certification students. Check with the School of Education for specific requirements and alternatives if score is low.)
4. File appropriate Moral Character/Personal Fitness and Code of Ethics forms.

\*Verification of completion of prerequisites must be done prior to registering and prior to the first day of Phase I classes.

Transfer Students

- 1. All transfer students are required to take Phase I.
- 2. All transfer students must meet the requirements for admission to the School of Education. (A cumulative grade point average of 3.0 including work taken at SPU and other institutions or 3.3 in the last 45 credits of college or university work is required.)
- 3. 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 course substitution requirements and procedures in their program of study before they begin the program.
- 4. 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).
- 5. All students must have an acceptable undergraduate major according to State program certification guidelines.
- 6. All transfer students are required to take the entire Phase II 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 professor who teaches the course in question. If 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 academic areas including reading, mathematics, language arts, social science, physical education, health, science, and fine and applied arts. Students must earn a grade in the "C" range or better in each course in the skills and content minor to be recommended for certification. Students should plan to use the courses to satisfy general education requirements in order to avoid the necessity of taking an excess of credits to satisfy graduation requirements. It is recommended that as many as possible of the courses in the minor-elementary skills be completed prior to Phase II. History of the Pacific Northwest is required by some school districts for teachers who teach history of the Pacific Northwest in the intermediate grades, junior high, and high school; it is not required by the State of Washington for certification. Required courses in these areas are:

ART 3546 Art Education .....	3
EDRD 4516 Chidren's Books (5)	
or COM 4318 Storytelling (3) .....	3-5
PE 2510 Elementary Health and PE .....	4
MUS 3500 Fundamentals of Music for Future Teachers .....	2
MUS 3501 Elementary Methods and Materials (3)	
or MUS 3502 Music in Special Education (3) .....	3
Any college science course (3-5) .....	3-5
*LIN 2100 Foundations of Language Study .....	3
*MAT 2530 Survey of Mathematics I .....	3
*MAT 2531 Survey of Mathematics II .....	2
*EdRd 3529 Child Language Development and	
the Reading Process .....	3
*EdSc 4234 Science Methods: Elementary Emphasis .....	3
*EdTc 4235 Intro to Educational Technology .....	2
<b>Total .....</b>	<b>34-38</b>

\*Must be taken prior to Phase II.

See course listings under appropriate school or department.

Phase II Programs

Phase II programs involve both teaching methods and a two- or three-quarter internship in public or private State-approved school classrooms under the direction of both 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 II should be taken during the senior year or as a graduate student. All students preparing for teacher certification are 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 principal of the assigned school but is also responsible to a SPU coordinator who gives professional guidance and evaluation. A grade of 3.0 or above in the internship is a prerequisite to recommendation for a teaching certificate. Students seeking separate endorsements for the elementary and secondary levels must complete two quarters of internship at the elementary level and two quarters of internship at the secondary level.

Elementary Phase II Program

Frank Kline, Chairperson

Admission To Elementary Phase II Program

Requirements for admission to the Elementary Phase II Program for SPU students are as follows:

- 1. Admission to the School of Education, recommendation of the Phase I team, and maintenance of eligibility and good standing in the School of Education. If the Phase I experience is more than five years old there will be an additional requirement to update that experience.
- 2. Maintenance of the same grade point average required for admission to the School of Education.
- 3. Senior or graduate standing.
- 4. 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 certain majors must be filed with the School of Education at the time of registration for Phase II.
- 7. Participation in a pre-internship conference with a 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 .....	2
EdRd 4231 Reading, Lang. Arts Methods .....	3
EdMa 4232 Mathematics Methods: Elementary Emphasis ...	3
EDU 4233 Social Studies Methods: Elementary Emphasis ...	3
EDU 4941 Internship A .....	6
	<b>17</b>

2nd Quarter

EDU 4942 Internship B .....	17
-----------------------------	----

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 will be contacted by Secondary Education at the appropriate time regarding item 6):

- 1. Admission to the School of Education, recommendation of the Phase I team, and maintenance of eligibility and good standing in the School of Education. If the Phase I experience is more than five years old there will be an additional requirement to update that experience.
- 2. Maintenance of the same GPA required for admission to the School of Education.
- 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 demonstration of a 3.0 cumulative GPA in all work in the major.
- 5. Written recommendations from two SPU professors in the major must be filed with the School of Education before registration for Phase II (form supplied by the School of Education).
- 6. Participation in a Phase II Placement Interview with the Placement Director.
- 7. Fingerprint clearance.

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

1st Quarter

EDU 4240 General Methods: Teaching Secondary .....	5
EDTC 4235 Intro to Educational Technology .....	2
EDRD 4530 Topics in Secondary Education .....	2

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.

Teaching major methods course .....	3
-------------------------------------	---

In the second and third quarters of the Secondary Professional Year students are placed in a classroom setting for the entire credits. Any student wishing to register for less than 17 credits per quarter must receive approval in writing from the chair of secondary education.

2nd Quarter

EDU 4945 Secondary School Internship A .....	17
--	----

3rd Quarter

EDU 4946 Secondary School Internship B .....	17
--	----

Physical education, art, foreign language, music, and special education majors seeking K-12 certification should check with the undergraduate advisor in the School of Education for specific requirements.

At the time students apply for admission to the School of Education they will indicate their preferred quarters for

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 Professional Year will be handled on a space-available basis determined by EDU class enrollment limits.

Internship Placement and Supervision Policy

Students 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 internship agreements with SPU. In an effort to facilitate supervision, attempts will be made to place groups of interns near each other.
- 2. Interns will be placed in settings which are new to 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.
- 3. Since internships must be arranged in cooperation with school personnel, the School of Education cannot guarantee that an internship will be provided in a certain quarter. Every attempt will be made to assign students to their preferred quarters as space permits.
- 4. 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 any changes in their internship plans at least three weeks prior to the first quarter of the scheduled internship. Failing to do so will result in a penalty of \$70.
- 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 addition, students may not enroll in courses exclusive of the Phase II requirements during the internship.
- 3. Interns are expected to provide their own transportation to the internship school sites.

STATE INITIAL CERTIFICATION REQUIREMENTS

The School of Education will recommend a candidate for the Initial Level Certificate in the State of Washington when he/ she has:

- 1. Met the requirements of SPU for a B.A. or B.S. degree.
- 2. Satisfactorily completed the professional education course sequence, internship requirements and major requirements for elementary level or secondary level certification.
- 3. Completed requirements for an acceptable major according to state approved guidelines. Please consult the undergraduate education advisor for acceptable majors.
- 4. Completed the elementary content and skills minor



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. These majors are designed for students who are seeking elementary certification:

FINE AND APPLIED ARTS

Larry Metcalf, Advisor, Art Department

(61-66 credits; 23 upper division)	
ART 1180 The Visual Arts .....	5
ART 1102 Drawing Studio (3)	
or ART 1103 Drawing Studio (3) .....	3
ART 1202 Design Studio .....	3
Select two courses from the following:	
ART 2425 Weaving Studio (3)	
ART 2428 Ceramics Studio (3)	
ART 3315 Painting Studio - Watercolor (3) .....	6
ART 3604 History of Renaissance Art (5)	
or ART 3605 History of Modern Art (5) .....	5
COM 4318 Storytelling .....	3
FPA 1101 Arts in American Culture .....	5
FCS 1710 Design Fundamentals .....	5
MUS 3501 Elementary Methods and Materials .....	3
Select two courses from the following:	
MUS 1250 Beginning Keyboard (1)	
or MUS 1251 Intermediate Keyboard (1)	
MUS 1260 Beginning Voice (1)	
or MUS 1261 Advanced Voice (1)	
MUS 1270 Beginning Folk Guitar (1)	
or MUS 1271 Intermediate Folk Guitar (1) .....	2
MUS 3602 The Magic of Opera (3) .....	3
TRE 1110 The Theatre Experience (5)	
or TRE 3780 The Art of Film (5) .....	5
TRE 1310 Acting I: Fundamentals .....	5

- (Elementary Certificate only). See elementary content and skills courses listed in the Education section (required for students wishing certification on the elementary level).
- (Optional) Presented a teaching minor to broaden the student's teaching area (Secondary Certificate only). Please consult the undergraduate advisor.
  - Met evaluation criteria necessary for earning at 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).
  - Been recommended by the School of Education according to professional standards and personal qualifications based upon SPU's academic goals.
  - Made a formal application for the certificate. Application forms are available in the School of Education. The fee required by the State of Washington is payable at the School of Education Office.

Select one course from the following:

TRE 1320 Movement for Performing Artist (2)	
TRE 2320 Stage Movement (2)	
TRE 3321 Elements of Mime (2) .....	2
TRE 4770 Creative Dramatics .....	3
Electives .....	3-8
<b>Total .....</b>	<b>61-66</b>

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, Advisor, English Department

(59 credits; 23 upper-division)	
COM 1101 Introduction to Interpersonal Communication ...	3
COM 2330 Oral Interpretation of Literature .....	5
COM 3102 Listening .....	3
COM 4318 Storytelling .....	3
ENG 2253 American Literature: Beginnings to 1900 .....	5
ENG 3180 Advanced Grammar .....	3
ENG 3334 American Ethnic Literature .....	5
ENG 3230 Young Adult Literature .....	5
Select two courses from the following:	
ENG 2251 English Literature: Beginnings through Milton (5)	
ENG 2252 English Literature: Restoration through Victorian (5)	
ENG 3246 World Literature (5)	
ENG 3248 Non-Western Literature (5)	
HUM 3287 Mythology in Literature (5) .....	10
Select two courses from the following:	
ENG 2201 Research for Writing (3)	
ENG 2215 Imaginative Writing (3)	
ENG 3301 Writing to be Read (3) .....	6
EdRd 4516 Children's Books .....	5
LIN 2100 Foundations of Language Study .....	3
TRE 4770 Creative Dramatics (EDU 4540) .....	3
<b>Total .....</b>	<b>59</b>

Students choosing the language arts major must fulfill the requirement for proficiency in a second language. The requirement, equal to the completion of the third quarter of a University-level language course, may be met by the study of any modern or classical language.

MATHEMATICS

Sharon Young, Advisor, Mathematics Department

(50 credits; 23 upper-division)	
MAT 1225 (5) and MAT 1226 Calculus (5) .....	10
MAT 1360 Intro to Statistics .....	5
MAT 2401 Linear Algebra .....	3
MAT 2720 Discrete Mathematics .....	3
MAT 3441 Axiomatic Geometry (3)	
or MAT 3443 Transformational Geometry (3) .....	3
MAT 3750 Intro to Real Analysis .....	3
MAT 4402 Modern Algebra .....	3
CSC 1230 Problem Solving and Programming .....	5
Electives .....	15
<b>Total .....</b>	<b>50</b>

Approved electives to complete 50 credits: MAT 4403, MAT 4610, MAT 4904, MAT 4930, PHY 3120.

SCIENCE

Wesley Lingren, Advisor, Chemistry Department

(48-63 credits; 23 upper-division)	
CHM 1110 Intro to the Nature of Science .....	5
PHY 1135 Astronomy .....	5
PHY 1150 Intro to Geology .....	5
BIO 1102 Individual and the Environment .....	5
BIO 2101 (5) and BIO 2103 General Biology (5) (or high school equivalent) .....	10
CHM 1100 Intro to Chemistry (or high school equivalent) ..	5
MAT 1101 Intermediate Algebra (or high school equivalent) ..	5
Electives .....	23
<b>Total .....</b>	<b>48-63</b>

Approved electives to complete 48-63 credits: BIO 2129 (5), BIO 2130 (5), BIO 3310 (5), BIO 3453 (5), BIO 4330 (5), BIO 4950 (5), CHM 4900 (1-5), FCS 3340 (3), MAT 1360 (5), PHY 3120 (5).

SOCIAL SCIENCE

Kathleen Braden, Geopolitics, and Donald

Holsinger, History Department, Advisors	
(61-65 credits; 23 upper-division)	
HIS 2502 The United States to 1876 (5)	
or HIS 3501 Colonial and Revolutionary America (5) .....	5
HIS 2503 The United States Since 1876 .....	5
Non-American History (upper-division recommended) .....	5
Upper-division History elective .....	5
HIS 3600 History of the Pacific Northwest .....	5
Select one course from the following:	
ECN 1100 Fundamentals of Economics (5)	
ECN 2101 Principles of Microeconomic (5)	
ECN 2102 Principles of Macroeconomics (5)	
GEO 2207 Economic Geography (5) .....	5
GEO 1110 World Regional Geography .....	5
POL 1120 American Government and Politics .....	5
PSY 1180 General Psychology .....	5
SOC 1110 Introduction to Sociology .....	5
One course in Cultural Anthropology .....	3-5
Two upper-division elective courses from the following disciplines:	
ANT, GEO, POL, PSY, or SOC .....	8-10
<b>Total .....</b>	<b>61-65</b>

(NOTE: Social Science majors need to plan carefully so as to meet the University "W" requirement for graduation.)

Majors for Secondary Teachers

Students wishing to prepare to teach at the secondary level should major in a content area from the list below. They should meet the requirements for bachelor's degree candidates as listed under the various disciplines. In addition, they should establish a 3.0 cumulative GPA in all work in their major or complete at least 15 upper-division credits in the major with a grade of 3.0 or above in each course. Academic work below "C" (2.0) will apply toward total credit requirements for graduation but may not be applied toward the teaching major.

The following are approved majors for secondary certification: biology, chemistry, English, family and consumer sciences, history, language arts, mathematics, physics, social science.

The following are approved majors for K-12 certification: art, French, German, music, physical education, Spanish, special education.

Secondary Teaching Minor

Students who plan to teach at the secondary level are strongly encouraged to prepare in a second teaching area. This may be a minor but must meet state endorsement requirements. If there are questions concerning the supporting endorsements, please see the undergraduate advisor in the School of Education.

Special Education (K-12)

Annette Robinson, Chairperson

The primary purpose of the special education major is to develop teachers who have the knowledge and skills necessary to design and implement appropriate education for students with disabilities. The emphasis in this program is on students with special needs in the areas of learning and behavior.

Admission to the Special Education Program

Students who are interested in the special education certification program are encouraged to indicate their intent upon their arrival at SPU. This indication is made with the School of Education Advising Center in Peterson Hall. It does not commit the student to the program, but assures advising and continuing receipt of current information about the special education program requirements. For general requirements 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 Classroom .....	3
PSY 2470 Life Span Developmental Psychology .....	5
EdRd 3529 Child Language Development and the Reading Process .....	3
EdSp 4642 Instructional Strategies for the Exceptional Student .....	3
EdSp 4646 Severe Disabilities .....	3
EdSp 4648 Teaching Students with Behavior Disorders .....	3
EdSp 4651 Special Education Assessment .....	3
EdSp 4652 Learning Disabilities .....	3
EdSp 4653 Teaching Reading to Exceptional Students .....	3
EdSp 4657 Behavior Management: Applied Behavioral Analysis .....	3
EdSp 4658 Senior Seminar: Issues in Special Education .....	3
EdSp 4943 Elementary or EdSp 4948 Secondary Special Education Internship .....	10
<b>Total .....</b>	<b>45</b>

Requirements leading to certification in special education at SPU:

- Certification in special education (grades K-12) is granted by successful completion of the special education major, a second academic area of emphasis, and specialized certificate requirements.
- 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 special education. Students will have opportunities to gain competencies in curriculum planning with both elementary and secondary students.
- Transfer students must complete a minimum of 15 upper-division credits in special education course work prior to the internship. In order for the School of Education to recommend a student for the K-12



special education certificate, the internship must be supervised directly by SPU School of Education faculty members.

Additional Courses Required For K-12 Special Education Only Certification

Elementary

MAT 2530 Survey of Math I ..... 3  
MAT 2531 Survey of Math II ..... 2  
EDRD 3529 Child Language Development and the Reading Process ..... 3  
EDTC 4235 Intro to Educational Technology ..... 2  
Electives: Minimum of two courses and 4-6 credits. ART 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 ..... 2  
EDMA 4232 Mathematics Methods: Elementary Emphasis .. 3  
EDSP 4943 Elementary Special Education Internship A ..... 9  
EDSP 4944 Elementary Special Education Internship B ..... 17

Secondary

EDU 4240 General Methods for Teaching in Secondary Schools ..... 5  
EDRD 4530 Topics in Secondary Education ..... 2  
EDTC 4235 Intro to Educational Technology ..... 2  
Electives: Minimum of two courses and 4-6 credits. EDMA 3357 (3), EDSC 3359 (3), EDU 3365 (3), EDU 4364 (3), EDU 3361 (3), FCS 4511 (3), Methods in Art, Music, or PE.

Phase II:

EDU 4948 Secondary Special Education Internship 2 quarters, 17 credits each ..... 34  
All special education students must also complete 30 quarter credits in a second academic area.

Professional Education Courses

**EDRD 3529 CHILD LANGUAGE DEVELOPMENT AND THE READING PROCESS (3)** Registration Approval: School of Education. Prerequisite: LIN 2100. Examines the nature of language, children's stages of language growth, cognitive processes related to language development and growth and the implications of natural language development for early reading/writing instruction. Class not open to: Freshmen.  
**EDRD 4530 TEACHING READING AND WRITING IN CONTENT AREAS (2)** Prerequisite: Completion of Phase I. Provides a 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 to learn content from a variety of sources and materials. Class not 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 examines techniques and materials using a discovery approach to teach some basic principles of science. Class not open to: Freshmen and Sophomores.  
**EDTC 3010 INTRODUCTION TO HYPERSTUDIO (1)** Prerequisite: Experience with Macintosh. Teaches basic skills in HyperStudio stack authoring. Discusses how to create buttons to move between cards, apply appropriate stack planning procedures and use stack design conventions.  
**EDTC 3011 INTRODUCTION TO HYPERCARD (1)** Prerequisite: Experience with Macintosh. Teaches basic skills in HyperCard stack authoring. Discusses how to create buttons to move between cards, apply appropriate stack planning procedures, and use stack design conventions.

**EDTC 3154 BASIC MACINTOSH GRAPHICS (1)** Prerequisite: Experience with Macintosh. Covers basic graphic commands and techniques, aesthetic/layout principles and producing computer-generated graphics.  
**EDTC 4235 INTRODUCTION TO EDUCATIONAL TECHNOLOGY (2)** Prerequisite: Phase I. Instruction on processes and procedures for using media and computers in school settings. Includes instructional design; basic production skills for computer, media, and multimedia applications; and courseware evaluation. Class not open to: Freshmen.  
**EDU 3103 FOUNDATIONS OF EDUCATIONAL INSTRUCTION AND CLASS MANAGEMENT (3)** Registration Approval: School of Education. Prerequisite: See Phase I program prerequisites. Presents an introduction to current theory and practice in effective instruction. Examines factors which affect student learning, introduces principles of classroom management and provides experiences which develop skills in making instructional decisions. Explores the social, historical, legal and philosophical foundations of education. Includes an overview of the organization of the American school system and its values. Corequisites: EDSP 3107, EDU 3104, EDU 3105. Class not open to: Freshmen.  
**EDU 3104 FOUNDATIONS OF MULTICULTURAL EDUCATION (2)** Registration Approval: School of Education. Prerequisite: See Phase I program prerequisites. An introduction to the historical background and theoretical constructs of multicultural education. Examines the nature of the diverse society in which we live, and the implications for education. The nature of bias is discussed, and techniques are presented which foster positive expectations 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 in a school with diverse populations. Integration of learning and experience will be gained through observing and working with students in various classroom settings. Corequisites: EDSP 3107, EDU 3103, EDU 3104. Class not open to: Freshmen.  
**EDU 3106 LABORATORY EXPERIENCE (3)** Registration Approval: Instructor. 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 Education. Prerequisites: Completion of Phase I, admission to the School of Education. Presents instructional theory, lesson planning, classroom management and related topics designed to enhance and to be applied in a practice classroom setting. Class not open to: Freshmen and Sophomores.  
**EDU 4530 TOPICS IN SECONDARY EDUCATION (2)** Registration Approval: School of Education. Prerequisite: Complete Phase I. Explores major topics related to instruction in the secondary classroom, drawn from student assessment, reading and study skills, and child abuse. Class not open to: Freshmen and Sophomores.

**Phase II: Elementary Teaching**  
**EDMA 4232 MATHEMATICS METHODS: ELEMENTARY EMPHASIS (3)** Registration Approval: Phase II elem. team leader. Explores contemporary methods and trends in the teaching of mathematics in elementary school emphasizing learning theories, changes in the mathematical content, use of technology, and pedagogy. Corequisites: EDU 4230, EDRD 4231, EDU 4233, EDU 4941. Class not open to: Freshmen, Sophomores and Juniors.  
**EDRD 4231 READING AND LANGUAGE ARTS METHODS (3)** Registration Approval: Phase II elem. team leader. Prerequisite: EDRD 3529 and LIN 2100. Incorporates a variety of instructional strategies, formats and media to present a variety of methods and strategies for teaching, integrating, and assessing the processes of reading, writing and oral language in the elementary classroom; and analysis and uses of language arts materials. Corequisites: EDU 4230, EDMA 4232, EDU 4233, EDU 4941. Class not open to: Freshmen, Sophomores and Juniors.  
**EDSP 4943 ELEMENTARY SPECIAL EDUCATION INTERNSHIP A (1-17)** Registration Approval: Phase II elem. team leader. Prerequisites: Same as for EDU 4941. First quarter of a two quarter internship. Observation and daily teaching in special education in the elementary schools under the direction of a cooperating teacher. Extra fee. May be repeated for credit up to 17 credits. Class not open to: Freshmen, Sophomores and Juniors.

**EDSP 4944 ELEMENTARY SPECIAL EDUCATION INTERNSHIP B (1-17)** Registration Approval: Phase II elem. team leader. Prerequisites: Same as for EDU 4941. Second quarter of a two quarter internship. Observation and daily teaching in special education in the elementary schools under the direction of a cooperating teacher. Extra fee. May be repeated for credit up to 17 credits. Class not open to: Freshmen, Sophomores and Juniors.  
**EDU 4230 ELEMENTARY GENERAL METHODS: THEORY INTO PRACTICE (2)** Registration Approval: Phase II elem. team leader. Presents general factors that affect learning in the elementary classroom; development of teacher-pupil relationships, lesson planning, behavior guidance, evaluation and communicating with parents. Corequisites: EDU 4233, EDU 4941, EDRD 4231, EDMA 4232. Class not open to: Freshmen, Sophomores and Juniors.  
**EDU 4233 SOCIAL STUDIES METHODS: ELEMENTARY EMPHASIS (3)** Registration Approval: Phase II elem. team leader. Explores inter-disciplinary approach for teaching elementary school social studies and develops strategies for implementation in the classroom. Corequisites: EDU 4230, EDRD 4231, EDMA 4232, EDU 4941. Class not open to: Freshmen, Sophomores and Juniors.  
**EDU 4940 STUDENT TEACHING IN THE ELEMENTARY SCHOOL (1-16)** Registration Approval: Phase II elem. team leader. Prerequisites: See Phase II elementary program prerequisites. Provides opportunity of observation and daily teaching for one quarter in elementary schools. Extra fee. May be repeated for credit up to 16 credits. Class not open to: Freshmen, Sophomores and Juniors.  
**EDU 4941 ELEMENTARY SCHOOL INTERNSHIP A (1-17)** Registration Approval: Phase II elem. team leader. Prerequisites: See Phase II elementary program prerequisites (First quarter). Provides opportunity for observation and daily teaching in elementary schools under the direction of a cooperating teacher. Extra fee. May be repeated for credit up to 17 credits. Corequisites: EDU 4230, EDRD 4231, EDMA 4232, EDU 4233. Class not open to: Freshmen, Sophomores and Juniors.  
**EDU 4942 ELEMENTARY SCHOOL INTERNSHIP B (1-17)** Registration Approval: Phase II elem. team leader. Prerequisites: Same as for EDU 4941. (Second or third quarter). Provides opportunity for observation and daily teaching in the elementary school under the direction of a cooperating teacher. Extra fee. May be repeated for credit up to 17 credits. Class not open to: Freshmen, Sophomores and Juniors.  
**EDU 4943 ELEMENTARY INTERNSHIP (MUSIC) (1-17)** Registration Approval: Phase II elem. team leader. Prerequisites: Same as for EDU 4941. Provides opportunity for observation and daily teaching of music in the elementary school under the direction of a cooperating teacher. Extra fee. May be repeated for credit up to 17 credits. Corequisite: EDU 4230. Class not open to: Freshmen, Sophomores and Juniors.  
**EDU 4944 ELEMENTARY INTERNSHIP (ART) (1-17)** Registration Approval: Phase II elem. team leader. Prerequisites: See Phase II elementary program prerequisites. Provides opportunity for observation and daily teaching of art in the elementary school under the direction of a cooperating teacher. Extra fee. May be repeated for credit up to 17 credits. Corequisite: EDU 4230. Class not open to: Freshmen, Sophomores and Juniors.  
**EDU 4945 INTERNATIONAL ELEMENTARY SCHOOL INTERNSHIP (8-17)** Registration Approval: Phase II elem. team leader. Prerequisite: Completion of certification program. Observation and daily teaching in an international elementary school setting under the direction of a cooperating teacher.

Secondary Major Methods Courses

**EDMA 3357 TEACHING SECONDARY MATHEMATICS (3)** Prerequisite: Completed Phase I. Overviews content methods and strategies appropriate to the teaching of secondary school mathematics. Attention is given to the NCTM Standards and emphasis is

placed on problem solving. Recommended prior to or concurrent with first quarter internship. Class not open to: Freshmen and Sophomores.  
**EDSC 3359 TEACHING SECONDARY SCIENCE (3)** Registration Approval: Instructor. Prerequisite: Completed Phase I. Designed to assist students in relating their understanding in various science disciplines to the practical problems of planning and implementing learning experiences for secondary students. The emphasis is on the use of inquiry/problem solving approaches to science learning. Class not open to: Freshmen and Sophomores.  
**EDU 3356 TEACHING SPEECH COMMUNICATION (3)** Presents teaching methods and problems of the speech classroom and curriculum; explores the history of speech education. Required of majors seeking teaching credentials in speech. Class not open to: Freshmen and Sophomores.  
**EDU 3358 ART EDUCATION - SECONDARY (3)** Studies the teaching of art in the secondary school with investigation of several appropriate media and emphasizing development of an art curriculum. Studio periods will be combined with lectures and discussions. Course Equivalent: ART 3547. Class not open to: Freshmen and Sophomores.  
**EDU 3361 SECONDARY ENGLISH METHODS (3)** Prerequisite: Completed Phase I. Explores teaching and planning methods and materials appropriate for junior/senior high students. Based on essential learnings, the course considers various learning styles, moral implications, literary works, and writing activities, in creating and sharing ideas and projects.  
**EDU 4364 TEACHING SECONDARY SOCIAL STUDIES (3)** Prerequisite: Completed Phase I. Presents specific elements of secondary social studies instruction, including content selection and planning based on essential learnings, moral implications of content, use of instructional strategies, assessment of student learning, and management of the classroom. Class not open to: Freshmen and Sophomores.  
**EDU 4365 METHODOLOGY FOR FOREIGN LANGUAGE TEACHING (3)** An overview of the theoretical paradigms of second language learning and teaching; definition and evaluation of communicative competence; strategies for teaching skills of listening, speaking, reading and writing; selection and development of instructional materials, including new technology. Offered as required. Course Equivalent: LIN 4365. Class not open to: Freshmen.

**Phase II Secondary Internships**  
**EDSP 4948 SECONDARY SPECIAL EDUCATION INTERNSHIP A (1-17)** Registration Approval: Instructor. Prerequisite: EDU 4240. Three quarter internship (two in special ed; one in regular ed). Provides opportunity for observation and daily teaching in special education sections in the public schools under the direction of a master teacher. Extra fee. May be repeated for credit up to 17 credits. Class not open to: Freshmen, Sophomores and Juniors.  
**EDSP 4949 SECONDARY SPECIAL EDUCATION INTERNSHIP B (1-17)** Registration Approval: Instructor. Prerequisites: See secondary Phase II prerequisites. Extra fee. May be repeated for credit up to 17 credits. Class not open to: Freshmen, Sophomores and Juniors.  
**EDU 4945 SECONDARY INTERNSHIP A (1-17)** Registration Approval: Instructor. Prerequisite: EDU 4240. First quarter of internship. Provides opportunity for observation and daily teaching in public or approved private schools under the direction of a master teacher. Extra fee. May be repeated for credit up to 17 credits. Class not open to: Freshmen, Sophomores and Juniors.  
**EDU 4946 SECONDARY INTERNSHIP B (1-17)** Registration Approval: Instructor. Prerequisites: EDU 4240, 4945. Second quarter of two-quarter internship. Provides opportunity for observation and daily teaching in public or approved private schools under the direction of a master teacher. Extra fee. May be repeated for credit up to 17 credits. Class not open to: Freshmen, Sophomores and Juniors.  
**EDU 4947 SECONDARY INTERNSHIP C (1-17)** Registration Approval: Instructor. Prerequisite: EDU 4240. Provides opportunity for observation and daily teaching in public or approved private schools under the direction of a master teacher. Extra fee. May be repeated for credit up to 17 credits. Class not open to: Freshmen, Sophomores and Juniors.



**EDU 4952 INTERNATIONAL SECONDARY SCHOOL**

**INTERNSHIP (8-17)** Registration Approval: Phase II sec. team leader. Prerequisite: Completion of certification program. Observation and daily teaching in an international secondary school setting under the direction of a cooperating teacher.

**Special Education****EDSP 3107 EXCEPTIONALITY IN THE CLASSROOM (3)**

Registration Approval: School of Education. Prerequisite: See Phase I program prerequisites. Examines the concept of difference, including influences of exceptionality on social and psychological roles. Presents strategies for inclusion of exceptional students in classrooms. Corequisites: EDU 3103, EDU 3104, EDU 3105. Class not open to: Freshmen.

**EDSP 4642 INDIVIDUAL EDUCATION PROGRAMS (3)**

Registration Approval: School of Education. Prerequisite: EDSP 3107. Classroom presentation centers around the interaction of the disabled child with the school. Topics include: federal and state regulations for the education of the disabled; procedures for referral, diagnosis and placement; formation of individual education programs, service models, task analysis and sequencing of skills; formation and evaluation of behavioral objectives; selection of instructional materials and methodology; and classroom organization. (Pre-service emphasis.) Class not open to: Freshmen and Sophomores.

**EDSP 4645 PSYCHOLOGY OF THE GIFTED INDIVIDUAL**

**(3)** Registration Approval: School of Education. Prerequisite: EDSP 3107. Introduces identification of gifted and creative individuals and development of educational programs and resources for the gifted. Class not open to: Freshmen and Sophomores.

**EDSP 4646 SEVERE DISABILITIES (3)** Registration Approval: School of Education. Prerequisite: EDSP 3107. Explores the issues surrounding the education of the developmentally disabled person. Includes definitions and classification systems, etiology, theoretical approaches, strategies for educational diagnosis and intervention, family problems and other issues. Class not open to: Freshmen and Sophomores.

**EDSP 4648 TEACHING STUDENTS WITH EMOTIONAL**

**AND BEHAVIOR DISORDERS (3)** Registration Approval: School of Education. Prerequisite: EDSP 3107. Provides special educators with knowledge related to characteristics and inclusion strategies for children and youth with behavior disorders or emotional disturbance. Class not open to: Freshmen and Sophomores.

**EDSP 4651 SPECIAL EDUCATION ASSESSMENT (3)**

Registration Approval: School of Education. Prerequisite: EDSP 3107. Teaches diagnostic and evaluative procedures commonly used with exceptional children. Includes construction of criterion referenced tests and curriculum based assessment; use and interpretation of formal and informal tests, and procedures and related ethics procedures, and related issues. Class not open to: Freshmen and Sophomores.

**EDSP 4652 DISABILITIES OF LEARNING AND ATTENTION (3)** Registration Approval: School of Education. Prerequisite: EDSP 3107. Studies the characteristics and special problems associated with learning disabilities. Includes definitions and characteristics, theoretical approaches and attention deficit disorder, available resources, etiologies and educational management of learning disabilities and attention disorders. Attribute: Writing Course. Class not open to: Freshmen and Sophomores.

**EDSP 4653 TEACHING READING TO EXCEPTIONAL STUDENTS (3)**

Registration Approval: School of Education. Prerequisites: EDRD 3529 and EDSP 3107 or permission of instructor. Focuses on diagnosis of reading strengths and weaknesses; of correlates of reading problems; and analysis and selection of methods and materials for reading instruction of special needs children, including children who speak English as their second language. Attribute: Writing Course. Class not open to: Freshmen and Sophomores.

**EDSP 4657 BEHAVIOR MANAGEMENT (3)** Registration Approval: School of Education. Prerequisite: EDSP 3107. Focuses on an in-depth explanation of classroom management strategies useful in meeting the needs of behaviorally disordered children and youth. Class not open to: Freshmen and Sophomores.

**EDSP 4658 ISSUES IN SPECIAL EDUCATION (3)** Registration Approval: School of Education. Prerequisite: EDSP 3107. Explores major trends and issues affecting special education, including the rights of the disabled, emerging trends in educational services and major issues surrounding the quality of life of disabled individuals. Open to special education majors only. Attribute: Writing Course.

**Undergraduate Elective Courses****EDRD 4516 CHILDREN'S BOOKS: READING FOR ALL**

**AGES (5)** Prerequisite: ENG 1110 or equivalent. Examines the variety and richness of literature available for children and young adults; presents major genres and notable authors and illustrators and develops familiarity with varied responses to literature adaptable for classroom use. Class not open to: Freshmen.

**EDSC 4527 NATURE OF ELEMENTARY SCHOOL SCIENCE**

**(3)** Introduces science teaching strategies and processes of science (hypothesizing, designing experiments, etc.) using class activities from modern elementary science curricula.

**EDSC 4566 ENVIRONMENTAL EDUCATION FOR ELEMENTARY AND MIDDLE SCHOOL TEACHERS (3)** Gives ideas for outdoor activities, classroom activities, field trips, regional environmental resources, readings, teaching strategies, discussions. Offered summers only. Course Equivalent: NMS 4525.

**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)** Prerequisite: 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 and evaluation of models, methods and materials relevant to programs for children in pre-school, day-care centers, and kindergarten. Offered summers only. Class not open to: Freshmen.

**EDU 4900 INDEPENDENT STUDY (1-5)** Registration Approval: Independent Study Agreement. Open to School of Education 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 principles of science and mathematics to economically create the tools, products and processes that people want or need. Today, as civilization becomes more complex, the engineer must have a deeper understanding of the physical world, a wider versatility with mathematical and experimental techniques, and an increased sensitivity to the long term effects of technology on people. The engineering program not only develops these skills in the applied sciences, but 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) and Engineering and Applied Science (BSEAS). The BSEE degree is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET). The BSEAS degree offers emphases in bio-engineering, engineering chemistry, computer 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 Southern California. For example, if a student is interested 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 in chemistry, physics, mathematics and engineering. If the student then fulfills the entrance requirements, he/she may transfer to the participating university. At that university, the student would spend two years in civil or mechanical engineering to complete the second degree. Details of this 3/2 transfer program are available from the Division of Science and Engineering (206) 281-2140.

SPU engineering seniors are urged to take the Washington State Department of Licensing examination for engineer-in-training. Those passing the test are certified by Washington State as licensed engineers-in-training.

**Evening BSEE and Computer Engineering Programs**

In 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 the engineering and applied science degree may be 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 or chemistry. Those students entering with deficiencies 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 below 2.5 are normally not granted admission to the major. Transfer students (sophomores and beyond) may apply after one full quarter of classwork in the SPU engineering program. Students must be admitted to the major prior to taking senior (4000 level) courses.

**Humanities and Social Science Requirement**

To satisfy ABET accreditation guidelines, all engineering students must take at least 24 credits of philosophy, religion, history, literature, fine arts, sociology, psychology, political science, or foreign languages other than a student's native language(s). These courses satisfy a general humanities and social science accreditation requirement. Students who take the full SPU foundations and general education program more than meet this requirement.

However, transfer students should carefully select their courses to insure they fulfill the 24 credit humanities and social science requirement both in breadth and depth. They must see an advisor to insure this requirement is met.

**Requirements for the Electrical Engineering (EE) Major**

(140-141 Credits; 64-68 upper-division)

[Refer to page 52 for a summary of degree requirements]

Because engineering courses require many mathematics and science prerequisites, the electrical engineering major must specify those prerequisites, leaving few electives. However, the 15 credit natural science general education requirement is met by the courses in this major. Note that electrical engineering students are not required to fulfill the foreign language competency of the general education 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 1228 Series and Differential Equations .....	5
MAT 2228 Multivariable Calculus .....	3
MAT 2375 Probability Theory .....	3
MAT 2401 Linear Algebra .....	3
MAT 3724 Applied Analysis .....	3

**Science**

CHM 1211 General Chemistry .....	5
CHM 2371 Organic Chemistry* .....	5
PHY 1121, 1122, 1123 Physics for Science and Engineering .....	15

**Engineering Science**

CSC 1230 Problem Solving and Programming .....	5
CSC 2430 Data Structures and Programming .....	5
CSC 3410 File Structures (5) or EGR 2891 Statics (4) .....	4-5
EGR 1401 Introduction to Engineering .....	2
EGR 3841 Dynamics .....	5
EGR 4940 Engineering Internship .....	1

**Electrical Engineering**

EE 1210 Introduction to Logic System Design .....	5
EE 2726, 2727 Electric Circuits I, II .....	8
EE 3280 Microcontroller System Design .....	5
EE 3410 Signal and System Analysis .....	5
EE 3721, 3722 Electronics I, II .....	10
EE 3730 Electronic Circuit Design .....	5
EE 3760 Computer Organization and Assembly Language ....	5
EE 4211, 4212, 4213 Microprocessor System Design I, II, III .....	9
EE 4310 Electromagnetics .....	5
EE 4450 Control System Design .....	5
EE 4550 Communication System Analysis .....	5
<b>Total .....</b>	<b>141-142</b>

\*BIO 1100 or BIO 1102 may be substituted for CHM 2371 in order to satisfy the biological sciences general education requirement.

**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 courses:

EE 1210 Introduction to Logic System Design .....	5
EE 2726 Circuits I .....	4
EE 2727 Circuits II .....	4

## Engineering

EE 3721 Electronics I .....	5
EE 3722 Electronics II .....	5
Ten credits of upper-division EE courses .....	10
<b>Total .....</b>	<b>33</b>

Students who graduate with the Engineering and Applied Science (EAS) major fulfill all these requirements and thus automatically receive a minor in Electrical Engineering.

### Requirements for the Engineering and Applied Science (EAS) Major

(139-145 Credits; 50-65 upper-division)

[Refer to page 52 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 major must specify those prerequisites, leaving few electives. However, the 15 credit natural science general education requirement is met by the courses in this major. Normally, the BSEAS degree can be completed in four years by taking approximately 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 .....	5
MAT 2401 Linear Algebra .....	3

#### Science

CHM 1211 General Chemistry .....	5
PHY 1121, 1122, 1123 Physics for Science and Engineering .....	15

#### Engineering Science

CSC 1230 Problem Solving and Programming .....	5
CSC 2430 Data Structures and Programming .....	5
EGR 1401 Introduction to Engineering .....	2
EGR 2891 Statics .....	4
EGR 4940 Engineering Internship .....	1
EE 1210 Introduction to Logic System Design .....	5
EE 2726, 2727 Electric Circuits I, II .....	8
EE 3280 Microcontroller System Design .....	5
EE 3721, 3722 Electronics I, II .....	10
EE 3730 Electronic Circuit Design .....	5
EE 3760 Computer Organization and Assembly Language .....	5
EE 4211, 4212, 4213 Microprocessor System Design I, II, III .....	9

**Total .....** **102**

ECN 1100 (5) Fundamentals of Economics is a recommended general education course.

In addition to the courses above, one of the following emphases must be satisfied by completing the minimum coursework listed:

#### Bio-Engineering

BIO 2101 General Biology .....	5
BIO 3325 Genetics .....	5
CHM 2371, 2372 Organic Chemistry .....	10
CHM 3225 Chemical Equilibrium and Analysis .....	5
EGR 2391 Introduction to Material Science .....	5
EGR 3401 Thermodynamics .....	4

EGR 4352 Cell Biology .....	5
MAT 2375 Probability .....	3
<b>Total (Including EAS Core Courses) .....</b>	<b>144</b>

#### Engineering Chemistry

CHM 2371, 2372 Organic Chemistry .....	10
CHM 3225 Chemical Equilibrium and Analysis .....	5
CHM 3402 Physical Chemistry .....	5
CHM 3460 Physical Chemistry Lab .....	1
CHM 3540 Inorganic Chemistry .....	5
EGR 2391 Introduction to Material Science .....	5
EGR 3226 Quantitative and Instrumental Analysis .....	5
EGR 3401 Thermodynamics .....	4
MAT 2375 Probability .....	3

**Total (Including EAS Core Courses) .....** **145**

#### Computer Engineering

CSC 3350 Systems Programming .....	4
CSC 3410 File Structures .....	5
CSC xxxx upper-division computer science courses .....	15
MAT 4725 Numerical Analysis .....	5
MAT 2375 Probability .....	3
BIO xxxx general education biology course .....	5

**Total (Including EAS Core Courses) .....** **139**

#### Environmental Engineering

BIO 2101, 2103 General Biology I, III .....	10
BIO 3310 Ecology .....	5
CHM 2371 Organic Chemistry .....	5
CHM 3225 Chemical Equilibrium and Analysis .....	5
EGR 2391 Introduction to Material Science .....	5
EGR 3226 Quantitative and Instrumental Analysis .....	5
EGR 3401 Thermodynamics .....	4
MAT 2375 Probability .....	3

**Total (Including EAS Core Courses) .....** **144**

#### Engineering Mathematics

MAT 2228 Multivariable Calculus .....	3
MAT 2375 Probability .....	3
MAT 4725 Numerical Analysis .....	5
MAT xxxx applied mathematics courses .....	8
PHY 2321 Intermediate Physics .....	5
EGR 2391 Introduction to Material Science .....	5
EGR 3401 Thermodynamics .....	4
EGR 3841 Dynamics .....	5
BIO xxxx general education biology course .....	5

**Total (Including EAS Core Courses) .....** **145**

#### Engineering Physics

PHY 2321 Intermediate Physics .....	5
PHY 3312, 3313 Advanced Physics Lab .....	4
PHY 3401 Thermodynamics .....	4
EGR 2391 Introduction to Material Science .....	5
EGR 3841 Dynamics .....	5
EE 4310 Electromagnetics .....	5
MAT 2228 Multivariable Calculus .....	3
MAT 3724 Applied Analysis .....	3
BIO xxxx general education biology course .....	5

**Total (Including EAS Core Courses) .....** **141**

### 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) .....	10
MAT 1228 Series and Differential Equations (5) .....	5
MAT 2228 Multivariable Calculus (3) .....	3
MAT 2375 Probability (3) .....	3
MAT 2401 Linear Algebra (3) .....	3

#### Science

CHM 1211 General Chemistry (5) .....	5
CHM 2371, 2372 Organic Chemistry (10) .....	10
PHY 1121, 1122, 1123 Physics for Science and Engineering (15) .....	15

#### Engineering Science

CSC 1230 Problem Solving and Programming (5) .....	5
CSC 2430 Data Structures and Programming (5) .....	5
EE 1210 Introduction to Logic Circuit Design (5) .....	5
EE 2726, 2727 Circuits I, II (8) .....	8
EGR 2391 Material Science (5) .....	5
EGR 2891 Statics (4) .....	4
EGR 3401 Thermodynamics (4) .....	4
EGR 3841 Dynamics (5) .....	5

### Suggested Course Sequence For All Engineering Students During Their Freshman Year

#### Autumn

CHM 1211 General Chemistry .....	5
MAT 1225 Calculus .....	5
EGR 1401 Intro to Engineering .....	2
Gen Ed/Foundations .....	5
<b>Total .....</b>	<b>17</b>

#### Winter

MAT 1226 Calculus .....	5
EE 1210 Intro Logic Sys Des .....	5
Gen Ed/Foundations .....	5
<b>Total .....</b>	<b>15</b>

#### Spring

MAT 1228 Diff Equations .....	5
CSC 1230 Prob Solv and Programming .....	5
Gen Ed/Foundations .....	5
<b>Total .....</b>	<b>15</b>

Details of the sophomore through senior course scheduling are in the Engineering Student Handbooks. The internship with industry (EGR 4940) normally is taken during the summer between the junior and senior year.

### Electrical Engineering Courses

#### EE 1210 INTRODUCTION TO LOGIC SYSTEM DESIGN (5)

Introduction to digital logic design including combinational and sequential logic design with implementation using programmable logic devices and CMOS transistors. Combinational logic covers truth tables, Boolean algebra, logic gates, Karnaugh maps, multiplexers, decoders, ROMs, PLAs, and PALs. Sequential logic covers latches, flip-flops, clocks, registers, counters, finite state machines, and modern PLDs. Special emphasis is placed on design techniques. Laboratory exercises include designs using both discrete TTL gates and PLDs.

#### EE 2726 ELECTRIC CIRCUITS I (4) Prerequisite: MAT 1228.

Study of Basic Ohm's and Kirchhoff's laws, voltage/current sources, nodal, mesh and loop analysis, power transfer, Thevenin's and Norton's Theorems, superposition. Introduction to operational amplifiers, inductance, capacitance, first-order and second-order transient response. Includes lab problems and introduction to PSPICE and MATLAB computer software.

#### EE 2727 ELECTRIC CIRCUITS II (4) Prerequisite: EE 2726.

Introduction to state variable analysis. Alternating current theory and analysis, power, frequency response, resonance and polo-zero concepts. Introduction to Laplace transforms applied to network analysis. Transformers and two-port network concepts. Includes lab problems, PSPICE and MATLAB.

**EE 3280 MICROCONTROLLER SYSTEM DESIGN (5)** Prerequisites: EE 1210 and 3760 or CSC 3760. Design of hardware and software for embedded systems using a modern microcontroller. Covers hardware interfacing including memory system design, interrupt interfacing, and use of internal and external peripheral devices. Emphasis is placed on assembly language programming of the microcontroller including device drivers, exception and interrupt handling, and interfacing with higher-level languages. Laboratory exercises require assembly language programming and hardware design.

**EE 3410 SIGNAL AND SYSTEM ANALYSIS (5)** Prerequisites: 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 filters and their effects. Uses transform methods including Fourier series and transforms, FFT, Laplace transforms and Z transforms. Includes computer problems.

**EE 3710 ELECTROMAGNETICS I (3)** Prerequisites: EE 2727, PHY 1123. MAT 3724 is prerequisite or concurrent. Study of transmission lines as lumped-circuits, transmission line reflections, electrostatic and magnetostatic fields and boundary conditions. Includes computer and laboratory experiments.

**EE 3711 ELECTROMAGNETICS II (4)** Prerequisite: EE 3710. Study of Maxwell's equations to obtain electromagnetic waves. Considers reflection, refraction, the skin effect, and evanescent waves in various applications: waveguides, optics and antennas. Includes computer and laboratory experiments and design project.

**EE 3721 ELECTRONICS I - ANALOG DEVICES AND CIRCUITS (5)** Prerequisite: EE 2727. Study of electronic devices and basic circuit configurations. Topics covered include operational amplifiers, diodes, bipolar junction transistors, field effect transistors, differential amplifiers. Includes lab problems.

**EE 3722 ELECTRONICS II ANALOG ELECTRONICS (5)** Prerequisite: EE 3721. Study of frequency response, feedback, output stages and power amplifiers, analog integrated circuits, filters, oscillators, wave-shaping circuits. Includes lab problems.

**EE 3730 ELECTRONIC CIRCUIT DESIGN (5)** Prerequisite: EE 3722. Team design and construction of industrial or self-designed 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 ASSEMBLY 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 computer system. Introduces networks and communications systems, micro-programming, 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 mixed digital and analog system design including embedded software design. Student teams begin a system level design of a company-sponsored project (a non-disclosure agreement may be required). Projects typically include use of a microcontroller and may include analog-to-digital converters, digital signal-processing chips, external memories, power supplies, user interfaces and more. Students provide detailed schedules for building prototype systems and present weekly progress reports. During the course, students produce a technical specification, undergo a Preliminary Design Review (PDR) and build a working prototype system.

**EE 4212 MICROPROCESSOR-BASED MIXED SIGNAL SYSTEM DESIGN II (3)** Prerequisite: EE 4211. Continued study of mixed digital and analog system design including embedded software design. Student teams design printed circuit boards for their products using CAD PCB layout tools and continue to refine the prototype hardware and software designs from EE 4211. Special topics include design-for-test, user interface design, and minimizing electromagnetic interference (EMI). Teams write a detailed technical report and submit their designs to a Critical Design Review (CDR). Weekly progress reports and team presentations are required.

## Engineering



English

**EE 4213 MICROPROCESSOR-BASED MIXED SIGNAL SYSTEM DESIGN III (3)** Prerequisite: EE 4212. Designs from EE 4212 are developed into a manufacturing prototype and tested. Covers testing methodology (hardware and software), board debugging, and documentation methodology. Teams author operations manuals and detailed technical manuals. Weekly progress reports and final presentations are required. Attribute: Writing Course.

**EE 4310 ELECTROMAGNETICS (5)** Prerequisites: MAT 1228, MAT 2228, and either PHY 1103 or PHY 1123. Study of 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 and laboratory experiments. Course Equivalent: PHY 4310.

**EE 4412 DIGITAL CONTROL AND FILTERING (4)** Prerequisite: EE 4411. Analysis and design of digital control systems and digital filters. Study of z-transforms, discrete equivalents of continuous transfer functions, discrete filters, and design of realtime digital computer control systems using root locus and state variable methods. Includes laboratory design using microcontrollers. Class open to: Electrical Engineering majors.

**EE 4450 CONTROL SYSTEM DESIGN (5)** Prerequisite: EE 3410. Analog and digital control system design using root locus, frequency and state variable methods. Includes a comprehensive design and test of a realtime digital control system. Introduction to fuzzy logic control system design. MATLAB and SIMULINK are used extensively as design tools. Class open to: Electrical Engineering majors.

**EE 4550 COMMUNICATION SYSTEM ANALYSIS (5)** Prerequisites: EE 3410 and either MAT 1360 or 2375. Introduction to principles of modern communication systems. Pulse amplitude and pulse code modulation are covered. Digital techniques of delta modulation and time division multiplexing are presented. The basics of AM, FM, and PM transmitters and receivers are treated along with noise effects, filtering, threshold effects and phase-locked loops. Common carrier, fiber optic, satellite and television systems are outlined. Computer communication protocols and networks. Includes computer simulation problems. Class open to: Electrical Engineering majors.

**EE 4950 TOPICS IN ELECTRICAL ENGINEERING (3-5)** Registration Approval: Instructor. An advanced course studying a special interest topic in electrical engineering. Topics and credits may vary between offerings. Class open to: Electrical Engineering majors. Class not open to: Freshmen and Sophomores.

Engineering Courses

**EGR 1401 INTRODUCTION TO ENGINEERING (2)** For freshmen engineering students. Introduction to the engineering career field. Resume writing instruction. Includes small robotic team project to learn fundamentals of electrical and mechanical hardware. Tours of technology companies and a variety of guest speakers from industry. Survey paper on a technology topic chosen by the student. Speakers from industry and company tours.

**EGR 2391 INTRODUCTION TO MATERIALS SCIENCE (5)** Prerequisites: CHM 1212 and MAT 1226. Studies crystallization, diffusion, heat treatment and other atomic and electrical processes in metals, ceramics, polymers and composites to aid in material selection for various engineering applications.

**EGR 2891 STATICS (4)** Prerequisite: PHY 1121. Studies equilibrium of particles and of rigid bodies, structural analysis, internal forces on beams and cables, friction, center of gravity, area moments of inertia, and virtual work.

**EGR 3226 QUANTITATIVE AND INSTRUMENTAL ANALYSIS (5)** Prerequisite: CHM 1213. Laboratory oriented course, dealing with the theory and practice of quantitative analytical chemistry with emphasis on instrumental techniques. Instrumental analysis will include a variety of separation, spectroscopic and electrochemical methods, includes engineering and clinical applications. Useful for engineering majors, medical technologists, pre-medical and pre-dental students, physical and biological science majors. Course Equivalent: CHM 3226.

**EGR 3401 THERMODYNAMICS (4)** Prerequisites: CHM 1211, and MAT 1228, and either PHY 1103 or 1123. Studies equilibrium and non-equilibrium properties of gases, liquids, and solids from thermodynamic processes. Considers engineering applications. Includes elements of statistical thermodynamics. Course Equivalents: CHM 3401 and PHY 3401.

**EGR 3841 DYNAMICS (5)** Prerequisites: MAT 1228, MAT 2401, and either PHY 1101 or PHY 1121. Study of vectorial treatment of Newton's laws for undamped and damped linear, rotational, and vibrational motion in several coordinate systems. Includes solving problems for particles and rigid bodies using energy, momentum, and angular momentum conservation laws. Course Equivalent: PHY 3841.

**EGR 3871 TRANSPORT PROCESSES (5)** Prerequisites: MAT 1228, MAT 2401 and PHY 1123. Studies fluid mechanics, both static and dynamics. Emphasis is on the control volume approach, covering the transport of mass, energy, momentum and angular momentum, with engineering applications. Offered alternate years.

**EGR 4352 CELL BIOLOGY (5)** Prerequisites: BIO 3325 and CHM 2371. Examines structure and functions of viruses, bacteria, plants and animals emphasizing cellular specialization, organelle models and chemical dynamics. Includes laboratory. Course Equivalent: BIO 4352.

**EGR 4740 INTERNSHIP PREPARATION (1)** Preparatory course for those taking EGR 4940, Engineering Internship. Includes resume and cover letter preparation, library research, guest speakers, engineering ethics. A research paper with oral report is required. Attribute: Writing Course.

**EGR 4900 INDEPENDENT STUDY IN ENGINEERING (1-5)** Registration Approval: Independent Study Agreement. Student does an independent study under direction of a faculty member. Study of problems in a topic for which related courses have been completed. May be repeated for credit up to 5 credits.

**EGR 4910 WASHINGTON STATE EIT PREPARATION (1)** Registration Approval: Engineering Faculty. Seminar review of principles and problem solving in math, chemistry, physics, electrical engineering, engineering science, and engineering economics in the proportions these topics are covered in the Washington State EIT test.

**EGR 4930 ENGINEERING APPLICATIONS IN INDUSTRY (3-10)** Registration Approval: Engineering Faculty. Provides pre-arranged coordinated field experience in engineering employment in industry. A coordinating committee plans the program with the student and evaluates the learning experience. May be repeated for credit up to 10 credits.

**EGR 4940 ENGINEERING INTERNSHIP (1-5)** Registration Approval: Intern Learning Contract Req. Internship I is normally a summer job with an engineering company. The job is fully coordinated between the intern's faculty advisor and an engineer in the host company. The jobs are intended to be a professional learning experience for the student. Internship II is a company sponsored design project during the senior year. All internships are designed to give the student experience in the real world engineering process. An oral presentation and a written report are required. May be repeated for credit up to 5 credits. Attribute: Writing Course.

English

**Thomas Amorose, Janet Blumberg, Joyce Quiring Erickson, Susan VanZanten Gallagher, Fan Mayhall Gates, Jennifer Maier, Luke Reinsma, Douglas Thorpe, Mark Walhout**

Courses in English give students the opportunity to read a rich variety of excellent literature and to improve their own writing and thinking. Literature courses show how language enables us to explore and shape 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.

Within the liberal arts tradition, 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 individual and cultural diversity.

An English major prepares students to enter professions such as the ministry, law, social work, or medicine; to work in a variety of businesses and

governmental agencies; to teach in elementary or secondary schools; to pursue graduate study in English or the humanities; and generally to enter life with an appreciation for God's gifts of language and literature.

Objectives of the Major

1. Understanding of the relationship between literature and the Christian faith, and insight into the study of literature as a means of clarifying one's own values.
2. Knowledge of the history of English and American literature and some understanding of their relationship to the literature of Europe and the world.
3. Knowledge of major writers and works and of their relationship to intellectual, ideological, and cultural backgrounds.
4. Proficiency in reading closely and analyzing a literary text, coupled with understanding of major critical approaches.
5. Development and refinement of a personal prose style.
6. Knowledge of library resources and techniques for research in literature and language.
7. Familiarity with the major historical, philosophical, and technical aspects of language.

Admission to the Major

Applicants for a major in English must display an average GPA of 2.5 or higher (4.0=A) in ENG 2225 and 2251, 2252, or 2253.

Requirements for the English Major

(64 Credits; 30 upper-division)  
*[Refer to page 52 for a summary of degree requirements]*

Core Courses

ENG 2225 Practical Criticism: Writing and Research ..... 5  
ENG 2251 English Literature: Beginnings through Milton .... 5  
ENG 2252 English Literature: Restoration through Victorian ..... 5  
ENG 2253 American Literature: Beginnings to 1900 ..... 5  
ENG 3246 World Literature ..... 5  
ENG 4225 Senior Literature Seminar\* ..... 5  
ENG 4445 Shakespeare ..... 5  
*\*Note: Meets requirement in British, American, or World Literature, 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 3347 18th-Century Poetry and Fiction (5)  
ENG 3348 Romantic Poetry and Fiction (5)  
ENG 3351 Victorian Poetry and Fiction (5)  
ENG 3352 The Moderns (5)  
ENG 4425 Modern Poetry (5)\* ..... 10

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)\* ..... 10

World Literature

Select one course from the following:  
CLA 3014 Survey of Ancient Greek Literature (5)  
CLA 3204 Survey of Classical Latin Literature (5)  
ENG 3248 Non-Western Literature (5)

English

ENG 3380 African Literature (5)  
ENG 3381 Asian 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)  
SPN 4401 Topics in Spanish Literature (3)  
SPN 4501 Topics in Latin American Literature (3) ..... 5

Electives

Any additional courses in British, American, or World Literature listed above, and/or:  
EDRD 4516 Children's Books (5)  
ENG 2215 Imaginative Writing (3)  
ENG 3180 Advanced Grammar (3)  
ENG 3206 Technical Writing (3)  
ENG 3207 Business Writing (3)  
ENG 3234 Literature by Women (5)  
ENG 3301 Writing to be Read (3)  
ENG 3316 Workshop in Writing Poetry (3)  
ENG 3317 Workshop in Writing Fiction (3)  
ENG 4401 Writing Beyond College (3)  
ENG 4601 History of English (3)  
ENG 4685 History of Literary Theory (5)  
JRN 2101 Informational News Writing (4)  
LIN 2100 Foundations of Language Study (3) ..... 9  
**Total ..... 64**  
*\*Note: 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. .... 5  
TRE 1930 Performance Practicum (2)  
or TRE 1931 Production Practicum (2) ..... 2  
JRN 2101 Informational News Writing. .... 4  
LIN 2100 Foundations of Language Study (3)  
or ENG 3180 Advanced Grammar (3). ..... 3  
**Total ..... 14**

In addition, COM 2330 Oral Interpretation and ENG 3230 Young Adult Literature are strongly recommended. Note that this endorsement partially fulfills the requirements for a supporting endorsement on a teaching credential. See the 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 proficiency is not satisfied by transfer of an AA degree from a community college unless the transcript records the completion of foreign language coursework. It is strongly recommended, however, that English majors complete at least two years of study of either a contemporary or ancient foreign language.

Requirements for the Literature Minor

(30 Credits; 15 upper-division)  
ENG 2251 English Literature: Beginnings through Milton .... 5  
ENG 2252 English Literature: Restoration through Victorian ..... 5  
ENG 2253 American Literature: Beginnings to 1900 ..... 5  
ENG 3246 World Literature ..... 5

*"An important part of what a Christian liberal arts education offers us is the opportunity to deepen and enrich our faith with the thoughts and insights of Christian thinkers from many other cultures and time periods."*

**Janet Blumberg**  
College of Arts and Sciences



ENG 4445 Shakespeare .....	5
Any upper-division course from American, British, World, or Elective categories .....	5
<b>Total .....</b>	<b>30</b>

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

### Requirements for the Writing Minor

(30 Credits; 15 upper-division)	
ENG 2215 Imaginative Writing .....	3
ENG 3180 Advanced Grammar .....	3
ENG 3206 Technical Writing .....	3
ENG 3207 Business Writing .....	3
ENG 3301 Writing to be Read .....	3
ENG 4401 Writing Beyond College. ....	3
ENG 4940 English Internship .....	3
JRN 2101 Informational News Writing .....	4
Electives* .....	5
<b>Total .....</b>	<b>30</b>

\*Note: Approved courses from English and journalism.

### English Courses

**ENG 0101 NON-NATIVE WRITERS LAB (2)** Registration Approval: Director of Campus Writing. Closes gaps in students' writing of standard English through writing short papers and studying grammar. This is a skills development course. Credits in this course do not apply towards graduation requirements.

**ENG 0102 WRITING LABORATORY (2)** Registration Approval: Director of Campus Writing. Helps students develop writing skills and ability sufficient to place them in the introductory college writing course (ENG 1101). This is a tutorial course in which 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)** Offers the opportunity for self-paced tutorial to improve spelling skill. Consists of exercises, diagnostic tests and reviews. Primarily a course for education students working to improve their spelling.

**ENG 1101 WRITING IN COLLEGE (3)** Registration Approval: Director of Campus Writing. Introduces students to skills and abilities necessary to writing in college through the study of a topic related to the University's mission. Emphasizes analysis of texts and other materials, writing assignments typical of college, and revision. Tutorial sessions in the writing lab may be required. Class not open to: Juniors and Seniors.

**ENG 1110 LITERATURE AND FAITH (5)** Introduces students to the experience of reading works of literature, with particular attention to the place of faith in both the content of the works and the process of reading them.

**ENG 2201 RESEARCH FOR WRITING (3)** Prerequisite: ENG 1101, superior score on English Placement Test, or permission of Director of Campus Writing. Introduces students to new and traditional research materials available as sources for writing in various academic disciplines. Emphasizes close reading, critical thinking and clear writing using these sources. Course includes library tutorials.

**ENG 2215 IMAGINATIVE WRITING (3)** Registration Approval: Instructor. Prerequisites: ENG 1101 and 1110. Fosters the vision and skills necessary for effective writing of poetry and fiction.

**ENG 2225 PRACTICAL CRITICISM: WRITING AND RESEARCH (5)** Prerequisite: ENG 1110 or permission of instructor. An introduction to various contemporary approaches to the study of literature, with emphasis on scholarly research, thinking and writing. Includes consideration of Christian approaches to criticism.

**ENG 2230 LITERATURE OF AMERICAN WEST (5)** Prerequisite: ENG 1110 or permission of instructor. Explores poetry, essays, and fiction associated with the "Idea of the West" developed on the North American continent over the past two centuries. Particular emphasis is given to the importance of place in shaping the literature and the spirituality of writers in the west.

**ENG 2233 ISSUES OF FAITH IN LITERATURE (5)** Prerequisite: ENG 1110 or permission of the instructor. Examines the treatment of belief and disbelief in literature shaped by various Christian traditions and by a variety of social and literary contexts. Instructor may choose to focus on American, British, or contemporary literature. May be taken by distance learning.

**ENG 2251 ENGLISH LITERATURE: BEGINNINGS THROUGH MILTON (5)** Prerequisite: ENG 1110. Surveys the first three periods of English literary history: Old English, including the 8th-century Anglo-Saxon epic Beowulf; Middle English, including Chaucer's Canterbury Tales; and English Renaissance, concluding with Milton's 17th-century Paradise Lost.

**ENG 2252 ENGLISH LITERATURE: RESTORATION THROUGH VICTORIAN (5)** Prerequisite: ENG 1110. Surveys major authors, themes, genres and movements in British Literature of the 18th and 19th centuries, including intellectual and social contexts.

**ENG 2253 AMERICAN LITERATURE: BEGINNINGS TO 1900 (5)** Prerequisite: ENG 1110. Surveys major authors, themes, genres and movements in American literature from the colonial era through the modern period, including intellectual and social contexts.

**ENG 2350 INTRODUCTION TO WOMEN'S STUDIES (5)** This course looks at women's autobiographies, introduces theoretical approaches to gender, and offers an interdisciplinary survey of women's issues relating to such areas as the church, spirituality, economics, health, vocation, social and political activity, and literary and artistic expression. Course Equivalent: SOC 2350.

**ENG 3000 BRITISH ISLES ORIENTATION (1)** Registration Approval: Instructor. Introduces students to the literary and cultural landscape of the British Isles. Orients students to the academic work of the ensuing British Isles Quarter, and to the challenges and opportunities of traveling and studying in Britain. Addresses practical matters such as financial aid, BIQ itinerary, travel safety and post-quarter travel. Graded pass/fail. Offered alternate years.

**ENG 3110 INDIVIDUAL IN THE LITERARY WORLD - M (5)** Explores major Western literary works (Homer, Greek drama, Shakespeare, Marlowe, Dostoyevski, Camus, Greene) through the study of cultural backgrounds and common themes. This course is offered only via distance learning.

**ENG 3180 ADVANCED GRAMMAR (3)** This basic grammar course brings insights from both traditional and generative-transformational approaches to explain how language works. Especially designed for teachers of English, it also introduces students to parts of speech, phrases, and clauses, as well as to grammatical and mechanical rules for generating standard American English.

**ENG 3206 TECHNICAL WRITING (3)** Prerequisite: ENG 1101 or superior score on English Placement Test. Develops abilities associated with writing tasks in the technical workplace, including technical reports, proposals, instructional manuals and technical correspondence. Emphasizes appropriate language levels/ styles and collaborative writing. Preparation and publication of technical materials also addressed. Attribute: Writing Course.

**ENG 3207 BUSINESS WRITING (3)** Prerequisite: ENG 1101 or superior score on English Placement Test. Develops abilities associated with writing tasks in the business workplace, including letters, memoranda, resumes and business reports. Emphasizes appropriate tone/voice and collaborative writing. Layout and physical preparation of materials also addressed. Attribute: Writing Course.

**ENG 3208 PROFESSIONAL AND BUSINESS WRITING - M (5)** Reviews college-level writing skills and provides expertise in many of the important business writing and technical communication skills. Covers business correspondence and proposal writing. May not be taken for credit if ENG 3207 Business Writing has previously been taken. Offered only by distance learning. Attribute: Writing 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 both critical and pedagogical strategies to the reading. Limited to students seeking certification in middle school or secondary education. Offered alternate years.

**ENG 3234 LITERATURE BY WOMEN (5)** Prerequisite: ENG 1110. A study of poems, stories, plays and essays written in English by women. The course will include classic as well as rediscovered women writers, and will examine the significant themes, the literary forms and the social contexts of literature written by women.

**ENG 3235 LITERATURE OF THE AMERICAN RENAISSANCE (5)** Prerequisite: ENG 2253 or permission of instructor. Focuses on the first flowering of American literature in the difficult years before the Civil War. Includes works by such writers as Emerson, Thoreau, Douglass, Hawthorne, Melville, Stowe, Whitman and Dickinson. Offered alternate years.

**ENG 3246 WORLD LITERATURE (5)** Prerequisite: ENG 1110. Traces the development of and the major themes in the tradition of world literature from the classical period through the Middle Ages and Renaissance to the modern era. Includes writers such as Vergil, Dante, Cervantes, Dostoyevsky and at least one work of non-Western literature. Attribute: Writing Course.

**ENG 3248 NON-WESTERN LITERATURE (5)** Prerequisite: ENG 1110. Investigates selected literary works by authors from Latin America, Africa, and Asia, with particular emphasis on the contemporary period.

**ENG 3301 WRITING TO BE READ (3)** Prerequisites: ENG 1101, 2201, or superior score on English Placement Test. Intermediate-level writing for students who have mastered the basics of college writing and who wish to develop a personal style suitable for various writing occasions. Emphasizes peer critique and response. Attribute: Writing Course. Class not open to: Freshmen and Sophomores.

**ENG 3316 WORKSHOP IN WRITING POETRY (3)** Prerequisite: ENG 2215 or permission of instructor. Offered alternate years.

**ENG 3317 WORKSHOP IN WRITING FICTION (3)** Prerequisite: ENG 2215 or permission of instructor. Offered alternate years.

**ENG 3334 AMERICAN ETHNIC LITERATURE (5)** Prerequisite: ENG 1110 or permission of instructor. Traces the expression in novels, plays, poems and essays of the minority groups who have been a part of the American people, particularly emphasizing the writing of African-Americans.

**ENG 3336 THE AGE OF REALISM (5)** Prerequisite: ENG 2253 or permission of instructor. Focuses on the development of realism and naturalism in the era of modernization following the Civil War. Includes work by such writers as Howells, James, Twain, Chopin, Crane, Dreiser, and Wharton. Offered alternate years.

**ENG 3337 SOUTHERN WRITERS (5)** Prerequisite: ENG 2253 or permission of instructor. Considers 20th-century novels and short stories by such writers as Faulkner, Warren, Welty, O'Connor 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 1920s with authors such as Faulkner, Hemingway and Fitzgerald, and then treats novels and short stories from the 1960s to the present. Offered alternate years.

**ENG 3345 THE ARTHURIAN TRADITION IN EARLY ENGLISH LITERATURE (5)** Prerequisite: ENG 2251 or permission of instructor. Examines the growth of the Arthurian legend in the works of Nennius, Gildas, Geoffrey of Monmouth and Chretien de Troyes. Also considers how the legend flourishes in Gawain and the Green Knight and Malory's Morte d'Arthur. Offered alternate years.

**ENG 3346 LITERATURE OF THE ENGLISH RENAISSANCE (5)** Prerequisite: ENG 2251 or permission of instructor. Considers the "Golden Age" of Elizabeth I and the darker days which followed, as seen through the works of Wyatt, Spenser, Sidney, Raleigh, Shakespeare, Bacon, Milton and other contemporaries. Special attention given to written explication of poems by Donne, Herbert and Marvell. Offered alternate years.

**ENG 3347 18TH-CENTURY POETRY AND FICTION (5)** Prerequisite: ENG 2252 or permission of instructor. Considers the varieties of literary responses to the European Enlightenment and changes in social, political, and religious conditions in Britain, focusing on satire and the novel. Includes writings of Defoe, Swift, Pope, Fielding, Richardson, Johnson, and Jane Austen. Offered alternate years.

**ENG 3348 ROMANTIC POETRY AND FICTION (5)** Prerequisite: ENG 2252 or permission of instructor. Studies selected works of such British Romantic writers, including Blake, Wordsworth, Coleridge, Byron, Keats, and the Shelleys. Offered alternate years.

**ENG 3351 VICTORIAN POETRY AND FICTION (5)** Prerequisite: ENG 2252 or permission of instructor. Studies the poetry of the Brownings, Tennyson, Arnold, and Christina Rossetti as inheritors of the Romantic tradition and novels by the Brontes, Dickens, Eliot, and Hardy. Special attention to the various ideologies of Victorian culture in comparison to contemporary values. Offered alternate years.

**ENG 3352 THE MODERNS (5)** Prerequisite: ENG 2252 or permission 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 Conrad, Yeats, Eliot, Pound, Joyce, Lawrence and Woolf. Offered alternate years.

**ENG 3380 AFRICAN LITERATURE (5)** Prerequisite: ENG 1110 or permission of instructor. 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, Dangaremba, Fugard, Gordimer, Ngugi and Soyinka. Offered alternate years.

**ENG 3381 ASIAN LITERATURE (5)** Prerequisite: ENG 1110 or permission of instructor. Examines the work of predominantly Japanese authors in the light of the country's social and cultural history. Includes works by such writers as Murasaki Shikibu, Basho, Shusaku Endo, Yasunari Kawabata, Yukio Mishima and Kobo Abe. Offered alternate years.

**ENG 4225 SENIOR LITERATURE SEMINAR (5)** Prerequisite: ENG 2225 and 2251-53 or permission of instructor. Studies the work of one or two major authors, with emphasis on scholarly research and writing. May be repeated for credit up to 10 credits. Attribute: Writing Course. Class not open to: Freshmen, Sophomores and Juniors.

**ENG 4401 WRITING BEYOND COLLEGE (3)** Prerequisite: ENG 3301 or permission of instructor. Provides opportunities for advanced writers to produce major essays and experiment with various styles and genres of writing, with emphasis on preparing students for writing beyond college. Attribute: Writing Course.

**ENG 4425 MODERN POETRY (5)** Prerequisite: ENG 1110 or permission of instructor. Concentrates on how to read, understand, evaluate and enjoy the work of major modern poets from Hopkins to the present. Special attention given to the conventions and critical terms of poetry. Offered alternate years.

**ENG 4445 SHAKESPEARE (5)** Prerequisite: ENG 2251 or permission of instructor. Considers Shakespeare's comedies, histories, tragedies and romances while studying his art and thought in relation to the Elizabethan background. Attribute: 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 the relationship of each language stage to literary expression during its era. Offered alternate years. Course Equivalent: LIN 4601.

**ENG 4661 THE BEST OF C.S. LEWIS (3)** Identifies basic literary, philosophical and theological categories of Lewis' works. Studies the great themes which permeate Lewis' literature, through examining his major works.

**ENG 4685 HISTORY OF LITERARY THEORY (5)** Prerequisite: ENG 2225 or permission of instructor. Studies the major issues and schools of literary theory in terms of their historical development. The course is especially appropriate for advanced majors. It also provides a useful synthesis for those who might be considering graduate studies in English. Offered alternate years.

**ENG 4900 INDEPENDENT STUDY (1-5)** Registration Approval: Independent Study Agreement. May be repeated for credit up to 5 credits. Class not open to: Freshmen and Sophomores.

**ENG 4901 INDEPENDENT STUDY ABROAD (1-5)** Registration Approval: Independent Study Agreement. Reserved for students who wish to arrange for Independent Study credit while abroad during the British Isles Quarter.

**ENG 4921 DIRECTED READINGS IN THE C.S. LEWIS CIRCLE (1-5)** Registration Approval: Independent Study Agreement. Offers directed study in the fiction and/or literary criticism of C.S. Lewis, J.R.R. Tolkien, Dorothy L. Sayers, and Charles Williams. Examples of the belles-lettres: Till We Have Faces: A Myth Retold (Lewis), The Lord of the Rings (Tolkien), The Man Born to Be King (Sayers) and Descent into Hell (Williams).

**ENG 4930 ENGLISH PRACTICUM (1-3)** Registration Approval: Instructor. For advanced students who wish to assist as tutors, discussion leaders, and readers in lower-division English classes. May be repeated for credit up to 6 credits. Class not open to: Freshmen and Sophomores.

**ENG 4940 COOP EDUCATION: ENGLISH INTERNSHIP (1-5)** Registration Approval: Intern Learning Contract Req. Applies writing skills in varied employment settings; possibilities include public relations offices, newspapers, and other informational services. Students may suggest their own internships in



English as a Second Language

European Studies

Family and Consumer Sciences

consultation with the faculty supervisor, as long as writing skills are used and other internship criteria are met. May be repeated for credit up to 6 credits. Course Equivalent: JRN 4940. Class not open to: Freshmen and Sophomores.

**ENG 4941 COOP EDUCATION: ENGLISH INTERNSHIP (1-5)** Registration Approval: Intern Learning Contract Req. See course description for ENG 4940. May be repeated for credit up to 6 credits. Course Equivalent: JRN 4941. Class not open to: Freshmen and Sophomores.

**ENG 4950 SPECIAL TOPICS IN LITERATURE (3-5)** Topics to be announced in Time Schedule. May be repeated for credit up to 5 credits.

**ENG 4952 BRITISH ISLES: SPECIAL TOPICS (3)** Registration Approval: Travel Studies Form. Offered in Britain. Explores aspects of British culture and history, to be determined by the instructors, as part of the British Isles Quarter. Offered alternate years.

## English as a Second Language (ESL)

The Language Institute offers English as a second language classes to foreign students and American non-native speakers of English. Completion of the Advanced B level with grades of A or B enables applicants to meet SPU's English proficiency requirement. Both SPU and non-SPU students may take Language Institute courses.

The Language Institute was established on the SPU campus in 1977 and is administered by the American Cultural Exchange. The Language Institute curriculum is an intensive, 10-week, multi-level program which is designed to prepare foreign students for admission to American colleges and universities. During the summer, the Language Institute offers a regular 10-week session, a 5-week session and a short semi-intensive program emphasizing cultural orientation for foreign visitors and students. Specific courses offered are noted below.

### English as a Second Language (ESL)

Non-native speakers of English who need assistance in developing their English skills or in orientation to American culture may register for courses through the Language Institute. With the exception of ESL 1000, ESL 1030 and COM 1000, courses 0011 through 0067 shown below are not applicable toward a degree at SPU. Placement in these courses is determined by testing through the Language Institute.

**ESL 0011, 0021, 0031, 0041, 0051 READING (4)**

**ESL 0012, 0022, 0032, 0042, 0052, 0068 WRITING (4)**

**ESL 0013, 0014 BASIC SKILLS/SEMINAR (4)**

**ESL 0015, 0025, 0035, 0045, 0055 SPECIAL TOPICS IN ESL (1-4)**

**ESL 0023, 0033, 0043 GRAMMAR (4)**

**ESL 0024, 0034, 0047, 0060 COMMUNICATION SKILLS (4)**

**ESL 0037 ENGLISH THROUGH BUSINESS (4)**

**ESL 0050, 0059 ADVANCED INTEGRATED SKILLS (4)**

**ESL 0057, 0058 COLLEGE COURSE OBSERVATION/SEMINAR (4)**

**ESL 0067 COLLEGE STUDY SKILLS (4)**

**ESL 1000 ESL CONFERENCE WRITING (4)** Permission of Language Institute Director is required to register. Helps non-native speakers of English to improve their writing through group instruction and one-on-one conferencing. Emphasis is placed on standard English structure, sophistication of vocabulary and writing style, and self-editing skills. Successful completion of ESL 1000 obligates a student to take ENG 0101, ENG 0102 and ENG 1101.

**ESL 1030 ESL SKILLS DEVELOPMENT (1-5)** Prerequisite: ESL 0041 and 0042 or equivalent. Permission of Language Institute Director is required to register. May be repeated for credit 1 time.  
**COM 1000 ORAL COMMUNICATION FOR NON-NATIVE ENGLISH SPEAKERS (4)** Permission of Language Institute Director is required to register. Develops presentation, listening, interpersonal, and pronunciation skills necessary for active participation in the college classroom.

For further information about these courses and an application, contact the Language Institute, 319 W. Nickerson St., Seattle, WA 98119, (206) 281-2106. FAX transmissions may be sent directly to the Language Institute at (206) 281-2076.

## European Studies

See Languages section.

## Family and Consumer Sciences

**Barbara Bovy, Director; Evette Hackman, Sandra Hartje, Sharleen Kato, Gaile Moe, Stella Warnick**  
Family and consumer sciences is a multi-disciplinary field of study integrating and applying knowledge from research within the discipline, the natural sciences, social and behavioral sciences and the arts. Using basic principles from these disciplines, family and consumer sciences offers solutions to problems faced by individuals, families, and communities. Students majoring in other areas find family 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 professional capacity. Through a broad base of core competencies and relevant knowledge within various specializations, students are effectively prepared to enhance the quality of peoples' 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 available in business, public service, and government and are an integral part of the curriculum.

### Requirements for the Majors

A variety of degree programs are available in family and consumer sciences, each built around a common core of courses designated as the core curriculum. Students select a major from the options offered and these courses are taken concurrently with the core curriculum. Of the total credits required for a family and consumer science major, 25 credits must be upper-division. Two degrees are offered: B.A. or B.S. The B.S. degree requires 30 credits in the natural science disciplines. All students desiring degrees in 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.

Additional courses may be required within each of the 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)	
FCS 1050 Professional Perspectives .....	2
Select one course from the following:	
FCS 1310 Introductory Nutrition (3)	
FCS 2365 Food Science (5)	
FCS 2385 Food and the Consumer (3) .....	3-5
Select one course from the following:	
FCS 2830 Textiles for the Consumer (5)	
FCS 3870 History of Costume (5)	
FCS 3875 Clothing and Human Behavior (3)	
FCS 4911 Current Issues in Clothing and Textiles (3) ...	3-5
FCS 3220 Child Development (3)	
or FCS 4240 Family Relations (3) .....	3
FCS 3410 Individual and Family Finance (4)	
or FCS 3460 Family Resource Management (3) *	3-4
FCS 4630 Foundations and Contemporary Issues .....	3
<b>Total .....</b>	<b>17-22</b>
<i>*Prerequisite</i>	

Additional courses by advisement may include:  
FCS 4930 Family and Consumer Sciences Practicum ..... 1-5  
    or FCS 4940 Internship ..... 3-10

Additional courses required for various majors are listed as follows:

## Family and Consumer Sciences Major

A B.A. degree is offered in Elementary and Secondary Family and Consumer Science Education and General Family and Consumer Sciences. The general family and consumer sciences area offers a focus in teaching, the generalist area, or in one of the student-designed options of child and family studies, or consumer relations. All majors take the family and consumer sciences core. Students seeking teacher certification in Family and Consumer Science Education at either the elementary or secondary level must meet the requirements of the teacher education program in addition to academic requirements in family and consumer sciences.

### Elementary Family and Consumer Science Education

(47-50 credits; 25 upper-division)	
FCS 1050 Professional Perspectives .....	2
FCS 1310 Introductory Nutrition (3)	
or FCS 2385 Food and the Consumer (3) .....	3
FCS 2365 Food Science .....	5
FCS 1710 Design Fundamentals (5)	
or FCS 2702 Introduction to Interior Design (2) .....	2-5
FCS 2830 Textiles for the Consumer .....	5
FCS 3220 Child Development .....	3
FCS 3385 Food and Culture (3)	
or FCS 3710 Family Housing (3) .....	3
FCS 3410 Individual and Family Finance .....	3
FCS 3460 Family Resource Management .....	3
FCS 3564 Presentation Skills .....	4
FCS 3875 Clothing and Human Behavior .....	3
FCS 4240 Family Relations .....	3
FCS 4250 Strategies in Early Childhood .....	3
FCS 4511 Family Consumer Sciences Teaching Methods ....	5

FCS 4630 Foundations and Contemporary Issues .....	3
<b>Total .....</b>	<b>47-50</b>

### Secondary Family and Consumer Science Education

(Meets state requirements for vocational certification) (65 credits; 25 upper-division)	
FCS 1050 Professional Perspectives .....	2
FCS 1310 Introductory Nutrition (3)	
or FCS 2385 Food and the Consumer (3) .....	3
FCS 2252 Marriage and the Family .....	5
FCS 2365 Food Science .....	5
FCS 2702 Introduction to Interior Design .....	2
FCS 2830 Textiles for the Consumer .....	5
FCS 3220 Child Development .....	3
FCS 3365 Food Management and Economics .....	4
FCS 3410 Individual and Family Finance .....	3
FCS 3460 Family Resource Management .....	3
FCS 3564 Presentation Skills .....	4
FCS 3710 Family Housing .....	3
FCS 3712 Residential Technology .....	3
FCS 3875 Clothing and Human Behavior .....	3
FCS 4240 Family Relations .....	3
FCS 4250 Strategies in Early Childhood .....	3
FCS 4511 Family Consumer Science Teaching Methods .....	5
FCS 4512 Vocational Aspects .....	3
FCS 4630 Foundations and Contemporary Issues .....	3
<b>Total .....</b>	<b>65</b>

### Vocational Certification

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

### Second Endorsement in Family and Consumer Sciences

A second endorsement can apply toward, but does not fulfill state requirements for secondary placement with vocational certification. A second teaching endorsement in family and consumer sciences requires a minimum of 24 credits in four specialization areas: family relations, child growth and development, nutrition, consumer education or resource management. For further information, contact the Department of Family Consumer Sciences.

### GENERAL FAMILY AND CONSUMER SCIENCES

(65 Credits)  
A minimum of 45 credits in family and consumer sciences is required. Twenty credits of business and communication coursework are also required. Dual counting is not allowed between the specialization and the core.  
*[Refer to page 52 for a summary of degree requirements]*  
**Family and consumer sciences core .....** 17-22  
**Business and communication courses .....** 20  
**Specialization courses .....** 23-28

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 3830 Textile Applications (3) \*
- FCS 3870 History of Costume (5)
- FCS 3875 Clothing and Human Behavior (3)
- FCS 4911 Current Issues in Clothing and Textiles (3)

Family and Consumer Sciences

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)
- FCS 4364 Food Preservation, Safety and Technology (5)\*

Human Nutrition

- FCS 1310 Introductory Nutrition (3)
- FCS 3320 Maternal and Child Nutrition (3)\*
- FCS 3340 Human Nutrition (3)\*
- FCS 4330 Advanced Nutrition (4)\*

Family Relations

- FCS 2252 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)
- FCS 3712 Residential Technology (3)\*
- FCS 4730 Interior Design Resources and Materials (4) \*

Professional Development

- FCS 3564 Presentation Skills (4)
- or ENG 3206 Technical Writing (3)
- or ENG 3207 Business Writing (3) ..... 23-28

Total ..... 65

\*By advisement; prerequisites

Flexibility within the general track will allow the student to focus on child and family studies or consumer relations through a student-designed major. A 3.0 GPA is required prior to submitting an application for the student-designed major. Applications must be submitted no later than the first quarter of a student's junior year. All student-designed majors are required to complete a minimum of 45 credits in family and consumer sciences courses, and a minimum of 75 credits in the major.

Food and Nutritional Sciences Major

(85-127 Credits)

The B.S. degree is offered in Food and Nutritional Sciences. All majors must take the family and consumer sciences core and the required courses plus one of the areas of study. Dual counting is not allowed between the specialization and the family and consumer science core.

[Refer to page 52 for a summary of degree requirements]

Family and consumer sciences core ..... 17-22

Required courses

- FCS 2365 Food Science ..... 5
- FCS 3340 Human Nutrition\* ..... 3
- FCS 3365 Food Management and Economics ..... 4
- FCS 3366 Advanced Food Science\* ..... 3
- FCS 3385 Food and Culture ..... 3
- FCS 4330 Advanced Nutrition\* ..... 4
- FCS 4364 Food Preservation, Safety and Technology\* ..... 5
- BIO 2129 Anatomy and Physiology ..... 5
- BIO 2130 Anatomy and Physiology\* ..... 5
- BIO 3351 General Microbiology\* ..... 5

One of the two Chemistry groups

- CHM 1211 General Chemistry (5)
- CHM 1330 General Org/Biochem (5)
- or
- CHM 1211 General Chemistry (5)
- CHM 2371/2372 Organic Chemistry (10)\*
- CHM 4361/4362 Biochemistry (10)\* ..... 10-25

Total ..... 69-89

Select one of the following areas of study:

Food and Nutrition

- FCS 2375 Food Production and Management ..... 5
- FCS 3320 Maternal and Child Nutrition ..... 3
- FCS 3564 Presentation Skills ..... 4
- FCS 4350 Community Nutrition and Education ..... 4

Total ..... 16

Dietetics Specialization

- ACCT 2361 Financial Accounting ..... 5
- BUS 3614 Management Theory and Behavior (5)
- or BUS 3657 Human Resource Management (5) ..... 5
- FCS 2375 Food Production and Management ..... 5
- FCS 4340 Medical Nutrition Therapy \* ..... 5
- FCS 4350 Community Nutrition and Education \* ..... 4
- HSC 4044 Biomedical Tests, Measurements and Statistics (5)
- or MAT 1360 Introduction to Statistics (5) ..... 5
- SOS 4308 The Helping Process ..... 5

Total ..... 34

Sports and Exercise Specialization

- FCS 3320 Maternal and Child Nutrition ..... 3
- FCS 4310 Nutrition in Sports and Exercise \* ..... 3
- FCS 4340 Medical Nutrition Therapy \* ..... 5
- FCS 4350 Community Nutrition and Education \* ..... 4
- PE 3570 Biomechanics \* ..... 5
- PE 3580 Exercise Physiology \* ..... 5
- PE 3590 Sport Injury Management \* ..... 5
- PE 4585 Exercise Science Seminar \* ..... 3
- MAT 1360 Introduction to Statistics ..... 5

Total ..... 38

\*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 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 Didactic Program in Dietetics. A GPA of 2.8 and a C or better in chemistry is required for acceptance into the program.

A graduate of SPU with a dietetic specialization is eligible to apply for a dietetic internship or preprofessional practice program (AP4) at another institution. After the dietetic internship or AP4, the student is "RD Eligible." The 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 clothing or interior design.

Textiles and Clothing Specialization

(70-75 Credits)

[Refer to page 52 for a summary of degree requirements]

- Family and consumer sciences core ..... 17-22
- FCS 1840 Basic Clothing Construction ..... 3
- FCS 2820 Fashion Merchandising ..... 3
- FCS 2830 Textiles for the Consumer ..... 5
- FCS 3830 Textile Applications \* ..... 3
- FCS 3840 Flat Pattern Design \* ..... 3
- FCS 3842 Apparel Production Systems \* ..... 5
- FCS 3870 History of Costume ..... 5
- FCS 3875 Clothing and Human Behavior ..... 3
- FCS 4911 Current Issues in Clothing and Textiles ..... 3
- Electives ..... 20

Total ..... 70-75

\*Prerequisites

Textiles and clothing students must complete a minimum of 20 credits from the following electives to define an area of specialization in fashion buying and merchandising or apparel design: FCS 2110, FCS 3820, FCS 3841, FCS 3843, FCS 4820, FCS 4840, FCS 4841, FCS 4843, FCS 4845, FCS 4850, FCS 4931, FCS 4940.

Students in the textiles and clothing program who have major status and have maintained a satisfactory grade point may select from nine additional specializations if they are accepted into the liaison program with the Fashion Institute of Technology in New York City. Those students who choose the FIT option must 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, advertising design, manufacturing management, fashion design, fashion buying and merchandising, jewelry design, textile/surface design, or textile development and marketing.

Interior Design Specialization

(85-92 credits)

[Refer to page 52 for a summary of degree requirements]

- Family and consumer sciences core ..... 17-22
- FCS 2702 Introduction to Interior Design \* ..... 2
- FCS 2830 Textiles for the Consumer ..... 5
- FCS 3710 Family Housing ..... 4
- FCS 3712 Residential Technology \* ..... 3
- FCS 3830 Textile Applications \* ..... 3
- FCS 3843 Introduction to AutoCAD \* ..... 3
- FCS 4730 Interior Design Resources and Materials \* ..... 4
- FCS 4743 CAD Applications in Interior Design \* ..... 4
- FCS 4940 Internship ..... 3-5
- ACCT 2361 Financial Accounting \* ..... 5
- ART 1102 Drawing Studio (3)
- or ART 1103 Drawing Studio (3) ..... 3

- ART 1202 Design Studio ..... 3
- ART 1204 Design Studio ..... 3
- ART 3217 Advanced Design-Interiors\* ..... 3
- ART 3604 History of Renaissance Art ..... 5
- ART 3605 History of Modern Art (5)

- or ART 3607 History of American Art (5) ..... 5
- ART 4214 Advanced Design II-Residential Interiors \* ..... 3
- ART 4215 Advanced Design II-Commercial Interiors \* ..... 3
- ART 4236 Portfolio ..... 1

Select one of the following:

- BUS 3541 Marketing and Society (5)
- BUS 3544 Advertising (5) \*
- BUS 3545 Sales and Sales Management (5) \*
- BUS 3614 Management Theory and Behavior (5)
- BUS 4417 Business Ethics (5)
- or BUS 3631 Entrepreneurship (5) \* ..... 5
- CSC 1115 Introduction to DOS Applications ..... 3

Select one of the following:

- ENG 3206 Technical Writing (3) \*
- ENG 3207 Business Writing (3) \*
- FCS 3564 Presentation Skills (4) \* ..... 3-4

Total ..... 85-92

\*Prerequisites

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 Interior Design Education Research. Students electing to participate in the FIDM liaison would apply in their junior year and attend during their senior year. Students considering this option should seek advisement early in their academic careers in order to meet the requirements of both FIDM and SPU.

Requirements for the Minors

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

Minor in Family and Consumer Sciences

Select at least one course from each area for a minimum of 30 credits:

1. FCS 1310 Introductory Nutrition (3)
- FCS 2365 Food Science (5)
- FCS 2385 Food and the Consumer (3)
- FCS 3220 Maternal and Child Nutrition (3)
- FCS 3365 Food Management and Economics (4) \*
- FCS 3385 Food and Culture (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)
- FCS 4250 Strategies in Early Childhood (3) \*
4. FCS 3410 Individual and Family Finance (4)
- FCS 3460 Family Resource Management (3)\*
5. FCS 2702 Intro to Interior Design (2)
- FCS 3710 Family Housing (4)
- FCS 3712 Residential Technology (3)\*
- FCS 4730 Interior Design Resources and Materials(4) \*

\* Prerequisites



Minor requirements do not meet educational certification requirements for vocational certification for secondary family and consumer science education teachers grades 9-12.

### Minor in Food and Nutritional Sciences

(30 Credits)

FCS 2365 Food Science .....	5
FCS 3320 Maternal and Child Nutrition .....	3
FCS 3340 Human Nutrition * .....	3
FCS 3385 Food and Culture .....	3
FCS 4330 Advanced Nutrition * .....	4
FCS 4364 Food Preservation, Safety and Technology * .....	5
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) *	
FCS 3365 Food Management and Economics (4) *	
FCS 3366 Advanced Food Science (3) *	
FCS 4310 Nutrition in Sports and Exercise (3) *	
FCS 4340 Medical Nutrition Therapy (5) *	
FCS 4350 Community Nutrition and Education (4) *	
FCS 4930 Family and Consumer Sciences Practicum (1-5) .....	7
<b>Total .....</b>	<b>30</b>

### Minor in Textiles and Clothing

(30 credits)

FCS 1840 Basic Clothing Construction .....	3
FCS 2820 Fashion Merchandising .....	3
FCS 2830 Textiles for the Consumer .....	5
FCS 3870 History of Costume .....	5
FCS 3875 Clothing and Human Behavior .....	3
FCS 4911 Current Issues in Clothing and Textiles .....	3
Select a minimum of 8 credits from the following additional courses to obtain a total of 30 credits:	
FCS 3820 Merchandising Planning and Inventory Control (3)	
FCS 3830 Textile Applications (3) *	
FCS 3840 Flat Pattern Design (3) *	
FCS 3841 Apparel Drafting Applications (3) *	
FCS 3842 Apparel Production Systems (5) *	
FCS 3843 Introduction to CAD (3)	
FCS 4820 Apparel Retail Management (3) *	
FCS 4840 Apparel Design Through Draping (3) *	
FCS 4841 Advanced Problems in Design (5) *	
FCS 4845 Tailored Garment Production (3) *	
FCS 4850 Retail Advertising Systems (5) .....	8
<b>Total .....</b>	<b>30</b>

\* Prerequisites

### Family and Consumer Sciences Courses

**FCS 1050 PROFESSIONAL PERSPECTIVES (2)** Introduces the history, literature and contributions of the family and consumer science profession to help students discover special interests, career potential and set academic goals. 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 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. Course Equivalents: PE 1301 and HSC 1301.

**FCS 1310 INTRODUCTORY NUTRITION (3)** Presents principles of meeting the nutritional needs of human beings for normal growth and development; identification, function, metabolism and food sources of specific nutrients.

**FCS 1710 DESIGN FUNDAMENTALS (5)** Examines the aesthetic 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). An important focus of the class will be the study of creative thought processes and exploration of strategies for enhancing creative abilities.

**FCS 1810 SURVEY OF APPAREL INDUSTRIES (3)** Surveys the designing, production, merchandising, marketing and promotion of apparel goods and examines the interrelationships of each level of the fashion industry. Career options within various areas of the industry are discussed in lecture and explored through shared expertise of guest speakers and field trips to regional fashion industries.

**FCS 1840 BASIC CLOTHING CONSTRUCTION (3)** Presents basic techniques necessary for the construction of simple garments. This is a skills-oriented class designed to develop strong competencies required by the beginning sewer who wishes to become proficient in constructing professional looking apparel.

**FCS 2110 FASHION ILLUSTRATION (3)** Explores the professional uses of fashion illustration, and career opportunities, training and skills required for the professional. Teaches design detail and rendering of an elementary fashion figure through lectures and demonstration. May be repeated for credit 1 time.

**FCS 2252 MARRIAGE AND THE FAMILY (5)** Surveys the family as an institution and a mode for personal living; marital adjustment, parent-child relationships, changing family patterns, and family disorganization and reorganization. Course Equivalent: SOC 2252.

**FCS 2365 FOOD SCIENCE (5)** Examines the basic scientific concepts related to the preparation of food; studies the principles of food selection, storage and preparation based on a knowledge of chemical and physical properties.

**FCS 2375 FOOD PRODUCTION AND MANAGEMENT (5)** Prerequisite: FCS 2365. Surveys the organization, management and cost control of food service operations. Includes laboratory experience in quantity food service facilities in Seattle.

**FCS 2385 FOOD AND THE CONSUMER (3)** Examines consumer behavior in the selection of food as it relates to need, economics and satisfaction. Analyzes personal nutrition in relation to cultural, social, faith, aesthetics and psychological influences on food selection. Identifies the impact of environment, safety, food additives, natural foods, supplements and freedom of choice.

**FCS 2702 INTRODUCTION TO INTERIOR DESIGN (2)** Prerequisite: FCS 1710. Examines elements and principles of design applied to residential and commercial interiors, and provides an overview of the interior design field.

**FCS 2820 FASHION MERCHANDISING (3)** Presents an overview of the background, structure and ever-changing world of fashion buying and merchandising. Students will gain basic knowledge and skills for effective development in visual merchandising, buying, sales, profit development and motivation. Students will be given an opportunity to explore their personal attributes in relation to those required for successful performance in fashion merchandising, essential for anyone pursuing a career in fashion merchandising.

**FCS 2830 TEXTILES FOR THE CONSUMER (5)** Study of textiles from raw materials through manufacturing and finishing of fabrics as related to durability, comfort, care and aesthetics. Survey includes natural and man-made fibers, yarns, fabric constructions, dyes and finishes. Provides laboratory experience in areas such as fiber identification, properties, structures and finishes.

**FCS 3220 CHILD DEVELOPMENT (3)** Analyzes factors that affect development of the child physically, emotionally, socially and intellectually. Identifies the impact of health, the environment and society on the child.

**FCS 3320 MATERNAL AND CHILD NUTRITION (3)** Prior nutrition or anatomy and physiology course recommended. Studies the influence of nutrition on the course and outcome of pregnancy; nutritional needs during lactation, fundamentals of infant nutrition and influence of nutrition on growth, development and behavior of children; toddlers through adolescents.

**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 of each member of the family; nutritional composition of foods in relation to normal and modified diets.

**FCS 3365 FOOD MANAGEMENT AND ECONOMICS (4)** Prerequisites: FCS 1310, 2365 or permission of instructor. Surveys

the effect of nutrition, budget, satisfaction and resources in menu planning for various nutritional needs. Provides laboratory experience in buying and time management.

**FCS 3366 ADVANCED FOOD SCIENCE (3)** Prerequisites: CHM 1330 and FCS 2365. Examines food structure, food chemistry, food measurement, food quality, food research literature and scientific lab write-ups for food research. Develops problem solving techniques.

**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 nutritional, 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 FAMILY FINANCE (4)** Understanding financial planning for individuals and families, including net worth, budgeting, cash management, use of credit, federal income taxes, investment basics, insurance, making wise consumption decisions, consumer redress and ethical behavior in the marketplace.

**FCS 3412 CONSUMER ECONOMICS (3)** Investigates the consumer movement in the United States, including past and present impacts on business and the individual consumer. Relates the rights and responsibilities of the consumer in the marketplace 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 FAMILY RESOURCE MANAGEMENT (3)** Prerequisites: FCS 3220, 3410, 4240 recommended. Emphasis is on a systems approach to resource management within the family ecosystem. Includes strategies for maximizing management influences on individuals and families at varying stages of the lifecycle and socioeconomic levels. Class not open to: Freshmen and Sophomores.

**FCS 3564 PRESENTATION SKILLS (4)** Prerequisites: FCS 1310 or 2365 or 3340, and 3875 or equivalent. Provides opportunity for demonstration theories involved in all areas of family and consumer sciences. Student presentation using the lecture-demonstration method.

**FCS 3710 FAMILY HOUSING (4)** Survey of family housing in relation to needs, processes and alternatives; buying versus renting; policy, economic and other variables; and constraints affecting housing decisions. Attribute: Writing Course.

**FCS 3712 RESIDENTIAL TECHNOLOGY (3)** Prerequisites: ART 1204 and FCS 2702. Survey of equipment and technological systems in a residential environment. Emphasis on consumption and conservation of natural resources and energy sources and human considerations in kitchen planning and appliance design.

**FCS 3714 ADVANCED DESIGN-INTERIORS (3)** Prerequisite: FCS 1204 or permission of instructor. Applies design principles to practical problems in interior design. Course Equivalent: ART 3217. Class not open to: Freshmen and Sophomores.

**FCS 3820 MERCHANDISING PLANNING AND INVENTORY CONTROL (3)** Prerequisite: FCS 2820. Covers specifics of 6-month planning, open-to-buys, inventory turns, stock sales ratio and gross margin. Class not open to: Freshmen and Sophomores.

**FCS 3830 TEXTILE APPLICATIONS (3)** Prerequisites: FCS 2830, 2831. Surveys the textile industry including the domestic market, textile development and testing. Explores the sourcing and purchasing of textiles and the structure and organization of the industry. Independent study on specific textile processes. Class not open to: Freshmen and Sophomores.

**FCS 3840 FLAT PATTERN DESIGN (3)** Prerequisites: FCS 1840 and 3842 or permission of instructor. Studies design principles and flat pattern techniques as they relate to garment design. Uses design elements to create apparel which reflect creativity, individuality and beauty. Sophomores may register with permission of instructor. Class not open to: Freshmen.

**FCS 3841 APPAREL DRAFTING APPLICATIONS (3)** Prerequisites: FCS 3840, 3842. Drafting procedures for developing basic patterns from personal measurements. Developing complex designs such as coats, suits, pants and intricate patterns. Exercises in effectively presenting design ideas visually and verbally. Class not open to: Freshmen.

**FCS 3842 APPAREL PRODUCTION SYSTEMS (5)** Prerequisite: FCS 1840 or permission of instructor. Development of clothing construction techniques and pattern engineering skills employed in the production of apparel which fulfills standards of function, aesthetics, comfort and durability. Provides knowledge

and skills necessary to evaluate the construction of apparel items found in the ready-to-wear industry.

**FCS 3843 INTRODUCTION TO COMPUTER-AIDED DESIGN (CAD) (3)** This course will provide the theory and practical skills essential to computer added design and drafting. Basic CAD commands will be taught through lectures and hands-on training at individual computer terminals using Auto CAD software. Students will be required to perform a series of computerized drawings and to complete a final drawing project. 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 political factors of various periods and their influence 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 AND HUMAN BEHAVIOR (3)** Studies the sociological, psychological, cultural and physical factors which 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 physical, emotional, intellectual and social development of all family members including decision making elements, problem solving techniques and shared responsibilities.

**FCS 4250 STRATEGIES IN EARLY CHILDHOOD (3)** Prerequisites: FCS 3220, 4511 (can be taken concurrently). Provides opportunities to observe and participate with children in a nursery school or kindergarten and to observe the role of the teacher as a participant. Implementation and valuation of models, methods and materials relevant to programs for children in pre-school, day-care centers and kindergarten. 30 hours of laboratory experience required. Class not open to: Freshmen and Sophomores.

**FCS 4310 NUTRITION IN SPORTS AND EXERCISE (3)** 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 special 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 interrelationships, intermediary metabolism and nutrient requirements for health maintenance. Research of recent advances and controversial issues in human nutrition. Attribute: Writing Course.

**FCS 4340 MEDICAL NUTRITION THERAPY (5)** Prerequisites: FCS 2365, 3340, BIO 2130 and CHM 1330 or 4362. This course presents nutrition as a factor in the treatment and prevention of disease and maintenance of health. Strategies for assessing needs, developing treatment care plans, implementing and documenting of plans, evaluating, and quality assurance will be presented for each medical condition. Class not open to: Freshmen and Sophomores.

**FCS 4350 NUTRITION EDUCATION AND COMMUNITY APPLICATIONS (4)** Prerequisites: FCS 3340 or 4310 or permission of instructor. Covers nutrition education and community nutrition programs; multi-dimensional nature of nutrition problems and programs designed to solve them; communicating with people in clinical and community settings; application of learning theory and methods of behavior change. Class not open to: Freshmen and Sophomores.

**FCS 4364 FOOD PRESERVATION, SAFETY AND TECHNOLOGY (5)** Prerequisite: FCS 2365. Explores scientific principles of food preservation, sensory evaluation of food and food safety. New food products, food additives, use of biotechnology, naturally occurring toxicants and food laws and regulations are discussed. Projects in food preservation, product development, nutrient data base application and food evaluation are conducted. Attribute: Writing Course.

**FCS 4511 FAMILY CONSUMER SCIENCE TEACHING METHODS (5)** Prerequisites: FCS 1310, 3220, 3410, 3460, 3564, 4240 and Phase I. Explores methods (scope and sequence) of teaching consumer and family life education concepts. Emphasizes a critical understanding, development and organization of the subject content that promotes quality of life for individuals and families. Attribute: Writing Course.

Fine Arts  
Food and  
Nutritional Sciences

**FCS 4512 VOCATIONAL ASPECTS AND FAMILY CONSUMER SCIENCE EDUCATION (3)** Prerequisite: Phase I. Identifies philosophy and mission of vocational education and explores methods of planning and implementing a program that meets the established standards and criteria for a vocationally approved Family and Consumer Sciences Program. Class not open to: Freshmen and Sophomores.

**FCS 4630 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 consumer science discipline and profession and to each FCS specialization. Investigates public policy issues affecting families. Identifies management abilities for planning and implementing professional goals. Class not open to: Freshmen and Sophomores.

**FCS 4730 INTERIOR DESIGN RESOURCES AND MATERIALS (4)** Prerequisites: ART 1204, 2702, and 2830. Studies resources and materials used in interiors and their functional and aesthetic relationship to interior design. Class not open to: Freshmen and Sophomores.

**FCS 4743 CAD APPLICATIONS IN INTERIOR DESIGN (4-8)** Registration Approval: Instructor. Prerequisites: ART 3217, CSC 1115, ACCT 2361, FCS 2702. Application of advanced techniques (3-D) of computer-aided design and drafting to interior design 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: Undergraduate level and Graduate level.

**FCS 4820 APPAREL RETAIL MANAGEMENT (3)** Prerequisite: FCS 2820. Includes hiring, scheduling, selling costs, department presentation and special events. Class not open to: Freshmen and Sophomores.

**FCS 4840 APPAREL DESIGN THROUGH DRAPING (3)** Prerequisites: FCS 3840 and 3842 or permission of instructor. Studies apparel design through the use of draping techniques. Presents principles of design in class and applies them to produce attractive and current apparel designs. Investigates current fashion designers with an analysis of their major contributions to the present fashion picture. Class not open to: Freshmen and Sophomores.

**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 individuals, 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: Undergraduate level and Graduate level.

**FCS 4842 CHILDREN'S WEAR DESIGN (3)** Explores design considerations in children's apparel by evaluating comfort, care aesthetic and durability factors. Industry professionals will contribute toward the student's knowledge base. Students will design and partially construct a children's wear line or conduct a market analysis. May be repeated for credit 2 times.

**FCS 4843 CAD APPLICATIONS IN APPAREL DESIGN (3-6)** Registration Approval: Instructor. Prerequisites: FCS 3840 or FCS 4840 or FCS 4841. Students in apparel design and merchandising will learn to use Auto 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 computer-aided skills required by the apparel industry. May be repeated for credit up to 6 credits. Class not open to: Freshmen and Sophomores. Class open to: Undergraduate level and Graduate level.

**FCS 4845 TAILORED GARMENT PRODUCTION (3)** Prerequisite: FCS 2840 or permission of instructor. Provides knowledge and skills necessary to produce tailored garments of the quality found in the ready-to-wear industry, including altering and fitting of coats and jackets. Analyzes various time-saving tailoring techniques 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 activities; visual merchandising or display and special events that are used to promote the sale of products, services or ideas. Class not open to: Freshmen and Sophomores.

**FCS 4900 INDEPENDENT STUDY (1-3)** Registration Approval: Independent Study Agreement. Prerequisites: Senior

standing and a "B" average in Family and Consumer Science studies. May be repeated for credit up to 6 credits. Class not open to: Freshmen, Sophomores and Juniors.

**FCS 4911 CURRENT ISSUES IN CLOTHING AND TEXTILES (3)** Study of factors affecting production, distribution and consumption of textiles and clothing in American and international countries. Attribute: Writing Course. Class not open to: Freshmen and Sophomores.

**FCS 4930 FAMILY AND CONSUMER SCIENCES 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 arrangements with the instructor required. No more than 6 credits may count for major. May be repeated for credit up to 6 credits. Class not open to: Freshmen and Sophomores.

**FCS 4931 PRACTICUM IN DESIGN PRODUCTION (1-5)** Registration Approval: Instructor. Practical application of coordination, production and promotion in the Designer's Showcase. May be repeated for credit up to 5 credits.

**FCS 4940 INTERNSHIP (3-10)** Registration Approval: Intern Learning Contract Req. Prerequisites: "B" average; junior standing. Provides opportunity for observation, orientation and participation in employment. Work experience planned in advance with the instructor. May be repeated for credit up to 10 credits. Class not open to: Freshmen and Sophomores.

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 life; sharpens perceptive responses to art works. Corequisite: FPA 1111. Class not open to: Juniors and Seniors.

**FPA 1111 SEATTLE ART SCENE (2)** Encourages participation and involvement in the arts; explores the rich tradition in Seattle arts. Includes attendance at galleries, films, concerts, plays, other 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 open to: Juniors and Seniors.

**FPA 3101 ARTS IN AMERICAN CULTURE (3)** Explores how the arts help us understand our private and public culture; emphasizes how art effects the development of individual and collective identity; explores major art works in the Western and American tradition; develops skills in writing about art. Corequisite: FPA 3111. Class not open to: Freshmen.

**FPA 3111 SEATTLE ART SCENE (2)** Explores the rich tradition in Seattle arts scene. Includes attendance at galleries, films, concerts, plays, and other special events in the Seattle area. Students will develop individual WEB sites as part of course work. Extra fees are required for events; collected in class. Concurrent enrollment in FPA 3101 is recommended, but not required. Class not open to: Freshmen and Sophomores.

**FPA 4100 THE ARTS AND RELIGIOUS EXPERIENCE (5)** Shows the interdependence of the arts and worship, dealing with such subjects as ritual, liturgy, architecture, the plastic, dramatic, and musical arts. Artistic symbolism is studied, with an opportunity to plan and implement a group worship experience using the arts as an integral part of the course. 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 from three disciplines related to the student's degree objectives are required for the major. A statement of rationale and a major contract are required and must be submitted to Student Academic Services for review by academic departments. At least 20 credits, but not over 35 credits, will be applied in each discipline. A minimum of 35 credits must be upper-division. No grade below a C- will apply to the major. For more information contact Joan Norman in Student Academic Services at (206) 281-2542.

General Studies Courses

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.

**GS 1001 SUCCESS SKILLS FOR COLLEGE (2)** Class is designed to assist students in developing effective study skills, time management strategies and positive self confidence academically and personally. Special emphasis is placed on maximizing note-taking, textbook reading and exam performance skills. Also, students learn how to understand and utilize their learning style and to communicate in written and oral expression.

**GS 1002 CRITICAL THINKING FOR AN INTERDEPENDENT SOCIETY (2)** Class emphasizes principles and practices for conducting and presenting research. Students examine the skills and attitudes needed to face the technical and cultural shifts anticipated in the 21st century.

**GS 1005 VALUES, FAITH AND TRADITIONS IN WESTERN CULTURE (1)** Registration Approval: Instructor. Offered each quarter for international students only to 1) satisfy the chapel credit requirement, and 2) provide opportunity for discussion and exploration of American values, social issues and the Christian faith. Extra fee. May be repeated for credit up to 5 credits.

**GS 2001 CAREER EXPLORATION AND PLANNING (1)** Assists students in exploring career options and developing a career plan. Activities and course assignments will be interactive and include self and career exploration, identification of career options, informational interviews, identifying career mentors, and self-presentation skills. May be repeated for credit 1 time.

**GS 2101 BASIC SKILLS IN LEARNING RESOURCES (2)** Teaches the basic skills of library research and explores subject specialized approaches, including computer searching of bibliographic databases and audio-visual equipment operation.

**GS 2306 TUTORING (1)** Registration Approval: Instructor. May be repeated for credit 2 times.

**GS 2400 STUDENT LEADERSHIP/SERVICE I (3)** A pre-service course offered winter quarter. It is highly recommended for all students applying for or seeking leadership responsibilities in clubs, organizations, campus ministries or ASSP, and required for peer advisor positions. The course explores the fundamentals of leadership including leadership and communication skills, leadership theory, developmental theory, and principles of community development and service.

**GS 2931 STUDENT LEADERSHIP PRACTICUM (1-3)** By arrangement with instructor. An opportunity for students to integrate leadership experiences through reading and reflection projects with support and supervision from a student life professional. Class not open to: Freshmen.

**GS 3419 STUDENT PERSONNEL DEVELOPMENT: PEER ADVISOR (PA) (2)** Registration Approval: Director of Residence Life. Required for all Peer Advisors. This autumn course offers joint sessions where campus leaders in GS 2419, 3420, and 3421 experience advanced leadership training as well as small group sessions for instruction specific to their leadership position. Course content will include practical information and skills to address job related issues such as peer counseling, conflict mediation, crisis intervention, program management, transitions and other important challenges facing university students.

**GS 3420 STUDENT LEADERSHIP AND SERVICE II CO (2)** Strongly recommended for all officers and leaders in student government, campus clubs, and organizations. This autumn quarter 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 responsibility for initiating effective action; 2) responding to conflicting and challenging situations in constructive ways; and 3) actively participating in a community which fosters accountability.

**GS 3421 STUDENT LEADERSHIP AND SERVICE II CM (2)** Registration Approval: Instructor. Required for all Campus Ministry leadership. This autumn 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. Areas of focus include small group dynamics, lifestyle evangelism, faith development theory, personal reflection models, and program planning.

**GS 3932 STUDENT ADMINISTRATION PRACTICUM (1-5)** Registration Approval: Instructor. An opportunity for upper level students, individually or in a seminar format, to integrate leadership experiences through reading, reflection, projects and papers in collaboration with a Campus Life professional. May be repeated for credit. Participants will analyse accomplishments and effectiveness. May be repeated for credit up to 5 credits.

**GS 4900 INDEPENDENT STUDY (2-5)** Registration Approval: Independent Study Agreement. May be repeated for credit up to 10 credits. Class not open to: Freshmen and Sophomores.

Geopolitics

**Kathleen Braden, Contact Person**  
SPU offers no baccalaureate degree specifically in geography, but studies in geography may be combined with political science for a geopolitics minor. Geography, along with history, is a critical service component for students 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 1110 World Regional Geography .....	5
GEO/POL 3170 Geopolitics .....	5
POL 2330 International Relations .....	5
Select one course from the following:	
POL 2320 Comparative Political Systems (5)	
POL 3320 Political and Economic Development of Nations (5)	
GEO 3500 Geography of Natural Resources (5) .....	5
Select one course from the following:	
POL 4642 Theories of the Political System (5)	
POL 4643 Methods of Political Analysis (5) .....	5
Select one course from the following:	
GEO 4920 Directed Readings in Geography (5)	
GEO or POL 4940 Internship (5)	
Advisor-approved upper-division course in Political Science (5) .....	5
<b>Total .....</b>	<b>30</b>

French  
General Studies  
Geopolitics



**Geography Courses**

**GEO 1110 WORLD REGIONAL GEOGRAPHY (5)** Provides familiarity with character of major world regions. Emphasizes variations in levels of economic development and resource distribution among nations, and appreciation for diversity of world cultures.

**GEO 2207 ECONOMIC GEOGRAPHY (5)** Surveys the changing world production and distribution systems, particularly principles and conditions for spatial interaction. Also explored is 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. Course Equivalent: ECN 2207.

**GEO 3170 GEOPOLITICS (5)** Current world events are explored, from a variety of social science disciplines (political science, history, economics and political geography). Topics vary, but always include an examination of Christian views on geopolitical conflicts and the role of international law in solving disputes. Course Equivalent: POL 3170. Class not open to: Freshmen.

**GEO 3305 URBAN AND REGIONAL PLANNING (5)** Explores the legal and historical aspects of American urban and regional planning from a sociological and geographic perspective. Constitution-based planning themes are examined. Both the practicalities of planning and various utopian plans are presented. Case law is used to demonstrate current planning controversies. Course Equivalent: POL 3305. Attribute: Writing Course.

**GEO 3500 GEOGRAPHY OF NATURAL RESOURCES (5)** Examines geographic distribution and economic valuation of the earth's resources both within American public policy choices and at the international level. Compares notions of wise use, consumption, sustainability, and stewardship in relation to Christian tradition. Attribute: Writing Course. Class not open to: Freshmen.

**GEO 3707 URBAN GEOGRAPHY (5)** Examines principles of ordering urban spaces. Perception and spiritual life of cities as "place;" internal aesthetic and social structure of cities; systems of cities with focus on American urban life; and growth of international cities, particularly in developing states. Attribute: Writing Course.

**GEO 4910 SEMINAR IN URBAN ISSUES (5)** Provides a capstone course focusing on contemporary urban issues and synthesis of interdisciplinary perspectives, including presentation of a research project. Attribute: Writing Course.

**GEO 4911 ADVANCED SEMINAR (3-5)** Prerequisite: Upperclass standing. Seminars studying theoretical and/or practical issues in politics, government and political science. See current Time Schedule for topics. May be repeated for credit up to 25 credits. Course Equivalent: POL 4911. Attribute: Writing Course. Class not open to: Freshmen.

**GEO 4920 DIRECTED READINGS (1-5)** Registration Approval: Independent Study Agreement. May be repeated for credit up to 30 credits.

**GEO 4940 INTERNSHIP (2-10)** Registration Approval: Intern Learning Contract Req. May be repeated for credit up to 30 credits.

**GEO 4970 RESEARCH IN GEOGRAPHY (2-5)** Registration Approval: Instructor. Prerequisite: 10 credit hours in geography. May be repeated for credit up to 25 credits.

**German**

See Languages section.

**Graduate Studies**

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

**DEGREES OFFERED****Master of Arts**

- Teaching (M.A.)
- Teaching English to Speakers of Other Languages (T.E.S.O.L.)

**Master of Business Administration (M.B.A.)****Master of Education (M.Ed.)**

- Curriculum and Instruction
- Education Leadership
- School Counseling

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

- Marriage and Family Therapy
- Nursing Leadership
- Information Systems Management

**Doctor of Education (Ed.D.)****Doctor of Clinical Family Psychology (Psy.D.)**

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

**Health Sciences,  
School of**

**Annalee Oakes, Dean, Emily Hitchens, Associate Dean; Donna Allis, Ruby Englund, Mary Fry, Patricia Giurgevich, Jennifer Graves, Barbara Innes, Lucille Kelley, Vicki McClurg, Melanie Plaza-Bunselmeyer, Marilyn Poysky, Lilyan Snow, Kathleen Stetz, Cathryn Washington, Linda Westbrook, Martha Worcester**

*"We are a community of Christian scholars, servants, and leaders. We meet the challenges of learning and health care in a diverse and changing world through a commitment to collaboration, creativity, leadership, and excellence in nursing education and practice."*

*School of Health Sciences Mission Statement*

The purpose of the School of Health Sciences is to prepare graduates to meet the health needs of a community through promoting wellness and providing illness care for its members.

The faculty of the School of Health Sciences believes that, as God's creation, each person is unique. Yet every individual shares the characteristics and needs of all humankind: love, esteem, equilibrium, and reconciliation to God.

The holistic person is an integrated being with physiological, psychological, social, cultural, and spiritual components, all of which are affected by developmental 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 health care. As a result of the skill, support, and guidance of experienced health care professionals, people can experience growth, healing, and wholeness.

The School of Health Sciences offers a major in nursing and advising for some pre-professional programs. Students in the pre-professional programs are prepared to transfer into professional programs in other schools. (See pre-professional health programs section of the Catalog.)

The School also offers a Master of Science in Nursing, 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) 281-2767; e-mail: msninfo@spu.edu; or find us on the WWW: <http://www.spu.edu/depts/hsc/msn.html> paul@spu.edu/.

**Nursing**

The Bachelor of Science in nursing prepares graduates to assume first-level practice and leadership roles in a variety of settings, in keeping with the University model of the Christian scholar-servant. The aim is to foster the development of self-understanding, caring, collaboration, ethical thought and action, intellectual curiosity, critical thinking and judgment, as well as the integration of Christian faith with scientific knowledge and clinical expertise.

Curriculum is offered for those with no previous college preparation, those with advanced standing, and registered nurses from associate degree or diploma nursing programs.

The nursing program is fully accredited by the State of Washington and by the National League for Nursing. Upon 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 Commission, 350 Hudson Street, New York, NY 10014, 1-800-669-1656.

**Curricular Objectives**

Upon completion of the nursing curriculum at Seattle Pacific University, the graduate will be able to meet these 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, contexts, conceptualizations, methods, and criteria.

**Therapeutic Nursing Interventions:** Students and graduates demonstrate excellence in nursing practice through nursing strategies aimed at promoting, maintaining, 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 conditions.

**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, and Service:** Students and graduates demonstrate an integration of scholarship, leadership, and service through 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 leadership, accountability, client advocacy, ethical decision-making, research utilization, and social and political awareness.

The nursing program also offers transcultural experiences for students, both on-campus and abroad. Nursing students may opt to take Nursing Care of Special Populations and practicum in Costa Rica or Taiwan during their senior year. In addition, the School of Health Sciences 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 sharing of learning.

**Health Sciences,  
School of**

*"With a cutting-edge curriculum that emphasizes holistic care as well as critical thinking, our nursing students emerge as strong, influential providers. Not only does this make our graduates desirable to a variety of employers, it benefits consumers of health care as well."*

**Jennifer Graves**  
*School of Health Sciences*



Admission to the Major

Students interested in professional nursing must apply through the Office of Admissions. High school preparation for nursing includes four years in the language arts, two years minimum of college preparatory mathematics, and two years of laboratory science, one of which should be in chemistry. Those accepted into the University who indicate an interest in nursing are assigned a nursing faculty advisor.

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 and the deadline for applications is April 1. Calls after this date are taken on a space available basis. The Academic and Student Affairs Committee evaluates each applicant on the basis of scholarship and personal qualifications judged necessary for nursing. At least a 2.65 GPA in natural and social sciences is expected with no prerequisite course (inorganic and organic chemistry, anatomy and physiology, general psychology) earning less than a "C" grade. Entering nursing students are expected to have basic computer literacy including word processing. Students will be asked to obtain an e-mail address through SPU, and participate in computer-assisted instruction (CAI) 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 outlined in the Seattle Pacific University Nursing Handbook. Copies of this handbook are available in the School of Health 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.

Registered nurses from diploma and associate degree programs 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 apply 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 evaluation is done at that time and program planning is started. National 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 the following exceptions:

- 1. Nursing application holding fee (\$100).
- 2. Clinical practicum fee (\$65 per credit hour).
- 3. Uniforms purchased in the sophomore year (approximately \$125).
- 4. Transportation costs between the University and clinical facilities vary from quarter to quarter.
- 5. For the community health nursing assignment, the student must have a current driver's license and

- should plan to have access to a car.
- 6. National League for Nursing Diagnostic Readiness Exam (approximately \$35).
- 7. A physical examination is required prior to beginning clinical experience and recommended prior to graduation.
- 8. Certain immunizations and diagnostic tests for communicable diseases are required prior to beginning practicum courses.

Scholarships and Loans

Students in the nursing major needing financial assistance should apply to the SPU Financial Aid Office. In addition to general aid and work/study programs, nursing students may want to apply to other government-sponsored programs, e.g., the Veterans Administration, armed services, and other target programs.

Nursing students are encouraged to apply for scholarship funds from local medical societies, medical auxiliaries, hospital organizations and service organizations in local communities.

The Nurses' Alumnae Association administers small grants made possible through gifts to the Association. Scholarships from School of Health Sciences' endowments are available through the generosity of foundations and individuals.

Requirements for the Nursing Major  
(180 credits)

B.S. CURRICULUM

The following program outline reflects the new curriculum design that was effective autumn 1995 for sophomores entering the nursing program. The basic program is four years in length with seven quarters of clinical nursing (75 credits). The coursework requires 180 credits for graduation.

First Year

*BIO 2129, 2130 Human Anatomy and Physiology .....	10
*CHM 1211 General Chemistry .....	5
*CHM 1330 Organic and Biological Chemistry .....	5
*PSY 1180 General Psychology .....	5
General Education/Foundations .....	20

\* These courses are prerequisites to entering second year.

Second Year

NUR 2940, 2941 Basic Nursing .....	10
NUR 2942, 2943 Nursing of Adults I .....	10
NUR 2944, 2945 Nursing of Adults II .....	10
BIO 3351 General Microbiology .....	5
FCS 3340 Nutrition .....	3
PSY 2470 Life Span Developmental Psychology .....	5
General Education/Electives/Foundations .....	2

Third Year

NUR 3942, 3943 Family and Community Nursing I .....	10
NUR 3944, 3945 Family and Community Nursing II .....	10
NUR 4940 Care of Special Populations .....	6
NUR 4941 Care of Special Populations Practicum .....	4
HSC 4044 or MAT 1360 or BUS 1360 .....	5
General Education/Electives/Foundations .....	10

Fourth Year

NUR 4942 Professional Nursing Leadership .....	4
NUR 4943 Professional Nursing Leadership Practicum .....	5
NUR 4970 Research .....	3
NUR xxxx Nursing elective .....	3
General Education/Electives/Foundations .....	30
<b>Total .....</b>	<b>180</b>

The typical part-time, five-quarter program for the Registered Nurse student with completed prerequisite sciences and junior standing (minimum of 90 credits) on admission, including 40 credits through advanced placement examination is as follows:

First Year

NUR 3050 .....	4
NUR 3944 .....	6
General Education and Foundations courses* .....	xx
	<b>10+xx</b>

Second Year

NUR 4940,4941,4942,4943,4970 .....	22
Nursing electives .....	3
General Education or general electives .....	xx
	<b>25+xx</b>

\*Varies depending on the number of credits accepted for transfer at time of admission. Must total 180 for graduation. A full-time program is also available.

Health Sciences 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 3035 HUMAN SEXUALITY (3)** Introduces basic aspects of human sexuality: biologically how the reproductive system works, psychologically how males and females view their sexuality, and sociologically how sexual values and behavior affect the society as a whole. Christian perspectives will be related to the development of sexual values. Class open to: Juniors and Seniors.

**HSC 3304 PERSPECTIVES ON LOSS (3)** Provides a cultural, social, developmental, and self-exploration of issues, beliefs, and attitudes about loss, death and dying. Presents an interdisciplinary approach for in-depth understanding using in-class practice of communication skills and interviewing techniques for working with the sensitive issues involved with loss, death and dying.

**HSC 3395 HEALTH CARE DELIVERY SYSTEMS (3)** Examines perspectives on differing health care philosophies and practices 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 4044 BIOMEDICAL TESTS, MEASUREMENTS AND STATISTICS (5)** Promotes the conceptual understanding of the basic statistical procedures used in research. Helps participants achieve those computational skills needed to carry out statistical procedures in practical settings and the use of the computer in data analysis.

**HSC 4391 PATHOPHYSIOLOGY (3)** Registration Approval: Instructor. Prerequisites: BIO 2129, 2130. Selected topics of human pathophysiology are investigated from the perspective of how various stressors and adaptive responses affect levels of wellness. These include normal as well as aberrant cell genesis; protective, resistive and adaptive mechanisms; phases of pathologic changes; related clinical findings; and the influence of current interventions.

**HSC 4477 EFFECTIVE INTERPERSONAL DYNAMICS (3)** Based on theories of social style and interpersonal interaction, this course is designed to provide one framework to explain interpersonal interaction. Applies these theories to action modes in two person dyads and groups. Extra fee at first class.

**HSC 4900 INDEPENDENT STUDY (1-5)** Registration Approval: Independent Study Agreement. May be repeated for credit up to 10 credits.

**HSC 4950 SPECIAL TOPICS IN HEALTH CARE (1-5)** Focuses on emerging and specialized topics in health care. May be repeated for credit up to 10 credits.

**HSC 4952 ADULT DEVELOPMENT AND AGING (3)** This course addresses adult development in the second half of life. Current theories of aging; psychological, social, and spiritual development of individuals and families are covered. Responses of

older adults to cultural, environmental, and selected health issues as development occurs are included.

Nursing Courses

**NUR 2050 CONCEPTUAL FRAMEWORK FOR TRANSFER STUDENTS (1-5)** Introduces the philosophy and conceptual framework of the nursing curriculum. Examines application of the SPU Nursing Systems Model to the nursing process. Explores ethical issues and spiritual care related to health care. Specific topics in health and illness care are covered as needed. May be repeated for credit up to 5 credits.

**NUR 2940 BASIC NURSING (6)** Prerequisites: PSY 1180, CHM 1211, 2330, BIO 2129 and 2130. Introduces nursing, covering basic nursing concepts and an introduction to the nursing process. The nursing process focus is on data collection and nursing diagnosis organized according to functional patterns. Corequisites: NUR 2941, PSY 2470. Class open to: Nursing majors.

**NUR 2941 BASIC NURSING PRACTICUM (4)** Provides experiences in application of the nursing process. Secondary levels of care are introduced in a long term care setting suitable for application in the nursing process. Extra fee. Corequisite: NUR 2940. Class open to: Nursing majors.

**NUR 2942 NURSING OF ADULTS I (6)** Prerequisite: NUR 2940. Explores holistic nursing of adult clients. Incorporates more advanced concepts of health protection and health promotion for clients, their families and communities. Corequisite: NUR 2943. Class open to: Nursing majors.

**NUR 2943 NURSING OF ADULTS I PRACTICUM (4)** Extends the practice from the Basic Nursing Practicum to more complex health care situations. Extra fee. Corequisite: NUR 2942. Class open to: Nursing majors.

**NUR 2944 NURSING OF ADULTS II (6)** Prerequisite: NUR 2942. Continuing study of stressor and resource effects on the mental and physical health of the adult client with application of principles to more complex multi-system disorders and nursing process in the context of family and community. Corequisite: NUR 2945. Class open to: Nursing majors.

**NUR 2945 NURSING OF ADULTS II PRACTICUM (4)** Prerequisites: NUR 2942, 2943, PSY 2470, and FCS 3340. Provides opportunity for application of nursing theory, such as the SPU Nursing Systems Model through experience in clinical seminars, skill laboratory and care of adults in acute care settings. Extra Fee. Corequisite: NUR 2944. Class open to: Nursing majors.

**NUR 3050 PROFESSIONAL NURSING CONCEPTS: RN (3)** Designed specifically for Registered Nurses who are beginning a program of study for the baccalaureate degree in nursing. It is the first required course in the curriculum and is a prerequisite to all other coursework in the major. The course encourages self-directed study based on adult learner concepts and facilitates adjustment to the education-human environment system experience in general and to the student role at SPU in particular. Professional nursing is the focus of the course, extending from historical and philosophical concepts to contemporary trends, and future possibilities for the professional nursing role. Attribute: Writing Course.

**NUR 3936 NURSING ASSESSMENT: RN THEORY (2)** Prerequisite: NUR 3050. Students learn holistic nursing assessment. The SPU Nursing Systems Model is used to gather and analyze data. Nursing diagnoses are generated. Corequisite: NUR 3939.

**NUR 3939 LIFE SPAN NURSING: RN PRACTICUM (3)** Prerequisite: NUR 3936. This course is application of holistic assessment theory learned in NUR 3936. Students conduct holistic nursing assessment in a variety of settings with clients across the lifespan, from multi-cultural backgrounds.

**NUR 3942 FAMILY AND COMMUNITY NURSING I (6)** Prerequisites: NUR 2944, 2945, FCS 3340, PSY 2470. Focuses on family health care issues during the child-bearing and child-rearing years, integrating community health nursing and mental health nursing concepts. Introduces principles of nursing case management. Corequisite: NUR 3943.

**NUR 3943 FAMILY AND COMMUNITY NURSING I PRACTICUM (4)** Prerequisites: NUR 2944, 2945, FCS 3340, PSY 2470. Provides opportunity for application of theory in a variety of community settings that provide health care to child-bearing and child-rearing families. Extra fee. Corequisite: NUR 3942.

**NUR 3944 FAMILY AND COMMUNITY NURSING II (6)** Prerequisites: NUR 3942, 3943, FCS 3340, PSY 2470. Continuing study of family health care, including human sexuality and health-illness



issues, with community nursing emphasis and application of family mental health nursing principles. Corequisite: NUR 3945.

**NUR 3945 FAMILY AND COMMUNITY NURSING II PRACTICUM (4)** Prerequisites: NUR 2944, 2945, PSY 2470, FCS 3340. Provides opportunity for application of theory and research findings in the care of families, in a variety of community and mental health settings. Extra Fee. Corequisite: NUR 3944.

**NUR 4920 CARE OF SPECIAL POPULATIONS-THEORY (6)** Prerequisites: NUR 2944, 3942, and 3944. Focuses on the application 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, refugees, and groups of people with similar health care issues. Attribute: Writing Course. Class open to: Nursing majors. Class open to: Seniors.

**NUR 4921 CARE OF SPECIAL POPULATIONS-PRACTICUM (4)** Prerequisite: NUR 4920 or to be taken concurrent. An opportunity to synthesize nursing practice with a focus on a selected special population, and in a variety of clinical settings. Extra Fee. Class open to: Nursing majors. Class open to: Seniors.

**NUR 4942 PROFESSIONAL NURSING LEADERSHIP (4)** Prerequisites: NUR 3942, 3943, 4920, and 4921. Theoretical investigation of leadership, organization, and professional development concepts and their application to the professional nursing role on the health care team, the delivery of health care, and the life-long professional development of the nurse. Corequisite: NUR 4943. Attribute: 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 NUR 3942, 3943, 4920, and 4921. Provides opportunity for professional 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 not open to: Nursing majors. Class open to: Seniors.

**NUR 4950 SELECTED TOPICS (1-5)** Focuses on emerging and specialized topics in nursing. May be repeated for credit up to 10 credits.

**NUR 4970 RESEARCH (3)** Prerequisites: HSC 4044 or BUS 1360 or MAT 1360 or a course in statistics. Examines the research process, including critique of in-process and completed research. Gives opportunity for a systematic investigation of a health-related topic of student's choice demonstrating knowledge of research methodology.

# History

Donald Holsinger, Chair; Alberto Ferreiro, William Woodward

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 teaches about social identity and responsibility. And just as one's memory changes and matures, so the collective understanding of the past changes as new evidence is discovered and new perspectives are developed.

Hence college-level history is much more a detective hunt than a memorization game. The task is to seek the facts, weigh interpretations, and draw conclusions. The study of history requires wide reading, deep thinking, and clear communication.

To study history at a university that is distinctly Christian adds another important dimension. Students encounter the impact Christianity has had in both Western Civilization and the global arena. More broadly, students are challenged to look at history from a Christian point of view. How does Christian faith aid in understanding the dynamic sweep of human events, the varieties of human cultures, the dimensions of human triumphs and tragedies, and the influence of heritage on one's own identity?

These questions help shape the history curriculum at

Seattle Pacific University, which is designed to serve the non-specialist as well as the history major. To study history here, then, is to develop both useful skills and essential insights.

The major in history, especially after advanced study, can lead to careers in teaching and writing history, in museums and archival work, and in a wide variety of other professions ranging from journalism, law, and government to the pastorate and missions. Even for students with uncertain career goals, history offers a fruitful field of specialization within the general study of the liberal arts.

Formal study of history at SPU follows the familiar pattern of subdivision by region. The major program begins by exploring the roots of Western civilization and then traces 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 provides illuminating contrast. The deeper thrust of the program remains integrative, emphasizing humanity's common heritage and shared future, as well as an ongoing dialogue between past and present.

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 or European studies, is encouraged. Internships and other off-campus study opportunities add practical skills and rich experiences of life-long value. Consider spending a quarter or semester in Europe, Costa Rica, or Cairo, or a summer session in Spain. Or study public policy for a term in the American Studies Program in Washington, D.C. Consult the 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)  
[Refer to page 52 for a summary of degree requirements]

### Western Civilization

HIS 1201 Medieval Europe ..... 5  
HIS 1202 Modern Europe (5)  
or HIS 2452 History of the Modern Global System (5) ..... 5  
HIS 2100 Ancient Civilization (5)  
or HIS 3170 Classical Civilization (5) ..... 5

### American History

HIS 2502 The United States to 1876 ..... 5  
HIS 2503 The United States Since 1876 ..... 5  
or advisor-approved upper-division substitution

### Third World

At least one course in the history of a Third World region (i.e., Africa, Asia, Latin America, Islamic Middle East or Comparative Third World) ..... 5

### Historiography and Historical Method

HIS 3850 History of Historical Writing ..... 3  
Electives\* ..... 17  
Total ..... 50

*\*Must reflect a balance among European, U.S. and non-Western studies. May include, with advisor's approval, one course in a related field. Should include at least one course that requires a solid historical research paper. Students are encouraged to propose some independent activity (HIS 4900 series).*

Students majoring in history should work closely with their advisor in selecting supporting courses tailored to their career goals. Students planning graduate study should acquire a reading mastery of a foreign language. Students seeking teaching credentials must include HIS 3600 History of the Pacific Northwest in their program; they should consult with the School of Education.

## The History Minor

A minor in history is available for those wishing to enrich their college experience by examining the unfolding story of human cultures through time, as well as for education students seeking an additional credential.

## Requirements for the General History Minor

(30 Credits; 15 upper-division)  
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  
Electives\* ..... 15  
Total ..... 30  
\*HIS 3850 History of Historical Writing is recommended

## Requirements for the Teaching 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  
HIS 2503 The United States Since 1876 ..... 5  
HIS 3600 History of the Pacific Northwest ..... 5  
One course in the history of a Third World Region ..... 5  
Electives ..... 5  
Total\* ..... 30

## 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 CIVILIZATION (5)** Explores history, literature and society of classical Greece and Rome, stressing contributions to modern Western civilization. Course Equivalent: CLA 3170.

### EUROPEAN HISTORY

**HIS 1201 MEDIEVAL EUROPE (5)** Surveys the period from the fall of the Roman Empire to about 1500. Emphasizes the role of Christianity and the shaping of institutions, techniques and values which distinguish our Western culture from others, as well as the unique features of medieval culture and their relevance today. This course may also be offered via distance learning.

**HIS 1202 MODERN EUROPE (5)** Surveys European history from 1500 to the present. Includes Reformation and Counter-Reformation; political, economic and cultural transformations; capitalist and non-capitalist responses to industrialization; international power struggles; and 20th century totalitarian regimes of Fascism and Communism.

**HIS 3320 HISTORY OF ENGLAND (5)** A survey of Great Britain from the Norman conquest, with primary emphasis on the period from the Tudor dynasty to the present. Class not open to: Freshmen.

**HIS 3331 HISTORY OF SPAIN AND PORTUGAL (5)** Traces the origins of Spain and Portugal in the High Middle Ages; emphasizes the Golden Age, the overseas empires and the 20th century. Class not open to: Freshmen.

**HIS 3335 IBERIAN CIVILIZATION AND CULTURE (5)** Registration Approval: Travel Studies Form. Introduces history and culture of the Iberian Peninsula, from the Roman era to the present, through a month of summer study at the University of Salamanca, Spain. (For post-baccalaureate students, can be taken as HIS 5335.) Class not open to: Freshmen.

**HIS 3345 MODERN RUSSIA (5)** Surveys Russian social, cultural and political history with primary attention to the tsarist, revolutionary and Soviet eras, examining their legacies for current development and change. Course Equivalent: POL 3345. Attribute: Writing Course. Class not open to: Freshmen.

**HIS 3395 EUROPEAN INTELLECTUAL HISTORY: FROM ANSELM TO MARX (5)** Surveys major thinkers and intellectual movements from scholasticism to Marxism, with emphasis on the historical context. Includes directed readings in primary sources. Class not open to: Freshmen.

## COMPARATIVE AND GLOBAL HISTORY

**HIS 2452 HISTORY OF THE MODERN GLOBAL SYSTEM (5)** Studies the transformation of world regional civilizations into a global system under the impact of Western expansion from 1500 to the present. Begins with a description of regional civilizations prior to the "great discoveries;" traces cultural interaction, economic change and political consolidation through the eras of mercantilist expansion, industrial and political revolution, global imperialism, and 20th century developments.

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

**HIS 3402 REFORMATION AND MODERN CHRISTIANITY (5)** A survey of Christianity from the reformations of the 16th century to recent times. Focuses on Luther, Calvin, and the Anabaptists; Anglicans and Puritans; the Council of Trent; 17th century orthodoxy, rationalism and pietism; the beginnings of Christianity in America; and the Great Awakening and Wesleyan revival of the 18th century. Course Equivalent: REL 3602. Class not open to: Freshmen.

**HIS 3405 TOPICS IN HISTORY OF CHRISTIANITY (3-5)** Specific focus may vary. Current topic: "Western Spirituality: Heretics, Mystics, and Monks" (3). Explores various spiritual movements from the Early Church to the 16th century, with special attention to their contributions to mainstream Catholic and Protestant traditions. May be repeated for credit up to 10 credits. Course Equivalent: REL 3605. Class not open to: Freshmen.

**HIS 3435 MARXISM: 20TH CENTURY THEORY AND PRACTICE (3)** Examines the development of varieties of Marxist theory and practice in the 20th century. Compares the Soviet, European, Chinese and Latin American experiences with Marxist thought and practice. Offered alternate years. Course Equivalents: ECN 3635 and POL 3435. Class not open to: Freshmen.

**HIS 3440 INTERNATIONAL PEACE AND WORLD ORDER (5)** A study of conflict and conflict resolution in the international system, drawing upon resources from negotiation theory, peace studies, Biblical models, international law and international organization, with analysis of varying world order models. Course Equivalent: POL 3440. Class not open to: Freshmen.

## AMERICAN HISTORY: PERIOD STUDY

**HIS 1500 AMERICA'S STORY: AN INTRODUCTION TO THE HISTORY OF THE UNITED STATES (5)** Traces the formation 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 economic systems, and the contributions of the various ethnic and cultural groups who have formed American society.

**HIS 2502 THE UNITED STATES TO 1876 (5)** Surveys the development of the American nation from the earliest colonial settlements through the Reconstruction period. Emphasizes institutions, issues, ideas and individuals. Focuses on basic trends such as industrialization, patterns of thought and values, political development, social change, and sectional conflict. Readings also explore everyday social experience of minority and mainstream groups.

**HIS 2503 THE UNITED STATES SINCE 1876 (5)** Continues the emphasis of HIS 2502: surveys the emergence of contemporary American life and culture from the 1870s to the present; focuses on American power at home and abroad, the rise of today's mass consumer society and the emergence of new values. Readings also explore aspects of modern popular culture.

**HIS 3501 COLONIAL AND REVOLUTIONARY AMERICA: FOUNDATIONS OF AMERICAN CIVILIZATION (5)** Explores America's pre-national experience in both local and international perspective, from the earliest explorations through the Revolution. Special emphasis on the emergence of an American identity and

character; reflections on early American lifestyles. Attribute: Writing Course. Class not open to: Freshmen.

**HIS 4525-4565 AMERICAN EPOCHS** These courses provide intensive, multifaceted, student-centered examination of one narrowly focused time period in American history, taught in seminar style. Completion of a lower-division course is recommended but not required. The particular courses offered rotate through a four-year sequence.

**HIS 4525 JACKSONIAN AMERICA, 1820-1850 (3)** Studies the interacting impact of revival, reform and romanticism in the context of political realignment and economic growth. Students select typical life roles from the period to research and portray. Class not open to: Freshmen and Sophomores.

**HIS 4545 THE TRANSFORMATION OF AMERICAN LIFE: 1870-1900 (3)** Through intensive examination of World's Fairs in 1876 and 1893, analyzes the rise of big business and consequent social and cultural change. Students write short papers, in the journalistic style of the era, based on contemporary accounts of the years and the Fairs. Class not open to: Freshmen and Sophomores.

**HIS 4565 WORLD WAR II (3)** Studies American experiences at home and abroad during the Second World War, and assesses the impact of the ordeal on contemporary American civilization. Guest presentations supplement instructor lectures and class discussion. Students present an individual oral history project. Class not open to: Freshmen and Sophomores.

**AMERICAN HISTORY: TOPICAL STUDY**

**HIS 3600 HISTORY OF THE PACIFIC NORTHWEST (5)** Surveys development of the region encompassing Washington, Oregon, and Idaho from the discovery period to the present. Sets the regional story in the context of the general history of the American West. Field experiences required. (For post baccalaureate students, a tutorial version of this course, HIS 5600, is offered year round through the Division of Continuing Studies.) Class not open to: Freshmen.

**HIS 3640 GROWTH OF THE AMERICAN ECONOMIC SYSTEM (3)** Prerequisites: ECN 1100 or ECN 2101 and ECN 2102. Studies the development of the American economy, with particular attention to the rise of the modern business system and its impact on American society; gives corollary consideration to labor, agriculture, technology, and the monetary system. Offered alternate years. Course Equivalent: ECN 3640. Class not open to: Freshmen.

**HIS 3650 AMERICAN URBAN HISTORY (5)** Surveys the rise of the metropolis in American life and culture, focusing on the roots of current social, economic and environmental problems. Offered alternate years. Class not open to: Freshmen.

**HIS 3670 HISTORY OF AMERICAN FOREIGN RELATIONS (5)** Studies the United States as a participant in the international system, from colonial dependency to superpower. Proposes a theoretical model for interpreting American foreign policy and applies this framework to historical events considered chronologically. Considers questions of morality in relation to foreign policy. Course Equivalent: POL 3670. Attribute: Writing Course. Class not open to: Freshmen.

**HIS 4600 PACIFIC NORTHWEST SENIOR TUTORIAL (5)** An alternative version of HIS 3600. Through guided independent study, the student surveys development of the region encompassing Washington, Oregon, and Idaho from the discovery period to the present. Students engage in readings and field visits, and submit a journal both as a measure of learning progress and as a permanent resource packet. Offered summer only. (Post baccalaureate students should enroll in HIS 5600, a version of the course offered year-round through the Division of Continuing Studies.) Class open to: Undergraduate level.

**THIRD WORLD HISTORY**

**HIS 3710 COMPARATIVE THIRD WORLD HISTORY (5)** Explores the history of the Third World through thematic and regional comparisons. Sample themes include frontier encounters, colonialism, nationalism, modernization, state formation and social change. Attribute: Writing Course. Class not open to: Freshmen.

**HIS 3720 RISE OF ISLAMIC CIVILIZATION (5)** Traces the rise and development of Islamic civilization from 7th century origins to the 18th century. Highlights the interaction of cultural, political and economic themes as well as the changing relations between the Middle East and Europe. 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 to the present. Explores Middle Eastern/Islamic responses to Western expansion, the rise of nationalism, the Arab-Israeli conflict, and the geopolitics of oil. Attribute: Writing Course. Class not open to: Freshmen.

**HIS 3750 LATIN AMERICA (5)** Traces the history of Latin America, with particular attention to the development of political, economic, social, religious, and aesthetic values. Course Equivalent: SOC 3750. Attribute: Writing Course. Class not open to: Freshmen.

**HIS 3785 MODERN CHINA AND JAPAN (5)** Covers the 19th and 20th centuries. Considers the cultural, religious and philosophical fabric of Chinese and Japanese societies, as well as political and economic developments and interactions with the West. Some attention given to other East Asian nations.

**HIS 3790 HISTORY OF AFRICA (5)** Studies the history of Africa from prehistoric times to the present. Examines cultural, political and economic change both within Africa and between Africa and other world regions. 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 schools of historical interpretation and different methods of historical research. Requires investigations and reports by students. Required for all history majors. Class not open to: Freshmen.

**HIS 4920 -4929 READINGS IN HISTORY (2-5)** Registration Approval: Independent Study Agreement. Prerequisites: 15 credits of "B" grade work in history. Requires reading and reporting in a designated area of history as arranged between the student and instructor. The student should present a proposal before registering. May be repeated for credit up to 20 credits. Class not open to: Freshmen and Sophomores.

**HIS 4940-4949 HISTORY INTERNSHIP (2-15)** Registration Approval: Intern Learning Contract Req. Prerequisites: 15 credits of "B" grade work in history. Provides opportunities as available for practical application of history skills. See Internship Coordinator and History Chairperson. May be repeated for credit up to 30 credits. Class not open to: Freshmen and Non-Matriculated.

**HIS 4970-4979 INDEPENDENT RESEARCH (2-15)** Registration Approval: Instructor. Prerequisites: 10 upper-division credits of "B" grade work in history. Requires research and writing on a significant historical topic as arranged between the student and instructor. The student should present a proposal before registering. May be repeated for credit up to 15 credits. Class not open to: Freshmen, Sophomores and Non-Matriculated.

**Internship Program**

Internships seek to integrate academic theory with practical work experience. Designed to be an integral part of students' academic programs, the Internship Program allows students to earn up to 26 credits for learning gained in a work setting.

Careful supervision of students' progress toward learning objectives is a key component of an internship, and a successful experience is built on a partnership between the student, faculty sponsor and employer.

Students participate in internships for career exploration as well as to gain essential professional experience. Internship experiences facilitate students' growth in skills such as communication, problem solving and analysis as well as in skills specific to professional disciplines.

Internships may be paid or unpaid. In either case, it is the quality of the placement and supervision and the emphasis on students' development of critical thinking and other skills which distinguish internships from other part-

time or volunteer work programs.

Minimum requirements for participating in the Internship Program include matriculation at the University and completion of one quarter of coursework. Each school sets specific prerequisites for participation in internships.

Internship opportunities include: Accounting firms, advertising agencies, banks, high-tech companies, medical research labs, performing arts organizations, retail stores, schools, human service agencies and many other types of organizations. Postings of internship opportunities and information about how students can be involved are available in the Career Development Center.

Interested students should address inquiries to the Career Development Center, Student Union Building, 2nd floor, Seattle Pacific University, 3307 3rd Ave. W., Seattle, WA 98119, (206) 281-2485. Home page - <http://www.spu.edu/depts/cdc>.

Languages

**Marilyn Severson, Chair, Robert Baah, Jeffrey Barnhart, Kathryn Bartholomew, Michael Macdonald, Christina Roseman, Michael Ziemann**

The department of Foreign Languages and Literatures encompasses the academic discipline of foreign language acquisition and its application to the serious study of culture and literature. Currently at SPU there is a focus on four spoken languages—French, German, Russian, and Spanish—and one ancient language, Latin. 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 relationship between culture and language. Acquisition of analytical skills, familiarity with important works of literature from several languages and the cultures they express, deeper understanding of communication patterns, and improved writing skills are all addressed in departmental courses.

Elementary language courses are sequential and begin autumn quarter. Students are advised that there is an enrollment limit of 35 in all sections of 1101 classes (2100 for Russian) of the modern spoken languages; should a desired 1101 class be closed, students are urged to choose another language, or to consider summer school offerings, or language courses from other local colleges. Depending on staffing, a section of French, German, and Spanish 1103 and/or Spanish 1102 is offered autumn quarter. Students should consult the Time Schedule to verify such offerings.

Foreign language study (with emphasis on the needs of the traveler) is available on Seattle Pacific's European Quarter. Depending on the location of European Quarter, French, German, 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 — including more than a thousand years of Christian theology. The student who chooses to major in Classics will acquire preparation that can key into any of the liberal arts, as well as enrichment for personal satisfaction. Students interested in pre-law, pre-medicine, education and many of the sciences are encouraged to consider the Classics offerings as electives, as are business majors aspiring to management.

All students who complete the Classics major must be proficient in a foreign language. Proficiency is established upon satisfactory completion of the third quarter of a first year college-level foreign language or its equivalent. For alternative ways of satisfying this requirement, see the general education section of the Catalog. Language proficiency is not satisfied by transfer of an AA degree from a community college unless the transcript records the completion of foreign language coursework.

Requirements for the Major - Language emphasis

(46 credits; 25 upper-division)

Classical Latin courses .....	24
CLA 3170 Classical Civilization .....	5
CLA 3204 Survey of Classical Latin Literature .....	5
CLA 3104 Survey of Ancient Greek Literature .....	5
EUR 3100 Foundations of European Art .....	2
Other approved courses .....	5
<b>Total .....</b>	<b>46</b>

Requirements for the Major - Cultural emphasis

(45 credits; 25 upper-division)

CLA 3170 Classical Civilization .....	5
CLA 3204 Survey of Classical Latin Literature .....	5
CLA 3104 Survey of Ancient Greek Literature .....	5
EUR 3100 Foundations of European Art .....	2
Other approved courses* .....	28
<b>Total .....</b>	<b>45</b>

*\*Note: To be taken from the listings below and courses from philosophy, history, English or linguistics.*

Requirements for the Minor - Classics or Latin

(33 Credits; 15 upper-division)

CLA 3170 Classical Civilization .....	5
Select one course from the following	
CLA 3104 Survey of Ancient Greek Literature (5)	
CLA 3204 Survey of Classical Latin Literature (5) .....	5
Other approved courses .....	23
<b>Total .....</b>	<b>33</b>



Classical Latin Courses

Note: Latin is taught alternate years

**LAT 1101 ELEMENTARY LATIN I (5)** Studies the essentials of Classical Latin grammar to build comprehension in reading and writing elementary Latin. The LAT 1101, 1102 and 1103 sequence is offered alternate years.

**LAT 1102 ELEMENTARY LATIN II (5)** Prerequisite: LAT 1101 or permission of instructor. Continues the study in the essentials of Classical Latin grammar and syntax.

**LAT 1103 ELEMENTARY LATIN III (5)** Prerequisite: LAT 1102 or permission of instructor. Continues the study of Classical Latin through reading to provide a basis for future work in the language: emphasizes translation.

**LAT 2204 LATIN GRAMMAR REVIEW (3)** Prerequisite: LAT 1103 or permission of instructor. Provides intensive review of composition and syntax necessary for all advanced work in Latin.

**LAT 3204 SURVEY OF CLASSICAL LATIN LITERATURE (5)** Surveys the chronological development of Latin poetry and prose in its social context. Enables the student to appreciate great literary works of continuing inspiration to European writers. Special emphasis on literary analysis and critical theory. Taught in English translation in alternate years. Course Equivalent: CLA 3204. Attribute: Writing Course.

**LAT 4920 INDEPENDENT READINGS IN CLASSICAL LATIN (1-3)** Registration Approval: Independent Study Agreement. Prerequisite: LAT 2204. May be repeated for credit up to 15 credits.

**LAT 4970 DIRECTED READINGS AND RESEARCH (1-5)** Registration Approval: Independent Study Agreement. Prerequisite: LAT 4920. May be repeated for credit up to 10 credits.

Classical Culture Courses

**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 SURVEY OF ANCIENT GREEK LITERATURE (5)** Surveys the chronological development of Greek poetry and prose in its social context. Enables the student to appreciate great literary works of continuing inspiration to European writers, with special emphasis on literary analysis and critical theory. Taught in English. Offered alternate years.

**CLA 3170 CLASSICAL CIVILIZATION (5)** Explores history, literature and society of classical Greece and Rome stressing contributions to modern Western civilization. Course Equivalent: HIS 3170.

**CLA 3204 SURVEY OF CLASSICAL LATIN LITERATURE (5)** Surveys the chronological development of Latin poetry and prose in its social context. Enables the student to appreciate great literary works of continuing inspiration to European writers. Special emphasis on literary themes and influence. Taught in English. Offered alternate years. Course Equivalent: LAT 3204. Attribute: Writing Course.

**CLA 4920 DIRECTED READINGS IN CLASSICAL LITERATURE (1-5)** Registration Approval: Independent Study Agreement. Prerequisite: CLA 3170. May be repeated for credit up to 15 credits.

Classical Greek Courses

**GRK 2001 ELEMENTARY CLASSICAL GREEK I (3)** Registration Approval: Instructor. Prerequisite: competency in a non-English language equivalent to the third quarter of a first year college-level foreign language course. This course is an introduction to the grammar and syntax of Classical Greek. Parts of speech, basic forms of the verb and declined nouns will be studied, as well as words needed for a working vocabulary.

**GRK 2002 ELEMENTARY CLASSICAL GREEK II (3)** Registration Approval: Instructor. Prerequisite: GRK 2001 or permission of instructor. This course continues into more complicated grammar and syntactical constructions, leading to the ability to read simple prose selections in the original Greek.

**GRK 4920 INDEPENDENT READINGS IN CLASSICAL GREEK (1-3)** Registration Approval: Independent Study Agreement. Greek is available to qualified students through the Classics professor. May be repeated for credit up to 9 credits.

The C. May Marston Professorship of Classics

C. May Marston served on the faculty of Seattle Pacific for many years, teaching a variety of subjects within the humanities. She mentored young faculty members and staunchly upheld the highest academic standards. To honor her inspiring example of scholarship and service, the C. May Marston Professorship of Classics was established with an anonymous bequest. The holder is charged to promote a study of the culture and languages of Greece and Rome, to teach courses in the field of Classics, and to deliver an annual public lecture relating to research in the discipline. The current C. May Marston Professor is Dr. Christina Horst Roseman.

Latin American Studies

(Student-designed)

**Jeffrey Barnhart, Contact Person**

The Latin American Studies major and minor are designed for students who wish to specialize in Spanish with a Latin American emphasis. Students who complete the major are expected to achieve the stated level of language proficiency in Spanish and to have passed the 30 credit base including the Coalition of Christian Colleges' semester-long program in Costa Rica or an approved alternative.

Requirements for the Major

(minimum of 70 credits; 25 upper-division)

Base Courses for the Major	
(30 credits)	
HIS 3331 History of Spain and Portugal .....	5
HIS 3750 Latin America .....	5
HIS 3710 Comparative Third World History .....	5
SBS 4917* Seminar in Latin American Culture .....	9
SBS 4937* International Practicum .....	6
<b>Total .....</b>	<b>30</b>
<i>*Note: Denotes courses taken during the semester in Costa Rica.</i>	

Requirements for the Spanish Concentration Major

This specialization requires 40 credits of which 25 must be upper-division. This is in addition to the 30 base credits. A minimum of 18 upper-division credits must be in courses taught in Spanish, including SPN 3104 Literature Survey: 19th and 20th Centuries (3), and SPN 4501 Topics in Latin American Literature (3). See course listings under Spanish.

Requirements for the Minor

The minimum requirement for a minor in Spanish Studies, Latin American emphasis, is 35 credits, of which a minimum of 15 must be upper-division. Each student minoring in Spanish Studies, Latin American will complete 10 credits from base requirements and 25 credits from Spanish language courses. A minimum of 7 upper-division credits must be in courses taught in Spanish, including SPN 3104 Literature Survey: 19th and 20th Centuries (3), and SPN 4501 Topics in Latin American Literature (3).

European Studies

Today European unity and diversity are powerful subjects for serious study and personal enrichment. Both historical and contemporary Europe are at the heart of the world of business, travel, the arts, and international politics. Christianity has important roots in Europe, and today many see Europe as a field for the challenge and opportunity of evangelization in the 21st century. Graduates in European Studies find openings in business, missions, travel, government, and education.

The European Studies major offers students a B.A. degree with the choice of one of five language programs, French, German, Latin, Russian, Spanish, or of a general studies program titled Europe. All programs focus on the language, culture, and literature of Europeans. All European Studies majors must complete satisfactorily the following major requirements:

1. 21 credits in European Studies courses (see base courses for all majors);
2. 40 credits in one of the six programs listed above: 25 of these credits must be upper-division; for the language programs a minimum of 18 upper-division credits must be in courses taught in the language;
3. one quarter of study in Europe with the SPU European Quarter, or an approved alternative;
4. a senior paper that integrates learning on Europe (see E.S. Symposium);
5. proficiency in a second European language (other than English) equivalent to 15 credits of college level elementary language study; in this way a broader interest in the diversity of the European community is assured; these credits may be met by a competency exam or by approved coursework.

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, and interact with others about Europe. Alumni are welcome and often participate.

*The European Quarter* is a SPU sponsored study abroad program held autumn or spring quarters. Sites vary, depending on faculty leadership, but participants meet the expectations of a quarter's study in Europe both academically, earning a minimum of 12 credits, and culturally, through in-depth contact with the language/culture connection.

The *European Studies Symposium* is a gathering of faculty, students, and professional staff at the University for the presentation of academic and creative work on the "European experience." All European Studies majors must make a presentation in the Symposium before graduation.

Admission to the European Studies Major

Applicants for a major in European Studies, all programs, must have a cumulative GPA of 2.0 or higher in all college work applicable to the B.A. degree and a 2.5 gpa in 10 credits of coursework at SPU in foreign languages and literatures and/or European studies.

The Base Courses for All Majors

(21 credits)	
EUR 1110 Heritage of Europe .....	5
EUR 3000 European Quarter Orientation .....	1
EUR 3100 Foundations of European Art .....	2
EUR 3247 Classics of Eastern European Literature .....	5
EUR 3500 European Civilization or 5 credits from the SPU sponsored programs in Salamanca or Normandy .....	5
EUR 4250 Contemporary European Issues and Personalities .....	3
<b>Total .....</b>	<b>21</b>

Students should note that EUR 3000 European Quarter Orientation (1) is a prerequisite for EUR 3500 and that EUR 3100 Foundations of European Art (2) is highly recommended for EUR 3500, as are appropriate language courses.

European Studies Courses

**EUR 1110 HERITAGE OF EUROPE (5)** Introduction to the culture of Europe through literature; themes of family, community, heroism, beliefs and values, and women's roles will be examined chronologically from the Classical to the Modern periods.

**EUR 3000 EUROPEAN QUARTER ORIENTATION (1)** Prepares students intellectually, emotionally, spiritually and practically for an extended study program in other cultures. Gives students a general background in the basic concepts of intercultural communication, including how to make cultural comparisons, how to recognize and cope with culture shock, and how to communicate with people of another culture.

**EUR 3100 FOUNDATIONS OF EUROPEAN ART (2)** Provides a brief survey of major periods in European art and architecture beginning with significant works from the Greco-Roman period and progressing through the 19th century. It is specifically oriented toward students intending to travel in Europe.

**EUR 3247 CLASSICS OF EASTERN EUROPEAN LITERATURE (5)** Explores translated texts of select literary classics of East Europe, with particular attention to the growth of a Christian tradition. Includes the work of Tolstoy, Dostoyevski, and Chekhov in light of earlier models of an Eastern tradition.

**EUR 3287 MYTHOLOGY IN LITERATURE (5)** Prerequisite: ENG 1110 or EUR 1110. Studies mythological traditions from the Near Eastern world through the Classical Mediterranean to Europe, as well as material from Asia and tribal societies. Emphasis on mythic themes especially significant for European literature. Attribute: Writing Course.

**EUR 3500 EUROPEAN CIVILIZATION (5)** Registration Approval: Travel Studies Form. Offered in Europe. Provides a cultural investigation of Europe and an on-site practicum. This course examines contemporary Europe as part of the European Quarter Abroad, with special attention to a Christian perspective on the historical growth of European cultures. The language skills acquired by students are demonstrated in intensive programs of living and travel.

**EUR 3950 EUROPEAN SPECIAL TOPICS (1-5)**

**EUR 4250 CONTEMPORARY EUROPEAN ISSUES AND PERSONALITIES (3)** The heritage of Europe will be the framework within which contemporary European issues and personalities will be interpreted. A key component of the class is the research project which will relate to the student's language concentration and special interests. Class not open to: Freshmen and Sophomores.

**EUR 4254 TRANSLATION (3)** Prerequisite: working fluency in at least one language besides English. Theory and practice of translating, with attention to accuracy and nuances of style. May be repeated for credit 1 time.

**EUR 4911 RUSSIAN STUDIES SEMINAR I: RUSSIAN HISTORY AND CULTURE (6)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the Russian Studies Program. Taught through semester-long program of the Coalition of Christian Colleges and Universities in Russia. This course focuses on the culture which has given rise to contemporary Russian life. Special emphasis is given to religious and cultural underpinnings. The seminar utilizes lectures, tours, discussions and readings, and gives students wide exposure to a diversity of perspectives on Russian/Soviet history and culture. Class not open to: Freshmen and Non-Matriculated.

**EUR 4912 RUSSIAN STUDIES SEMINAR II: CONTEMPORARY ISSUES IN RUSSIA (6)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the Russian Studies Program. Taught through semester-long program of the Coalition of Christian Colleges and Universities in Russia. This course emphasizes contemporary life in Russia, with a focus on issues that have arisen as a result of the demise of Communism. Through conversations with business and government leaders, students are introduced to the complexities of economic transition from a centrally-planned economy to a free market system. They also study efforts to build democratic institutions in Russia and analyze the role of Russia's churches and the debate concerning religious freedom. Class not open to: Freshmen and Non-Matriculated.

**EUR 4920 DIRECTED READINGS AND RESEARCH (1-5)** 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 only.

**EUR 4930 TUTORIAL PRACTICUM (1-3)** Registration Approval: Instructor. For advanced students who wish to assist as discussion leaders and graders in courses under the heading of European Studies. May be repeated for credit up to 3 credits.

**EUR 4931 RUSSIAN STUDIES PRACTICUM: SERVICE PROJECT (3)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the Russian Studies Program. Taught through semester-long program of the Coalition of Christian Colleges and Universities in Russia. Students spend time each week volunteering with local community projects, church organizations, business enterprises, schools, and orphanages in Nizhni Novgorod. The project enables students to work directly with Russians and develop a better understanding of the realities of contemporary Russian life. Class not open to: Freshmen and Non-Matriculated.

**EUR 4950 SPECIAL TOPICS (1-5)** Focuses on different topics relating to the languages and cultures of Europe. Topics to be announced in the Time Schedule. May be repeated for credit up to 10 credits.

**EUR 4951 SPECIAL TOPICS (1-5)** Registration Approval: Travel Studies Form. Focuses on different topics relating to the languages and cultures of Europe.

EUROPE PROGRAM REQUIREMENTS

Michael Macdonald, Contact Person

Requirements for the Major

(61 credits; 25 upper-division)	
Base courses .....	21
European history and political science courses .....	15
HIS 1201 or 1202 (5)	
HIS/POL 3440 (5)	
Elective courses in HIS/POL (5)*	
European languages .....	20
(minimum competency through 2103 in one language)	
Elective courses* .....	5
<b>Total .....</b>	<b>61</b>

*\*Note: Elective credits are to be chosen in consultation with the student's advisor from courses in foreign language, literature in translation, or additional courses from the areas listed above.*

Requirements for the European Studies Minor

(33 Credits; 15 upper-division)	
EUR 3247 Classics of Eastern European Literature .....	5
EUR 3500 European Civilization .....	5
EUR 4250 Contemporary European Issues and Personalities .....	3
Modern European language courses .....	15
Other European Studies courses .....	5
<b>Total .....</b>	<b>33</b>

FRENCH PROGRAM REQUIREMENTS

Marilyn Severson, Contact Person

Requirements for the Major

A European Studies major/French program requires 40 credits, of which 25 must be upper-division, in addition to the 21 base course credits and the other major requirements listed above. A minimum of 18 upper-division credits must be in courses taught in French.

Requirements for the French Studies Minor

The minimum requirement for a minor in French studies is 33 credits, of which a minimum of 15 must be upper-division. Each student minoring in French studies will complete 8 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 Study Abroad Program or in European Quarter. May be repeated for credit up to 5 credits.

**FRE 1101 ELEMENTARY FRENCH I (5)** Builds confidence in the four basic skills: understanding, speaking, reading, and writing in the French language. Investigates French culture and its relationship to the language.

**FRE 1102 ELEMENTARY FRENCH II (5)** Prerequisite: FRE 1101 or permission of instructor. Builds confidence in the four basic skills: understanding, speaking, reading, and writing in the French language. Investigates French culture and its relationship to the language.

**FRE 1103 ELEMENTARY FRENCH III (5)** Prerequisite: FRE 1102 or permission of instructor. Builds confidence in the four basic skills: understanding, speaking, reading, and writing in the French language. Investigates French culture and its relationship to the language.

**FRE 2100 INTERMEDIATE FRENCH (1-5)** Registration Approval: Travel Studies Form. Intermediate French in France Study Abroad Program or in European Quarter. May be repeated for credit up to 5 credits.

**FRE 2101 NIVEAU INTERMEDIAIRE (5)** Prerequisite: FRE 1103 or permission of instructor. Investigates French attitudes toward the future and dilemmas of change in modern Europe, and considers contemporary French culture. Includes a review of French language structure.

**FRE 2102 NIVEAU INTERMEDIAIRE (5)** Prerequisite: FRE 1103 or permission of instructor. Investigates the issues of faith and values in French national life and in literature; includes a review of language structure.

**FRE 2103 NIVEAU INTERMEDIAIRE (5)** Prerequisite: FRE 1103 or permission of instructor. Introduces literary studies in the French tradition; selections and genres vary according to faculty 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 Program or in European Quarter. May be repeated for credit up to 5 credits.

**FRE 3205 TOPICS IN FRENCH LITERATURE (5)** Considers themes in French literature illustrated in works chosen from different genres and periods. Taught in English but students specializing in the French program or working on a French minor will do some reading and writing assignments in French and attend one session per week conducted in French. Offered alternate years. May be repeated for credit 1 time.

**FRE 3250 LA FRANCE ET LE MONDE (3)** Considers how France views Europe and the world and her role therein. Directs special attention to the linguistic and cultural values inherent in French life and action. Uses French as the language for research, lecture and discussion. Offered alternate years. May be repeated for credit 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 and language. Uses French as the language for research, lecture and discussion. Offered alternate years. May be repeated for credit 1 time.

**FRE 4460 LA LITTERATURE FRANCAISE-DU MOYEN AGE AU 18E SIECLE (3)** Presents landmark works in French literature from the Middle Ages to the Revolution. Includes consideration of genres, themes and social/historical backgrounds of the selections studied. Uses French as the language for research, lecture and discussion. Offered alternate years. May be repeated for credit 1 time. Attribute: Writing Course.

**FRE 4461 LA LITTERATURE FRANCAISE-DU 19E ET DU 20E SIECLES (3)** Examines important works by French authors of the 19th and 20th centuries in the context of literary and philosophical movements. Pays close attention to the effect of historical events and cultural changes on the evolution of values. Uses French as the language of research, lecture and discussion. Offered alternate years. May be repeated for credit 1 time.

**FRE 4470 ETUDES SPECIALES EN FRANCAIS (3)** Focuses on different topics relating to the language and culture of France. Uses French as the language of research, lecture and discussion. Topics to be announced in the Time Schedule. Offered alternate years. May be repeated for credit 1 time.

**FRE 4920 INDEPENDENT READINGS IN FRENCH (1-5)** Registration Approval: Independent Study Agreement. May be repeated for credit up to 10 credits.

**FRE 4930 FRENCH TUTORIAL PRACTICUM (1-6)** Registration Approval: Instructor. For advanced students who wish to assist as discussion leaders and readers in 1000 level French classes. May be repeated for credit up to 6 credits.

GERMAN PROGRAM REQUIREMENTS

Michael Ziemann, Contact Person

Requirements for the Major

A European Studies major/German program requires 40 credits, of which 25 must be upper-division, in addition to the 21 base course credits and the other major requirements listed above. A minimum of 18 upper-division credits must be in courses taught in German.

Requirements for the German Studies Minor

The minimum requirement for a minor in German studies is 33 credits, of which a minimum of 15 must be upper-division. Each student minoring in German studies will complete 8 credits in courses with a European studies prefix and 25 credits from German language courses. A minimum of 7 upper-division credits must be in courses taught in German. HIS 1202 Modern Europe (5) can be included in the total credits.

German Courses

**GER 1100 ELEMENTARY GERMAN (1-2)** Registration Approval: Travel Studies Form. European Quarter only. May be repeated for credit up to 2 credits.

**GER 1101 ELEMENTARY GERMAN I (5)** Builds confidence in the four basic skills: understanding, speaking, reading, and writing in the German language. Investigates German culture and its relationship to the language.

**GER 1102 ELEMENTARY GERMAN II (5)** Prerequisite: GER 1101 or permission of instructor. Builds confidence in the four basic skills: understanding, speaking, reading, and writing in the German language. Investigates German culture and its relationship to the language.

**GER 1103 ELEMENTARY GERMAN III (5)** Prerequisite: GER 1102 or permission of instructor. Builds confidence in the four basic skills: understanding, speaking, reading and writing in the German language. Investigates the German culture and its relationship to the language.

**GER 2100 INTERMEDIATE GERMAN (1-2)** Registration Approval: Travel Studies Form. European Quarter only. May be repeated for credit up to 2 credits.

**GER 2101 DAS ZWEITE JAHR (5)** Prerequisite: GER 1103 or permission of instructor. Investigates German attitudes toward the future and dilemmas of change in modern Europe. Includes review of German language structure supporting the readings.

**GER 2102 DAS ZWEITE JAHR (5)** Prerequisite: GER 1103 or permission of instructor. Investigates the issues of faith and values in German national life and in literature. Includes a review of German language structure supporting the readings.

**GER 2103 DAS ZWEITE JAHR (5)** Prerequisite: GER 1103 or permission of instructor. Introduces literary studies in the German tradition. Selections and genres vary according to faculty and student interest. Includes a review of German language structure supporting the readings.

**GER 3100 ADVANCED GERMAN (1-2)** Registration Approval: Travel Studies Form. European Quarter only. May be repeated for credit up to 2 credits.

**GER 3206 TOPICS IN GERMAN LANGUAGE AND LITERATURE (5)** Considers themes in German language and literature illustrated in works chosen from different genres and periods. Taught in English but students specializing in the German program or working on a German minor will do some reading and writing assignments in German and attend one session per week conducted in German. Offered alternate years. May be repeated for credit 1 time.

**GER 3260 DIE DEUTSCHEN KUENSTE (3)** Explores painting, sculpture, architecture, music, theater, and film in Germany with the intention of bringing out the interaction of these arts with each other, history and language. Uses German as the language for research, lecture and discussion. Offered alternate years. May be repeated for credit 1 time.

**GER 4460 DIE DEUTSCHE LITERATUR VOM MITTELALTER ZUR ROMANTIK (3)** Presents landmark works in German literature from the early Middle Ages to the Romantic period. Emphasis will be placed on epic poems, 'Minnesang', Reformation writings, the Baroque, and on Lessing, Schiller, and Goethe. Includes consideration of genres, themes and social/historical backgrounds for the selections studied. Uses German as the language for research, lecture and discussion. Offered alternate years. May be repeated for credit 1 time.

**GER 4461 DIE DEUTSCHE LITERATUR DES 19. UND 20. JAHRHUNDERTS (3)** Examines important works by German authors of the 19th and 20th centuries in the context of literary and philosophical movements. Pays close attention to the effect of historical events and cultural changes on the evolution of values. Uses German as the language of research, lecture and discussion. Offered alternate years. May be repeated for credit 1 time.

**GER 4470 SPEZIELLE STUDIEN AUF DEUTSCH (3)** Focuses on different topics relating to the language and culture of Germany. Uses German as the language of research, lecture and discussion. Topics to be announced in the schedule of classes. Offered alternate years. May be repeated for credit 1 time.

**GER 4920 INDEPENDENT READINGS (1-5)** Registration Approval: Independent Study Agreement. May be repeated for credit up to 10 credits.

**GER 4930 GERMAN TUTORIAL PRACTICUM (1-6)** Registration Approval: Instructor. For advanced students who wish to assist as discussion leaders and readers in 1000 level German classes. May be repeated for credit up to 6 credits.

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 the 21 base course credits and the other major requirements listed above. A minimum of 9 credits must be in upper-division Latin readings. CLA 3104, 3170 and 3204 are required and can be included in the total number of credits.



Requirements for the Latin Studies Minor

The minimum requirement for a minor in Latin studies is 33 credits, of which a minimum of 15 must be upper-division (e.g., CLA 3204; EUR 3247, 3500, 4250; LAT 4920). Each student minoring in Latin studies will complete 8 credits 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 40 credits, of which 25 must be upper-division, in addition to the 21 base course credits and the other major requirements listed above. In addition, majors must take HIS 3345 Modern Russia (5).

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 credits from courses with a European studies prefix, 6 credits in Russian literature (RUS 3207), and at least 20 credits from Russian language courses.

Russian Courses

- RUS 1100 ELEMENTARY RUSSIAN (1-2) Registration Approval: Travel Studies Form. European Quarter only.
- RUS 2000 RUSSIAN LANGUAGE STUDY: ELEMENTARY (9) Registration Approval: Travel Studies Form. Prerequisite: Acceptance 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.
- RUS 2100 BEGINNING RUSSIAN I (5) Builds confidence in four basic skills: understanding, speaking, reading, and writing in the Russian language. Investigates Russian culture and its relationship to the language, as well as the Slavic culture in general. This course is on a first year level.
- RUS 2105 BEGINNING RUSSIAN II (5) Prerequisite: RUS 2100 or permission of instructor. Provides continued practice in reading, writing, understanding and speaking Russian. This course continues the first year level.
- RUS 2106 BEGINNING RUSSIAN III (5) Prerequisite: RUS 2105 or permission of instructor. A review of Russian pronunciation and grammar, with an emphasis on vocabulary building through reading Russian texts. This course completes the first year level 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 Coalition of Christian Colleges and Universities in Russia. Class not open to: Freshmen and Non-Matriculated.
- RUS 3100 INTERMEDIATE RUSSIAN (3) Prerequisite: RUS 2106 or permission of instructor. A review of the Russian case system, and word growth through anecdotes and stories.
- RUS 3101 ADVANCED RUSSIAN (1-2) Registration Approval: Travel Studies Form. European Quarter only.
- RUS 3200 RUSSKII JAZYK (3) Prerequisite: RUS 2106 or permission of instructor. A review of the Russian verb system and word-growth through issues of faith in Russian culture.
- RUS 3207 RUSSIAN WRITERS (3) Themes change on a three year basis: Dostoevski, Tolstoi, the literature of Russian spirituality. Taught in English with readings in Russian for Russian majors. May be repeated for credit 1 time.

- RUS 3300 RUSSKII JAZYK (3) Prerequisite: RUS 2106 or permission of instructor. A review of special categories of Russian thought and word growth through great writers.
- RUS 3920 INDEPENDENT READINGS: INTERMEDIATE RUSSIAN (1-5) Registration Approval: Independent Study Agreement. 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. Taught through semester-long program of the Coalition for Christian Colleges and Universities in Russia. Class not open to: Freshmen and 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.
- RUS 4200 RUSSKAIA KULTURA (3) Prerequisite: RUS 4100 or permission of instructor. A study of the issues of faith and culture, by reading short stories or plays that relate to belief and doubt.
- RUS 4300 RUSSKAIA KULTURA (3) Prerequisite: RUS 4200 or permission of instructor. An introduction to Russian literary studies and vocabulary. Readings and discussions focus on masterpieces of Russian literature.
- RUS 4920 INDEPENDENT READINGS: ADVANCED RUSSIAN (1-5) Registration Approval: Independent Study Agreement. May be repeated for credit up to 10 credits.
- RUS 4930 RUSSIAN TUTORIAL PRACTICUM (1-6) Registration Approval: Instructor. For advanced students who wish to assist in 2000 level Russian classes. Students assist in classroom instruction and conduct specific cultural research. May be repeated for credit up to 6 credits.

SPANISH PROGRAM REQUIREMENTS

Robert Baah, Contact Person

Requirements for the Major

A European Studies major/Spanish program requires 40 credits, of which 25 must be upper-division, in addition to the 21 base course credits and the other major requirements listed above. A minimum of 18 upper-division credits must be in courses taught in Spanish. Courses in the history of the Hispanic world, HIS 3750 Latin America (5) and HIS 3331 History of Spain and Portugal (5), are required and can be included in the total credits.

Requirements for the Spanish Studies Minor

The minimum requirement for a minor in Spanish studies is 33 credits, of which a minimum of 15 must be upper-division. Each student 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 Approval: Travel Studies Form. European Quarter or Salamanca In-Residence Program only.
- SPN 1101 ELEMENTARY SPANISH (5) Develops skill in understanding, speaking, reading, and writing the Spanish language. Investigates Spanish culture and its relationship to the language.
- SPN 1102 ELEMENTARY SPANISH II (5) Registration Approval: Instructor. Prerequisite: SPN 1101 or equivalent. Develops skill in understanding, speaking, reading, and writing the Spanish language. Investigates Spanish culture and its relationship to the language.
- SPN 1103 ELEMENTARY SPANISH III (5) Registration Approval: Instructor. Prerequisite: SPN 1102 or equivalent. Develops skill in understanding, speaking, reading, and writing the Spanish language. Investigates Spanish culture and its relationship to the language.

- SPN 2100 INTERMEDIATE SPANISH (1-5) Registration Approval: Travel Studies Form. European Quarter or Salamanca In-Residence Program only.
- SPN 2101 INTERMEDIATE SPANISH I (5) Prerequisite: SPN 1103 or equivalent. A review of Spanish language structure, with emphasis on progress towards communicative competence and growth in understanding and appreciation of the culture of the Hispanic world; introduction to literature.
- SPN 2102 INTERMEDIATE SPANISH II (5) Prerequisite: SPN 1103 or equivalent. A review of Spanish language structure, with emphasis on progress towards communicative competence and growth in understanding and appreciation of the culture of the Hispanic world; introduction to literature.
- SPN 2103 INTERMEDIATE SPANISH III (5) Prerequisite: SPN 1103 or equivalent. A review of Spanish language structure, with emphasis on progress towards communicative competence and growth in understanding and appreciation of the culture of the Hispanic world; introduction to literature.
- SPN 3100 ADVANCED SPANISH (1-5) Registration Approval: Travel Studies Form. European quarter or Salamanca In-Residence Program only.
- SPN 3101 ADVANCED SPANISH (2) Prerequisite: SPN 2103 or equivalent. A systematic review of Spanish grammar, with attention to stylistic considerations. May be repeated for credit 2 times.
- SPN 3104 LITERATURE SURVEY: 19TH AND 20TH CENTURY (3) Examines works of major 19th and 20th century writers from Spain and Latin America in the context of contemporary ideologies and values. Taught in Spanish and occasionally offered in English. Offered alternate years.
- SPN 3105 LITERATURE SURVEY: GOLDEN AGE (3) Mystics, picaresque novels, poetry and drama, studied in the context of the period. Taught in Spanish and occasionally 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. Taught in Spanish and occasionally in English. Offered alternate years.
- SPN 4401 TOPICS IN SPANISH LITERATURE (3) Emphasis varies from quarter to quarter. Taught in Spanish and occasionally in English. Offered alternate years. May be repeated for credit 1 time.
- SPN 4501 TOPICS IN LATIN AMERICAN LITERATURE (3) Emphasis varies from quarter to quarter. Taught in Spanish and occasionally in English. Offered alternate years. May be repeated for credit 1 time.
- SPN 4920 INDEPENDENT READINGS SPANISH (1-5) Registration Approval: Independent Study Agreement. May be repeated for credit up to 10 credits.
- SPN 4921 INDEPENDENT READINGS SPANISH (9) Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the Latin American Studies Program. Taught through semester-long program of Coalition for Christian Colleges and Universities in Costa Rica.
- SPN 4930 SPANISH TUTORIAL PRACTICUM (1-3) Registration Approval: Instructor. For advanced students who wish to assist in 1000 level Spanish classes. May be repeated for credit up to 6 credits.

Linguistics

Kathryn Bartholomew, Contact Person; Jeffrey Barnhart, Luke Reinsma, Debra Sequeira, Michael Ziemann  
Linguistics reflects on the nature of language itself and on human beings as creators and users of language. Students of linguistics generally prepare themselves to enter professional fields as translators, literacy specialists, teachers of English as a Second Language, foreign language specialists, or elementary and secondary school teachers. Studies focus on the systems of language—sound, meaning, and phrase and sentence structure, both in the present and through time.

Requirements for the Minor

- (30 Credits; 15 upper-division)
- LIN 2100 Foundations of Language Study ..... 3
- LIN 4145 Phonology ..... 3
- LIN 4150 Morphology ..... 3
- LIN 4400 Comparative Syntax ..... 3
- LIN 4410 Syntax ..... 3
- Select 15 credits from the following courses:
  - LIN 4365 Methodology of Foreign Language Teaching (3)
  - LIN 4450 Pragmatics and Semantics (5)
  - LIN 4601\* History of English (3)
  - LIN 4920 Directed Readings (1-10)
  - EdRd 3529 Child Language Acquisition (3)
  - PSY 4415 Cognitive Psychology (5) ..... 15
- Total ..... 30
- \*LIN 4601 (History of English) is strongly recommended for English majors.

Linguistics Courses

- LIN 2100 FOUNDATIONS OF LANGUAGE STUDY (3) Develops conceptual tools for understanding the nature and the processes of language: phonology, morphology, syntax, semantics and pragmatics. Personal and professional attitudes toward the world of language are re-examined. This course is also offered via distance learning.
- LIN 4145 PHONOLOGY (3) A thorough study of sound systems and processes, with problem-solving experience in the analysis of English and other languages.
- LIN 4150 MORPHOLOGY (3) A thorough study of word structures and processes, with problem-solving experience in the analysis of English and other languages.
- LIN 4365 METHODOLOGY OF FOREIGN LANGUAGE TEACHING (3) An overview of the theoretical paradigms of second language learning and teaching; definition and evaluation of communicative competence; strategies for teaching skills of listening, speaking, reading and writing; selection and development of instructional materials, including new technology. Course Equivalent: EDU 4365.
- LIN 4400 COMPARATIVE SYNTAX (3) Prerequisite: LIN 2100 or permission of instructor. Provides an intensive investigation into non-English sentence structures. Basic rule-making and rule-testing are examined in a variety of languages. Offered alternate years.
- LIN 4410 SYNTAX (3) Provides an intensive investigation into contemporary English sentence structures through an application of transformational syntax. Basic rule-making and rule-testing are examined in the student's own language use. Offered alternate years.
- LIN 4450 PRAGMATICS AND SEMANTICS (3) Prerequisite: LIN 2100 or permission of instructor. Examines theories of meaning and reference, and the way context influences the meaning of discourse.
- LIN 4601 HISTORY OF THE ENGLISH LANGUAGE (3) Examines Anglo-Saxon, Middle, and modern forms of English in historical development and individual language systems. Includes phonology, morphology, syntax, and some discussion of the relationships of each language stage to literary expression during its era. Offered alternate years. Course Equivalent: ENG 4601.
- LIN 4920 DIRECTED READINGS (1-10) Registration Approval: Independent Study Agreement. May be repeated for credit up to 10 credits. Class not open to: Freshmen.
- LIN 4930 TUTORIAL PRACTICUM (1-3) Registration Approval: 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 credit up to 5 credits. Class not open to: Freshmen and Sophomores.
- LIN 4952 SPECIAL TOPICS IN LINGUISTICS (1-5) May be repeated for credit up to 5 credits. Class not open to: Freshmen and Sophomores.

# 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 careers in mathematics. A mathematics education major is also offered for elementary certification. See the School of Education section of the Catalog for information.

**HIGH SCHOOL PREPARATION.** Three years of high school mathematics, including trigonometry, are required for all students entering one of the degree programs. However, students who plan to make mathematics a career are urged to take a minimum of four years of high school mathematics. Students deficient in their high school mathematics preparation must take the appropriate courses in the sequence MAT 1101, 1112 and 1114 to make up the deficiency before starting one of the math degree programs.

**ADVANCED PLACEMENT PROGRAM.** Superior students who have completed one year of calculus in high school may apply for advanced placement and credit for 1225 and 1226. The extent to which a student will be advanced and the amount of credit given will be decided on an individual basis by the mathematics faculty.

**MATHEMATICAL COMPETENCY REQUIREMENT.** All undergraduates are required to demonstrate mathematical competency. This can be accomplished in any one of the following ways:

1. Have a quantitative SAT score of at least 580 or ACT score of at least 25.
2. Transfer in with a C or better in MAT 1225 or its college level equivalent.
3. Achieve a passing score on SPU's mathematics proficiency test.
4. Complete the required work in Arithmetic Review as revealed by the proficiency test results.
5. Successfully complete all 5 credits in Arithmetic Review.

Unless the waivers in 1 or 2 above apply, no student will be allowed to enroll in any mathematics course (except Arithmetic Review) without having passed the proficiency 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 1225; those with three years should take MAT 1110 or 1112 and 1114; and those with two years should take MAT 1101. However, mathematics faculty will determine where a student should start on the basis of high school record and entrance test scores. To be admitted into MAT 1110, 1221, or 1225, students must present a sufficiently high score on the math placement test. This test will be administered by the Mathematics Department to incoming students during orientation week, and will also be available at the start of each quarter through the Math Lab. The test will be administered to each student once.

**ADMISSION TO THE MAJOR.** A GPA of 2.5 or above in 15 credits of mathematics which apply to the major is required for admission to the major.

**COMPUTER USE.** Each mathematics student should be familiar with at least one computer language. Therefore each math major without this familiarity should take CSC 1115 and 1212, or CSC 1230 during his/her first year.

**MATH LAB.** The following courses are available through the Math Lab: Arithmetic Review, MAT 0140, 1102, 1103, 1112, and 1114. The Math Lab is open at least four hours daily for student tutoring and testing. These courses do not include a lecture; students study self-instructional materials, obtain instructional help in the Math Lab when necessary and take tests in the Math Lab. Since the learning system in the Math Lab follows a mastery learning approach, students may take more than one exam per unit. (Typically a 5 credit course consists of 9 units.) The courses Arithmetic Review and 0140 are available only through the Math Lab, while the other courses are also available in regular lecture sections.

**ACTUARIAL SCIENCE.** A student interested in becoming an actuary should major in mathematics or mathematics-economics. The following mathematics courses should be included: MAT 4361, 4362, 4725, 4830 and some independent study. This provides the foundation for taking exams I, II and III as offered by the Society of Actuaries. Further work in economics is helpful.

**MATHEMATICS/ECONOMICS.** Students desiring a major in mathematics-economics should consult a mathematics advisor for information on a student-designed major.

**B.S. IN ENGINEERING SCIENCE.** Emphasis in mathematics. (See Engineering Science section.)

## Requirements for the Mathematics Major B.A. in Mathematics

(52 Credits; 25 upper-division)  
*[Refer to page 52 for a summary of degree requirements]*  
The major will be completed by completing one of the following two options:

### Liberal Arts

MAT 1225, 1226 Calculus .....	10
MAT 1228 Series and Differential Equations .....	5
MAT 2228 Multivariable Calculus .....	3
MAT 2375 Probability Theory .....	3
MAT 2401 Linear Algebra .....	3
MAT 2720 Discrete Mathematics .....	3
MAT 3441 Axiomatic Geometry .....	3
or MAT 3443 Transformational Geometry .....	3
MAT 3750, 3751 Introduction to Real Analysis .....	6
MAT 4402, 4403 Modern Algebra .....	6
MAT 4915 Senior Problems Seminar .....	1
Additional credits in courses numbered 3000-4999* .....	9
<b>Total .....</b>	<b>52</b>

\* A maximum of 3 credits in 4930 may be applied.

### Teaching

MAT 1225, 1226 Calculus .....	10
MAT 1228 Series and Differential Equations .....	5
MAT 2228 Multivariable Calculus .....	3
MAT 2375 Probability Theory .....	3
MAT 2401 Linear Algebra .....	3
MAT 2720 Discrete Mathematics .....	3
MAT 3441 Axiomatic Geometry .....	3
or MAT 3443 Transformational Geometry .....	3
MAT 3750, 3751 Introduction to Real Analysis .....	6
MAT 4402, 4403 Modern Algebra .....	6
MAT 4915 Senior Problems Seminar .....	1
MAT 4930 Practicum in Mathematics .....	1
Additional credits in courses numbered 3000-4999* .....	8
<b>Total .....</b>	<b>52</b>

\* 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)  
*[Refer to page 52 for a summary of degree requirements]*

MAT 1225, 1226 Calculus .....	10
MAT 1228 Series and Differential Equations .....	5
MAT 2228 Multivariable Calculus .....	3
MAT 2375 Probability Theory .....	3
MAT 2401 Linear Algebra .....	3
MAT 2720 Discrete Mathematics .....	3
MAT 3750, 3751 Introduction to Real Analysis .....	6
MAT 4402, 4403 Modern Algebra .....	6
MAT 4910 Mathematics Seminar .....	2
MAT 4915 Senior Problems Seminar .....	1
Additional credits in courses numbered 3000-4999* .....	23
<b>Total .....</b>	<b>65</b>

\* Courses 4361, 4362 and 4830 are strongly recommended. A 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 advised 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 1225, 1226 Calculus .....	10
MAT 2228 Multivariable Calculus (3) or MAT 2375 Probability Theory (3) .....	3
MAT 2401 Linear Algebra .....	3
MAT 2720 Discrete Mathematics .....	3
Additional credits numbered 3000-4999* .....	15
<b>Total .....</b>	<b>34</b>

\* 3750 and 4402 are strongly recommended for all minors and a teaching minor must include 3750, 4402 and 3441. A maximum of 3 credits in 4904 or 4930 may be applied.

## Mathematics Courses

**MAT 0121 ARITHMETIC REVIEW I (1)** Studies the fundamentals of arithmetic. A diagnostic test indicates which topics need review and the course is individualized to those needs. Credits in this course do not apply toward graduation requirements. (Offered only in the Math Lab.)

**MAT 0122 ARITHMETIC REVIEW II (1)** Studies the fundamentals of arithmetic. A diagnostic test indicates which topics need review and the course is individualized to those needs. Credits in this course do not apply toward graduation requirements. (Offered only in the Math Lab.)

**MAT 0123 ARITHMETIC REVIEW III (1)** Studies the fundamentals of arithmetic. A diagnostic test indicates which topics need review and the course is individualized to those needs. Credits in this course do not apply toward graduation requirements. (Offered only in the Math Lab.)

**MAT 0124 ARITHMETIC REVIEW IV (1)** Studies the fundamentals of arithmetic. A diagnostic test indicates which topics need review and the course is individualized to those needs. Credits in this course do not apply toward graduation requirements. (Offered only in the Math Lab.)

**MAT 0125 ARITHMETIC REVIEW V (1)** Studies the fundamentals of arithmetic. A diagnostic test indicates which topics need review and the course is individualized to those needs. Credits in this course do not apply toward graduation requirements. (Offered only in the Math Lab.)

**MAT 0126 ARITHMETIC REVIEW VI (1)** Studies the fundamentals of arithmetic. A diagnostic test indicates which topics need review and the course is individualized to those needs. Credits in this course do not apply toward graduation requirements. (Offered only in the Math Lab.)

**MAT 0140 INTRODUCTORY ALGEBRA (3)** Explores sets, solving equations and inequalities, factoring, fractional and rational

expressions, graphing, and word problems. Credits in this course do not apply toward graduation requirements. (Offered only in the Math Lab.)

**MAT 1101 INTERMEDIATE ALGEBRA (5)** Studies linear and quadratic equations and inequalities, exponents, radicals and exponential functions, logarithms, polynomials, graphing, rational expression and systems of equations.

**MAT 1102 INTERMEDIATE ALGEBRA I (3)** Studies linear equations and inequalities, real numbers, polynomials, rational expressions, radicals and exponents. This is the first portion of MAT 1101 and credit cannot be received for taking both courses. (Offered only in the Math Lab.)

**MAT 1103 INTERMEDIATE ALGEBRA II (2)** Explores systems of equations, quadratic equations and inequalities, exponential functions and logarithms. This is the second portion of Math 1101 and credit cannot be received for taking both courses. (Offered only in the Math Lab.)

**MAT 1110 ALGEBRA AND TRIGONOMETRY (5)** Explores algebraic, circular and trigonometric equations and identities and inequalities. Credit cannot be received for this course if MAT 1112 or MAT 1114 has been taken.

**MAT 1112 COLLEGE ALGEBRA (3)** Explores inequalities and algebraic functions: linear, quadratic, polynomial and rational. This is a portion of MAT 1110; credit cannot be received for taking both courses. (Offered only in Math Lab.)

**MAT 1114 TRIGONOMETRY (2)** Studies the development of circular and trigonometric functions, right triangle applications, trigonometric equations and identities. This is a portion of MAT 1110; credit cannot be received for taking both courses. (Offered only in Math Lab.)

**MAT 1221 SURVEY OF CALCULUS (5)** Prerequisite: MAT 1101 or its equivalent and passing score on Mathematics Proficiency Exam. An applications-oriented course with an intuitive approach including introduction to both differential and integral calculus. Examples drawn from business, economics, biology and the social and behavioral sciences. This course is not the prerequisite for 1226, nor can credit be received if 1225 or its equivalent has been taken.

**MAT 1225 CALCULUS (5)** Prerequisite: MAT 1110 or its equivalent and passing score on Mathematics Proficiency Exam. Explores differential and integral calculus of functions of one or more variables. Sequence begins both autumn and winter.

**MAT 1226 CALCULUS (5)** Prerequisite: MAT 1225. Explores differential and integral calculus of functions of one or more variables. Sequence begins both autumn and winter.

**MAT 1228 SERIES AND DIFFERENTIAL EQUATIONS (5)** Prerequisite: MAT 1226. Studies infinite series, general solutions of linear and certain non-linear differential equations, solutions of systems of differential equations, and series solutions.

**MAT 1360 INTRODUCTION TO STATISTICS (5)** Prerequisite: Passing score on Mathematics Proficiency Exam or completion of Arithmetic Review; MAT 0140 or MAT 1102 or equivalent. Explores descriptive statistics, elementary probability, binomial and normal distributions, sampling, estimating parameters, testing hypotheses, regression and correlation.

**MAT 1521 INTRODUCTION TO CONTEMPORARY MATHEMATICS (5)** Prerequisite: MAT 1101 or its equivalent. Explores topics which illustrate how mathematical methods and models permeate our economic, political and personal lives. By investigation of diverse applications, a variety of problem-solving techniques will be introduced, including using the computer as a tool.

**MAT 1720 MATHEMATICS FOR COMPUTER SCIENCE (5)** Prerequisite: MAT 1360 or 1221 or 1225. Explores set theory, number systems, logic, proof techniques, linear algebra, equation solving, linear programming and networks.

**MAT 2228 MULTIVARIABLE CALCULUS (3)** Prerequisites: MAT 1226, 2401. Studies vectors and analytic geometry in three dimensions, partial differentiation and multiple integration.

**MAT 2375 PROBABILITY THEORY (3)** Prerequisite: MAT 1226. Studies combinatorial methods, elementary probability, random 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)** Prerequisite: Passing score on Mathematics Proficiency Exam or completion of Arithmetic review. Registration Approval: School of Education. Includes the study of sets, numeration systems, arithmetic, algebra, number theory, probability and statistics and relates topics to the elementary school mathematics curriculum. Available for general education credit only to students in elementary education. Class not open to: Freshmen.

**MAT 2531 SURVEY OF MATHEMATICS II (2)** Registration Approval: School of Education. Prerequisite: MAT 2530 completed with a grade of C- or better. Includes topics from geometry and measurement, and relates topics to the elementary school mathematics curriculum. Available for general education credit only to students in elementary education. Class not open to: Freshmen.

**MAT 2720 DISCRETE MATHEMATICS (3)** Prerequisite: MAT 1226. Studies sets, logic, Boolean Algebra, relations, functions, and graphs.

**MAT 3401 NUMBER THEORY (3)** Prerequisites: MAT 1228, 2401, 2720. Studies topics of classical number theory including divisibility, primes, and congruences. Offered alternate years.

**MAT 3441 AXIOMATIC GEOMETRY (3)** Prerequisite: MAT 2401 and 2720. Surveys foundations of Euclidean, non-Euclidean, and projective geometries from an axiomatic base. Offered on alternate years.

**MAT 3443 TRANSFORMATIONAL GEOMETRY (3)** Prerequisites: MAT 2720 and 2401. Surveys Euclidean, non-Euclidean, and projective geometrics using a transformational approach. Offered on alternate years.

**MAT 3724 APPLIED ANALYSIS (3)** Prerequisites: MAT 1228 and 2228. Studies vector analysis, Fourier series, partial differential equations, boundary value problems, and special functions.

**MAT 3725 APPLIED ANALYSIS (3)** Prerequisite: MAT 3724. Studies vector analysis, Fourier series, partial differential equations, boundary value problems, and special functions. Offered alternate years.

**MAT 3730 COMPLEX VARIABLES (3)** Prerequisites: MAT 1228, 2228. Studies theory and applications of complex variables; analytic functions, integrals, and power series applications. Offered alternate years.

**MAT 3750 INTRODUCTION TO REAL ANALYSIS (3)** Prerequisites: MAT 1228, 2401, 2720. Explores finite and infinite sets, set algebra, well-ordered sets, real numbers, topology of the real line and plane, functions, limits, continuity, differentiation, the Riemann-Stieltjes integral.

**MAT 3751 INTRODUCTION TO REAL ANALYSIS (3)** Prerequisite: MAT 3750. Explores finite and infinite sets, set algebra, well-ordered sets, real numbers, topology of the real line and plane, functions, limits, continuity, differentiation, the Riemann-Stieltjes integral.

**MAT 4361 MATHEMATICAL STATISTICS (3)** Prerequisites: MAT 1228, 2228, and 2375 or permission of instructor. Surveys continuous probability distributions, sampling, estimating parameters, and testing hypotheses. Offered alternate years.

**MAT 4362 MATHEMATICAL STATISTICS (3)** Prerequisite: MAT 4361. Surveys continuous probability distributions, sampling, estimating parameters, and testing hypotheses. Offered alternate years.

**MAT 4402 MODERN ALGEBRA (3)** Prerequisite: MAT 3750. Studies algebraic structures including groups, rings, and fields. Attribute: Writing Course.

**MAT 4403 MODERN ALGEBRA (3)** Prerequisite: MAT 4402. Studies algebraic structures including groups, rings, and fields. Attribute: Writing Course.

**MAT 4610 THE EVOLUTION OF MATHEMATICAL THOUGHT (3)** Prerequisites: MAT 3750 and 4402 or permission of instructor. Investigates the ideas, methods and work of great mathematicians of the past. Attribute: Writing Course. Class not open to: Freshmen and Sophomores.

**MAT 4725 NUMERICAL ANALYSIS (5)** Prerequisites: MAT 1228 and 2228 or permission of instructor and knowledge of a computer language. Studies numerical integration, differentiation, solutions of systems of equations, solutions of differential equations, interpolation, approximations, and related topics. Offered alternate years.

**MAT 4830 MATHEMATICAL MODELING (5)** Prerequisites: MAT 1228, 2228, 2375, 2720 and knowledge of a computer language. Focuses on construction and analysis of mathematical models for problems in the real world. The problems will be chosen from a variety of fields, including the biological and social sciences. Offered alternate years.

**MAT 4904 INDEPENDENT STUDY IN MATHEMATICS (1-5)** Registration Approval: Independent Study Agreement. Prerequisites: 6 credits in upper-division mathematics. May be repeated for credit up to 6 credits. Class not open to: Freshmen and Sophomores.

**MAT 4910 MATHEMATICS SEMINAR (1)** Investigates topics of current interest through student reports. May be repeated for credit 5 times. Class not open to: Freshmen and Sophomores.

**MAT 4915 SENIOR PROBLEMS SEMINAR (1)** Class not open to: Freshmen, Sophomores and Juniors.

**MAT 4930 PRACTICUM IN MATHEMATICS (1-2)** Registration Approval: Instructor. Practical experience in the Math Lab. May be repeated for credit up to 4 credits. Class not open to: Freshmen and Sophomores.

**MAT 4940 INTERNSHIP IN MATHEMATICS (1-5)** Registration Approval: Intern Learning Contract Req. Provides a significant learning experience to be obtained in a closely supervised work-study program. May be repeated for credit up to 15 credits. Class not open to: Freshmen, Sophomores and Juniors.

**MAT 4950 SPECIAL TOPICS IN MATHEMATICS (1-3)** May be repeated for credit up to 6 credits. Class not open to: Freshmen and Sophomores.

Music

Vernon Wicker, *Chair*; David Anderson, Myrna Capp, James Denman, John Goux, Eric Hanson, Ramona Holmes, Wayne Johnson, Wadad Saba, Richard Skerlong, 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 skills appropriate to the various emphases in the degree, and (3) to recognize the interrelationship between music and the other creative arts.

SPU is an accredited institutional member of the National Association of Schools of Music.

Career Opportunities

Students majoring in music have the advantage of a strong music major within a liberal arts setting. Students majoring in music education are prepared to teach music in the elementary and secondary schools. Other emphases in music train people to use their gifts as performers, composers, and as private studio teachers. Other programs prepare students for advanced study in performance, theory and literature.

Music Ensemble Opportunities

Many music ensembles are available to SPU students. In the course listings, ensembles are in the 2000/4000 series and course descriptions and requirements may be found there. All ensemble courses carry regular University credit and most require an audition or permission of the instructor for enrollment.

GPA Admission Requirement

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

General Requirements for All Music Majors

(48-51 credits)  
[Refer to page 52 for a summary of degree requirements]  
MUS 1101 Musicianship I: Materials and Structure ..... 5  
MUS 1102 Musicianship I: Materials and Structure ..... 5  
MUS 1103 Musicianship I: Materials and Structure ..... 5

MUS 2101 Musicianship II: Materials and Structure ..... 4  
MUS 2102 Musicianship II: Materials and Structure ..... 4  
MUS 2103 Musicianship II: Materials and Structure ..... 4  
MUS 2601 Survey of Music Literature I ..... 3  
MUS 2602 Survey of Music Literature II ..... 3  
MUS 2603 Survey of Music Literature III ..... 3  
Individual Instruction in a major performance area ..... 6  
Piano proficiency ..... \*0-3  
Ensemble\*\* ..... 6  
**Total ..... 48-51**  
*\*Piano proficiency is required by the junior year. Students who are enrolled in Musicianship I or II and who are identified as needing remedial keyboard skills may be required to enroll in Music 1254, 1255 or 1256 until the keyboard proficiency exam (required of all majors) 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.*

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, K-12 Teaching Emphasis

(87-93 Credits)  
Anyone majoring in K-12 music education also must complete education courses and internship requirements for certification. See requirements in School of Education section of the Catalog.

**General requirements for all majors ..... 48-51**  
In addition to piano proficiency, every music education major must meet guitar proficiency.

Additional requirements:

**Music education core**  
(9 Credits)  
MUS 2250 Foundations of Music Education ..... 3  
MUS 3503 General Music Methods and Materials ..... 3  
MUS 4655 Context Studies in Music: World Music ..... 3

Teaching options (Select one of the three)

**A. Combined choral/instrumental option**  
(30-31 Credits)  
MUS 1260 Beginning Voice\* ..... 1  
MUS 2501 Brass Techniques ..... 1  
MUS 2502 Percussion Techniques ..... 1  
MUS 2503 String Techniques ..... 2  
MUS 2504 Woodwind Techniques ..... 1  
MUS 3504 Choral Music Methods and Materials I ..... 2  
MUS 3505 Instrumental Music Methods and Materials I ..... 2  
MUS 3603 Choral Literature ..... 2  
MUS 3604 Instrumental Literature ..... 2  
MUS 4101 Instrumentation and Orchestration (3) or MUS 4102 Choral Arranging (2) ..... 2-3  
MUS 4701 Choral Conducting I ..... 3  
MUS 4702 Instrumental Conducting I ..... 3  
MUS 4262 Vocal Pedagogy and Techniques ..... 2  
See music performance requirement ..... 6  
*\*Individual vocal instruction may be substituted. This will apply toward Musical Performance.*

**B. Choral/vocal option**  
(33 Credits)  
**Instrumental concepts**  
MUS 2501 Brass Techniques ..... 1  
MUS 2502 Percussion Techniques ..... 1  
MUS 2503 String Techniques ..... 1  
MUS 2504 Woodwind Techniques ..... 1  
MUS 3505 Instrumental Music Methods and Materials I ..... 2

**Choral concepts**  
MUS 3504 Choral Music Methods and Materials I ..... 2  
MUS 3514 Choral Music Methods and Materials II ..... 2  
MUS 3603 Choral Literature ..... 2  
MUS 4102 Choral Arranging ..... 2  
MUS 4701 Choral Conducting I ..... 3  
MUS 4703 Choral Conducting II ..... 3

**Vocal concepts**  
MUS 2260 Singers Art I ..... 3  
MUS 2261 Singers Art II ..... 3  
MUS 4262 Vocal Pedagogy and Techniques ..... 2  
MUS 1260 Beginning Voice Class\* ..... 2  
See music performance requirement ..... 3  
*\*Individual vocal instruction may be substituted.*

C. Instrumental option (30 Credits)

**Choral concepts**  
MUS 3504 Choral Music Methods and Materials I ..... 2  
MUS 1260 Beginning Voice Class ..... 2

**Instrumental concepts**  
MUS 2501 Brass Techniques ..... 1  
MUS 2502 Percussion Techniques ..... 1  
MUS 2503 String Techniques ..... 1  
MUS 2504 Woodwind Techniques ..... 1  
MUS 3505 Instrumental Music Methods and Materials I ..... 2  
MUS 3515 Instrumental Music Methods and Materials II ..... 2  
MUS 3604 Instrumental Literature ..... 2  
MUS 4101 Instrumentation and Orchestration ..... 3  
MUS 4702 Instrumental Conducting I ..... 3  
MUS 4704 Instrumental Conducting II ..... 3  
See music performance requirement ..... 6

**Music performance:** In addition to the 3-6 credits required of all majors. Select from the following options:  
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 individual instruction, of which 3 credits minimum must be upper-division. One half hour recital.  
3. Vocal: 3 credits minimum of individual instruction. 3 credits of individual instruction must be upper-division. One half hour recital.

**II. Requirements for Performance Emphasis**  
(72-82 Credits)  
Audition is required for entry into any music performance program and for all individual instruction.  
**General requirements for all majors ..... 48-51**

**Emphasis options** (Select one of the three)**A. Percussion, string, wind performance option**

(24 Credits)

Context Studies in Music .....	9
(Select from MUS 4654, 4655, 4656; topics change yearly)	
Individual Instruction (in addition to the 6 credits required of all majors) .....	15
(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.	

**B. Piano performance option**

(31 Credits)

MUS 3506 Piano Pedagogy I .....	2
MUS 3507 Piano Pedagogy II .....	2
MUS 3601 Survey of Piano Literature .....	3
Context Studies in Music .....	9
(Select from MUS 4654, 4655, 4656; topics change yearly)	
Individual Instruction (in addition to the 6 credits required of all majors) .....	15
(12 upper-division required)	
Ensemble: (see general requirements for all majors) (4 credits of Keyboard Ensemble/Accompanying required)	
Accompanying: All students with an emphasis in piano performance and all piano scholarship recipients are required to do one hour of studio accompanying per week. See complete policy in the <i>Music Handbook</i> .	
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, .....	3
MUS 2261 The Singer's Art II .....	3
MUS 4261 Sacred Vocal Repertoire .....	3
MUS 4262 Vocal Pedagogy/Techniques .....	2
Context Studies in Music .....	6
(Select from MUS 4654, 4655, 4656; topics change yearly)	
Individual Instruction (in addition to the 6 credits required of all majors) .....	12
(10 upper-division required)	
Ensemble: (see general requirements for all majors)	
Recitals: One half hour junior solo recital and one full hour senior solo recital.	

**III. Requirements for Piano Pedagogy Emphasis**

(84-87 Credits)

**General requirements for all majors** ..... 48-51**Additional requirements**

(36 credits)

MUS 3506 Piano Pedagogy I .....	2
MUS 3507 Piano Pedagogy II .....	2
MUS 3508 Piano Pedagogy III .....	2
MUS 3601 Survey of Piano Literature .....	3
Context Studies in Music .....	6
(Select from MUS 4654, 4655, 4656; topics change yearly)	
MUS 4920 Directed Readings in Piano Pedagogy or MUS 4960 Special Projects in Music .....	1
PSY 3460 Child Developmental Psychology .....	5
Individual Instruction (in addition to the 6 credits required of all majors) .....	15

(6 upper-division required; juries are required)  
 Ensemble: (see general requirements for all majors)  
 (4 credits of Keyboard Ensemble/Accompanying required)

**IV. Requirements for Theory and Literature Emphasis**

(78-86 Credits)

**General requirements for all majors** ..... 48-51**Additional requirements**

(30-35 Credits)

Context Studies in Music .....	12
(Select from MUS 4654, 4655, 4656; topics change yearly)	
Individual Instruction .....	9
Ensembles: (see general requirements for all majors)	
Emphasis options (Select one of the two)	

**A. Composition option**

MUS 3608 Music Technology Applications .....	5
MUS 4100 Composition .....	9
(These credits to be distributed over at least three quarters and culminating in senior composition)	

**B. Music theory and literature option**

Context Studies in Music .....	3
(Select from MUS 4654, 4655, 4656 in addition to those required above)	
MUS 4921 Directed Readings in Music .....	6
(These credits to be distributed over at least two quarters and culminating in a senior paper.)	

**V. Requirements for General Emphasis**

(73-76 Credits)

**General requirements for all majors** ..... 48-51**Additional requirements**

Upper-division music electives ..... 25

**Requirements for the Music Minor**

(45 Credits; 15 upper-division)

MUS 1101, 1102, 1103 Musicianship: Materials and Structure .....	15
MUS 2601, 2602, 2603 Music History and Literature .....	9
Ensemble participation .....	3
Individual instruction .....	3
Music electives to complete 45 credits .....	15
<b>Total</b> .....	<b>45</b>

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

**Fees in Applied Music**

For fees in applied music see the Cost section of the Catalog.

**Music Courses****MUS 1101 MUSICIANSHIP I: MATERIAL AND STRUCTURE**

(5) Deals with basic musical skills of listening, analysis, improvisation, movement, conducting, writing, performance and historical understanding of music. Students will participate in lecture and laboratory settings including computer assisted instruction. Must begin in autumn quarter. Extra fee.

**MUS 1102 MUSICIANSHIP I: MATERIAL AND STRUCTURE**

(5) Prerequisite: MUS 1101. Students having prior music theory training may fulfill prerequisite by examination. Request challenge examination prior to fall quarter. Deals with basic musical skills of listening, theory and analysis, writing, improvisation, movement, conducting, performance and historical understanding of music. Students will participate in lecture and laboratory settings including computer assisted instruction. Extra fee.

**MUS 1103 MUSICIANSHIP I: MATERIAL AND STRUCTURE**

(5) Prerequisites: MUS 1101 and 1102. Deals with basic musical skills of listening, theory and analysis, improvisation, movement, conducting, writing, performance and historical understanding of music. Students will participate in lecture and laboratory settings including computer assisted instruction. Extra fee.

**MUS 1250 BEGINNING KEYBOARD CLASS (2)**

For students with no previous keyboard experience. Ability to read music is not necessary. Course is designed for the non-music major, and expectations for each student are based on individual needs. Emphasis is on note-reading, basic theory, chord usage and technical development. Extra fee. May be repeated for an unlimited number of credits. Class not open to: Music majors and Music Education majors.

**MUS 1251 INTERMEDIATE KEYBOARD CLASS (2)**

For students with at least two years prior training in piano. Course is designed for the non-music major, and expectations for each student are based on individual needs. Emphasis is on note-reading, basic theory, chord usage, repertoire, technical development and creative activities. Extra fee. May be repeated for an unlimited number of credits. Class not open to: Music Education majors and Music majors.

**MUS 1252 ADVANCED KEYBOARD CLASS (2)**

For students with four or more years of piano background. Course is designed for the non-music major, and expectations for each student are based on individual needs. Emphasis is on basic theory, chord usage, repertoire and technical development. Extra fee. May be repeated for an unlimited number of credits. Class not open to: Music Education majors and Music majors.

**MUS 1254 BEGINNING KEYBOARD 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. Restricted to music majors or intended majors only. Extra fee. May be repeated for an unlimited number of credits. Class open to: Music Education majors and Music majors.

**MUS 1255 INTERMEDIATE KEYBOARD PROFICIENCY (2)**

For students with at least two years prior training in piano. Sight-reading, harmonization, transposing, technical development and creative activities will be emphasized in order to meet piano proficiency requirements. Extra fee. May be repeated for an unlimited number of credits. Class open to: Music majors and Music Education majors.

**MUS 1256 ADVANCED KEYBOARD PROFICIENCY (2)**

For students with four or more years of piano background. Sight-reading, 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 Education majors and Music majors.

**MUS 1260 BEGINNING VOICE CLASS (2)**

Two class sessions per week. Emphasis is on basic vocal technique: breath control, tone placement, diction, and stage presence. Music includes classical, folk, and American music. Extra Fee. Includes classical, folk and American musical theatre. Extra fee. Extra fee. May be repeated for an unlimited number of credits.

**MUS 1261 ADVANCED VOICE CLASS (2)**

Registration Approval: Instructor. Prerequisite: 1 credit of MUS 1260 or equivalent. Emphasis is on developing vocal technique through the use of vocalises and art songs. Extra fee. May be repeated for an unlimited number of credits.

**MUS 1270 BEGINNING FOLK GUITAR (1)**

Introduction to folk style guitar playing. May be taken by music education majors to meet guitar proficiency. Extra fee. May be repeated an unlimited number of times.

**MUS 1271 INTERMEDIATE FOLK GUITAR (1)**

Prerequisite: MUS 1270. Extra fee. May be repeated for credit 3 times.

**MUS 1600 EXPLORING AND UNDERSTANDING MUSIC (5)**

The focus is on the pleasure of listening with understanding, using individual, classroom and concert experiences. Introduces basic elements of music as preparation for enjoying masterworks in the European tradition, from medieval times to our own time. Encourages development of listening skills and knowledge of music available in our city. Class not open to: Music majors.

**MUS 2101 MUSICIANSHIP II: MATERIALS AND STRUCTURE**

(4) Prerequisite: MUS 1103. Continued integrated study of musical elements as in Musicianship I emphasizing 16th and 18th century counterpoint. Skills of composition, aural dictation, improvisation, use of technology and analysis will be developed. Emphasis

is on developing understanding of and compositional experience with larger musical forms. Extra fee. Corequisite: MUS 2601.

**MUS 2102 MUSICIANSHIP II: MATERIALS AND STRUCTURE**

(4) Prerequisite: MUS 2101. Continued integrated study of musical elements as in Musicianship I emphasizing chromatic harmony and modulation. Skills of composition, aural dictation, improvisation, use of technology and analysis will be developed. Emphasis is on developing understanding of and compositional experience with larger musical forms. Extra fee. Corequisite: MUS 2602.

**MUS 2103 MUSICIANSHIP II: MATERIALS AND STRUCTURE**

(4) Prerequisite: MUS 2102. Continued integrated study of musical elements as in Musicianship I emphasizing chromatic harmony, modulation and 20th century techniques. Analytical studies include introductions to Schenkerian theory and to basic atonal theory. Skills of composition, aural dictation, improvisation, use of technology and analysis will be developed. Emphasis is on developing understanding of and compositional experience with larger musical forms. Extra fee. Corequisite: MUS 2603.

**MUS 2260 THE SINGER'S ART I (3)**

Prerequisite: 3 credits of MUS 1260, 1261 or 3 credits of MUS 2219. A study and application of the principles of artistic performance, with special emphasis on English and Italian diction and repertoire. Prerequisite to upper-division credit in voice.

**MUS 2261 THE SINGER'S ART II (3)**

Prerequisite: MUS 2260. The study and performance of the German and French vocal repertoire of the 19th and 20th centuries. Special attention will be given to diction, style and interpretation. Prerequisite to upper division in voice.

**MUS 2501 BRASS TECHNIQUES (1)** Designed for music education majors. Students learn how to teach the various brass instruments. Emphasis on demonstration of good tone and diagnosis of student problems in a lab setting. Offered alternate years. Class not open to: Freshmen.

**MUS 2502 PERCUSSION TECHNIQUES (1)** Designed for music education majors. Students learn how to teach the percussion instruments. Offered alternate years. Class not open to: Freshmen.

**MUS 2503 STRING TECHNIQUES (1)** (1 credit in each of 2 quarters) May be taken for 2 quarters. Designed for music education majors. Students learn how to teach string instruments. May be repeated for credit 1 time. Class open to: Music majors. Class not open to: Freshmen.

**MUS 2504 WOODWIND TECHNIQUES (1)** Designed for music education majors. Students learn how to teach the woodwind instruments. Emphasis on demonstration of good tone and diagnosis of student problems in a lab setting. Offered alternate years. Class not open to: Freshmen.

**MUS 2550 FOUNDATIONS OF MUSIC EDUCATION (3)**

Exploration of the philosophy of music education, the needs of society and of the learner, the nature of musical learning, the content of music curriculum, structuring for music learning and management of the learning environment. May be taken prior to or concurrently with upper-division methods courses. Class open to: Music Education majors.

**MUS 2601 SURVEY OF MUSIC LITERATURE I (3)**

A chronological study of the development of Western art music from the early Medieval period through the Baroque Era.

**MUS 2602 SURVEY OF MUSIC LITERATURE II (3)**

A chronological study of the development of Western art music in the Classical Period and the Romantic Period through Richard Wagner.

**MUS 2603 SURVEY OF MUSIC LITERATURE III (3)**

Surveys music of the late Romantic period to the present.

**MUS 2604 SOUNDSCAPE (5)** This course explores a wide range of music including vernacular and art music of Western and non-Western cultures. Students gain skills in listening to music from diverse cultures, develop understanding of the influence of cultural and historical context of those musics and learn how those traditions can be experienced today in the city of Seattle. Class not open to: Music majors.

**MUS 2605 SURVEY OF POPULAR MUSIC (5)** A survey of popular music in America, its development, variety and influences on American culture. Emphasis is on listening, styles and the elements of musical notation, terminology, and form. Class not open 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 may include Asia, Eastern Europe and the Middle East. Corequisite: MUS 2655.

**MUS 2655 WORLD MUSIC LABORATORY (2)** Provides practical hands-on experience in performing on instruments used in music from sub-Saharan Africa, Eastern Europe, the Middle East, East Asia, Southeast Asia, Indonesia and the Philippines. Corequisite: MUS 2654.

**MUS 3401 MUSIC AND WORSHIP (2)** A study of the philosophical, biblical and theological relationships of music to worship in the Christian Church. May be repeated for credit up to 6 credits.

**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 class. Designed for future classroom teachers. May be taken towards General Education Fine Arts Options credit. Class not open to: Music majors. Class not open to: Freshmen and Sophomores.

**MUS 3501 ELEMENTARY METHODS AND MATERIALS (3)** Prerequisite: Concurrent enrollment or completion of MUS 3500. This class covers basic approaches to teaching music in the elementary classroom for the regular classroom teacher. It focuses on music as a content area and music as it relates to arts in basic education. Elementary education certification students may take MUS 3501 toward General Education Fine Arts Options credit. Class not open to: Music majors. Class not open to: Freshmen and Sophomores.

**MUS 3502 MUSIC IN SPECIAL EDUCATION (3)** Prerequisite: Concurrent enrollment in or completion of MUS 3500. This course centers on methods for dealing with music and related arts with children who have special needs. Materials for use with children are developed. This course is designed for special education majors. Elementary education certification students may take MUS 3502 toward General Education Fine Arts Options credits. Class not open to: Freshmen and Sophomores.

**MUS 3503 GENERAL MUSIC METHODS AND MATERIALS (3)** Prerequisite: MUS 2550. A survey of methods for instruction in elementary classroom music and secondary general music programs. Includes exposure to current materials available for instruction in those settings and preparation of materials appropriate to age levels. Class open to: Music Education majors and Fine & Applied Arts majors. Class not open to: Freshmen and Sophomores.

**MUS 3504 CHORAL MUSIC METHODS AND MATERIALS I (2)** Prerequisite: MUS 2550 or permission of instructor. A survey of the teaching methods, rehearsal techniques, and choral organization from the elementary school chorus through the adult choir. Emphasis is on development of diagnostic rehearsal skills through special class projects and survival skills for the beginning choral director. Offered alternate years. Class open to: Music Education majors. Class not open to: Freshmen and Sophomores.

**MUS 3505 INSTRUMENTAL MUSIC METHODS AND MATERIALS I (2)** Prerequisite: MUS 2550. A survey of the instrumental music program, grades 5-12. Emphasis is on examination of appropriate teaching materials, teaching methods for various program levels, program planning and development, and evaluation of learner progress. Experience in planning and presenting model learning experiences in instrumental music is provided. Offered alternate years. Class open to: Music Education majors. Class not open to: Freshmen and Sophomores.

**MUS 3506 PIANO PEDAGOGY I (2)** Emphasis is upon developing a philosophy of music teaching, at the primary to intermediate levels. Includes an examination of ideas and theories about learning and teaching, observation of teaching, the study of teaching strategies and literature, student teaching and use of music technology. Offered alternate years. Attribute: Writing Course.

**MUS 3507 PIANO PEDAGOGY II (2)** Prerequisite: MUS 3506. Continued emphasis upon developing a philosophy of music teaching. An examination of ideas and theories about learning and teaching at the intermediate college level. Includes observation of teaching, study of teaching strategies and literature, student teaching, and use of music technology. Offered alternate years. Attribute: Writing Course.

**MUS 3508 PIANO PEDAGOGY III (2)** Prerequisite: MUS 3507. Continued emphasis upon developing a philosophy of music teaching. Seminar on pedagogical topics. Supervised student teaching. Use of videotape. Offered alternate years.

**MUS 3514 CHORAL METHODS AND MATERIALS II (2)** Prerequisites: MUS 2250, 3504. An in-depth study of the methods and techniques of the choral rehearsal; this course provides background for teaching vocal jazz. Emphasis is given to understanding the choral instrument. Designed for Music Education majors. Offered alternate years. Class not open to: Freshmen and Sophomores.

**MUS 3515 INSTRUMENTAL METHODS AND MATERIALS II (2)** Prerequisite: MUS 3505. Continuation of MUS 3505. Designed for Music Education majors. Offered alternate years. Class not open to: Freshmen and Sophomores.

**MUS 3601 SURVEY OF PIANO LITERATURE (3)** A chronological study of piano literature from the 18th century to the present. Includes analysis of representative compositions, performance practices and styles of the periods involved. Offered alternate years.

**MUS 3602 THE MAGIC OF OPERA (5)** An in-depth study of selected masterpieces of standard operatic repertoire from an historical and aesthetic perspective. Ideas and themes of operas are related to social, moral, political and religious issues confronting individuals in society. Attendance at live opera productions is a part of class activity. Offered alternate years. Class not open to: Freshmen and Sophomores.

**MUS 3603 CHORAL LITERATURE (2)** Prerequisites: MUS 1101, 1102, 1103. A survey of choral music representing historical forms, eras and styles. Emphasis is on literature appropriate for choirs in grades 5-12. Consideration given for balance in programming. Offered alternate years. Class not open to: Freshmen and Sophomores.

**MUS 3604 INSTRUMENTAL LITERATURE (2)** Prerequisites: MUS 1101, 1102, 1103. A survey of instrumental music appropriate for performance by groups in grades 5-12. Class not open to: Freshmen and Sophomores.

**MUS 3608 MUSIC TECHNOLOGY APPLICATIONS (5)** Prerequisite: Elementary piano playing skill, 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 FINALE notation software with an emphasis on task-specific solutions ranging from basic to advanced applications. Additionally, student lessons will include desktop publishing and MIDI sequencing software applications. Extra Fee. May be repeated for credit 2 times.

**MUS 4100 COMPOSITION (1-3)** Prerequisites: MUS 2103 or permission of instructor. Through basic skill-building exercises this course teaches musical composition in accordance with stated aesthetic values. Students move through levels of increasing complexity and self-initiation. May be repeated for credit up to 9 credits.

**MUS 4101 INSTRUMENTATION AND ORCHESTRATION (3)** Prerequisite: MUS 2103. A study of the history, technical limitations and use of orchestral instruments. Practical experience in arranging for various combinations of instruments is provided. Offered alternate years. Class not open to: Freshmen and Sophomores.

**MUS 4102 CHORAL ARRANGING (2)** Prerequisites: MUS 1101, 1102, 1103. A study of the basics regarding the use of voices in choral music and methods of arranging music for them. Practical experience in arranging for various choral ensembles is provided. Offered alternate years. Class not open to: Freshmen and Sophomores.

**MUS 4261 SACRED VOCAL REPERTOIRE (3)** Registration Approval: Instructor. Prerequisites: MUS 1260, 2219. A study of some of the great sacred solo vocal repertoire. Special attention will be given to solo cantata and oratorio literature. Class not open to: Freshmen and Sophomores.

**MUS 4262 VOCAL PEDAGOGY AND TECHNIQUES (2)** Registration Approval: Instructor. Prerequisites: MUS 1260, 2219. This course is designed to explore and understand the nature of the singing voice and methods of vocal instruction. Class not open to: Freshmen and Sophomores.

**MUS 4401 THE SONG OF THE CHURCH (3)** A study of congregational singing including its history, its genre, its criticism and its effective use in the worship service.

## CONTEXT STUDIES IN MUSIC 4654-4656

These courses involve an integrative approach to advanced musicianship while dealing in-depth with selected topics. The process includes reading, writing, listening, analysis, composition, improvisation and computer notation. Topics change yearly.

**MUS 4654 CONTEXT STUDIES IN MUSIC: THE CANTATA (3)** Prerequisites: MUS 1101, 1102, 1103, 2601, 2602 and 2603. This course focuses on the development of the cantata from its solo vocal beginning during the early Baroque in Italy to the Reformed Cantata under J.S. Bach and his German contemporaries at the threshold of the Viennese Classical era. Solo vocal and choral works are considered, including their solo instrumental and orchestral music. Liturgical and socio-cultural factors are a part of the study. Topics change yearly. May be repeated for credit 3 times. Attribute: Writing Course. Class open to: Music majors. Class not open to: Freshmen and Sophomores.

**MUS 4655 CONTEXT STUDIES IN MUSIC: AFRICAN MUSIC (3)** Prerequisites: MUS 1101, 1102, 1103, 2601, 2602 and 2603. This course focuses on the music of Africa. It addresses key issues of cultural-historical context, style, non-western instruments, and the use of technology. It encourages multicultural awareness and includes activities of listening, analysis, movement, sight-singing, transcription, improvisation, and performance. Includes participation in an African percussion ensemble. Topics change yearly. May be repeated for credit 2 times. Attribute: Writing Course. Class open to: Music majors. Class not open to: Freshmen and Sophomores.

**MUS 4656 CONTEXT STUDIES IN MUSIC: MUSICA DA CAMERA (3)** Prerequisites: MUS 1101, 1102, 1103, 2601, 2602 and 2603. This study focuses on the development of specific chamber music genres, e.g., the Trio Sonata, String Quartet and Quintet, Piano Trio, Quartet and Quintet, and the Woodwind Quintet across three centuries with special attention to outstanding exemplars. Emphasis will be on participation. Students will practice skills of listening, performing, writing in a style and putting music into historical contexts. Topics change yearly. May be repeated for credit 3 times. Class open to: Music majors. Class not open to: Freshmen and Sophomores.

**MUS 4701 CHORAL CONDUCTING I (3)** Prerequisites: MUS 1101, 1102, 1103. A course designed to develop advanced choral conducting skill and techniques. Class not open to: Freshmen and Sophomores.

**MUS 4702 INSTRUMENTAL CONDUCTING I (3)** Prerequisite: MUS 1101, 1102, 1103 or equivalent. A course designed to teach elementary score reading, baton techniques, instrumentation, and conducting with an instrumental emphasis. Offered alternate years. Class not open to: Freshmen and Sophomores.

**MUS 4703 CHORAL CONDUCTING II (3)** Prerequisites: MUS 1101, 1102, 1103 and either MUS 4701 or 4702 or permission of instructor. Advanced choral conducting techniques are emphasized, including topics such as recitative, working with instruments, reading complex scores, etc. Class not open to: Freshmen and Sophomores.

**MUS 4704 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 open to: Freshmen and Sophomores.

**MUS 4920 DIRECTED READINGS IN MUSIC EDUCATION (1-3)** Registration Approval: Independent Study Agreement. Independent study in music education. May be repeated for credit up to 9 credits. Class not open to: Freshmen and Sophomores.

**MUS 4921 DIRECTED READINGS IN MUSIC HISTORY (1-3)** Registration Approval: Independent Study Agreement. Independent study in music history. May be repeated for credit up to 9 credits. Class not open to: Freshmen and Sophomores.

**MUS 4941 CHORAL CONDUCTING INTERNSHIP (3-5)** Registration Approval: Intern Learning Contract Req. An opportunity for qualified choral conducting students to gain additional proficiency and experience while working with an advanced ensemble. May be repeated for credit up to 10 credits. Class not open to: Freshmen and Sophomores.

**MUS 4942 INSTRUMENTAL CONDUCTING INTERNSHIP (3-5)** Registration Approval: Intern Learning Contract Req. An opportunity for qualified instrumental conducting students to gain additional proficiency and experience while working with an advanced ensemble. May be repeated for credit up to 10 credits. Class 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 to 10 credits. Class not open to: Freshmen and Sophomores.

**MUS 4950 SPECIAL TOPICS IN MUSIC (2-5)** Registration Approval: Instructor. Topic and credits to be announced in Time Schedule when offered. Topics are offered usually only once and only upon evidence of significant student interest. Topics might include the music of a specific composer, time, or culture; the pedagogy of a particular teacher or methodology; or techniques of a certain approach to performance. May be repeated for credit up to 10 credits. Class open to: Music majors. Class not open to: Freshmen and Sophomores.

**MUS 4960 SPECIAL PROJECTS IN MUSIC (1-5)** Registration Approval: Instructor. May be repeated for credit up to 10 credits. 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 listed in this series. Except as otherwise noted, courses may be repeated for an unlimited number of credits. Upper-division courses are open to fine arts majors and are not open to freshmen or sophomores. An extra fee is charged for all courses.

**MUS 2201/4201 INDIV. INSTR.-FLUTE (1-2)**

**MUS 2202/4202 INDIV. INSTR.-OBOE (1-2)**

**MUS 2203/4203 INDIV. INSTR.-CLARINET (1-2)**

**MUS 2204/4204 INDIV. INSTR.-BASSOON (1-2)**

**MUS 2205/4205 INDIV. INSTR.-TRUMPET (1-2)**

**MUS 2206/4206 INDIV. INSTR.-HORN (1-2)**

**MUS 2207/4207 INDIV. INSTR.-TROMBONE (1-2)**

**MUS 2208/4208 INDIV. INSTR.-BARITONE (1-2)**

**MUS 2209/4209 INDIV. INSTR.-TUBA (1-2)**

**MUS 2210/4210 INDIV. INSTR.-PERCUSSION (1-2)**

**MUS 2211/4211 INDIV. INSTR.-VIOLIN (1-2)**

**MUS 2212/4212 INDIV. INSTR.-VIOLA (1-2)**

**MUS 2213/4213 INDIV. INSTR.-VIOLINCELLO (1-2)**

**MUS 2214/4214 INDIV. INSTR.-DOUBLE BASS (1-2)**

**MUS 2215/4215 INDIV. INSTR.-HARP (1-2)**

**MUS 2216/4216 INDIV. INSTR.-ORGAN (1-2)**

**MUS 2217/4217 INDIV. INSTR.-PIANO (1-2)**

**MUS 2219/4219 INDIV. INSTR.-VOICE (1-2)**

Prerequisites: MUS 1260, 1261. Majors and scholarship recipients may be exempt from the prerequisites. Vocal instruction for non-majors beyond 6 credits will be met through MUS 2260, 2261, 2262. May be repeated for credit up to 6 credits.

**MUS 2220/4220 INDIV. INSTR.-CLASSICAL GUITAR (1-2)**

**MUS 2221/4221 INDIV. INSTR.-SAXOPHONE (1-2)**

**MUS 2223/4223 INDIV. INSTR.-JAZZ GUITAR (1-2)**

## Ensemble Series

Permission of instructor and audition are required to register for all courses listed in this series. Courses may be repeated for an unlimited number of credits. Upper-division courses are not open to freshmen or sophomores.

**MUS 2303/4303 SEATTLE PACIFIC SINGERS (1)** Selected scholarship performing group that represents the University in various public relations endeavors.

**MUS 2304/4304 CHAMBER SINGERS (1)**

**MUS 2305/4305 WOMEN'S CHOIR (2)** A choral ensemble of women. Participates in major choral concerts throughout the year. Occasional performances for chapels, at the annual service of Lessons and Carols, and at selected churches and community organizations as an outreach of the University.

**MUS 2306/4306 BRASS ENSEMBLE (1)**

**MUS 2307/4307 PERCUSSION ENSEMBLE (1)**

**MUS 2308/4308 WOODWIND ENSEMBLE (FLUTE CHOIR) (1)**

**MUS 2309/4309 STRING ENSEMBLE (1)**

**MUS 2310/4310 KEYBOARD ENSEMBLE/ACCOMPANYING (1)** Emphasis on piano duet and two-piano literature as well as accompanying skills.

**MUS 2311/4311 JAZZ ENSEMBLE (1)** An organization of up to 17 instrumentalists which specializes in the preparation, study and performance of music from the jazz literature.

**MUS 2312/4312 MEN'S CHOIR (2)** A choral ensemble of men. Participates in major choral concerts throughout the year. Occasional performances for chapels, at the annual service of Lessons and Carols, and at selected churches and community organizations as an outreach of the University.

**MUS 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.  
**MUS 2351/4351 SYMPHONIC WIND ENSEMBLE (2)** As a group of selected wind and percussion players, this ensemble provides an opportunity for in-depth experience in the performance of wind ensemble and band repertoire.  
**MUS 2353/4353 SYMPHONY ORCHESTRA (2)** An ensemble of strings with selected woodwinds, brass and percussion instruments, performing works from the extensive orchestral literature.  
**MUS 2360/4360 OPERA WORKSHOP (1-2)** Practical experience 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, preferably before third year, which 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 professionals who are in various stages of training and practice; a record or diary of these experiences; a personal report of impressions and perceptions that is to be submitted; readings which emphasize ethical questions and dilemmas. Extra fee.  
**NMS 4525 ENVIRONMENTAL EDUCATION FOR ELEMENTARY AND MIDDLE SCHOOL TEACHERS (3)** Gives ideas for outdoor activities, classroom activities, field trips, regional environmental resources, readings, teaching strategies, discussions. Offered summers only. Course Equivalent: EDSC 4566.

## Nursing

See School of Health Sciences section.

## Philosophy

**Daniel Howard-Snyder, Chair; Phillip Goggans, C. Stephen Layman, Michael Macdonald**  
Philosophy is the attempt to answer certain persistent human questions. These questions fall into three traditional groups: axiology (the theory of value), metaphysics (the theory of being), and epistemology (the theory of knowledge). Characteristic questions include "What is good?," "What is real?," and "What is knowledge and how can 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 theology), learn about the history of thought, and develop analytical skills that can be applied to any other field. Philosophy majors often train for careers in law, the ministry, and education, but philosophers are also found in most other professional fields.  
Serious students in all majors are encouraged to consider philosophy as a second major.

### Admission to the Major

Applicants for a major in philosophy must display a cumulative GPA of 2.5 or higher (4.0=A) in all college work applicable to the degree or 3.0 in the 45 credits immediately preceding application to the major.

### Requirements for the Philosophy Major

(55 Credits; 25 upper-division)  
*[Refer to page 52 for a summary of degree requirements.]*

#### Introductory Course

PHI 1100/3100 Faith and Philosophy ..... 5

#### History Courses

PHI 3601 Ancient Philosophy ..... 5

PHI 3621 Empiricism ..... 5

PHI 3631 Rationalists and Kant ..... 5

#### Systematic Courses

PHI 2231 Logic I ..... 3

PHI 2232 Logic II ..... 3

PHI 3310 Theories of Knowledge ..... 5

PHI 3701 Theories of Ethics ..... 3

Select one course from the following:  
PHI 3311 Metaphysics (5)  
PHI 3641 Twentieth Century Philosophy (5) ..... 5

**Elective Courses\*** ..... 16

**Total** ..... 55

\* HIS 3435 may be included in elective courses.

Students who choose philosophy as a second major must earn a total of 50 credits, 25 of which must be upper-division. The distribution of the 50 credits among the various areas is similar to the above; however, the student may omit 5 credits from the history, systematic or elective courses with the approval of the philosophy faculty.

All students who complete the philosophy major must be proficient in a foreign language. Proficiency is established upon satisfactory completion of the third quarter of a first year college-level foreign language or its equivalent. For alternative ways of satisfying this requirement, see the general education section of the Catalog. Language proficiency is not satisfied as part of the community college direct transfer degree unless the transcript records the completion of foreign language coursework.

### Requirements for the Philosophy Minor

(30 Credits; 15 upper-division)

#### Introduction

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) ..... 5

#### Systematic Course

PHI 2231 Logic I ..... 3

**Electives** ..... 17

**Total** ..... 30

### Philosophy Courses

#### Introductory

All students should take one of the introduction courses below as a prerequisite for courses listed under history, systematic and elective areas. Each introduction course below (PHI 1100/3100) meets the 5 credit foundations requirement in Christian Perspectives.

**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 questions about God and ethics, e.g., Can God's existence be proven? Why does God permit evil? Is God the source of all moral value? How does one determine whether an act is right or wrong.

**PHI 2231 LOGIC I (3)** An introduction to the theory and practice of critical thinking. Emphasizes informal logical tools, e.g., identifying arguments, recognizing argument forms, detecting fallacies and constructing good definitions. Some elementary symbolic 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.

**PHI 2801 C.S. LEWIS AND VALUES (3)** Examines Lewis' insights into the nature of humanness, the meaning of life, and the possibility of other worlds; evaluates Lewis' position on selected value issues, e.g., marriage, divorce, friendship.

**PHI 3100 FAITH AND PHILOSOPHY (5)** Emphasizes the use of analytical and argumentative skills in developing a systematic 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? Is God the source of all moral value? How 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 belief? Can it be shown that some opinions are better than others? Are some propositions 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 metaphysics and the standard strategies for their solutions: freewill and determinism, mind-body relations, the nature of individuals (the problem of substance). Offered alternate years. Attribute: Writing Course.

**PHI 3340 VALUES, FAITH AND SOCIAL ISSUES-M (5)** Explores a range of issues in social ethics from a philosophical and theological standpoint, e.g., Are free markets fair? Is genetic engineering immoral? Should drugs be legalized? Should the church be involved in politics? Is feminism compatible with Christianity? Offered only via distance learning.

**PHI 3550 THE CONCEPT OF GOD (3)** Can human language apply to God? If so, how? Are the tenets of classical monotheism (e.g., that God is omnipotent, omniscient, good, free, etc.) coherent in themselves? Are they compatible with each other and with other basic beliefs we hold (e.g., human freedom)? Attribute: Writing Course.

**PHI 3601 ANCIENT PHILOSOPHY (5)** Surveys the work of principally Greek philosophers, with special emphasis on the writings of selected Presocratics, Plato and Aristotle. Some consideration may be given to post-Aristotelian developments, e.g., Stoicism and Neoplatonism. Attribute: Writing Course.

**PHI 3621 EMPIRICISTS (5)** Focuses on the works of Locke, Berkeley, Hume and Reid, with emphasis on their theories of metaphysics 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 of metaphysics and epistemology. Attribute: Writing Course.

**PHI 3641 TWENTIETH CENTURY PHILOSOPHY (5)** Surveys major philosophical movements from the late 19th century to the middle of the 20th century. Special attention is devoted to the idealists (e.g., Bradley and McTaggart), the pragmatists (e.g., James and Peirce), and various analytic philosophers (e.g., Moore, Russell, Wittgenstein and the positivists). Offered alternate years. Attribute: Writing Course.

**PHI 3701 THEORIES OF ETHICS (3)** An examination of the main philosophical theories of ethics, e.g., cultural relativism, subjectivism, the divine command theory, ethical egoism, utilitarianism, deontological views (such as those of Kant and Ross), and virtue ethics. Attribute: Writing Course.

**PHI 3702 SOCIAL ETHICS (3)** A philosophically rigorous examination of a series of contemporary moral issues, e.g., abortion, surrogate motherhood, euthanasia, the death penalty, discrimination, affirmative action, economic justice, world hunger, welfare, the treatment of animals and the environment. Attribute: Writing Course.

**PHI 3770 TOPICS IN POLITICAL PHILOSOPHY (3)** In-depth study of a crucial topic in political philosophy. Examples: Philosophical Implications of the French Revolution; The Rule of Law; Political Obligation; Aristotle's Politics; Democracy. Offered alternate years. May be repeated for credit up to 6 credits. Attribute: Writing Course.

**PHI 3801 C.S. LEWIS AND VALUES (3)** Examines Lewis' insights into the nature of humanness, the meaning of life and the possibility of other worlds; evaluates Lewis' position on selected value issues, e.g., marriage, divorce, friendship. Attribute: Writing Course.

**PHI 3999 MIND AND IMMORTALITY (3)** What sort of thing am I? Am I a complicated but purely physical thing? Am I a non-physical thing, a soul, inhabiting a body? Can I survive my bodily death? These questions will be addressed in light of contemporary discussions in the philosophy of mind. Offered alternate years. Attribute: Writing Course.

**PHI 4451 THE EXISTENCE OF GOD (5)** Can God's existence be proved? What are the main arguments for and against the existence of God? Why does God allow so much suffering? Is it reasonable to believe that God exists? Attribute: Writing Course.

**PHI 4661 THE BEST OF C.S. LEWIS (3)** Identifies basic literary, philosophical, and theological categories of Lewis' work. Evaluates the insights in the great themes which permeate Lewis' literature through examining his major works. Works studied include Mere Christianity, Screwtape Letters, Great Divorce, Last Battle, and The Four Loves. Incorporates lecture series.

**PHI 4785 AESTHETICS (3)** Is beauty an objective quality that a thing either has or does not have, or are aesthetic judgments merely expressions of personal taste? What sorts of things should we take into account in evaluating art? What is the proper function of art, and of the art critic? Offered alternate years. Attribute: Writing Course.

**PHI 4880 PHILOSOPHY OF SCIENCE (3)** Examines two beliefs 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 from the works of such philosophers as Ayer, Popper, Hempel, Kuhn, Feyerabend and van Fraassen. Offered alternate years. Attribute: Writing Course.

**PHI 4920 DIRECTED READINGS AND RESEARCH (1-9)** Registration Approval: Independent Study Agreement. Class open to: Seniors.

**PHI 4921 DIRECTED READINGS IN THE PHILOSOPHICAL WRITINGS OF C.S. LEWIS (1-5)** Registration Approval: Independent Study Agreement. Offers directed study in the explicitly philosophical writings of Lewis, e.g., The Abolition of Man, The Problem of Pain, Miracles, The Four Loves, and The Weight of Glory and Other Addresses, God in the Dock. May be repeated for credit up to 5 credits.

**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 credits. Class open to: Philosophy majors. Class not open to: Freshmen and Sophomores.

**PHI 4950 SPECIAL TOPICS IN PHILOSOPHY (1-5)** An in-depth exploration of a specific philosophical topic chosen by the instructor. May be repeated for credit up to 5 credits. Class open to: Juniors and Seniors.



# Physical Education

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

## Admission and GPA Requirement

Students wishing to major in physical education or exercise science must present evidence of satisfactory completion of at least 45 quarter credits of college coursework. This must 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

[Refer to page 52 for a summary of degree requirements]

### Foundation Courses

BIO 2129 Human Anatomy and Physiology .....	5
BIO 2130 Human Anatomy and Physiology .....	5
PE 1301 Wellness .....	3
PE 2555 Health Issues and Programs .....	5
PE 3560 Social-Psychological Aspects of Activity .....	5
PE 3570 Biomechanics .....	5
PE 3575 Motor Learning and Development .....	5
PE 3580 Exercise Physiology .....	5
PE 3590 Sport Injury Management .....	5
PE 4595 Organization and Administration .....	5
<b>Total .....</b>	<b>48</b>

## Requirements for the Physical Education Major

(72 Credits)	
Foundation courses .....	48
PE 2510 Elementary Health and Physical Education .....	4
PE 2515 Secondary Physical Education .....	5
PE 3545 Programs for Special Populations .....	3
PE 3600 Physical Education Teaching Lab .....	3
PE 3602 Teaching Field Sports .....	1
PE 3603 Teaching Court Sports .....	1
PE 3604 Teaching Global Sports .....	1
PE 3605 Teaching Gymnastics .....	1
PE 3608 Teaching Alternative Activities .....	1
PE 3609 Teaching Individual Sports .....	1
PE 3610 Teaching Racquet Sports .....	1
PE 3612 Teaching Outdoor Pursuits .....	1
PE 3613 Teaching Conditioning .....	1
<b>Total .....</b>	<b>72</b>

For teacher certification, the above degree plan must be combined with the following School of Education requirements: Phase I (EDU 3103, 3104, 3105, EDSP 3107, 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.

## Requirements for the Exercise Science Major

(72 Credits)	
Foundation courses .....	48
CHM 1211 General Chemistry .....	5
CHM 1330 Organic and Biological Chemistry .....	5
FCS 3340 Family Nutrition .....	3
FCS 4310 Nutrition in Sports and Exercise .....	3
PE 4585 Exercise Science Lab Seminar .....	3
PE 4590 Advanced Athletic Training .....	
or PE 3545 Programs for Special Populations .....	3
PE 4930 Exercise Science Practicum .....	1

PE 4940 Internship .....	1
<b>Total .....</b>	<b>72</b>

## Fitness Competency Requirement

Prospective majors in both exercise science and physical education are required to achieve a passing score in each of the six areas of the Fitnessgram® or complete a department approved fitness program prior to being officially admitted.

## Requirements for the Minors

### Minor in Physical Education

(39 Credits)	
PE 2510 Elementary Health and Physical Education .....	4
PE 2515 Secondary Physical Education .....	5
PE 3545 Programs for Special Populations .....	5
PE 3560 Social-Psychological Aspects of Activity .....	5
PE 3570 Biomechanics .....	5
PE 3580 Exercise Physiology .....	5
PE 3590 Sport Injury Management .....	5
PE 4595 Organization and Administration .....	5
<b>Total .....</b>	<b>39</b>

### Minor in Health

(40 Credits)	
BIO 2129 Human Anatomy and Physiology .....	5
BIO 2130 Human Anatomy and Physiology .....	5
HSC 3035 Human Sexuality .....	3
FCS 1310 Introductory Nutrition .....	3
FCS 4310 Nutrition in Sports and Exercise .....	3
FCS 4330 Advanced Nutrition .....	3
PE 1301 Wellness .....	3
PE 2550 Safety and First Aid .....	3
PE 2555 Health Issues and Programs .....	5
PE 4950 Special Topics in Health Education .....	2
PSY 3470 Life Span Developmental Psychology .....	5
<b>Total .....</b>	<b>40</b>

## Requirements for Endorsements in Health and Physical Education

The student who wishes to receive a state endorsement for a secondary teaching area in health or physical education must complete the 24 credit requirement as set forth by the Superintendent of Public Instruction. For further information, contact the School of Education.

## Leisure Activities Program

Leisure provides a unique opportunity to become a more fulfilled and complete person; it can be avoided, wasted, spent, or used creatively. The Department of Physical Education offers a wide spectrum of activity classes where basic skills can be learned and refined to the point of independent participation.

## Physical Education Courses

**PE 1001 FOOTBALL CLINIC (1)** Introduces students to basic rules and competitive strategies of football.  
**PE 1002 SOCCER CLINIC (1)** Introduces students to basic rules and competitive strategies of soccer.  
**PE 1003 BASKETBALL CLINIC (1)** Introduces students to basic rules and competitive strategies of basketball.  
**PE 1004 SOFTBALL CLINIC (1)** Introduces students to basic rules and competitive strategies of softball.  
**PE 1005 VOLLEYBALL CLINIC (1)** Introduces students to basic rules and competitive strategies of volleyball.  
**PE 1006 FLOOR HOCKEY CLINIC (1)** Introduces students to basic rules and competitive strategies of floor hockey.

**PE 1007 TEAM HANDBALL CLINIC (1)** Introduces students to basic rules and competitive strategies of team handball.

**PE 1100 OUTDOOR SURVIVAL (2)** Core course for all outdoor leisure courses. Teaches how to recognize wilderness dangers, as well as wilderness survival. Course will cover knowledge and skill acquisition concerning safety and injury prevention. Topics covered will include: temperature control, equipment selection and maintenance, map reading, compass navigation and emergency protocol. Extra fee.

**PE 1109 WEIGHT TRAINING (2)** Covers the basic scientific principles of weight training, exercise selection, safety, fundamental techniques in lifting machine and free weights, program design variables, workout monitoring, and personal orientations required for independent weight training. The course is structured as a mandatory initial class meeting and independently arranged workouts. Students failing to meet the first 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 leisure activity and provides students with knowledge and skills to safely and enjoyably participate in the sport. Extra fee.

**PE 1120 HIKING (2)** Prerequisite: PE 1100 or permission of instructor. Northwest Trails and Beauty Spots; a one day wilderness trek along beaches, or forest or mountain trails. Extra fee.

**PE 1125 SNOWSHOEING AND CROSS-COUNTRY SKIING (2)** Prerequisite: PE 1100 or permission of instructor. Introduces students to snowshoeing and cross-country skiing as leisure activities, and provides students with knowledge and skills to safely enjoy these sports. Extra fee. May be repeated for credit 1 time.

**PE 1135 ROWING (2)** Introduces students to basic rowing techniques, skills, equipment, and conditioning for continued involvement in recreational, fitness or competitive rowing.

**PE 1140 WINDSURFING (1)** Introduces students to board sailing (windsurfing) as a leisure activity and provides students with knowledge and skills to safely and enjoyably participate in the 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 SAILING (2)** Introduces students to small boat day-sailing as a leisure activity and provides students with the knowledge and skills to safely and enjoyably participate in the sport on protected water. Extra fee.

**PE 1160 CONDITIONING (2)** Provides students with an opportunity to engage in selected activities designed to increase their level of fitness knowledge and skills for the enjoyment of conditioning as a life-long leisure activity. May be repeated for credit 1 time.

**PE 1161 WALKING/JOGGING (1)** Introduces students to aerobic and fitness information while providing opportunity to engage in a pleasurable life-long leisure activity. Local parks and interesting walking routes will be explored. May be repeated for credit up to 2 credits.

**PE 1165 DANCE (2)** Introduces students to basic techniques and rhythms of one of several dance styles including aerobics, jazz, folk, ballet, improvisational and creative dance. May be repeated for credit 1 time.

**PE 1175 FENCING (2)** Introduces students to basic instruction in the sport of fencing. Technical emphasis on basic footwork, defensive and parry systems, methods of attack and counterattack, judging and directing standard foil competition, and mental preparation for competition and physical conditioning.

**PE 1180 GOLF (2)** Introduces students to the fundamental skills, techniques and rules of golf for enjoyment as a recreational sport. Extra fee. May be repeated for credit 1 time.

**PE 1185 BADMINTON (2)** Introduces students to the basic rules, skills and strategies of badminton for enjoyment as a recreational sport. May be repeated for credit 1 time.

**PE 1190 TENNIS (2)** Introduces students to the fundamental skills, techniques and rules of tennis for enjoyment as a recreational sport. May be repeated for credit 1 time.

**PE 1195 SCUBA (2)** Registration Approval: Instructor. Introduces students to skin and scuba diving as leisure activities. Involves the classroom and pool training prerequisite to the open water training (PE 1196) which is necessary to obtain scuba diving certification.

**PE 1196 OPENWATER SCUBA (1)** Registration Approval: In-

structor. Prerequisite: PE 1195. Provides the five openwater training dives required for scuba diving certification and additional dives or study as arranged. Extra fee.

**PE 1199 LEADERSHIP CAMP (2)** Provides personal growth and self-discovery through a five-day wilderness experience before the beginning of autumn quarter. Extra fee.

**PE 1200 SOFTBALL (2)** Introduces students to softball as a leisure activity and provides students with knowledge and skills to safely and enjoyably participate in the sport.

**PE 1301 WELLNESS (3)** Examines lifestyle decision making, presents basic knowledge on 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: HSC 1301 and FCS 1301.

**PE 1455 MEN'S BASKETBALL (1)** Registration Approval: Instructor. Open only to eligible varsity intercollegiate athletes. May be repeated for credit 3 times.

**PE 1456 WOMEN'S BASKETBALL (1)** Registration Approval: Instructor. Open only to eligible varsity intercollegiate athletes. May be repeated for credit 3 times.

**PE 1460 WOMEN'S GYMNASTICS (1)** Registration Approval: Instructor. Open only to eligible varsity intercollegiate athletes. May be repeated for credit 3 times.

**PE 1465 CROSS COUNTRY (1)** Registration Approval: Instructor. Open only to eligible varsity intercollegiate athletes. May be repeated for credit 3 times.

**PE 1470 MEN'S SOCCER (1)** Registration Approval: Instructor. Open only to eligible varsity intercollegiate athletes. May be repeated for credit 3 times.

**PE 1475 TRACK AND FIELD (1)** Registration Approval: Instructor. Open only to eligible varsity intercollegiate athletes. May be repeated for credit 3 times.

**PE 1480 MEN'S CREW (1)** Registration Approval: Instructor. Open only to eligible varsity intercollegiate athletes. May be repeated for credit 3 times.

**PE 1481 WOMEN'S CREW (1)** Registration Approval: Instructor. Open only to eligible varsity intercollegiate athletes. May be repeated for credit 3 times.

**PE 1495 WOMEN'S VOLLEYBALL (1)** Registration Approval: Instructor. Open only to eligible varsity intercollegiate athletes. May be repeated for credit 3 times.

**PE 2510 ELEMENTARY HEALTH AND PHYSICAL EDUCATION (4)** Explores health and physical education needs of K-6 children. Course focuses on age appropriate curriculum and activities with an emphasis on motor skill development and interdisciplinary learning. Four credit class meets minimum education requirement. Class not open to: Freshmen.

**PE 2515 SECONDARY P.E. (5)** Focuses on appropriate curriculum and teaching methods for secondary P.E. Emphasizes how to develop a successful program including strategies for classroom management, lesson and unit design, safety and fitness promotion. Class not open to: Freshmen.

**PE 2550 SAFETY AND FIRST AID (3)** Presents basic skills of accident prevention and emergency treatment of injury and illness. Topics include: legal liability and accident response, respiratory emergencies and artificial respiration, circulatory emergencies and cardio-pulmonary resuscitation, hemorrhage control, shock, sudden illness, burns, injuries from exposure to heat and cold, poisoning, drug abuse emergencies, bone and joint injuries, rescue and transfer, as well as coverage of specific injuries and disaster preparedness. Accident simulations are staged to gain practice in emergency care. Extra fee. Class not open to: Freshmen.

**PE 2555 HEALTH ISSUES AND PROGRAMS (5)** Identifies 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 3545 PROGRAMS FOR SPECIAL POPULATIONS (3)** Studies disabilities and how physical education and other recreation activities can be matched with the disabled and elderly person's need for participation and/or correction. Class open to: Physical Education majors and Exercise Science majors. Class not 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, psyching

and relaxation, imagery and visualization, goal setting, motivation, causal attribution, and self systems. Social issues include socialization processes, family, friends, education, politics, economics, media, social class, gender, religion, and subcultures. Attribute: Writing Course. Class not open to: Freshmen and Sophomores.

**PE 3570 BIOMECHANICS (5)** Prerequisite: BIO 2129, concurrent registration, or permission of instructor. Provides information regarding the structure and function of the musculoskeletal systems including, but not limited to, shoulder, elbow, hip, knee, and spine. Examines basic principles of motion through discussion and laboratory experiment with such topics as nature of forces, Newton's Laws, ground and fluid forces, work, power, energy, torque, levers, and center of gravity. Emphasis is placed on analysis of exercise and sport activities for the improvement of teaching and coaching, fitness, and performance of motor skills. Class not open to: Freshmen and Sophomores.

**PE 3575 MOTOR LEARNING AND DEVELOPMENT (5)** Prerequisite: Intent to major in physical education or exercise science. Explores learning and human development theory applied to the acquisition and performance of movement patterns. Includes lab.

**PE 3580 EXERCISE PHYSIOLOGY (5)** Prerequisite: BIO 2130 or permission of instructor. Gives description and explanation of physiological responses and adaptations to exercise, emphasizing improvement of athletic performance and understanding the mechanisms whereby exercise may enhance health. Course includes laboratory. Class open to: Freshmen and Sophomores.

**PE 3590 SPORT INJURY MANAGEMENT (5)** Prerequisite: BIO 2129. Describes the prevention, recognition and treatment of injuries related to sport activity. Emphasis on recognition and decision making for the immediate care of serious and life-threatening injuries and the immediate and secondary care of common sports related injuries. Describes the development and implementation of comprehensive sport injury management systems. Class not open to: Freshmen and Sophomores.

**PE 3600 PHYSICAL EDUCATION TEACHING LAB (1)** Prerequisite: PE 2510 or 2515. Course provides a controlled and supervised micro-teaching experience. Emphasis is on lesson design, classroom management, and various methods of teaching. May be repeated for credit 3 times. Class not open to: Freshmen and Sophomores.

**PE 3602 TEACHING FIELD SPORTS (1)** Prerequisite: PE 2510 or 2515. Introduces students to basic skills, rules, and teaching strategies of football, soccer, and softball. Class not open to: Freshmen and Sophomores.

**PE 3603 TEACHING COURT SPORTS (1)** Prerequisite: PE 2510 or 2515. Introduces students to basic skills, rules, and teaching strategies of volleyball and basketball. Class not open to: Freshmen and Sophomores.

**PE 3604 TEACHING GLOBAL SPORTS (1)** Prerequisite: PE 2510 or 2515. Introduces students to basic skills, rules, and teaching strategies of sports played most often in countries other than America: Korfball, Rugby, Team Handball, Australian Rules Football, Cricket, Field Hockey, Gaelic Football, Sepak Takraw, and Bowles are among the options. Class not open to: Freshmen and Sophomores.

**PE 3605 TEACHING GYMNASTICS (1)** Prerequisite: PE 2510 or 2515. Introduces students to basic skills, rules and teaching strategies of floor exercise, apparatus and rhythmic gymnastics. Class not open to: Freshmen and Sophomores.

**PE 3606 TEACHING DANCE (1)** Prerequisites: PE 2510 or 2515. Introduces students to basic skills and teaching strategies of aerobics, jazz, folk, ballet, improvisational, and creative dance. Class not open to: Freshmen and Sophomores.

**PE 3608 TEACHING ALTERNATE ACTIVITIES (1)** Prerequisite: PE 2510 or 2515. Introduces students to basic skills and teaching strategies of alternative activities such as roller skating, circus arts, new games, and innovative programs. Class not open to: Freshmen and Sophomores.

**PE 3609 TEACHING INDIVIDUAL SPORTS (1)** Prerequisite: PE 2510 or 2515. Introduces students to basic skills, rules, and teaching strategies for archery, bowling, golf, and other selected sports. Class not open to: Freshmen and Sophomores.

**PE 3610 TEACHING RACQUET SPORTS (1)** Prerequisite: PE 2510 or 2515. Introduces students to basic skills, rules, and teaching strategies of tennis, badminton, pickleball, and racquetball. Class not open to: Freshmen and Sophomores.

**PE 3612 TEACHING OUTDOOR PURSUITS (1)** Prerequisite: PE 2510 or 2515. Introduces students to basic skills,

rules, and teaching strategies of hiking, backpacking, camping, and orienteering. Class not open to: Freshmen and Sophomores.

**PE 3613 TEACHING CONDITIONING (1)** Prerequisite: PE 2510 or PE 2515. Covers basic scientific principals, terminology, fundamental paradigms, and teaching strategies necessary to plan and deliver instruction for musculoskeletal, aerobic and anaerobic training. Class not open to: Freshmen and Sophomores.

**PE 4585 EXERCISE SCIENCE LAB/SEMINAR (3)** Prerequisites: PE 3570, 3580. Provides laboratory, research and presentation opportunities which apply, reinforce and expand basic knowledge gained in prerequisite courses. Class not open to: Freshmen and Sophomores.

**PE 4590 ADVANCED ATHLETIC TRAINING TECHNIQUES (3)** Prerequisites: BIO 2129, 2130 and PE 3590. Describes legal liability issues in the care and prevention of sports injuries, provides students with understanding and skill in the theoretical basis and common protocols for therapeutic modalities used in sports medicine, studies principles and programs for therapeutic exercise, and introduces injury assessment techniques including manual muscle testing. Class not open to: Freshmen and Sophomores.

**PE 4595 ORGANIZATION AND ADMINISTRATION (5)** Offers information and experiences related to organizing and administering sport, recreation, and physical activity programs in public and private sectors. Presents an overview of theories about leadership, business plans, strategic planning, communication, team building, decision making, conflict management, corporate change, policies and procedures, technology, time and stress management. Provides practical applications in managing programs, facilities, personnel, finances, and marketing. Includes case analysis of legal issues related to constitutional, contract, and tort law. Attribute: Writing Course. Class not open to: Freshmen, Sophomores and Juniors.

**PE 4900 INDEPENDENT STUDY (1-5)** Registration Approval: Independent Study Agreement. Allows a non-research approach to an approved issue. Course requirements include a defined set of objectives, a minimum of three conferences with a designated faculty member, a current topical bibliography and a term ending assessment mutually developed by faculty and student. The format may be utilized only once. May be repeated for credit up to 4 credits. Class open to: Physical Education majors. Class not open to: Freshmen and Sophomores.

**PE 4930 EXERCISE SCIENCE PRACTICUM (1)** Registration Approval: Instructor. Prerequisites: PE 3570, 3580. Provides practical experience in physical fitness testing and exercise prescription and leadership with members of the SPU community. May be repeated for credit up to 3 credits.

**PE 4931 ATHLETIC TRAINING PRACTICUM (1-3)** Registration Approval: Instructor. Provides practical experience in the prevention, treatment and rehabilitation of athletic injuries. Students work with intercollegiate athletes in the SPU training room and at practice and event sites. May be repeated for credit up to 12 credits.

**PE 4940 INTERNSHIP (1-15)** Registration Approval: Intern Learning Contract Req. Field work experience which may include cooperative education placement. A term ending assessment mutually developed by faculty and student is required. May be repeated for credit up to 15 credits. Class open to: Physical Education majors, Exercise Science majors and Student Designed Major majors. Class not open to: Freshmen and Sophomores.

**PE 4950 SPECIAL TOPICS (2-5)** Registration Approval: Department Chair. Special courses offered upon demand and/or department's discretion. May be repeated for credit up to 5 credits. Class open to: Physical Education majors. Class not open to: Freshmen and Sophomores.

# Physics

**Robert Hughson, Chair; James Crichton**  
Physicists study the changes, interactions, and properties of matter and energy and, as a result, strongly influence humankind's understanding of nature. In addition, as engineers create new technology based on principles first

discovered by physicists, the social, economic, and political structures of society change. To help students grasp the intellectual impact of both theory and application, SPU offers two undergraduate options described below. One, the traditional liberal arts physics major, concentrates on the theories and experiments of physics while providing maximum freedom to absorb the liberal arts. The other, engineering science with physics emphasis, helps prepare the student to apply physics in industry.

A GPA of 2.5 or above in physics and mathematics is required for admission to the major. Students expecting to continue the study of physics in graduate school should consider taking additional courses in physics as well as MAT 3724, 3725, 3730, and maintain a GPA of 3.0 or above. It is strongly recommended that students take PHY 4341 and 4342 before taking graduate record exams. A reading knowledge of French, German or Russian is desirable. ENG 3206 Technical Writing is recommended. These studies apply toward the Bachelor of Science degree.

## Requirements for the Physics Major

(88 Credits; 25 upper-division)  
*[Refer to page 52 for a summary of degree requirements]*

PHY 1101, 1102, 1103 General Physics  
or PHY 1121, 1122, 1123 Physics for Science and Engineering ..... 15

PHY 2321 Intermediate Physics ..... 5

PHY 3311, 3312, 3313 Advanced Physics Lab ..... 8

PHY 4310 Electricity and Magnetism ..... 5

PHY 3841 Dynamics ..... 5

PHY 4910 Physics Seminar ..... 1

CHM 1211, 1330 General Chemistry ..... 10

CHM xxxx elective chemistry course ..... 4

EGR 2391 Materials Science ..... 5

MAT 1225, 1226 Calculus ..... 10

MAT 1228 Series and Differential Equation ..... 5

MAT 2228 Multivariable Calculus ..... 3

MAT 2375 Probability Theory ..... 3

MAT 2401 Linear Algebra ..... 3

PHY xxxx upper-division physics course ..... 6

**Total ..... 88**

In addition the student must complete a senior laboratory project.

## Suggested First Year Physics Curriculum

**Autumn**

MAT 1225 Calculus ..... 5

PHY 1121 Physics for Science and Engineering ..... 5

Electives ..... 5-6

**15-16**

**Winter**

MAT 1226 Calculus ..... 5

PHY 1122 Physics for Science and Engineering ..... 5

Electives ..... 5-6

**15-16**

**Spring**

MAT 1228 Series and Differential Equation ..... 5

PHY 1123 Physics for Science and Engineering ..... 5

Electives ..... 5-6

**15-16**

## Suggested Second Year Physics Curriculum

### Autumn

MAT 2375 Probability Theory ..... 5

CHM 1330 General Chemistry ..... 5

PHY 2321 Intermediate Physics ..... 5

**15**

### Winter

MAT 2401 Linear Algebra ..... 3

CHM 1212 General Chemistry ..... 5

EGR 2391 Intro. to Materials Science ..... 5

**13**

### Spring

MAT 2228 Multivariable Calculus ..... 3

Electives ..... 12-14

**15-17**

## Requirements for the Engineering and Applied Science Major (Physics Emphasis)

See the Engineering section of the Catalog.

## Requirements for the Physics Minor

(35 Credits; 15 upper-division)

PHY 1101, 1102, 1103 General Physics  
or PHY 1121, 1122, 1123 Physics for Science and Engineering ..... 15

PHY 2321 Intermediate Physics ..... 5

PHY 3311 Advanced Physics Lab ..... 4

PHY xxxx upper-division physics course ..... 11

**Total ..... 35**

A maximum of 5 upper-division credits may be selected from either EGR 3401 or 3871.

## Physics Courses

**PHY 1101 GENERAL PHYSICS (5)** Prerequisites: MAT 1110. The first quarter of a general introduction to physics, intended for biology and pre-med majors. Covers mechanics. Four lectures and one laboratory each week.

**PHY 1102 GENERAL PHYSICS (5)** Prerequisite: PHY 1101. The second quarter of a general introduction to physics, intended for biology and pre-med majors. Covers heat, sound, electricity and magnetism. Four lectures and one laboratory each week.

**PHY 1103 GENERAL PHYSICS (5)** Prerequisite: PHY 1102. The third quarter of a general introduction to physics, intended for biology and pre-med majors. Covers light, atomic, molecular and nuclear physics. Four lectures and one laboratory each week.

**PHY 1110 INTRODUCTION TO THE NATURE OF SCIENCE (5)** Provides a non-mathematical lecture, discussion, student participation course in the physical sciences. Examines basic revolutions in the development of scientific views and their relationships to religious faith and human values. Also examines selected scientific concepts and theories. Provides preparation for informal decision making on some current and future societal issues. Not recommended for students with more than one high school science course.

**PHY 1121 PHYSICS FOR SCIENCE AND ENGINEERING (5)** Prerequisite: MAT 1225 may be taken concurrently. The first quarter of an introduction to physics using calculus. Covers mechanics. Four lectures and one laboratory each week.

**PHY 1122 PHYSICS FOR SCIENCE AND ENGINEERING (5)** Prerequisite: PHY 1121 and MAT 1225. The second quarter of an introduction to physics using calculus. Covers gravitation, oscillations, fluid mechanics, thermal physics, waves, electrostatics. Four lectures and one laboratory each week.

**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 laboratory each week.



**PHY 1135 ASTRONOMY: INDIVIDUAL AND THE UNIVERSE (5)** An integrative general introduction to astronomy, including astronomical observation and measurement, the solar system, extragalactic phenomena, and cosmology; includes the scientific method and world-view implications. (Not recommended for students who have taken NMS 1110).

**PHY 1150 INTRODUCTION TO GEOLOGY (5)** Surveys geology including identification and origin of rocks and minerals, the processes of forming the present state of the earth, interpretation of geologic features and of the human impact on landscape. Laboratory experiences and/or field trips emphasized.

**PHY 1910 HONORS PHYSICS SEMINAR (1)** Registration Approval: Instructor. Prerequisites: One of the following must be taken concurrently: PHY 1101, 1102, 1103, 1121, 1122, 1123. Provides a direct study of current problems and research areas in physics such as astrophysics, chaos and complexity, particles and fields, and relativity. May be repeated for credit 2 times.

**PHY 2321 INTERMEDIATE PHYSICS (5)** Prerequisites: MAT 1228 and either PHY 1103 or 1123. (MAT 1228 may be taken concurrently). Introduction to the physics of the 20th century: relativity, waves and quanta with applications to areas of contemporary physics such as atoms, nuclei, particles and solids.

**PHY 3120 PHYSICAL SCIENCE AND SOCIETY (5)** Introduces contemporary topics in natural sciences which have technological and social implications; examines the present social structure and environment of the natural sciences. Attribute: Writing Course.

**PHY 3311 ADVANCED PHYSICS LAB (4)** Prerequisite: PHY 2321, or may be taken concurrently. Laboratory applications of electronics. Offered alternate years.

**PHY 3312 ADVANCED PHYSICS LAB (2)** Prerequisites: PHY 2321 and 3311. Provides an integrated advanced laboratory course including experiments in optics, solid state physics, atomic physics and nuclear physics. Offered alternate years.

**PHY 3313 ADVANCED PHYSICS LAB (2)** Prerequisites: PHY 2321 and PHY 3312. Provides an integrated advanced laboratory course including experiments in optics, solid state physics, atomic physics and nuclear physics. Offered alternate years.

**PHY 3401 THERMODYNAMICS (4)** Prerequisites: CHM 1211, and MAT 1228, and either PHY 1103 or PHY 1123. Studies equilibrium and non-equilibrium properties of gases, liquids and solids from thermodynamic processes. Engineering applications. Includes elements of statistical thermodynamics. Course Equivalents: CHM 3401 and EGR 3401.

**PHY 3713 OPTICS (3)** Prerequisite: PHY 3711. General theory of physical optics, diffraction theory, polarization and coherent states, optical devices. Offered on demand.

**PHY 3841 DYNAMICS (5)** Prerequisites: MAT 1228, 2401, and PHY 1101 or 1121. Study of vectorial treatment of Newton's laws for undamped and damped linear, rotational, and vibrational motion in several coordinate systems. Includes solving problems for particles and rigid bodies using energy, momentum, and angular momentum conservation laws. Course Equivalent: EGR 3841.

**PHY 4242 ATMOSPHERIC SCIENCE (2-5)** Registration Approval: Instructor. Prerequisites: PHY 1103 or 1123, and MAT 1228. Studies structure and composition of the atmosphere, radiative and convective processes: dynamics and distribution of the atmosphere; cloud physics; introduction to climatology and the upper atmosphere. Offered on demand. May not be repeated.

**PHY 4243 GEOPHYSICS (2-5)** Registration Approval: Instructor. Prerequisites: PHY 1103 or 1123, MAT 1228, 2228. Studies rotation and figure of the earth, gravity field, seismology, geomagnetism, heat flow, age and internal structure of the earth. Offered on demand. May not be repeated.

**PHY 4310 ELECTROMAGNETICS (5)** Prerequisites: PHY 1103 or 1123, MAT 1228, 2228, and MAT 3724 is recommended. Study of transmission lines as lumped- circuits, electrostatics, magnetostatics, boundary conditions, electromagnetic waves, and introduction to applications such as skin effect, reflections, waveguides, antennas, and optics. Includes computer and laboratory experiments. Course Equivalent: EE 4310.

**PHY 4341 QUANTUM MECHANICS (5)** Prerequisites: PHY 2321, MAT 2228. Surveys basic wave mechanics, quantum mechanical operators, dynamics of the wave functions, travelling waves, bound states. Offered alternate years.

**PHY 4342 ATOMIC PHYSICS (5)** Prerequisite: PHY 4341. Studies the hydrogen atom, perturbation theory, one-electron atoms, fine and hyperfine structure. Explores Zeeman and Stark effects. Introduction to multi-electron atoms. Offered alternate years.

**PHY 4391 NUCLEAR AND PARTIAL PHYSICS (5)** Prerequisite: PHY 4342 or permission of instructor. Study of the fundamental interactions and elementary particles, resonance states and nuclei. Emphasis on invariance principles, conservation laws and simple applications of quantum theories and the theory of special relativity. Discussion of experimental methods including particle detectors and accelerators. Offered alternate years.

**PHY 4441 STATISTICAL PHYSICS (2-5)** Prerequisites: PHY 3401, MAT 2375. Studies classical and quantum statistical mechanics, Bose and Fermi statistics and applications to physical systems. Offered alternate years.

**PHY 4491 SOLID STATE PHYSICS (2-5)** Prerequisite: PHY 2321; PHY 4441 recommended. Focuses on lattice statics and dynamics, electrons and Fermi surfaces, transport phenomena, semiconductors, and superconductivity. Offered alternate years.

**PHY 4905 INDEPENDENT STUDY IN PHYSICS (2-5)** Registration Approval: Independent Study Agreement. The area of study to be mutually agreed upon by the student and a physics faculty member. May be repeated for credit up to 5 credits.

**PHY 4910 PHYSICS SEMINAR (1-5)** Registration Approval: Instructor. Prerequisite: Upper-division standing in physics major. Seminar with both student and faculty participation on current problems and research areas in physics. May be repeated for credit up to 5 credits. Class open to: Physics majors. Class not open to: Freshmen and Sophomores.

**PHY 4940 INTERNSHIP IN PHYSICS (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 5 credits. Class not open to: Freshmen and Sophomores.

**PHY 4970 SENIOR PROJECT LABORATORY (1-5)** Prerequisites: PHY 3313 and senior standing. Independent research directed toward satisfaction of requirement of senior project for graduation with major in physics. May be repeated for credit up to 5 credits. Class not open to: Freshmen, Sophomores and Juniors.

## Political Science

Douglas Durasoff, Chair; Kathleen Braden, Reed Davis, John West

Political science is the systematic study of government, public policy and the political behavior of individuals and groups. It asks the question, "How ought we as a community to live?"

At SPU each student is encouraged to consider solutions to contemporary public problems in terms of the complexities of actual political systems and in relation to personal and Christian values. The course offerings in political science and the preparation and interests of our faculty reflect approaches to political science which are relevant to policy formation, career development, and service to the community.

Study of political science is especially useful for careers in law, public administration, government service, international affairs, journalism, teaching and several fields of business. Dual majors or complementary minors are encouraged. A variety of internships are also available to students with interest in public service, international or legal careers.

To qualify for admission to the major, a student must have a 2.5 minimum GPA in previous courses in the major.

### Requirements for the Political Science Major

(For all three tracks, 25 credits must be upper-division)  
[Refer to page 52 for a summary of degree requirements]

### General Track

(48-52 Credits)	
POL 1110 Introduction to Politics .....	5
Select one course from the following:	
POL 1120 American Government (5)	
POL 2464 State and Local Politics (5) .....	5
POL 2320 Comparative Political Systems .....	5
Select one course from the following:	
POL 3410 Moral Foundations of American Government (5)	
POL 3440 International Peace and World Order (5)	
POL 4911 Advanced Seminar (3-5) .....	3-5
Select one course from the following:	
POL 4000 Public Policy and Administration (5)	
POL 4450 American Constitutional Law (5) .....	5
POL 4642 Theories of the Political System .....	5
POL 4643 Methods of Political Analysis .....	5
POL Electives .....	15-17
<b>Total .....</b>	<b>48-52</b>

### Public Policy Track

(55 Credits)	
POL 1110 Introduction to Politics .....	5
Select one course from the following:	
POL 1120 American Government (5)	
POL 2464 State and Local Politics (5) .....	5
POL 2320 Comparative Political Systems .....	5
Select at least three of the following:	
POL 3410 Moral Foundations of American Govt. (5)	
POL 3320 Political and Economic 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 4000 Public Policy .....	5
POL 4642 Theories of the Political System .....	5
POL 4643 Methods of Political Analysis .....	5
Electives (consult with advisor)* .....	10
<b>Total .....</b>	<b>55</b>
*POL 4940 Internship strongly recommended.	

### International Affairs Track

(53-55 Credits)	
POL 1110 Introduction to Politics .....	5
GEO 1110 World Regional Geography .....	5
POL 2320 Comparative Political Systems .....	5
Select at least two of the following:	
HIS 2452 History of Modern Global Systems (5)	
or POL/HIS 3670 American Foreign Relations (5)	
POL 2330 International Relations (5)	
POL 3170 Geopolitics (5)	
POL 3440 International Peace and World Order (5) .....	10
Select at least two of the following:	
POL 3320 Political and Economic Development of Nations (5)	
POL 4310 International Political Economy (5)	
GEO 3500 Geography of Natural Resources (5)	
POL 4911 Advanced Seminar (3-5) .....	8-10
POL 4642 Theories of the Political System .....	5
POL 4643 Methods of Political Analysis .....	5
Electives (consult with advisor) .....	10
<b>Total* .....</b>	<b>53-55</b>
*In addition, at least one year of a foreign language or 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

required hours in political science, but additional credits above the required hours may be added. For students who wish to enhance their degree with additional specialization, applied 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)	
POL 1110 Introduction to Politics .....	5
Select one course from the following:	
POL 2320 Comparative Political Systems (5)	
POL 2330 International Relations (5)	
POL 3320 Political and Economic Development of Nations (5) .....	5
Select one course from the following:	
POL 1120 American Government and Politics (5)	
POL 2464 State and Local Politics (5)	
POL 3450 Politics, Parties and Interest Groups (5) .....	5
Select one course from the following:	
POL 3410 Moral Foundations of American Government (5)	
POL 4642 Theories of the Political System (5)	
POL 4643 Methods of Political Analysis (5) .....	5
Electives .....	10
<b>Total .....</b>	<b>30</b>
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 to the nature of political knowledge and the significance that this knowledge has for political leadership and citizenship. Although the focus is primarily on political behavior in the United States, opportunity will be taken to examine political practices within other countries (comparative politics) and among other countries (international relations). May be taken through distance learning.

**POL 1120 AMERICAN GOVERNMENT AND POLITICS (5)** Surveys the founding principles of the American political system and examines the development and operation of major national institutions such as Congress, the presidency, the bureaucracy, the Supreme Court, political parties and the media. This course is also offered through distance learning.

**POL 2125 BASIC ISSUES IN AMERICAN AND WORLD POLITICS (3)** Current and enduring national and world issues are analyzed in the context of political science methods and concepts and Christian ethical standards. Topic varies each year. (Examples are "Women in Politics" and "Media and Politics.") May be repeated for credit 4 times.

**POL 2320 COMPARATIVE POLITICAL SYSTEMS (5)** Analyzes how nations are governed; democracies, authoritarian systems and developing countries are studied in light of political analysis and with attention to basic questions of human well-being.

**POL 2330 INTERNATIONAL RELATIONS (5)** Introduces the international political system, contrasting concepts of national interest to increasing global interdependence. Examines concepts of power, influence and ideology; discusses interactions among ideals and realities in policy-making processes, and their relationship to individual citizens.

**POL 2464 STATE AND LOCAL POLITICS (5)** Analyzes contemporary state and local governmental institutions and how they operate within America's federal system. Special emphasis on public policy issues such as health care, crime, education, welfare and telecommunications. Offered alternate years.

**POL 2641 CHRISTIANITY AND AMERICAN POLITICS (5)** Reviews the significance of Christianity for the development of political thought. Analyzes the key works and ideas of Christian political thinkers from Augustine to Niebuhr. Explores both the benefits and dangers of Christian involvement in American politics from the start of the nation to today. Topics addressed include the role of Christianity in America's founding, the reasons for religious liberty, and practical guidelines for Christians seeking to influence

## Pre-Law

public policy. Uses case studies of actual political controversies. Offered alternate years.

**POL 3170 GEOPOLITICS (5)** Current world events are explored, from a variety of social science disciplines (political science, history, economics and political geography). Topics vary, but always include an examination of Christian views on geopolitical conflicts and the role of international law in solving disputes. Course Equivalent: GEO 3170. Class not open to: Freshmen.

**POL 3320 POLITICAL AND ECONOMIC DEVELOPMENT OF NATIONS (5)** Studies theories and experiences of "nation-building," both political and economic, primarily in Third World countries. Evaluates concepts of authority, economic growth and human well-being, and the policies used to achieve these in different cultures and systems. Offered alternate years. Class not open to: Freshmen.

**POL 3345 MODERN RUSSIA (5)** Surveys Russian social, cultural and political history with primary attention to the tsarist, revolutionary and Soviet eras, examining their legacies for current development and change. Course Equivalent: HIS 3345. Attribute: Writing Course. Class not open to: Freshmen.

**POL 3350 MODERN FRENCH POLITICAL THOUGHT (5)** Registration Approval: Travel Studies Form. Reviews major themes of modern French liberalism from the French Revolution to the 20th century. Also introduces students to the major institutions of modern French politics. Special emphasis will be placed on the ideas and influence of Christian thinkers such as Pascal, Montesquieu, Tocqueville, Maritain and Weil. Taught summer only in Europe.

**POL 3410 MORAL FOUNDATIONS OF AMERICAN GOVERNMENT (5)** Analyzes the theoretical significance of American government in the broader philosophical and historical context of Western political thought. Reviews a wide range of critical political opinion in order to understand the moral foundations of the American regime. Offered alternate years. Attribute: Writing Course. Class not open to: Freshmen.

**POL 3430 THE PRESIDENCY AND CONGRESS: POLITICS OF NATIONAL LEADERSHIP (5)** Analyzes executive-legislative relations by reviewing Constitutional principles and the political culture of the Washington community, with emphasis on the presidency as an instrument of national leadership. Attribute: Writing Course. Class not open to: Freshmen.

**POL 3435 MARXISM: 20TH CENTURY THEORY AND PRACTICE (3)** Examines the development of varieties of Marxist theory and practice in the 20th century. Compares the Soviet, European, Chinese and Latin American experiences with Marxist thought and practice. Offered alternate years. Course Equivalents: ECN 3635 and HIS 3435. Class not open to: Freshmen.

**POL 3440 INTERNATIONAL PEACE AND WORLD ORDER (5)** A study of conflict and conflict resolution in the international system, drawing upon resources from negotiation theory, peace studies, Biblical models, international law and international organization, with analysis of varying world order models. Course Equivalent: HIS 3440. Class not open to: Freshmen.

**POL 3450 POLITICS, PARTIES AND INTEREST GROUPS (5)** Examines the role of political parties in contemporary American government and the implications of weakened parties for governing. The place of interest groups and political action committees is also surveyed, with special attention to the roles PACS play in campaigns and elections. Attribute: Writing Course. Class not open to: Freshmen.

**POL 3670 HISTORY OF AMERICAN FOREIGN RELATIONS (5)** Studies the United States as a participant in the international system, from colonial dependency to superpower. Proposes a theoretical model for interpreting American foreign policy and applies this framework to historical events considered chronologically. Considers questions of morality in relation to foreign policy. Course Equivalent: HIS 3670. Attribute: Writing Course. Class not open to: Freshmen.

**POL 3780 LAW AND SOCIETY (5)** Studies the role of law in society and provides an introduction to the American legal system. Includes case studies of such issues as product liability, environmental law, civil disobedience and assisted suicide. Features guest speakers from the legal community. Recommended for students 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 in its implementation and evaluation stages. Using case studies, analyses of specific policies are undertaken in such

areas as education, civil rights, energy and social services. Class not open to: Freshmen.

**POL 4310 INTERNATIONAL POLITICAL ECONOMY (5)** Examines the nature and dynamics of the global economy in relation to the economies and political systems of nations and to theories and models of national, regional and global economic growth. International trade, business and government policy are studied in this context. Offered alternate years. Course Equivalent: ECN 4310. Class not open to: Freshmen.

**POL 4450 AMERICAN CONSTITUTIONAL LAW (5)** A study of the U.S. Constitution and the Supreme Court, and the special role of "constitutional" law in American government and society. Leading Court opinions in areas such as separation of powers, federalism and civil liberties and civil rights are analyzed. Recommended for students interested in law school. Class not open to: Freshmen.

**POL 4642 THEORIES OF THE POLITICAL SYSTEM (5)** Explores major themes of normative political thought by reviewing the key works of Plato, Locke, Rousseau and Augustine. Reviews the nature of justice and governance, of citizenship and obedience, and examines a variety of Christian perspectives on these issues. Attribute: Writing Course. Class not open to: Freshmen.

**POL 4643 METHODS OF POLITICAL ANALYSIS (5)** Explores approaches and methods by which political scientists work with empirical evidence to develop knowledge and theory about the nature of political behavior in society. Class not open to: Freshmen.

**POL 4900 INDEPENDENT STUDY (2-5)** Registration Approval: Independent Study Agreement. Prerequisites: Junior standing; at least 15 credits in political science. Designed to develop intensive examination of selected areas of interest in political thought, institutions or behavior through a program of directed readings and/or research approved by a political science faculty member. (Maximum of 10 credits applicable to POL major.) May be repeated for credit up to 15 credits. Class not open to: Freshmen and Sophomores.

**POL 4911 ADVANCED SEMINAR: (3-5)** Prerequisite: Upperclass standing. Seminars studying theoretical and/or practical issues in politics, government and political science. See current Time Schedule for topics. May be repeated for credit up to 25 credits. Course Equivalent: GEO 4911. Attribute: Writing Course. Class not open to: Freshmen.

**POL 4940 POLITICAL INTERNSHIPS (2-15)** Registration Approval: Intern Learning Contract Req. Prerequisites: Junior standing, at least 15 credits in political science. Provides opportunities for practical experience in national, state or local governmental bodies and agencies or political organizations. Available with a program designed in advance and approved by a political science faculty member. (Maximum of 10 credits applicable to POL major.) May be repeated for credit up to 30 credits. Class not open to: Freshmen.

## Pre-Law

### Reed 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 possible during their study at SPU. All such students are assisted by a pre-law advisor with choice of a major and program of courses suitable for law school, and are provided information for taking the Law School Admission Test and information regarding application to law school. A specific course, POL 3780 Law and Society, is also offered to enhance the program of all pre-law students as they progress towards law school applications and career choices.

## Pre-Professional 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 individual program coordinator for information.

### PRE-MEDICINE AND PRE-DENTISTRY

#### A. Kenneth Moore, Coordinator, Department of Biology

It is important to stress that medicine and dentistry are recognized as areas in the healing arts. As such they are best served by practitioners well grounded in the liberal arts, human sciences, and the pure sciences.

Strong competition exists for admission to professional schools, especially in medicine, and it is important to obtain advising from the Coordinator of Pre-Medicine and Pre-Dentistry to plan a strong program. To become a competitive candidate, 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, the MCAT or DAT scores; a letter of evaluation from the Pre-Professional Health Science Committee; other support letters; clinical and/or research experience; and an interview with the medical or dental school admissions committee.

### Medical School Admissions Checklist

#### First two college years

1. Select a curriculum that will challenge your abilities and interest in the liberal arts and the basic sciences and fulfill more than minimum premedical requirements. Be sure that other courses taken are in areas of interest which will usually be reflected in a good performance and will enhance your liberal arts background. There is no required or recommended major. Select your major in the field which interests you the most.
2. Get to know your premedical advisor and advisory committee, and how it functions. Speak with senior students and learn of their experiences with them.
3. Involve yourself with extracurricular commitments that are of interest to you, reflect your interest in 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.
5. Learn as much as you can about medicine from physicians, medical students, local hospitals, etc.
6. Try to achieve an outstanding undergraduate record and grade point average. Should you do poorly in 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.

#### Third Year

1. Continue to improve or maintain a high academic performance.
2. Obtain a copy of the Association of American Medical Colleges' Medical School Admission Requirements. Study its contents and make note of any changes or new schools of medicine that may have new entering classes.
3. Prepare for the MCAT (some may choose to enroll in 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 excellent, visit and talk to schools of your interest. Speak to their students to learn about the curriculum design and general attitudes.
5. Carefully assess your chances for entrance into medical school and apply to the schools that interest you most and where you think you might have a better chance of admission.
6. If you are prepared to take the MCAT, apply in early winter to take the test which is given in April.
7. At the end of your junior year, write to the medical schools of interest to you for bulletins.
8. Use the early summer to complete all application forms (e.g. AMCAS and ACOMAS) and mail them early. Adhering to deadlines is considered showing minimal interest.

#### Fourth year

1. Be sure that all necessary materials, i.e., transcripts, have been forwarded to AMCAS, ACOMAS 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 appropriate letter of recommendation for you to the schools to which you apply.
3. If you haven't taken the MCAT apply in early summer to take the test in August.
4. If your MCAT scores are poor or only average, consider retaking the test.
5. Complete all scholarship and loan applications as soon as possible. To be eligible for financial aid you must complete the FAF form. Consider other means of financing if necessary.
6. In early autumn continue to evaluate your admission potential. You may decide to apply to additional medical schools. If so, be aware of their application deadline dates so that your application is eligible for consideration.
7. If you are admitted to the school of your choice, notify all other schools in which you are no longer interested to help accelerate the admission process for them.
8. As the school year progresses, send any additional items (such as first quarter grades) to the schools considering your application.
9. If you are placed on the waiting list, continue to add to your record all additional credits, honors, experiences, etc., to strengthen your application.
10. If you are admitted to medical school, forward your deposit and begin planning for housing and loans, etc.
11. If you are not admitted, consider and discuss alternatives with the Coordinator.

### Pre-Professional Health Programs



Pre-Professional Health Programs

A summary of procedure

- 1. Open a file with the Coordinator of Pre-Medicine and Pre-Dentistry as soon as possible in your first year.
- 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 the summer between your junior and senior years.

General Coursework For Pre-Medical And Pre-Dental

Since specific requirements vary from school to school, students should become familiar with the specific requirements of the medical or dental schools to which they intend to apply. However, nearly all medical and dental schools have at least the following minimal expectations:

Chemistry (including 1 year general, 1 year organic)	30
Biology (1 year general plus selected upper-division core courses)	20-25
Physics	15
English	10
Math (1 year college level mathematics)	15
Total	90-95

Additional science courses are strongly recommended in anatomy, biochemistry, cell biology, developmental biology, genetics, histology, physical chemistry, and physiology. Some medical schools also suggest a knowledge of calculus. All applicants must complete a minimum of 135 quarter credit hours (three years) of academic work. However, with the increasing competition to enter medical and dental schools, it is rare for applicants to be admitted with less than four years of undergraduate work and a bachelor's degree.

DENTAL HYGIENE

**Annalee Oakes, Coordinator, School of Health Sciences**  
Students planning a career in dental hygiene have two popular options available for completion of their academic education: (1) take a two year pre-dental hygiene program at SPU prior to transferring to a university which offers a bachelor of science degree in dental hygiene, (2) complete a Bachelor of Arts or Science at SPU and take a fifth year program at a selected university. Required courses include:

BIO 2101, 2102, 2103 General Biology	15
BIO 2129, 2130 Human Anatomy and Physiology	10
CHM 1211 General Chemistry	5
CHM 2371 Organic Chemistry	5
PSY 1180 General Psychology	5
SOC 1110 Introduction to Sociology	5
Communication	5
Total	50

In addition, physics is strongly recommended

MEDICAL RECORDS ADMINISTRATION

**Annalee Oakes, Coordinator, School of Health Sciences**  
Students wishing to enter the field of medical records administration may take part of their education at SPU and part at another college or university. Students who wish to receive their bachelor's degree from SPU must satisfy

requirements for a major at SPU before, or at the same time, while taking professional course requirements. Specific courses to be taken include:

CHM 1211 General Chemistry	5
PHI 1101 Introduction to Philosophy	5
PSY 1180 General Psychology	5
BIO 2101 General Biology	5
BIO 2129, 2130 Human Anatomy and Physiology	10
BIO 3351 General Microbiology	5
MAT 1360 or HSC 4044 Statistics	5
ECN 1100 Fundamentals of Economics	5
BUS 3414 Business Law	5
BUS 3614 Management Theory and Behavior	5
BUS 3620 Management Information Systems	5
BUS 3657 Human Resource Management	5
Total	65

PHYSICAL THERAPY

**A. Kenneth Moore, Coordinator, Department of Biology**  
In order to meet American Physical Therapy Association accreditation standards, all physical therapy educational programs are required to lead to a graduate (master's) degree. Therefore, students seeking admission to a physical therapy educational program need to complete a bachelor's degree in any field plus include the following prerequisite coursework:

ENG 1105 Writing in College	5
or ENG 2205 Writing to be Read	3
BIO 2101, 2102, 2103 General Biology	15
BIO 2129, 2130 Human Anatomy and Physiology	10
BIO 3351 General Microbiology	5
CHM 1211 General Chemistry	5
CHM 2371, 2372, 2373 Organic Chemistry	15
PHY 1101, 1102, 1103 General Physics	15
CSC 1115 Computing and Applications	5
Statistics course	5
PSY 1180 General Psychology	5
PSY 4460 Abnormal Behavior	5

PRE-OPTOMETRY

**A. Kenneth Moore, Coordinator, Department of Biology**  
The need for a well-trained Doctor of Optometry is increasing. Admission Committees for four year programs leading to the Doctor of Optometry consider the following factors: Strength and breadth of academic record, OAT scores, evidence of work (paid or volunteer) under the supervision of a professional in optometry, extra curricular activities and community service, and strength of recommendations and on-campus interviews.

Enrollments are limited and admission is selective. All pre-optometry courses must be completed before entering a college of optometry. The following represents a minimum pre-optometry program:

BIO 2101, 2102, 2103 (some schools prefer BIO 2129 and 2130 and BIO 3351) General Biology	15
CHM 1211 General Chemistry	5
CHM 2371, 2372, 2373 Organic Chemistry	15
Mathematics (including a course in Calculus)	15
MAT 1360 or HSC 4044 Statistics	5
PHY 1101, 1102, 1103 or 1121, 1122, 1123 Physics	15
Psychology	5
English (Must include a course in expository writing)	9
Total	89

PSYCHOLOGY

**Mícheál Roe, Chair; Jeffrey Joireman, M. Kathleen Lustyk, 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 maintain psychological and social health. Modern psychology constantly changes as discoveries reveal new understandings, new research possibilities, and new applications to the human condition.

Psychology provides an excellent background for careers in counseling, teaching, social service, medicine, nursing, law, business, and many other areas of work where interpersonal skills are needed. Our program allows students to obtain a double major, thereby combining career interests.

Seattle Pacific University's location in an urban area provides students with opportunities to gain field experiences in mental health clinics, social agencies, 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 psychology faculty on research projects are available to interested students. Leadership skills can be enhanced by participating as a small group discussion leader for students 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 students to enter and contribute to the field of Psychology; (3) to nurture students toward valuing themselves and others as persons of worth, created in God's image; and (4) to empower students to act in this world. That is, actively celebrating God's human and non-human creation, actively showing mercy and compassion to the vulnerable, and actively challenging and changing aspects of society which deny or denigrate persons.

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

Requirements for the Psychology Major

(55 Credits; 28 upper-division)  
Prerequisite to declaring major: 15 credits in college-level psychology  
[Refer to page 52 for a summary of degree requirements]

Required core courses	
PSY 1180 General Psychology	5
PSY 1185 Orientation to Psychology as a Discipline*	2
PSY 2360 Introduction to Statistics in Social and Behavioral Science (5)	5
or MAT 1360 Introduction to Statistics (5)	5
PSY 3448 Tests and Measurements in Psychology	5
PSY 3588 Psychological Research Methods	5
PSY 4688 History and Systems in Psychology	5
Select one course from the following:	
PSY 4940 Internship	5
PSY 4970 Independent Research	Minimum of 3
Electives (see below)	25
Total	55

Recommended sequence: PSY 1180 and PSY 1185 in first or second year; PSY 2360 or MAT 1360 in second year; PSY 3588 in second or third year; PSY 3448 in third year; PSY 4688, and PSY 4940 or PSY 4970 in fourth year.

Electives - Select 5 credits from each of the following four areas

Developmental Psychology	
PSY 2470 Life Span Developmental Psychology (5)	
PSY 3460 Child Developmental Psychology (5)	
PSY 4420 Adolescent Developmental Psychology (5)	5
Social Psychology	
PSY 3438 Social Psychology (5)	
PSY 3439 Motivation and Leadership (5)	5
Physiological Basis of Behavior	
PSY 4388 Sensation and Perception (5)	
PSY 4488 Physiological Psychology (5)	5
Clinical/Counseling related areas of Psychology	
PSY 3442 Psychology of Personality (5)	
PSY 4460 Abnormal Psychology (5)	
PSY 4470 Counseling Theory and Practice (5)	5
Minimum of 5 additional credits as "free" electives**	5
Total	25

Requirements for the Psychology Minor

(30 Credits; 15 upper-division)

PSY 1180 General Psychology	5
PSY 1185 Orientation to Psychology as a Discipline*	2
PSY 2360 Introduction to Statistics in Social and Behavioral Science (5)	5
or MAT 1360 Introduction to Statistics (5)	5
PSY 3588 Psychological Research Methods	5
"Free" electives**	13
Total	30

\* Transfer students entering SPU with at least 15 credit hours of psychology coursework may request a waiver of the PSY 1185 requirement and fulfill the 2 credit hours associated with PSY 1185 through other course experiences.  
\*\* Both PSY 1250 and PSY 2250 (Relationship Development I and II) must be successfully completed if the student desires to apply these courses toward the 30 credits in a psychology major or minor.

Complementary Preparation

Additional study of human cultures and human agencies will better prepare psychology students to serve in this world. In consultation with sociology faculty, coursework in anthropology and social service is recommended.

Psychology Courses

**PSY 1180 GENERAL PSYCHOLOGY: INDIVIDUAL IN GROWTH (5)** Introduces psychological principles of intrapersonal dynamics, interpersonal relationships, human development, abnormal behavior and the psychological processes of learning, perception, motivation and cognition.

**PSY 1185 ORIENTATION TO PSYCHOLOGY AS A DISCIPLINE (2)** Prerequisite: PSY 1180. A foundation course which focuses on the purposes, methods, and assumptions of psychology. Students will have practical experience in locating, reading, and interpreting psychological studies, in drawing inferences and in critical thinking.

**PSY 1250 RELATIONSHIP DEVELOPMENT I (2)** A foundation course introducing healthy relational principles through self-exploration of interpersonal needs and dynamics. Includes the application of psychological research to gender differences, family of origin issues, relational needs, and the dating process.

**PSY 2250 RELATIONSHIP DEVELOPMENT II (2)** Prerequisite: PSY 1250. Presents the conceptual and practical basis for making healthy relational commitments. Includes the application of psychological research to friendship, love, intimacy, marital myths, and mate selection. Class not open to: Freshmen and Sophomores.

Psychology

## Psychology

*"Study in psychology awakens us to the marvelous diversity, complexity and intricacy of our personal, social and cultural worlds. The privilege to serve God's justice and compassion in such worlds should move us in gratitude toward hearts of humility and gentleness."*

**Mícheál Roe**  
College of Arts and Sciences



**PSY 2360 INTRODUCTION TO STATISTICS IN SOCIAL AND BEHAVIORAL SCIENCES (5)** Prerequisites: High school algebra or equivalent; satisfactory completion of math proficiency requirement; and PSY 1180. Presents the conceptual basis and application of statistical analysis in social and behavioral research. Includes descriptive statistics, correlation and regression, hypothesis testing and inferential statistics. An introduction to analysis of variance and non-parametric statistics will also be provided. Course Equivalent: SOC 2360.

**PSY 2418 PSYCHOLOGY OF LEARNING (5)** Prerequisite: PSY 1180. A study of classical conditioning, instrumental learning and memory with special emphasis on theory, methodology, findings and applications.

**PSY 2422 PSYCHOLOGY OF PERSONAL GROWTH (3)** Prerequisite: PSY 1180. Views adjustive processes in terms of coping with struggles in life. Building on an understanding of adjustment, growth and self, the course explores coping strategies dealing with physical, cognitive, emotional and social influences.

**PSY 2470 LIFE SPAN DEVELOPMENTAL PSYCHOLOGY (5)** Prerequisite: PSY 1180. Surveys human development from conception to death, focusing on the interacting processes of physical, cognitive, social, emotional and moral development within sociocultural contexts, including developmental tasks and transitions associated with developmental stages. Students may not receive credit for both PSY 2470/3470 and PSY 3460.

**PSY 3438 SOCIAL PSYCHOLOGY (5)** Prerequisite: PSY 1180. Recommended: PSY 1185. Studies human social behavior and social influence processes. Major topics include affiliation, aggression, altruism, attraction, attitude formation and change, competition, compliance, conformity, cooperation, and persuasion. Students may not receive credit for both PSY 3438 and SOC 4440.

**PSY 3439 MOTIVATION AND LEADERSHIP (5)** Prerequisite: PSY 1180. Recommended: PSY 1185. Presents the theories and principles of motivation and leadership with practical applications in business, church, community, and educational settings. Course Equivalent: BUS 3439.

**PSY 3442 PSYCHOLOGY OF PERSONALITY (5)** Prerequisite: PSY 1180. Surveys the major theoretical views of personality with emphasis on comparison, contrast, and practical implications for improving the understanding of self and others.

**PSY 3448 TESTS AND MEASUREMENTS IN PSYCHOLOGY (5)** Prerequisites: PSY 1180, 1185 and either MAT 1360 or PSY 2360. A foundational course for anyone who, with additional training, intends to use educational or psychological tests or evaluations. Develops concepts and skills used in the development, selection, administration and interpretation of psychological tests and non-testing means of evaluation.

**PSY 3460 CHILD DEVELOPMENTAL PSYCHOLOGY (5)** Prerequisite: PSY 1180. Surveys child development from conception through pre-adolescence, focusing on the interacting processes of physical, cognitive, social, emotional and moral development within sociocultural contexts, including parent-child relationships. Includes an introduction to the observation, measurement and evaluation of children. Students may not receive credit for both PSY 3460 and PSY 2470/3470.

**PSY 3470 LIFE SPAN DEVELOPMENTAL PSYCHOLOGY - M (5)** Prerequisite: PSY 1180. Surveys human development from conception to death, focusing on the interacting processes of physical cognitive, social, emotional and moral development within sociocultural contexts, including developmental tasks and transitions associated with developmental stages. Cannot be taken for credit if PSY 2470 Life Span Developmental Psychology or PSY 3460 Child Psychology have been taken. This course is offered only via distance learning.

**PSY 3588 PSYCHOLOGICAL RESEARCH METHODS (5)** Prerequisites: PSY 1180, and either MAT 1360 or PSY 2360. Recommended: PSY 1185. Explores the nature of scientific inquiry, the variety of psychological research methods, the design of internally and externally valid studies, and the application to designs of statistical techniques. Develops skills in locating, interpreting and evaluating published research. SOC 3751 may be substituted for PSY 3588 in the psychology major, although PSY 3588 is the preferred course. Students may not receive credit for both PSY 3588 and SOC 3751. Attribute: Writing Course.

**PSY 3600 SMALL GROUP LEADERSHIP (2)** Registration Approval: Instructor. Prerequisite: PSY 1180. Focuses on theory and applications of research regarding small group interaction and

leadership. Will provide students with practical supervised experience in group leadership. May be repeated for credit 2 times. Class not open to: Freshmen and Sophomores.

**PSY 4388 SENSATION AND PERCEPTION (5)** Prerequisites: PSY 1180 and 1185. Explores the physiological and behavioral phenomenon associated with sensation and perception. An understanding of the neural and physiological workings of the senses is provided. Research examples of normal and dysfunctional perceptual processes are provided in both a laboratory and natural context. Students are introduced to the primary literature as well as given an opportunity to explore the processes of sensation and perception through interactive lab assignments. Extra fee.

**PSY 4402 PSYCHOLOGY OF RELIGION (3)** Prerequisite: PSY 1180. Focuses on psychological processes of religious motivation, rituals, recruitment, conversion, and the development and maintenance of religious beliefs. Stages of faith development and the effects of religion on psychological functioning will be explored. Class not open to: Freshmen and Sophomores.

**PSY 4410 CROSS-CULTURAL PSYCHOLOGY (3)** Prerequisite: At least one introductory course in the social and behavioral sciences. A comparative study of perception, cognition and life span development in non-Western cultures. Special focus is placed on understanding Western and non-Western world views and their relationship to such topics as child rearing practices, psychosocial adjustment and spiritual expression. Class not open to: Freshmen and Sophomores.

**PSY 4415 COGNITIVE PSYCHOLOGY (5)** Prerequisites: PSY 1180, 1185. A study of theories, methodologies and findings of cognitive psychology. Focuses on the information processing aspects of memory, concept formation, reasoning, problem solving, and development.

**PSY 4420 ADOLESCENT DEVELOPMENTAL PSYCHOLOGY (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 dimensions within sociocultural contexts. Includes an introduction of the observation, measurement and evaluation of adolescents.

**PSY 4428 EXPERIMENTAL PSYCHOLOGY (5)** Prerequisites: PSY 1180, 1185, and either PSY 2360 or MAT 1360. Studies and applies single and multivariate experimental designs in a laboratory and seminar format. Emphasis is given to the use of analysis of variance.

**PSY 4460 ABNORMAL BEHAVIOR (5)** Prerequisites: PSY 1180. Recommended: PSY 1185. Provides critical analysis of the history, etiology and symptomatology of abnormal behavior with reference to modern methods of assessment and treatment. Emphasizes an interdisciplinary approach to understanding maladaptive behavior.

**PSY 4470 COUNSELING, THEORY AND PRACTICE (5)** Prerequisites: PSY 1180, 1185, 3442. Provides an overview of the current approaches and techniques of psychological counseling. Examines the critical issues of counseling with an emphasis on personal skill development. Provides application through use of role play, supervised experiences and video tape recording.

**PSY 4488 PHYSIOLOGICAL PSYCHOLOGY (5)** Prerequisites: PSY 1180, 1185. The biological bases of behavior are explored by combining essential concepts in anatomy, physiology, biochemistry and pharmacology within the context of behavioral processes. The nervous and endocrine systems are presented as a foundation for behavior.

**PSY 4688 HISTORY AND SYSTEMS OF PSYCHOLOGY (5)** Prerequisites: PSY 1180, 1185 and a minimum of 25 hours of psychology. Gives an historical review and philosophical analysis of the development of psychology as a discipline. Emphasis is given to the relationship between specific historical antecedents and contemporary trends in psychology. Attribute: Writing Course. Class not open to: Freshmen and Sophomores.

**PSY 4900 INDEPENDENT STUDY (1-3)** Registration Approval: Independent Study Agreement. Prerequisites: PSY 1180, 1185. Student will carry out an extensive exploration of a topic in psychology. Study is under supervision of a psychology faculty member, and builds on previous course preparation in psychology. Objective is to provide greater depth in analysis, synthesis and evaluation of the topic of interest. Substantial reading and writing expected. Credits may not be applied toward the minimum 30 needed to complete the minor. Credit variable up to a maximum of 3 per term. May be repeated for credit up to 9 credits. Class not open to: Freshmen and Sophomores.

**PSY 4910 TOPICAL SEMINAR IN PSYCHOLOGY (3)** Registration Approval: Instructor. Prerequisites: PSY 1180, 1185, junior or senior standing. Seminar style course designed to consider contemporary and controversial issues in psychology. May be repeated for credit 3 times. Class not open to: Freshmen and Sophomores.

**PSY 4940 INTERNSHIP IN PSYCHOLOGY (1-5)** Registration Approval: Intern Learning Contract Req. Prerequisites: PSY 1180, 1185, junior or senior standing. Provides field experience in some phase of psychological work in the community. 25 hours of field work will be completed for each credit. Credits may not be applied toward the minimum 30 needed to complete the minor. For students desiring placements in social service agencies, SOS 4310 and SOS 4380 are recommended. May be repeated for credit up to 15 credits. Class not open to: Freshmen and Sophomores.

**PSY 4970 INDEPENDENT RESEARCH (1-3)** Registration Approval: Instructor. Prerequisites: PSY 1180, 1185, 3588, junior or senior standing. Student will carry out empirical research under the supervision of a psychology faculty member and synthesize the findings in a written research report. Objective is to apply skills in research methods and data analysis. Credits may not be applied toward the minimum 30 needed to complete the minor. Credit variable up to a maximum of 3 per term. May be repeated for credit up to 9 credits. Class not open to: Freshmen and Sophomores.

## Religion

**Dwight Van Winkle, Chair; Miriam Adeney, Robert Drov Dahl, William Lane, Eugene Lemcio, Frank 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 systems operative in our world; and (2) to guide students toward a thoughtful, vital, owned Christian faith.

The first goal recognizes that Christian faith and practice is one option among many in the 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 that they have an informed faith, and to understand the sources of authority by which they regulate their lives, so that they have a confident faith. They can then respond positively to other belief systems and to non-Christian values and practices from the perspective of an intelligent faith validated by Christian integrity and 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 the ways Scripture, Christian tradition, reason and personal experience shape Christian thought and life.

The Department of Religion serves all SPU students through courses meeting Foundations requirements. These requirements, described elsewhere in this Catalog, introduce students to the Christian theological tradition and its 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 reflecting the Wesleyan quadrilateral of Scripture, Christian tradition, reason, and personal experience. Each major then adds additional credits in specialized 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 strengthen the connection between Christian faith and one's life in the work-place, in the home, in the church and in the world. An International Service Certificate program is also offered to those interested in living and working as a Christian in a multicultural setting.

## 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+" grade (2.3 grade-point) in an introductory religion course.

### EDUCATIONAL MINISTRY/CHRISTIAN EDUCATION MAJOR

The field of educational ministry, traditionally known as Christian education, is an interdisciplinary area addressing the question of how we facilitate spiritual development in persons. To answer this question the field explores the foundational 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 educational/equipping ministry of the church. It provides a pre-professional course of study within a liberal arts perspective for students pursuing full-time ministry in a church or parachurch setting.

Occupationally, educational ministry majors work within church and parachurch organizations. Possible church roles include: Director of Christian education, youth director and children's director. Possible parachurch settings include: student development, Christian service organizations, Christian camping and curriculum design.

### Requirements for the Educational Ministry/Christian Education Major

(68-72 Credits)

[Refer to page 52 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  
Select one upper-division BIL course ..... 5

#### History of Christianity

Select two courses from the following:

REL 3601 Early and Medieval Christianity (5)  
REL 3602 Reformation and Modern Christianity (5)  
REL 3631 Women in Christianity (3) ..... 8-10

#### Christian Theology

REL 2720 Introduction to Theology ..... 5  
REL 3701 Exploring Theology (5)  
or REL 4725 Issues in Theology (5) ..... 5

#### Christian Life and Ministry

REL 1501 Dynamics of Christian Formation (5)  
or REL 4498 World Religions (3) ..... 3-5

#### Educational Ministry

REL 2560 Foundations for Educational Ministry ..... 5  
REL 2563 Curriculum and Instruction ..... 5  
REL 3501 Human Development and Christian Faith ..... 5  
REL 4571 Current Issues in Educational Ministry ..... 3

## Religion



REL 4581 Leadership in Educational Ministries .....	5
REL 4584 Child Development and Educational Ministry* .....	3
REL 4585 Adolescent Development and Educational Ministry* .....	3
REL 4586 Adult Development and Educational Ministry* .....	3
<b>Total .....</b>	<b>68-72</b>
<i>*One practicum credit (REL 3930/4930) with age-level courses recommended.</i>	

### RELIGIOUS STUDIES MAJOR

Courses in religious studies provide students the opportunity to study biblical literature and Christian theology. The value of this major within the liberal arts is to nurture those skills and capacities required of a thoughtful and articulate faith. As a result of majoring in religious studies, the student is well prepared either for the work place or for graduate study in the humanities or the professions. Besides enriching the student's life with God, this major also seeks to enhance the student's service to the church.

### Requirements for the Religious Studies Major

(61-65 Credits)

[Refer to page 52 for a summary of degree requirements]

#### Biblical Literature

Biblical Heritage Foundations requirements .....	10
Select one course from the following:	
BIL 3301 Genesis (5)	
BIL 3305 Isaiah (5)	
BIL 3401 The Life and Teachings of Jesus (5)	
BIL 3402 Acts: Vocation and Vision (5)	
BIL 3403 Paul and His Mission (5) .....	5
Select two courses from the following:	
BIL 4301 The Former Prophets (5)	
BIL 4302 Old Testament Writings (5)	
BIL 4401 The Non-Pauline Letters (5)	
BIL 4402 The Book of Revelation (5) .....	10
BIL 4601 Biblical Theology (5) .....	5

#### History of Christianity

Select two courses from the following:	
REL 3601 Early and Medieval Christianity (5)	
REL 3602 Reformation and Modern Christianity (5)	
REL 3631 Women in Christianity (3) .....	8-10

#### Christian Theology

REL 2720 Introduction to Theology .....	5
Select two courses from the following:	
REL 3701 Exploring Theology (5)	
REL 4621 Theology of Wesley (5)	
REL 4625 Theological Classics (5)	
REL 4725 Issues in Theology (5) .....	10

#### 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)	
REL 4498 World Religions (3) .....	8-10
<b>Total .....</b>	<b>61-65</b>

## Religion Minors

### BIBLICAL STUDIES MINOR

The minor in biblical studies affords the opportunity to focus on biblical literature at a less concentrated level than

the major in religious studies. Still, its primary purpose is to move the student toward a thoughtful, integral, articulate 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 Testament courses .....	10
New Testament courses .....	10
Old or New Testament BIL courses* .....	10
<b>Total .....</b>	<b>30</b>
<i>*Students may enroll in BIL 4601 Biblical Theology to fulfill 5 credits of this requirement.</i>	

### 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 Minor

(30-37 Credits)	
REL 3383 Foundations for Witness and Service .....	3
REL 3401 Living in Another Culture .....	3
REL 3487 Field Service Methods .....	3
REL 4498 World Religions .....	3
REL 3488 Cross-Cultural Communication .....	3
REL 3499 Community Development .....	3
REL 4419 Culture Area Study .....	3
REL 4910 World Christianity: Senior Tutorial .....	1
REL 4940 Internship* .....	8-15
<b>Total .....</b>	<b>30-37</b>
<i>*An intern 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.</i>	

### EDUCATIONAL MINISTRY/CHRISTIAN EDUCATION MINOR

Issues in spiritual development and the educational/equipping ministry of the church affect all Christians. A minor in educational ministry provides an ideal program for exploring these issues and strengthening a student's ability to serve in present and future life-roles: church leader or teacher, Christian parent, a profession which involves a helping relationship, and other roles concerned with nurturing spiritual development.

### Requirements for the Educational Ministry/Christian Education Minor

(30 Credits)	
REL 2560 Foundations of Educational Ministry .....	5
REL 2563 Curriculum and Instruction .....	5
REL 4581 Leadership in Educational Ministry .....	5
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)	

REL 4586 Adult Development and Educational Ministry (3) .....	6
One course from the Christian Theology section .....	5
Elective course work in educational ministry .....	3-5
<b>Total .....</b>	<b>30</b>

### YOUTH MINISTRY MINOR

Reaching today's youth with the Gospel requires dedicated, capable leadership. The minor prepares students for effective ministry with youth.

#### Young Life Program

Students may combine the youth ministry minor with a supervised internship with Young Life. Interns may work toward full-time placement after college through Young Life's Church Partnership program or full-time Young Life staff. For more information, contact the Department of Religion.

### Requirements for the Youth Ministry Minor

(31-36 Credits)	
COM 1101 Introduction to Interpersonal Communication ...	3
PSY 4420 Adolescent Developmental Psychology .....	5
REL 2560 Foundations for Educational Ministry .....	5
REL 3501 Human Development and Christian Faith .....	5
REL 4585 Adolescent Development and Educational Ministry .....	3
REL 3487 Practical Mission Strategies (3) or SOC 3862 Racial and Ethnic Minorities (5) .....	3-5
Select one course from the following:	
COM 1321 Speaking Before Groups (5)	
COM 2227 Small Group Discussion and Leadership (5)	
REL 2563 Curriculum and Instruction (5) .....	5
COM 4940 Internship (2-5) or REL 4940 Internship (2-5) .....	2-5
<b>Total .....</b>	<b>31-36</b>
Recommended courses: Students wanting to supplement the minor with additional course work should consider courses in biblical studies, theology, Christian education and communication.	

### INTERNATIONAL SERVICE CERTIFICATE

This brief program offers useful training for students who hope 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 Community Development (3)	
REL 4419 Culture Area Study (3)	
REL 4498 World Religions (3) .....	3
Select one approved course in the student's major (i.e., International Business) or a second course chosen between:	
REL 3499 Community Development (3)	
REL 4419 Culture Area Study (3)	
REL 4498 World Religions (3) .....	3-5
<b>Total .....</b>	<b>9-11</b>

## Religion Courses

### BIBLICAL LITERATURE\*

*\*Prerequisite to taking a media course in biblical literature, matriculated undergraduate students must have junior or senior standing and must document prior completion of a regularly scheduled BIL 1220, 3101 or 3201 course in order to obtain permission of instructor to register. Only 5 media credits may be applied towards Foundations requirements and 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 by introducing the Christian Scriptures as a faithful and trusted witness to God, whose story of transforming love is told by different biblical writers from diverse perspectives. Theological understanding will increase as students study the Bible in the light of its literary, historical and cultural contexts. Tools of careful Bible study are provided which enable students to explore the meaning of significant biblical passages and to adapt their message to contemporary faith and life. Class not open to students who have enrolled in BIL 3101 or 3201.

**BIL 3101 OLD TESTAMENT INTRODUCTION (5)** Explores the literature and history of the Old Testament in the light of its geographical, political, and cultural settings. Presents an inductive study of selected literary units, major themes, text and canon. Class not open to students who have enrolled in BIL 1220. This course is also available through distance learning. Class not open to: Freshmen.

**BIL 3201 NEW TESTAMENT INTRODUCTION (5)** Explores 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 of faith. Class not open to students who have enrolled in BIL 1220. This course is also available through distance learning. Class not open to: Freshmen.

**BIL 3301 GENESIS (5)** Prerequisite: BIL 1220 or 3101. If we don't begin with Genesis, we don't really begin! The book of Genesis addresses the most important questions of human life: "Where did the heavens and earth come from?" and "Where did our messed up world have its beginning and what does God plan to do about it?" In answer, Genesis tells the compelling story of a powerful but personal God, and a people who are sometimes saintly and often outrageous. By this story the fate of the whole world can be properly understood. Attribute: Writing Course.

**BIL 3305 ISAIAH (5)** Prerequisites: BIL 1220 or 3101. After learning to properly interpret prophecy, we listen to Isaiah's answers to these questions: How does God work with those who believe God's love provides license to behave irresponsibly with God and neighbor? What comfort can there be for those who suffer and are disappointed with God?

**BIL 3306 POETIC LITERATURE: THE PSALMS-M (5)** Prerequisite: BIL 1220, or 3101, or 3201 (non-media). Highlights main features of the book of Psalms, its structure and content, with a survey of Hebrew poetry. Emphasizes study of individual Psalms in their respective groups. This course is available only by media. Class not open to: Freshmen and Sophomores.

**BIL 3307 OLD TESTAMENT BOOK STUDY (2)** Prerequisite: BIL 1220 or 3101 or 3201. An in-depth study of a selected book of the Old Testament. Biblical study methods are introduced and employed to construct the original, canonical, and continuing significance of that book's argument for God's people. Emphasis is placed on the book's importance as the ongoing context for the church's reflection on the gospel of God. See current Time Schedule for book selected to study. May be repeated for credit up to 12 credits.

**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 accounts in parallel form (alongside one another) and according to their authors' literary methods.

**BIL 3402 ACTS: VOCATION AND VISION (5)** Prerequisite: BIL 1220 or 3201. The Acts of the Apostles tell Luke's story of the first Christians. Acts is a story of mission and magic, of human conversion and divine calling, of Spirit and sacrifice. Our study will

## Religion

seek to understand the relevance of Luke's message within his first century world but also, more importantly, for his 20th century readers.

**BIL 3403 PAUL AND HIS MISSION (5)** Prerequisite: BIL 1220 or 3201. A fully contextual approach to Paul demonstrates the missionary character of his call, vision, and thought. Paul proves to be a task theologian, whose theology is developed as a response to the task of nurturing young congregations. The approach to Paul's letters is historical, sociological and theological.

**BIL 3407 NEW TESTAMENT BOOK STUDY (2)** Prerequisite: BIL 1220 or 3101 or 3201. An in-depth study of a selected book of the New Testament. Biblical study methods are introduced and employed to construct the original, canonical, and continuing significance of that book's argument for God's people. Emphasis is placed on the ongoing context for the church's reflection on the gospel. See current Time Schedule for book selected to study. May be repeated for credit up to 12 credits.

**BIL 3408 ROMANS - M (5)** Prerequisite: BIL 1220 or 3201 (non-distance learning). Develops the argument in Romans as a summary of Paul's message, and as his historic response to the controversies provoked by his Gentile mission. Applies to concerns 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)** Prerequisite: BIL 1220 or 3101. Covers Joshua, Judges, I and II Samuel, I and II Kings. Surveys the historical background, literary analysis, and theological interpretation of this important biblical corpus. Attribute: Writing Course.

**BIL 4302 OLD TESTAMENT WRITINGS (5)** Prerequisite: BIL 1220 or 3101. Covers Psalms, Proverbs, Job, Song of Songs, Ruth, Lamentations, Ecclesiastes, Esther, Daniel, Ezra-Nehemiah, and Chronicles. The instructor will select which of these books will be emphasized. Examines the historical background, literary analysis and theological significance of selected books contained in this division of the Hebrew canon. Attribute: Writing Course.

**BIL 4401 THE NON-PAULINE LETTERS (5)** Prerequisite: BIL 1220 or 3201. A study of the New Testament letters from Hebrews to Jude, with attention on the book of James. Attention to the distinctive contribution each writing makes to a fully biblical vision of Christian life and faith. The approach to these writings will emphasize their complementary relationship to the Pauline letters within the New Testament. Attribute: Writing Course.

**BIL 4402 THE BOOK OF REVELATION (5)** Prerequisite: BIL 1220 or 3201. Instead of being the "problem child" of the New Testament and the "happy-hunting ground of kooks and weirdos," this book, if read intelligently and sympathetically, can become the Bible's crown jewel. We will also note how many of its themes have had a profound influence on art, music, literature and modern psychology. Attribute: Writing Course.

**BIL 4601 BIBLICAL THEOLOGY (5)** Prerequisites: BIL 1220 or 3101 or 3201. The Bible testifies in a variety of ways to what God did in Israel and in Christ to get the world back on track. Most people find this biblical testimony fascinating and compelling. In addition, those who regard the Bible as God's gift to the community of faith will find its message indispensable for their spiritual, moral and theological formation. Attribute: Writing Course.

**BIL 4900 INDEPENDENT STUDY (1-5)** Registration Approval: Independent Study Agreement. May be repeated for credit up to 15 credits.

## CHRISTIAN THEOLOGY

**REL 2720 INTRODUCTION TO THEOLOGY (5)** Surveys the basic themes of Christian theology: the one God, creator of all things, made flesh in Jesus Christ, present now in the Holy Spirit; justification by grace through faith that works in love; the church; the Christian in society; human destiny. Readings from classical and contemporary theologians, as well as novels, films, music, and case studies may be used.

**REL 3701 EXPLORING CHRISTIAN THEOLOGY (5)** Prerequisite: REL 2720. In-depth study of essential affirmations of Christian faith from historical and theological perspective. Topics will vary 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. Intensive study of a particular doctrinal theme or theological problem of contemporary concern. Current topics: (1) religious experi-

ence; (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 Approval: Independent Study Agreement. May be repeated for credit up to 15 credits.

## CROSS CULTURAL MINISTRIES

## REL 3383 FOUNDATIONS FOR WITNESS AND SERVICE

**(3)** In a pluralistic world, why emphasize Jesus Christ? What is God's relation to other cultures? Through Bible study, students glimpse 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 coping, bonding, lifestyle, family, and team relations in an alien milieu. Provides an introduction to religions, to the indigenous Christian community, and to economic development. Special applications for teachers, nurses, business people, agriculturalists, nutritionists, social workers, musicians, mothers, and evangelists who work in another culture. Required for many summer interns.

**REL 3487 FIELD SERVICE METHODS (3)** Half of this course is laboratory work in a cross-cultural ministry in Seattle, under the 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 empathetic encounter with peoples in the context of Christian witness and service. May be repeated for credit 2 times.

**REL 3499 COMMUNITY DEVELOPMENT (3)** Course addresses current knowledge and strategies in community health, agriculture, small business development, community organization, and refugee assistance for the nonspecialist missionary. Acquaints students with resources and agencies.

**REL 4419 CULTURE AREA STUDY (3)** Course will focus on a culture area such as Latin America, Asia, Muslim world, or Eastern 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 4498 WORLD RELIGIONS (3)** Recommended Prerequisite: REL 3401. Animism, Islam, Buddhism, Hinduism, and Chinese, Japanese and Latin American religions are explored. Each faith is set in philosophical context. Applications for effective Christian witness are developed. Common elements which Christianity shares with each faith are suggested. Apologetic bases for contrasting Christian faith with others are delineated.

**REL 4910 WORLD CHRISTIANITY: SENIOR TUTORIAL (1)** Prerequisites: REL 3401, 3487, 4401, 4940, and 4498. Integrates senior students' theoretical study and practical service. Individualized planning for further career progress.

## EDUCATIONAL MINISTRY/CHRISTIAN EDUCATION

## REL 2560 FOUNDATIONS FOR EDUCATIONAL MINISTRY

**(5)** Introduces students to the definition, scope and nature of the Church's teaching ministry. The task of educational ministry is designing teaching/learning experiences and environments which facilitate Christian formation. Students will examine the ecclesiological, theological, historical, philosophical and psychosocial foundations for educational ministry.

**REL 2563 CURRICULUM AND INSTRUCTION (5)** Provides a systematic approach to curriculum development and instructional theory for Christian education including theological, sociological and psychological concerns at each age-level. Emphasis is on effective Bible teaching.

**REL 3501 HUMAN DEVELOPMENT AND CHRISTIAN FAITH (5)** Studies the integration of theology and life span psychology in an attempt to understand the process of becoming and being Christian. Stage theories of development, human religious experience and metaphorical and narrative theology are addressed.

**REL 4571 CURRENT ISSUES IN EDUCATIONAL MINISTRY (3)** Current topics of interest that relate directly to educational ministry within and beyond the local church. Each year the topics

change, but will be relevant to current educational ministry issues. Attribute: Writing Course. Class open to: Educational Ministry majors and Religious Studies majors.

## REL 4581 LEADERSHIP IN EDUCATIONAL MINISTRIES

**(5)** Prerequisite: REL 2560. A study of leadership from four perspectives: theological issues in leadership; understanding oneself as a leader; leadership behavior and skills; and leadership in a team context. The course focuses on preparation for a leadership position in educational ministry. Attribute: Writing Course.

**REL 4584 CHILD DEVELOPMENT AND EDUCATIONAL MINISTRY (3)** Prerequisites: REL 2560, 3501. Studies age-group characteristics, needs, and interests of children with special emphasis on program development and teaching techniques related to program ideas. Educational Ministry majors may register for a 1 credit practicum (REL 4930) to accompany this course.

**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 youth ministry. Educational Ministry majors may register for a 1 credit practicum (REL 4930) to accompany this course.

**REL 4586 ADULT DEVELOPMENT AND EDUCATIONAL MINISTRY (3)** Prerequisite: REL 2560, 3501. Studies the various periods of adulthood from the standpoint of characteristics, needs, aims, material, and methods of teaching. Emphasizes the teaching process for adults in terms of andragogy (a shared approach to learning) as opposed to pedagogy. Educational Ministry majors may register for a 1 credit practicum (REL 4930) to accompany this course.

**REL 4930 PRACTICUM (1-3)** Provides an opportunity for practical experience related to coursework taken concurrently. Specific arrangements should be made with the instructor. May be repeated for credit up to 3 credits.

**REL 4940 INTERNSHIP (1-15)** Registration Approval: Intern Learning Contract Req. Prerequisites: 25 credits in religion or biblical literature at SPU; current enrollment as a major in the Department of Religion. 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 authority in our Christian faith. The primary intent of the course is to assist the student in finding ways by which to develop his or her Christian faith. Significant classical and contemporary literature on Christian life are used.

**REL 1610 CHRISTIAN BIOGRAPHY (5)** An introduction to the history of Christianity through study of the lives of remarkable women and men from across the Christian era, representing Roman Catholic 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 17th century to the present. Representative works by major thinkers of different historical periods and denominational affiliations will be studied. Particular attention will be given to the contemporary religious landscape, that is, to the varieties of American church life today.

**REL 3610 CHRISTIAN BIOGRAPHY (5)** An introduction to the history of Christianity through study of the lives of remarkable women and men from across the Christian era, representing Roman Catholic and Protestant traditions, and living in diverse cultures. 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 major thinkers of different historical periods and denominational affiliations will be studied. Particular attention will be given to the contemporary religious landscape, that is, to the varieties of American church life today. Class not open to: Freshmen.

## HISTORY OF CHRISTIANITY

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

## REL 3602 REFORMATION AND MODERN CHRISTIANITY

**(5)** A survey of Christianity from the reformations of the 16th century to recent times. Focuses on Luther, Calvin, and the Anabaptists; Anglicans and Puritans; the Council of Trent; 17th century orthodoxy, rationalism and pietism; the beginnings of Christianity in America; the Great Awakening and Wesleyan revival of the 18th century. Course Equivalent: HIS 3402. Class not open to: Freshmen.

## 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 movements from the Early Church to the 16th century, with special attention to their contributions to mainstream Catholic and Protestant traditions. May be repeated for credit up to 10 credits. Course Equivalent: HIS 3405. Class not open to: Freshmen.

**REL 3631 WOMEN IN CHRISTIANITY (3)** A survey of women in the Christian tradition including women of faith in the Bible and in Church history. The class will examine the cultural contexts of biblical references to women, their implications for the present, and contributions 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 Wesley, the leaders of the 18th 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 discussed. Class not open to: Freshmen.

**REL 4625 THEOLOGICAL CLASSICS (5)** Prerequisite: REL 2720. Intensive study of a classic work from the Christian theological tradition or of the works of an important theological writer. Current topic: The life, thought and legacy of Jonathan Edwards. May be repeated for credit 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 bequest from the family of Paul T. Walls. Paul T. Walls served the University as a member of its Board of Trustees for 31 years, and as Chairman of the Board for 20 years. The Chair-holder 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 current holder of the Chair is Dr. William Lane.

## ROTC Programs

ROTC programs are offered to SPU students via cross-town agreements with the University of Washington. SPU accepts 20-24 quarter credits from an approved ROTC program toward the 180 required to graduate; up to 3 credits each from the freshmen and sophomore sequences, and up to 9 credits each from the junior and senior sequences. If a student drops out of the program the ROTC credits do not apply toward graduation. Upon completion of a ROTC

## ROTC Programs



## ROTC Programs

program, the student is responsible for requesting official transcripts for the SPU Registrar's Office.

### ROTC Academic Achievement Award

Students who are awarded ROTC scholarships by the programs described in this section of the Catalog may qualify for an ROTC Academic Achievement Award at Seattle Pacific. The award, which covers room and board costs, is offered to qualified top scholars who present a combination of high school grade point average and SAT Combined Math/Verbal Score which meets University guidelines for this award and who demonstrate commitment to the Christian ideals of Seattle Pacific, including involvement in a local church. The award is renewable for a total of four consecutive years. To apply, contact the SPU Financial Aid Office.

### AIR FORCE

#### Aerospace Studies

Air Force Reserve Officer Training Corps (AFROTC) is offered to SPU students through an agreement with the University of Washington. All classes are taught at UW, Clark Hall #220. The Air Force ROTC program is designed to motivate, educate, and commission highly qualified students for active duty as officers in the U.S. Air Force. The curriculum develops the professional knowledge, in both theory and application, that an Air Force officer needs to be an effective manager and leader in the aerospace environment.

#### General Program Requirements

The freshman- and sophomore-level classes (general military courses) are open to all students attending any two or four year college full time. Any male or female student may enroll in these classes. The junior- and senior-level classes (professional officer 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 98195-3530; email: [tplumb@u.washington.edu](mailto:tplumb@u.washington.edu); <http://weber.u.washington.edu/~afdet910>.

#### Commissioning Requirements

Students who successfully complete the AFROTC program and receive an academic degree from the University are offered commissions as second lieutenants in the U.S. Air Force. They will serve 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 courses at any time.

### Professional Officer Course (POC)

Cadets selected for enrollment in POC are enlisted in the Air Force Reserve and receive tax-free monthly subsistence pay of \$150. They are furnished texts and uniforms. Junior- and senior-level classes consist of three hours of academic classes and one hour of leadership laboratory per week.

#### Financial Assistance

The Air Force offers two and three year scholarships to students 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 for a supplemental room grant. To take advantage of these scholarships, students should apply directly to AFROTC 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 field 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 professional officer course. Uniform, texts, and \$150 monthly subsistence are provided. Two-year scholarships are available for qualified students. Students interested in this program should contact the AFROTC department during October-December prior to the autumn quarter they desire to enter.

#### Course Descriptions

**AS 101, 102, 103 AEROSPACE STUDIES 100 (1,1,1)** Survey of Air Force Life and ROTC opportunities; U.S. Air Force mission and organization; functions of U.S. aerospace support forces; officership/professionalism, and an introduction to communicative skills.

**AS 211, 212, 213 AEROSPACE STUDIES 200 (1,1,1)** Examines factors contributing to the development of air power from its beginnings to the present and the evolution of air power concepts and doctrine; history of air power employment in military and non-military operations in support of national objectives. Assessment of communicative skills.

**AS 331, 332, 333 AEROSPACE STUDIES 300 (3,3,3)** Emphasis on leadership and management fundamentals, professional knowledge, leadership ethics, and communicative skills required of an Air Force junior officer. Case studies are used to examine leadership and management situations. Mandatory leadership laboratory provides advanced leadership experiences in officer-type activities, giving students the opportunity to apply learned principles.

**AS 431, 432, 433 AEROSPACE STUDIES 400 (3,3,3)** Examines need for national security, evolution of American defense strategy and policy, methods for managing conflict, alliances, and regional security to preserve American interests. Arms control and terrorism. Looks at the military as a profession, officership, the military justice system, current military issues, refinement of communication skills. The leadership laboratory is mandatory.

### MILITARY SCIENCE

#### The Program

Army ROTC is offered to SPU students through an agreement with the University of Washington. The program offers the student several elective options for the attainment of an Army officer's commission in 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](mailto:ROO@milsci.washington.edu).

#### Financial Aid

Cadets receive financial aid in two forms: two, three, and four year scholarships are awarded annually to cover school expenses. The scholarships pay up to \$12,000 per year toward tuition and fees, and provide a book allowance as well as a monthly allowance of \$150. The second type of assistance provides a \$150 per month allowance to all non-scholarship cadets in the advanced course. In addition to this aid, students may apply for an SPU ROTC Academic Achievement Award through Student Financial Services.

#### Commissioning Requirements

To be commissioned in the U.S. Army a student must graduate with a minimum of a bachelor's degree and complete the military science curriculum, including successful completion of the six-week advanced camp the summer prior to the senior year.

#### Courses

Check at Student Academic Services for a list of specific military science courses offered at the University of Washington.

## Russian

See Languages section.

## Student-Designed Major

Students with a particular interest crossing the boundaries of disciplinary majors may design an individualized major of 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 evidence of an advisor's and school's approval to the 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 suggest changes, but once the proposal has been approved a contract will be drawn up to be placed in the student's file in 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. Beginning with the 1996-97 academic year, a student must have a minimum SPU cumulative GPA of 3.0 to apply for a student-designed major.

## Social and Behavioral Sciences

(Interdisciplinary courses)

**SBS 1677 THE NATURE OF CITIES (5)** Explores generally from multi-disciplinary perspectives the character and content of cities from their origin to present pattern. Special emphasis is placed on the city theme in Scripture. Topics include attitudes about cities over time, the spread of civilizations in history, the changing economic base of cities and selected contemporary land-use and urban planning problems.

**SBS 4911 INTERNATIONAL BUSINESS: MANAGEMENT AND MARKETING (9)** Registration Approval: Travel Studies Form. Students investigate management and marketing in Latin America. Businesses explored include export commodities and multinationals marketing in Latin America. Special emphasis given to sources of information for planning. Class not open to: Freshmen and Sophomores.

**SBS 4912 MIDDLE EAST SEMINAR: PEOPLES AND CULTURES (6)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the Middle East Studies Program. By arrangement with the campus program coordinator. Fall or spring semester study in Cairo, Egypt with the Middle East Studies Program of the Coalition of Christian Colleges and Universities. Interdisciplinary introduction to the cultural, political, and religious characteristics of Middle Eastern peoples. Class not open to: Freshmen. Class not open to: Non-Matriculated.

**SBS 4913 MIDDLE EAST SEMINAR: ISLAM IN THE MODERN WORLD (6)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the Middle East Studies Program. Taught through semester-long program of the Coalition for Christian Colleges and Universities in Cairo, Egypt. Interdisciplinary introduction to the history, beliefs, practices, and social structures of Muslims and their responses to the Western challenge. Class not open to: Freshmen. Class not open to: Non-Matriculated.

**SBS 4914 MIDDLE EAST SEMINAR: CONFLICT AND CHANGE (6)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the Middle East Studies Program. Taught through semester-long program of the Coalition for Christian Colleges and Universities in Cairo, Egypt. Interdisciplinary exploration of political, economic, and cultural origins of conflict, in particular, the Arab-Israeli conflict. Includes two-week study trip to Israel and the West Bank. Class not open to: Freshmen. 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 of the Coalition for Christian Colleges and Universities in Washington, D.C.. An inter-disciplinary examination of selected 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 Approval: Travel Studies Form. Prerequisite: Acceptance 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 socio-economic 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 semester-long program of the Coalition for Christian Colleges and Universities in Cairo, Egypt. Weekly service-learning activities and study of colloquial Arabic. Class not open to: Freshmen. Class not open to: Non-Matriculated.

### Russian

#### Student-Designed Major

#### Social and Behavioral Sciences

**SBS 4937 INTERNATIONAL PRACTICUM (6)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the Latin American Studies Program. Taught through semester-long program of the Coalition for Christian Colleges and Universities in Costa Rica. Opportunity to participate in a two week, hands-on service project will be offered mid way through the semester. Class not open to: Freshmen and Non-Matriculated.

**SBS 4945 INTERNSHIP (12)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the American Studies 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 ministries, marketing and corporate enterprise, legal matters, trade associations or federal policy-formation. Class not open to: Freshmen and Non-Matriculated.

**SBS 4979 INDEPENDENT RESEARCH (2-12)** Registration Approval: Instructor. By arrangement with the coordinator in conjunction with off campus study. May be repeated for credit up to 12 credits. Class not open to: Freshmen.

## Social Science

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 influence individuals and the effects of their collective interaction. Sociology courses focus on characteristics of 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 interpersonal contexts. Therefore, coursework is designed to help students gain perspective on themselves and the world around them through an analysis of social structure and culture.

Students majoring in sociology have secured positions in government, business, industry and private research agencies. Others hold jobs in planning agencies and research departments of city, county, state and federal government and religious organizations, law enforcement agencies, and many other settings. The sociological perspective has also proven invaluable for students entering any of the helping professions. Advanced positions in these areas often require graduate training.

Students desiring to focus on social service are offered courses which provide an overview of theory and skills necessary to enter helping professions which provide direct services to people in need. Many graduates take entry level positions in the areas of child welfare, mental health, gerontology, delinquency, and in programs which alleviate poverty. A social service background assists and encourages students to prepare for graduate work, especially in the areas of social work, counseling, teaching or health care professions.

### Requirements for the Sociology Major

(53 Credits; 25 upper-division)

[Refer to page 52 for a summary of degree requirements]

#### Required core courses

SOC 1110 Introduction to Sociology .....	5
SOC 2310/4310 Foundations of Social Service* .....	5
SOC 2360 Introduction to Statistics in SBS (5) or MAT 1360 Introduction to Statistics(5) .....	5
SOC 3751 Introduction to Research Methods (5) .....	5
SOC 4702 Classical Sociological Theory .....	5

Select 5 credits from each of the following four areas:

#### Social Institutions

SOC 3252 Marriage and the Family (5)	
SOC 3420 Political Sociology (5)	
SOC 4253 Sociology of Family (5)	
SOC 4380 Social Service Systems (5) .....	5

#### Social Problems

SOC 3370 Sociology of Deviance (5)	
SOC 3371 Crime and Delinquency (5)	
SOC 4210 Women in the Third World (5)	
SOC 4250 Sociology, Policy and Law (5) .....	5

#### Individual in Society

SOC 2440 Small Group Dynamics (5)	
SOC 3270 Socialization (5)	
SOC 4308 The Helping Process (5)	
SOC 4440 Social Psychology (5) .....	5

#### Social Stratification

ANT 2250 Cultural Anthropology (5)	
SOC 3215 Social Inequality: Power and Privilege (5)	
SOC 3862 Race and Ethnic Minorities (5) .....	5

A choice of one of the following:

SOC 4910 Seminar ** (3) or SOC 4940 (3-15) 4950 (2) and SOC 4941 Internship Seminar(1) .....	3-18
Electives .....	5
<b>Total .....</b>	<b>53-68</b>

*\* Students who elect the seminar option (SOC 4910) will not be required to take this course. 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.*

*\*\* Students will select a seminar of their choice, preferably during their senior year, from one of the rotating seminars offered that academic year.*

### Requirements for the Sociology Minor

(30 Credits)

SOC 1110 Introduction to Sociology .....	5
SOC 3751 Introduction to Research Methods .....	5

Select one course from each of the following three areas:

#### Social Institutions

SOC 3252 Marriage and the Family (5)	
SOC 3420 Political Sociology (5)	
SOC 4253 Sociology of Family (5)	
SOC 4380 Social Service Systems (5) .....	5

#### Social Problems

SOC 3370 Sociology of Deviance (5)	
SOC 3371 Crime and Delinquency (5)	
SOC 4210 Women in the Third World (5)	
SOC 4250 Sociology, Policy and Law (5) .....	5

### Individual in Society

SOC 2440 Small Group Dynamics (5)	
SOC 3270 Socialization (5)	
SOC 4308 The Helping Process (5)	
SOC 4440 Social Psychology (5) .....	5

Elective .....

**Total .....** **30**

Students should consult a sociology advisor to create a course of study that best accommodates their educational program.

### Anthropology Courses

**ANT 1110 GENERAL ANTHROPOLOGY (5)** Provides a survey of the sub-disciplines which make up anthropology: physical anthropology, archeology and cultural anthropology. A cross-cultural study of the physical and cultural changes experienced by human-kind in response to a continuous process of adaptation, change and development.

**ANT 2250 CULTURAL ANTHROPOLOGY (5)** Focuses upon the comparative study of human cultures: technological, economic, 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 "B" grade work in the discipline. May be repeated for credit up to 14 credits.

**ANT 4970 INDEPENDENT RESEARCH (2-5)** Registration 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; major theoretical perspectives; methods for obtaining sociological knowledge; and major problems and issues which confront societies. Note: Emphasis from a United States, Third World, or Social 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)** Surveys the family as an institution and a mode for personal living: marital adjustment, parent-child relationships, changing family patterns, and family disorganization and reorganization. Course Equivalent: FCS 2252.

**SOC 2310 FOUNDATIONS FOR SOCIAL SERVICE (5)** Provides a comprehensive examination of the various foundations of social services and social welfare including the sociological, historical, professional, educational, economic, political, psychological, and religious/philosophical foundations. Course Equivalent: SOC 4310.

**SOC 2350 INTRODUCTION TO WOMEN'S STUDIES (5)** This course looks at women's autobiographies, introduces theoretical approaches to gender, and offers an interdisciplinary survey of women's issues relating to such areas as the church, spirituality, economics, health, vocation, social and political activity, and literary and artistic expression. Course Equivalent: ENG 2350.

**SOC 2360 INTRODUCTION TO STATISTICS IN SOCIAL AND BEHAVIORAL SCIENCES (5)** Prerequisites: High school algebra or equivalent; and SOC 1110. (If the student registers for SOC 2360, SOC 1110 is prerequisite; PSY 1180 is prerequisite for PSY 2360). Presents the conceptual basis and application of statistical analysis in social and behavioral research. Includes descriptive statistics, correlation and regression, hypothesis testing and inferential statistics. An introduction to analysis of variance and non-parametric statistics will also be provided. Course Equivalent: PSY 2360.

**SOC 2440 SMALL GROUP DYNAMICS (5)** Examines the small group as the primary source of social order. This course explores the internal processes of small groups, the impact of small groups on their individual members, and the relationship of small groups to larger social structures. Offered alternate years.

**SOC 3215 SOCIAL INEQUALITY: POWER AND PRIVILEGE (5)** Analyzes societal organization based on residence, occupation, community, class and race, power structure in the community, and social mobility patterns. Offered alternate years. Attribute: Writing Course.

**SOC 3270 SOCIALIZATION (5)** Prerequisite: SOC 1110. Socialization is the process by which individuals develop into social beings. Various theories of socialization and human development will be utilized to explore the role played by social structure and institutions in the integration of the individual into society. We will examine infant and early childhood socialization, the role of the media and social institutions in socializing children and adults, adult stages of development, and the role of history in socializing cohorts of people.

**SOC 3370 SOCIOLOGY OF DEVIANCE (5)** Examines a variety of nonconforming behavior such as alcohol abuse, drug use, mental illness, violent crime, homosexuality, and suicide with attention paid to issues of domestic violence, issues of social definition and causal explanation.

**SOC 3371 CRIME AND DELIQUENCY (5)** Studies crime and delinquency in modern society, focusing on both individual and social causes of crime and delinquency.

**SOC 3410 MEDICAL SOCIOLOGY (5)** Prerequisite: SOC 1110 or permission of instructor. The study of the relationships between social institutions and medicine, as well as the social demography 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 analysis of the interaction between politics, society, and economy. To focus the analysis, the course is oriented by two questions: What is the social basis of political power? Why is the social basis for democratic regime stability or instability?

**SOC 3750 LATIN AMERICA (5)** Traces the history of Latin America with particular attention to the development of political, economic, social, religious, and aesthetic values. Course Equivalent: HIS 3750. Class not open to: Freshmen.

**SOC 3751 INTRODUCTION TO RESEARCH METHODS (5)** Prerequisite: SOC 2360 or MAT 1360. Explores the development of social research; nature of scientific inquiry, basic methods and techniques, and the examination of representative sociological and political studies from the standpoint of methodology. Note: PSY 3588 may be 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 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 4210 WOMEN IN THE THIRD WORLD (5)** An exploration into the variety of conditions that constrain the material, social, and spiritual well-being of third world women. The course will examine how contemporary processes of social and economic change in the third world impact women and how "development" could better address their needs. Class open to: Juniors and Seniors.

**SOC 4250 SOCIOLOGY, POLICY AND LAW (5)** The legal process and the creation of public policy are both influenced by the cultural context of the time. This course discusses the influence law and public policy have on individual groups of people and society at large. While legal issues will be discussed, this course will focus on sociological perspective of law. Offered alternate years. 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 understanding of the family as a social institution in American life. Offered alternate years.

**SOC 4308 THE HELPING RELATIONSHIP: THEORY AND SKILLS (5)** Examines the knowledge base and practice for the helping process as found in social services and social work. Provides a conceptual framework for helping individuals, families, groups, and communities. Introduces the roles and tasks of the social service practioner. Various theories and methods of intervention 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 comprehensive examination of the various foundations of



social services and social welfare including the sociological, historical, professional, educational, economic, political, psychological, and religious/ philosophical foundations. Course Equivalent: SOC 2310.

**SOC 4380 SOCIAL SERVICE ORGANIZATION (5)** Explores the significant number of identifiable service systems which have developed in response to the full range of human problems. Focuses 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 individual within the context of larger social patterns and forces. Includes the major theories, methodological approaches and substantive areas of investigation which figure prominently in social psychology (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, Marx, 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, feminist theories. Emphasis will be placed on the basic assumptions and elemental ideas of the various theories, and the relevance of these ideas for understanding contemporary society to evaluate the extent to which the various theories provide plausible and verifiable ideas about society and its workings.

**SOC 4820 SOCIOLOGY OF RELIGION (5)** An analysis of religion as a social form including: religious social perspectives, conversion and commitment processes, sect and cult, charisma and its routinization, religion and inequality, secularization, and social change. Attribute: Writing Course.

**SOC 4910 INTERNSHIP SEMINAR (1)** Registration Approval: Instructor. Provides a seminar experience in emerging and in specialized topics within sociology such as familyviolence, death and dying, etc. Offered alternate years. May be repeated for credit up to 4 credits. Class open to: Sociology majors.

**SOC 4920 READINGS IN SELECTED FIELDS (1-5)** Registration Approval: Independent Study Agreement. Prerequisites: 15 upper-division credits of "B" grade work in the discipline. May be repeated for credit up to 30 credits.

**SOC 4940 INTERNSHIP IN SOCIOLOGY (3-15)** Registration Approval: Intern Learning Contract Req. Provides field experience opportunities for students to relate sociological methods and the sociological framework to an applied setting and to expand their learning through an experiential approach. A learning contract describing learning objectives must be developed by the student and approved by the faculty sponsor. Additional information may be obtained from the Internship Coordinator for the Sociology department. May be repeated for credit up to 30 credits.

**SOC 4950 FIELD EXPERIENCE IN SOCIOLOGY (2)** Registration Approval: Intern Learning Contract Req. Prerequisite: SOC 2310 or 4310. Corequisite: SOC 4910. This course allows students to expand their learning by relating sociological theory and methods to an applied setting. Students may expect to have contact with populations such as children, teens, seniors, or the homeless as well as opportunities to assist organizations with program planning, fund raising or other tasks. Additional information may be obtained from the Internship Coordinator for Sociology. May be repeated for credit up to 6 credits. Corequisite: SOC 4910. Class not open to: Freshmen and Sophomores.

**SOC 4970 INDEPENDENT RESEARCH (2-5)** Registration Approval: Instructor. Prerequisite: "B" grade work in the discipline. May be repeated for credit up to 30 credits.

Spanish

See Languages section.

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 acquire techniques of insight and critical reasoning-all within a distinctive philosophical and artistic environment.

Students in theatre are exposed to a sizable body of dramatic literature, theory and historical study, leading to the development of an informed perspective of the role of theatre as a social, spiritual and artistic institution. The experience is a liberalizing one, designed to allow the student to explore and develop her/himself as both an individual and artist.

By the nature of the art itself, the production and performance process is inherent to undergraduate theatre study. Many of the courses offered by the department focus on skills associated with performance, play writing, directing, designing and technical theatre crafts. In addition to the classroom experience, 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 plays that deal with positive values and the relationship between theatre and the Christian faith.

Career Opportunities

The curriculum of the theatre program is designed both to prepare interested students for graduate studies and to serve as a groundwork for the placement of committed Christians in the culture-shaping world of the professional theatre. Career opportunities for theatre majors extend beyond acting into other specialties such as setting, lighting and costume design, stage management, promotion and publicity, play writing, directing, and business management.

Additionally, the skills acquired as a major—skills of self-knowledge, communicative social interaction, presentation of self, personal discipline, risk-taking, cooperative group effort , sensitivity to others—are important to many career applications other than those allied specifically with the theatre. Theatre majors find that they are prepared through their art to serve especially well in those careers associated with working with the public.

Admission to the Theatre Major

Formal admission to a major in theatre is accomplished at the end of the first quarter of the sophomore year, or in the case of transferring students beyond the sophomore level, in the second quarter of residence. To qualify for admission as a major in the theatre program, the student is required to have completed 12 credits of work with a 2.5 GPA in theatre and to complete and submit for the theatre faculty's approval an application for admission. Application should be made through the Office of Fine Arts on forms available there.

Requirements for the Theatre Major

(70 credits; 30 upper-division)  
[Refer to page 52 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 ability in theatrical criticism, artistic awareness, and personal theatrical skills.

Theatre majors must successfully complete a senior project in acting, directing, design or play writing. This project must include both an approved prospectus and some form of public demonstration made during the student's senior year. The senior project, developed with advisor consultation and approved by the theatre faculty, is expected to be the independent work of a mature student artist. It is considered the culmination of the student's undergraduate training and must be of substantial merit, reflecting an informed artistic sensitivity and philosophy. (Up to 3 credits of TRE 4961 Special Projects may be accumulated in the completion of this requirement.)

FPA 4100 Arts and Religious Experience is highly recommended (meets general education Fine Arts Core).

Core Courses

TRE 1930/3930 Performance Practicum*	2
TRE 1931/3931 Production Practicum*	6
TRE 1720 Stagecraft	5
TRE 1810 Playscript Analysis	3
TRE 1310 The Actor's Art (5)	
or preferably TRE 1340 Acting I: Fundamentals	5
TRE 2340 Acting II: Character	5
TRE 2420 Theatre and Drama: Tragedy (5)	
or TRE 2421 Theatre and Drama: Comedy (5)	5
TRE 2732 Scene Design and Technical Drawing	5
TRE 3710 Play Directing	5
TRE 4910 History of the Theatre	5
TRE Electives	24
<b>Total</b>	<b>70</b>

\*A maximum of 12 credits of practica offerings may be applied toward the major; any number toward the B.A. degree.

Admission to the Theatre Minor

Formal admission to a minor in theatre is accomplished by the end of the sophomore year, or in the case of transferring students beyond the sophomore level, in the second quarter of residence. The student is required to complete and submit for the approval of the theatre faculty an application for minor status. Application should be made through the Office of Fine Arts on forms available there.

Requirements for the Theatre Minor

(35 credits; 15 upper-division)  
Students 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	5
TRE 1810 Playscript Analysis	3
TRE 1310 The Actor's Art	
or preferably Acting I: Fundamentals	5

TRE 2420 Theatre and Drama: Tragedy (5)

or TRE 2421 Theatre and Drama: Comedy (5)

TRE 3710 Play Directing	5
TRE Electives	17
<b>Total</b>	<b>35</b>

A maximum of 8 credits of practica offerings may be applied toward the minor; any number toward the B.A. degree.

Theatre Courses

**TRE 1110 THE THEATRE EXPERIENCE (5)** A study of the theatre as both a distinctive art form and a social instrument, considered from three viewpoints: those of the artist, the spectator and the critic. Requires attendance at five to six evening theatrical performances. Extra fees required for events, collected in class. Class not open to: Theatre majors.

**TRE 1310 THE ACTOR'S ART (5)** Intended for non-theatre majors or minors. An introduction to the actor's task in preparation for the dramatic performance; focuses on developing sensory awareness, observation skills, selective imagination and ensemble relationships through improvisation and scene-work. No credit for students who have taken TRE 1340.

**TRE 1340 ACTING I: FUNDAMENTALS (5)** Designed for intended theatre majors or minors, or others with extensive acting experience. Prepares students for dramatic performance through intensive work in sensory awareness, observation skills, selective imagination. Develops ensemble relationships through improvisation and scene-work. No credit given for students who have taken TRE 1310. Class open to: Theatre majors.

**TRE 1720 STAGECRAFT (5)** An introduction to the backstage crafts of theatrical production and management, intended to give the student a broad understanding of the basic principles and technical procedures used in the design of scenery, costumes, lighting, sound and production management. Corequisite: TRE 1931.

**TRE 1810 PLAYSRIPT ANALYSIS (3)** Foundational approaches to problems of script analysis and form/style/mood distinctions. 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 management activity associated with approved theatrical productions. May be repeated an unlimited number of times.

**TRE 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 (2)** Specialized movement for the actor including problems of stylization, circus technique, stage fights, and the use of theatrical masks.

**TRE 2340 ACTING II: CREATING CHARACTER (5)** Prerequisite: TRE 1310 or permission of instructor. Improvisation and scene-work exploring the problems of characterization as developed through both internal and external performance techniques.

**TRE 2420 THEATRE AND DRAMA: TRAGEDY (5)** The nature of tragedy and tragic expression in the theatre as revealed by selected playscripts drawn from the history of Western civilization.

**TRE 2421 THEATRE AND DRAMA: COMEDY (5)** Principle theories of the comic as presented in the theatre and preserved in playscripts drawn from the history of Western civilization.

**TRE 2732 SCENE DESIGN AND TECHNICAL DRAWING (5)** Prerequisite: TRE 1720. An introductory course for designers with emphasis on analysis and intpretation of the script, use of research material and techniques of presentation. Includes an introduction to and the application of standard practices of drafting.

**TRE 2740 INTRODUCTION TO LIGHTING AND SOUND (3)** Prerequisite: TRE 1720. Introduction to stage lighting and sound covering basic electricity, equipment and instruments, and the principles of lighting and sound design. Offered alternate years.

**TRE 2950 SPECIAL TOPICS IN THEATRE (2-5)** Topic and credits to be announced in Time Schedule when offered. Topics offered usually only once, and only upon evidence of significant student interest. Possible topics include: Great themes of drama,

Medieval drama, the Oriental theatre, theatre architecture, contemporary playwrights, and the like. Class not open to: Non-Matriculated.

**TRE 3321 ELEMENTS OF MIME (2)** An introduction to the theory and practice of mime, the language of gesture. Offered alternate years.

**TRE 3340 ACTING III: STYLES (5)** Explores analysis and performance techniques for plays of specialized historic and stylistic genre, including scene-work drawn from Classical, Shakespearean, Mannerist, Realist, Epic and other dramatic materials. Offered alternate years.

**TRE 3710 PLAY DIRECTING (5)** Prerequisite: TRE 1810 or permission of instructor. Consideration of both aesthetic and technical aspects of directing through basic theory in achieving visual, auditory and kinetic affect. Also covers play selection, organization, casting and rehearsing. 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 character, old age character, fantasy, special character effects and crepe hair techniques.

**TRE 3732 SCENE PAINTING (3)** Instruction in the basic scene painting techniques for the stage. Offered alternate years.

**TRE 3750 COSTUME AND PERIOD STYLES (5)** An introductory course for designers with emphasis on analysis and interpretation of the script for costume plot, the designer's sketch and presentation. Also includes a survey of period styles of costume, architecture, ornament, furniture and its application to stage design. Offered alternate years.

**TRE 3780 THE ART OF FILM (5)** An introductory examination of the development, techniques, aesthetics and theory of the motion picture, centering on viewing, discussing and criticizing films. Offered alternate years. May be repeated for credit 1 time. Class not open to: Freshmen.

**TRE 3930 PERFORMANCE PRACTICUM (2)** Registration Approval: Instructor and audition. Offered for performance or directing-related activity associated with approved theatrical productions. May be repeated an unlimited number of times. Class not open to: Freshmen and Sophomores.

**TRE 3931 PRODUCTION PRACTICUM (2)** Registration Approval: Instructor. Offered for design, technical theatre, or management activity associated with approved theatrical productions. May be repeated an unlimited number of times. Class not open to: Freshmen and Sophomores.

**TRE 4304 UNIVERSITY PLAYERS (1)** Registration Approval: Instructor and audition. May be repeated an unlimited number of times. Class not open to: Freshmen and Sophomores.

**TRE 4760 PLAYWRITING (5)** Prerequisite: TRE 1810 or permission of instructor. Seminar discussion and conferences in the writing of an actual playscript. Offered alternate years. Class not open to: Freshmen and Sophomores.

**TRE 4770 CREATIVE DRAMATICS (3)** Presents a workshop exploring methods to move children from their inner circle of knowledge and experience to their outer circle of thought, expression, and product through the use of creative drama. Offered alternate years. Class not open to: Freshmen and Sophomores.

**TRE 4900 INDEPENDENT STUDY IN THEATRE (1-5)** Registration Approval: Independent Study Agreement. May be repeated for credit up to 10 credits. Class not open to: Freshmen and Sophomores.

**TRE 4910 HISTORY OF THE THEATRE (5)** Seminar in the history of the theatre from pre-classical to modern times, tracing development and changes in theatre architecture, social purpose, the role of the theatre artist and the nature of theatrical experience. Offered alternate years. Class not open to: Freshmen and Sophomores.

**TRE 4943 THEATRE INTERNSHIP (3-5)** Registration Approval: Intern Learning Contract Req. Prerequisites: 15 credits of "B" or better work in theatre; an internship plan approved by the theatre, faculty. Supervised application of theatre skills in the marketplace. May be repeated for credit up to 10 credits. Class open to: Theatre majors. Class not open to: Freshmen and Sophomores.

**TRE 4950 SPECIAL TOPICS IN THEATRE (2-5)** Registration Approval: Instructor. Topic and credits to be announced in Time Schedule when offered. Topics offered usually only once, and only upon evidence of significant student interest. Possible topics include: Great themes of drama, Medieval drama, The Oriental

theatre, theatre make-up, theatre architecture, contemporary playwrights, and the like. May be repeated for credit up to 10 credits. Class not open to: Freshmen and Sophomores.

**TRE 4951 SPECIAL TOPICS IN THEATRE (2-5)** Registration Approval: Travel Studies Form.

**TRE 4961 SPECIAL PROJECTS IN THEATRE (1-3)** Registration Approval: Instructor. Individual research and conferences in area of specialization within the theatre discipline, culminating in the presentation of a project. May be repeated for credit up to 10 credits. Class open to: Theatre majors. Class not open to: Freshmen and Sophomores.

## Film

**James 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 and cultural influences which arise from the industry's operations and product. Enrollment in the program is competitive and limited to upper-division undergraduates. For those accepted into the program, a block of 24 SPU credits may be earned. Consult the film studies coordinator for details.

The Los Angeles Film Studies Center, located in Burbank, California, provides students a unique opportunity to study the film industry in an "on location" intensified experience. Participants have opportunity to meet working professionals from all aspects of the film industry, to visit facilities found only in Southern California, and to utilize film research libraries unique to the area.

The curriculum is intended to appeal to students from a variety of academic disciplines, with the intent of providing an interdisciplinary study of film and the film industry, and with a secondary goal of providing opportunity to investigate future academic and/or vocational opportunities.

### Film Courses

**FLM 4110 INSIDE HOLLYWOOD (5)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into Los Angeles Film Studies Center. Taught through semester-long program of the coalition for Christian Colleges and Universities in Los Angeles. An examination of the creative and operational aspects of the film industry, taking full advantage of studio tours, location filming, and a variety of guest lecturers from a cross-section of the industry.

**FLM 4120 INTRODUCTION TO FILM (4)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the Los Angeles Film Studies Center. Taught through semester-long program of the Coalition for Christian Colleges and Universities in Los Angeles. Guided experience in planning, shooting and editing short films. Focuses on the practical application of filmmaking theories.

**FLM 4130 FILM IN CULTURE (6)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the Los Angeles Film Studies Center. Taught through semester-long program of the Coalition for Christian Colleges and Universities in Los Angeles. A survey of film and the film industry which highlights film's influence on, and reflection of, American culture during the late 19th and 20th centuries. Particular emphasis will be placed on Christian perspectives of culture and will include a survey of the presentation of religious concerns in film.

**FLM 4943 INTERNSHIP (9)** Registration Approval: Travel Studies Form. Prerequisite: Acceptance into the Los Angeles Film Studies Center. Taught through semester-long program of the Coalition for Christian Colleges and Universities in Los Angeles. An opportunity to gain practical work experience in the film industry.

## 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 education requirements in a special series of integrative courses. They are offered challenging readings, intensive peer discussions, and rigorous cross-disciplinary team-teaching in their pursuit of a Christian liberal arts education.

A limited number of high school seniors will be invited into the program at admission, based on grade-point and scores on the SAT or 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.

The essential features and expectations of the program are:

1. University Scholars are exempt from all general education requirements except the foreign language requirement. Instead, they will enroll in a three-quarter 15 credit freshman core course called Texts and Contexts I, II, III (G.S. 1111, 1112, 1113) and a 10 credit junior-senior capstone sequence (G.S. 3910, 4910, 4916). Participants 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 meet the 15 credit foundation course requirement. 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; see Catalog under Transfer Students/Foundation Requirements.
3. Freshmen and other new admits to the University Scholars Program must attend and receive credit for the President's Symposium (1 cr.) (GS 1115) in the autumn quarter of their first year in the program. The President's Symposium provides a forum for: a) orienting new students to the program, b) meeting selected administrators and faculty, c) becoming acquainted with other members of the program, and d) learning about some of the traditions and history of the University. This course is graded pass-fail.
4. The University Scholars capstone sequence starts in the spring of the junior year (4 cr.), involves a summer reading component (2 cr.), and finishes with a senior seminar (4 cr.) in the autumn. The seminars attempt 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 designed to give a culminating honors experience. 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 (BIO 2102, CHEM 1211 or PHY 1101 or 1121) during their freshman or sophomore years.
6. University Scholars are required to complete an honors project or paper worth at least 5 credits in a subject of his or her choice. The project is to be

started in the junior year and completed at least one quarter prior to graduation. Startup help and direction will be part of the junior seminar mentioned in the preceding section. Projects or papers that fulfill this requirement must meet certain minimum standards, have an on-campus faculty advisor and be approved by the Director of the University Scholars Program.

7. Projects are given special recognition at Commencement.
8. University Scholars are encouraged to gain college course credit through a) advanced placement examinations, b) College Level Examination Program (CLEP), and c) examination for currently offered SPU courses. Consult the appropriate sections of this Catalog for details of these programs.
9. University Scholars must maintain a GPA of 3.2 or 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 general education requirements. They will not lose credit earned by successful completion of examinations (e.g., CLEP, challenge or advanced placement) nor those credits earned in honors. (Texts and Contexts I, II, III are usually transferable into general education categories. See Program Director.)
11. Special service to the SPU community should be a high priority for University Scholars.

The program offers flexibility and freedom and should appeal to the bright, mature student and to those with an intense special interest or talent. Independent study and self-designed curricula will be integral parts of the program in many cases. Students desiring further information should direct their requests to: Janet Blumberg, Director, The University Scholars Program, Seattle Pacific University, 3307 3rd Ave. W., Seattle, WA 98119; email: blumberg@spu.edu.

### University Scholars Courses

**GS 1111 TEXTS AND CONTEXTS I (5)** Examines selected classic cultural artifacts of the ancient period using the perspective of the problem of evil, the problem of violence, the tension between reason and revelation, the tension between the individual and society, and the question of free will. Open to: University Scholars only.

**GS 1112 TEXTS AND CONTEXTS II (5)** Prerequisite: GS 1111. Applies the problematic approach of GS 1111 to selected works of the Medieval and Renaissance periods. Open to: University Scholars only.

**GS 1113 TEXTS AND CONTEXTS III (5)** Prerequisite: GS 1112. Continues the problematic approach using selected Modern works. Open to: University Scholars only.

**GS 1115 PRESIDENT'S SYMPOSIUM (1)** Prerequisite: New admit to The University Scholars. A forum for orientation, introduction to the traditions and history of SPU and the basic ideas of a Christian liberal arts education. Open to: University Scholars only.

**GS 3910 JUNIOR HONORS SEMINAR (4)** An in-depth exploration of science and faith. Builds upon the approach used in Texts and Contexts. Concrete help for formulating an acceptable honors project prospectus. Open to: University Scholars only. Class not open to: Freshmen.

**GS 4910 SENIOR HONORS SEMINAR (4)** Continues work on science and faith. Higher levels of educational objectives such as analysis, synthesis and evaluation will be emphasized. Open to: University Scholars only. Class not open to: Freshmen and Sophomores.

**GS 4916 HONORS READING SEMINAR (2)** Explores generally accepted classics through reading and writing. This course is a requirement for the University Scholars program. Open to: University Scholars only. Class not open to: Freshmen.



# Women's Studies

Susan VanZanten Gallagher and Cynthia Price,  
Coordinators

As an institution that centers its mission in the historical Christian faith, SPU affirms that women are created in God's image, redeemed by Christ, and called to lives of scholarship, service, and leadership. Prompted by that affirmation, SPU offers an interdisciplinary women's studies minor and welcomes both male and female students to pursue it.

The primary goals of the women's studies minor are (1) to establish in the campus community an awareness of the overlooked values, neglected contributions, and marginalized perspectives of women; (2) to assure that students have the time and opportunity to explore women's issues fully in light of the Christian faith; and (3) to provide resources for the further incorporation of women's contributions into all pertinent disciplinary courses.

The women's studies minor provides a course of study that stretches across disciplines, encouraging interdisciplinary thought and scholarship. It teaches skills of critical analysis, problem-solving, and value judgments. Because of its adaptable course requirements and final project, the minor could be designed in such a way as to complement majors in areas such as sociology, psychology, religion, history, communication, English, foreign languages, political science, family and consumer sciences, and business.

## Admission to the Women's Studies Minor

Applicants for a minor in women's studies must have (1) sophomore standing; (2) a cumulative GPA of 2.5 or higher in all college work applicable to the B.A.; and (3) a grade of at least a C- in ENG/SOC 2350, Introduction to Women's Studies. Application can be made at either the English or the sociology offices.

## Requirements for the Women's Studies Minor

The women's studies minor consists of at least 30 credits, of which 15 must be upper-division. Course requirements include ENG/SOC 2350 (Introduction to Women's Studies), at least one course from each of four core areas, and a final independent study that consists of an integrative paper, project, or internship.

## Program Requirements

ENG/SOC 2350 Introduction to Women's Studies ..... 5  
WST 4900 Independent Project ..... 3-5

## Institutions and Society

Select at least one course from the following:

- ANT 2250 Cultural Anthropology (5)
- FCS/SOC 2252 Marriage and the Family (5)
- FCS 3875 Clothing and Human Behavior (3)
- SOC 3215 Social Inequality (5)
- SOC 3270 Socialization (5)
- SOC 4205 Gender and Social Interactions (3)
- SOC 4210 Women in the Third World (5)
- SOC 4252 Sociology of Family (5) ..... 3-5

## Literature and the Arts

Select 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)
- FCS 3870 History of Costume (5)
- FRE 3205 Topics in French Literature: Heroines (5) ..... 5

## Psychological and Human Development

Select at least one course from the following:

- HSC 3035 Human Sexuality (5)
- FCS 3320 Maternal and Child Nutrition (3)
- PSY 4910 Psychobiology of Women (3) ..... 3-5

## Religion and Culture

Select at least one course from the following:

- REL 1610/3610 Christian Biography (5)
- REL 3631 Women in Christianity (3) ..... 3-5

Electives from any courses listed above as needed ..... 3-5

**Total ..... 30**

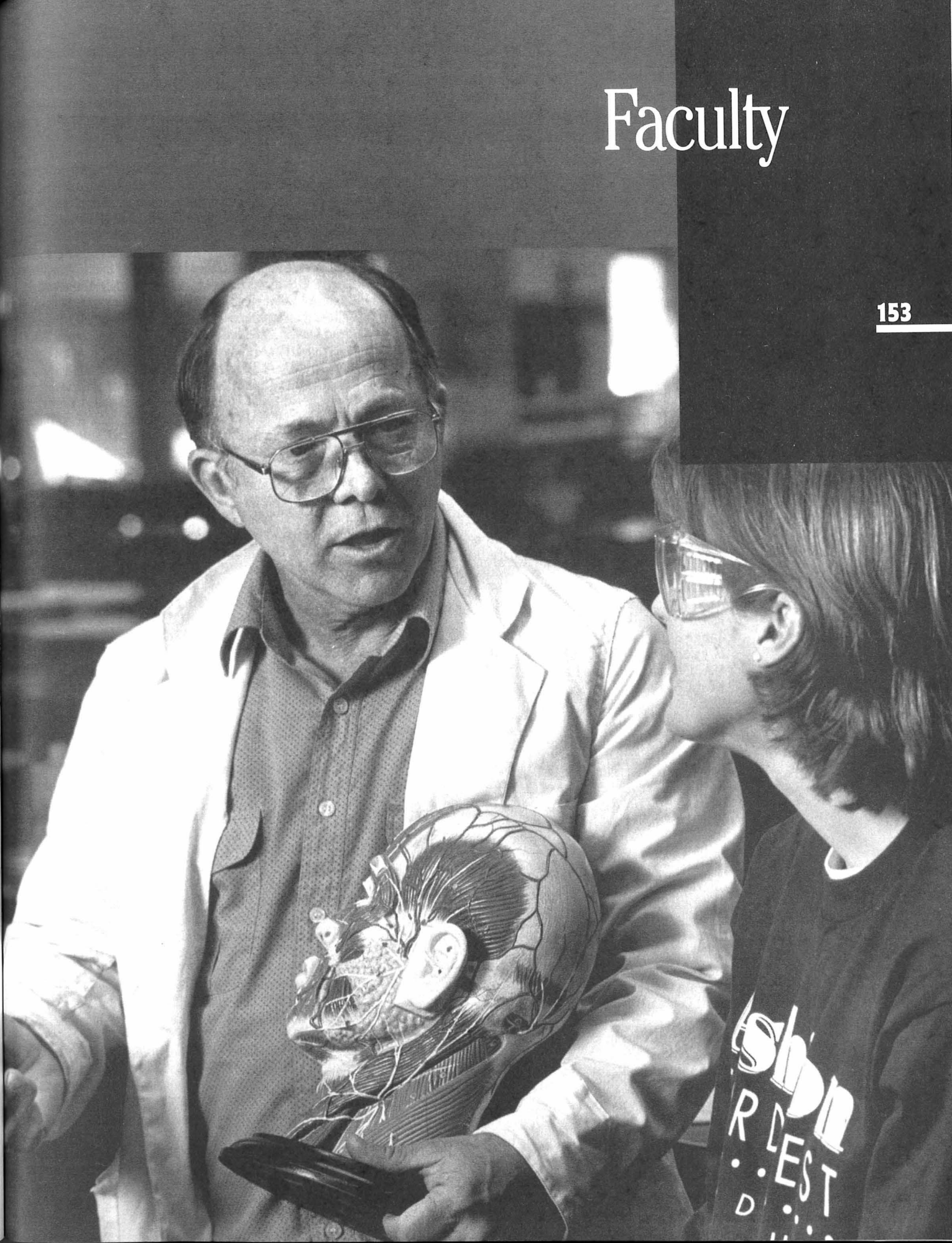
Note: Not all courses are offered every year. Check Time Schedule for current offerings. Information concerning additional courses that will fulfill requirements for the minor is available from the Women's Studies' Coordinators.

## Women's Studies Courses

### ENG/SOC 2350 INTRODUCTION TO WOMEN'S STUDIES

(5) This course looks at women's autobiographies, introduces theoretical approaches to gender, and offers an interdisciplinary survey of women's issues relating to such areas as the church, spirituality, economics, health, vocation, social and political activity, and literary and artistic expression.

**WST 4900 INDEPENDENT PROJECT (3-5)** Registration Approval: Instructor. A final, independent project in Women's Studies that consists of an individual research project, investigating some topic in depth and culminating in an integrative paper that demonstrates interdisciplinary scholarship and independent thought, or an internship involving some form of written reflection and assessment.



# The Faculty

**Martin L. Abbott**, *Professor of Sociology; Dean, College of Arts and Sciences*; B.S., Portland State University, 1974; M.A., Pepperdine University, 1976; Ph.D., Portland State University, 1984. At SPU since 1985.

**Miriam Adeney**, *Associate Professor of Missions and Cross-Cultural Communications* B.A., Wheaton College, 1967; M.A., Syracuse University, 1969; Ph.D., Washington State University, 1980. At SPU since 1976. (Continuing part-time.)

**Donna J. Allis**, *Assistant Professor of Nursing*; B.S.N., University of Arizona, 1976; M.S., Indiana University, 1983; Ph.D., University of Arizona, 1992. At SPU since 1988. (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 College, 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*; B.A., Willamette University, 1976; M.A., Whitworth College, 1990. At SPU since 1986.

**Robert Baah**, *Associate Professor of Spanish*; B.A., University of Ghana, 1982; M.A., University of Alberta; Ph.D., University of Southern California, 1994. At SPU since 1995.

**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.

**Edward J. Bauman**, *Director and Professor of Engineering*; B.S.E.E., University of Minnesota, 1955; M.S., Aeronautics and 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; M.A., 1969; Ph.D., Harvard University, 1976. At SPU since 1974.

**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., University of Washington, 1974; Ph.D., 1981. At SPU since 1982.

**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.

**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.

**Scott Cairns**, *Professor of English*; B.A. Western Washington University, 1977; M.A., Hollins College, 1979; M.F.A., Bowling Green State University, 1981; Ph.D., University of Utah, 1990. At SPU since 1997.

**Michael Caldwell**, *Professor of Art*; B.S., University of Oregon, 1968; M.F.A., 1970. At SPU since 1970.

**Grayson Capp**, *Professor of Chemistry*; B.S., Seattle Pacific College, 1958; M.S., University of Oregon, 1961; Ph.D., 1966; National Institute of Health Post-doctoral Fellow, Duke University, 1966-68. At SPU since 1968.

**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 1962.

**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., University of California, 1965; National Science Foundation Faculty Fellow, University of Washington, 1971-72. At SPU since 1965.

**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.

**Jonathan C. Deming**, *Associate Professor of Economics*; B.A., Whitman College, 1971; M.A., University of Oregon, 1974; Ph.D., 1979. At SPU since 1977.

**James Denman**, *Lecturer in Music*; B.Mus., San Francisco State University, 1975; M.A., 1977; D.M.A./Ph.D. (abd), University of Washington. At SPU since 1993.

**David A. Diekema**, *Assistant Professor of Sociology*; B.A., Calvin College, 1982; M.A., University of Wisconsin-Milwaukee, 1985; Ph.D., University of Iowa, 1990. At SPU since 1992.

**Douglas A. Downing**, *Associate Professor of Economics*; B.S., Yale University, 1979; M.A., 1982; Ph.D., 1987. At SPU since 1983.

**Robert R. Drovda**, *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; Ph.D., 1978. At SPU since 1986.

**Philip W. Eaton**, *President*; B.A., Whitworth College, 1965; M.A., Arizona State University, 1966; Ph.D., 1971. At SPU since 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.

**Alberto Ferreira**, *Professor of History*; B.A., University of Texas, Arlington, 1977; M.A., 1979; Ph.D., 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; M.S., 1973; M.L.S., 1974; M.A., University of Washington, 1983. At SPU since 1974.

**Cynthia Fitch**, *Assistant Professor of Biology*; B.S., McMurry College, 1985; Ph.D., Iowa State University, 1990; Howard Hughes Medical Institute post-doctoral fellow, University of Washington, 1990-93; Research Scientist, University of Washington Medical School, 1993-94. At SPU since 1994.

**Jeffrey T. Fouts**, *Professor of Education*; B.S., Oklahoma Christian College, 1971; M.A., Pepperdine University, 1973; M.S., Portland State University, 1979; Ed.D., 1983. At SPU since 1984.

**Randal S. Franz**, *Assistant Professor of Management*; B.A., California State University-Sacramento, 1982; M.A., 1985; A.M., Stanford University, 1988; Ph.D., 1991. At SPU since 1991.

**Mary E. Fry**, *Associate Professor of Nursing*; B.S.N., University of Washington, 1966; M.N., 1972; Ph.D., Oregon Health Sciences, 1994. R.N. At SPU since 1969.

**Susan VanZanten Gallagher**, *Professor of English*; B.A., Westmont College, 1978; M.A., Emory University, 1981; Ph.D., 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.

**Patricia Giurgevich**, *Assistant Professor of Nursing*; B.S., Seattle Pacific University, 1977; M.S., University of Washington, 1989. At SPU since 1990.

**Phillip N. Goggans**, *Assistant Professor of Philosophy*; 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. At SPU since 1992.

**Loren T. Gustafson**, *Assistant Professor of Management*; B.A., Seattle Pacific University, 1983; M.B.A., San Diego State University, 1987; Ph.D., Arizona State University, 1995. At SPU since 1995.

**Evette Hackman**, *Assistant Professor of Family Consumer Sciences*; 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, 1971; M.M., Colorado State University, 1974; D.M.A., University of Washington, 1986. At SPU since 1979.

**Sandra C. Hartje**, *Assistant Professor of Family Consumer Sciences*; B.S., University of Minnesota, 1979; M.S., 1984; Doctoral Candidate, 1996. At SPU since 1986.

**Doris Brown Heritage**, *Assistant Professor of Physical Education*; B.S., Seattle Pacific College, 1964; M.Ed., 1975. At SPU since 1969.

**Dan W. Hess**, *Professor of Finance*; B.A., Wheaton College, 1971; M.B.A., University of Washington, 1975; Ph.D., University of Arizona, 1982. At SPU since 1977.

**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 SPU since 1985.

**Grant M. Hill**, *Associate Professor of Physical Education*; B.A., Northwest College, 1973; B.A., Seattle Pacific College, 1975; M.Ed., 1980; Ph.D., University of Iowa, 1987. At SPU since 1989.

**Emily A. Hitchens**, *Professor of Nursing; Associate Dean, School of Health Sciences*; B.S.N., University of Washington, 1965; M.N., 1967; Ed.D., Seattle University, 1988. At SPU since 1979.

**Ramona Holmes**, *Assistant Professor of Music Education*; B.S., Portland State University, 1974; M.A.T., University of Washington, 1978; M.A., 1982; D.M.A., 1990. At SPU since 1994.

**Donald C. Holsinger**, *Professor of History*; B.A., Bethel College, 1970; Ph.D., Northwestern University, 1979. At SPU since 1990.

**Daniel Howard-Snyder**, *Assistant Professor of Philosophy*; B.A., Seattle Pacific University, 1983; Ph.D., Syracuse University, 1993. At SPU since 1992.

**Robert C. Hughson**, *Professor of Electrical Engineering, Engineering Science and Physics*; B.S., Seattle Pacific College, 1959; M.S., University of Washington, 1961. At SPU part-time 1960-61; full-time since 1961.

**Barbara S. Innes**, *Associate Professor of Nursing*; B.S.N., University of Washington, 1963; M.S., University of California, San Francisco, 1969; Ed.D., Seattle University, 1989. At SPU since 1976.

**Steven D. Johnson**, *Associate Professor of Mathematics*; B.A., Westmont College, 1974; Ph.D., University of Minnesota, 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., 1986. At SPU since 1977.

**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 general marketing problems. At SPU since 1979.

**Sharleen L. Kato**, *Associate Professor of Family Consumer Sciences*; 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 of RNB Program*; B.S.N., University of Connecticut, 1969; M.N., University of Washington, 1973; Ph.D., 1990. At SPU since 1985.

**Elletta A. Kennison**, *Assistant Professor of Education*; B.A., University of Washington, 1972; M.Ed., 1978; Ed.D., 1991. At SPU since 1974.

**Ralph Kester**, *Dean of Continuing Studies, Professor of Education*; B.S., Seattle Pacific College, 1961; M.S., Indiana University, 1968; Ed.D., 1973. At SPU since 1986.

**Herbert E. Kierulff**, *Professor of Finance/Entrepreneurship*; 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 small and large business. At SPU since 1980.

**Kenneth E. Knight**, *Professor of Management*; B.S., Yale University, 1959; M.S., Carnegie-Mellon University, 1961; Ph.D., 1963. At SPU since 1989.

**Barbara O. Korner**, *Associate Professor of Theatre*; B.A., Bob Jones University, 1972; M.A., 1974; Ph.D., Ohio University, 1983. At SPU since 1990.

**Linda Lambert**, *Assistant Professor and Library Specialist for Humanities and the Arts*; B.A., DePauw University, 1976; M.L.S., Indiana University, 1979; M.A., Wheaton College, 1988. At SPU since 1992.

**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.

**Charles Stephen Layman**, *Professor of Philosophy*; B.A., Calvin College, 1977; C.Phil., University of California, Los Angeles, 1982; Ph.D., 1983. At SPU since 1986.

**Eugene E. Lemcio**, *Professor of Biblical Studies*; B.S., Houghton College, 1964; M.Div., Asbury Theological Seminary, 1968; Ph.D., Trinity College, Cambridge University, 1975. At SPU since 1974.

**Paul A. Lepse**, *Professor of Chemistry*; B.S., Seattle Pacific College, 1958; Ph.D., University of Washington, 1961; National Science Foundation Post-doctoral Fellow, University of Munich, 1961-62. At SPU since 1963.

**Daniel Liestman**, *Associate Professor and Library Specialist for Social and Behavioral Sciences*; B.S., Black Hills State College, 1982; M.A., Midwestern State University, 1984; M.S.L.S., University of Tennessee, 1985. At SPU since 1989.



## Faculty

**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 Fellow, Yale University, 1967-68. At SPU part-time 1961-62; full-time since 1958.

**Donald J. MacDonald**, *Professor of Marriage and Family Therapy*; B.A., University of Texas, 1972; M.S., Indiana University, 1973; Ph.D., Michigan State University, 1984. At SPU since 1980.

**Ginger MacDonald**, *Assistant Professor of Education, Psychology/Counseling; Associate Dean and Graduate Director, School of Education*; B.A., Seattle Pacific College, 1974; M.A., Seattle Pacific University, 1982; Ph.D., University of Washington, 1990. At SPU since 1983.

**Michael H. Macdonald**, *Professor of Philosophy and European Studies*; B.A., Pacific Lutheran University, 1963; M.A., University of Washington, 1964; Ph.D., 1974. At SPU since 1967.

**Jennifer Maier**, *Instructor of English*; B.A./B.S., University of Washington, 1985; M.A. 1987; abd, Tulane University. At SPU since 1993.

**Timothy Malm**, *Associate Professor of Art*; B.A., Seattle Pacific College, 1975; M.F.A., University of Hawaii, 1980. At SPU since 1980.

**Vickie E. McClurg**, *Assistant Professor of Nursing*; B.S., Seattle Pacific College, 1970; M.N., University of Washington, 1981. At SPU since 1981.

**Delbert S. McHenry, Jr.**, *Associate Professor of Psychology*; B.A., Central Washington State College, 1967; M.S., 1968; Ph.D., Michigan State University, 1973. At SPU since 1973.

**Larry T. Metcalf**, *Professor of Art*; B.A. Ed., University of Washington, 1962; M.F.A., 1967. At SPU since 1964.

**Gaile L. Moe**, *Assistant Professor of Family Consumer Sciences*; B.S., University of Washington, 1978; Doctoral Candidate, 1993. At SPU since 1994.

**Mary E. Moline**, *Professor and Director of Marriage and Family Therapy*; B.A. Loma Linda University, 1967; M.P.H., 1974; M.S. 1975; D.P.H., 1975; Ph.D., Brigham Young University, 1979. At SPU since 1995.

**A. Kenneth Moore**, *Professor of Biology; Coordinator, Pre-professional Health Sciences Program*; B.A., Evangel College, 1960; M.A., University of Missouri, 1963; Ph.D., University of New Mexico, 1975. At SPU since 1975.

**Raymond E. Myers**, *Professor of Science Education*; B.S., Wayne State University, 1963; M.S., Oregon State University, 1968; Ed.D., 1978. At SPU since 1987.

**Michelle Naden**, *Associate Professor of Marriage and Family Therapy*; B.S., Pacific Union College, 1980; M.S., Loma Linda University, 1984; M.A., University of Southern California, 1987; Ph.D., 1989. At SPU since 1993.

**Timothy Nelson**, *Assistant Professor of Biology*; B.S., Seattle Pacific University, 1987; Ph.D., University of Washington, 1995. At SPU since 1991.

**Lawrence L. Nyland**, *Associate Professor of Education Administration*; B.A., University of Washington, 1969; M.A., 1971; Ph.D., 1981. At SPU since 1993.

**Annalee R. Oakes**, *Professor of Nursing; Dean and Graduate Director, School of Health Sciences*; B.S.N., University of Washington, 1970; M.A., 1971; Ed.D., Seattle University, 1988. At SPU since 1971.

**Patricia Oakley**, *Assistant Professor of Mathematics*; B.S., Wheaton College, 1981; M.S., Northwestern University, 1984; Ph.D., 1989. At SPU since 1994.

**Robbin Lerch O'Leary**, *Associate Professor of Mathematics*; B.A., Goshen College, 1980; M.S., Idaho State University, 1985; Ph.D., University of Texas at Austin, 1990. At SPU since 1990.

**Lorelie Olson**, *Assistant Professor of Education*; B.A.Ed., Pacific Lutheran University, 1961; M.Ed., Seattle Pacific College, 1968; Ed.D., Seattle University, 1991. At SPU since 1976.

**Les Parrott III**, *Associate Professor of Psychology*; B.A., Olivet Nazarene University, 1984; M.A., Fuller Theological Seminary, 1988; Ph.D., Fuller Graduate School of Psychology, 1990. At SPU since 1989.

**Donald Peter**, *Associate Professor of Electrical Engineering*; B.S., Seattle Pacific College, 1974; M.S.E.E., University of Washington, 1976. NASA Faculty Fellow, J.P.L., Cal Tech, 1989. At SPU since 1987.

**Lyle Peter**, *Professor of Chemistry*; B.S., Seattle Pacific College, 1972; Ph.D., University of Washington, 1979. At SPU since 1979.

**Mark E. Pitts**, *Professor of Education*; B.A., Indiana State University, 1972; M.S., Indiana University, 1977; Ph.D., Indiana State University, 1984. At SPU since 1985.

**Melani I. Plett**, *Instructor of Electrical Engineering*; B.S.E.E., Seattle Pacific University, 1991; M.S.E.E., University of Washington, 1993. At SPU since 1993. (On leave 1997-98.)

**Marilyn J. Poysky**, *Assistant Professor of Nursing*; B.S., University of Washington, 1964; M.S.N., University of California, 1968. At SPU 1968-1978 and since 1986. (Continuing part-time.)

**Joanna K. Poznanska**, *Associate Professor of Economics*; M.A., University of Warsaw, 1970; Ph.D., Technical University of Warsaw, 1976; post-graduate studies at Cornell University. Researcher, Woodrow Wilson School of Public and International Affairs, Princeton University. At SPU since 1988.

**Cynthia Price**, *Associate Professor of Sociology*; B.A., Westmont College, 1983; M.A., Washington State University, 1986; Ph.D. 1990. At SPU since 1993.

**Philip R. Prins**, *Associate Professor of Computer Science*; B.A. (Mathematics), Humboldt State University, 1976; B.A. (Botany), 1978; M.S. (Computer Science), University of Idaho, 1984; Ph.D. (Electrical Engineering), 1993. At SPU since 1992.

**William Purcell**, *Associate Professor of Communication*; B.A., Auburn University, 1976; M.A., University of Alabama, 1983; Ph.D., Indiana University, 1986. At SPU since 1995.

**James F. Rand**, *Human Resources Executive-in-Residence*; B.S., Marquette University, 1963; LL.B., LaSalle University, 1972; Ph.D., California Western University, 1976. At SPU since 1993.

**Luke Reinsma**, *Associate Professor of English and Linguistics*; B.A., Calvin College, 1970; M.A., University of Michigan, 1974; Ph.D., 1978. At SPU part-time 84-85; full-time since 1985.

**Richard L. Ridgway**, *Associate Professor of Biology*; B.S., Seattle Pacific University, 1977; M.S., Washington State University, 1983; Ph.D., 1988. Post-Doctoral Fellow, Alberta Heritage Foundation for Medical Research, University of Calgary, Canada, 1988-91. Post-Doctoral Fellow, Canadian Centres of Excellence in Neural Regeneration and Functional Recovery, 1990-91. At SPU 1978-80 and since 1991.

**Susan Roberts**, *Instructor of Education*; B.A., University of Washington, 1966. M.Ed., Seattle Pacific University, 1990. At SPU part-time 1985-90; full-time since 1990.

**Annette B. Robinson**, *Associate Professor of Special Education*; B.A., University of Washington, 1966; M.Ed., 1969; Ph.D., 1976. At SPU since 1977.

**Micheál D. Roe**, *Professor of Psychology*; B.A., Revelle College, University of California, 1973; M.Ed., University of Washington, 1975; Ph.D., 1981. At SPU since 1988.

**Christina Roseman**, *Professor of Classics and Art History*; C. May Marston Professor of Classics; B.A., University of Washington, 1957; M.A., 1972, Ph.D., 1983. At SPU part-time 1973-1975; full-time since 1975.

**Regina P. Schlee**, *Associate Professor of Marketing*; B.A., University of Nevada, 1976; M.A., Washington State University, 1978; Ph.D., 1981. Extensive consulting in marketing research and marketing plan design. At SPU since 1984.

**George Scranton**, *Associate Professor of Theatre*; B.A., Seattle Pacific College, 1968; M.A., 1971; M.A., University of Washington, 1975; Ph.D., The Graduate Theological Union, 1994. At SPU since 1970.

**Debra M. Sequeira**, *Professor of Communication*; B.S., San Francisco State University, 1976; M.A., 1978; Ph.D., University of Washington, 1987. At SPU 1978-85 and since 1990.

**Marilyn S. Severson**, *Associate Professor of European Studies/French*; B.A., Willamette University, 1962; M.A., University of Pittsburgh, 1964; Ph.D., University of Colorado, 1973. At SPU since 1979.

**Kathy Shelby-Martin**, *Assistant Professor and Library Specialist for Education, Music, and Counseling*; B.M., University of Massachusetts, 1983; M.L.S., Indiana University, 1985; M.S., University of Oregon, 1992. At SPU since 1992.

**Christopher Sink**, *Associate Professor of Education*; B.A., University of California-Irvine, 1978; M.S., California State University-Fullerton, 1981; Ph.D., University of California-Riverside, 1988. At SPU since 1994.

**JoAnne K. Smatlan**, *Assistant Professor of Education Administration*; B.S., University of Idaho, 1968; M.S. Ed., University of Alaska, 1975. Ph.D., Gonzaga University, 1989. At SPU since 1989.

**Peter E. Smith**, *Professor of Education*; B.S.Ed., Oregon College of Education, 1962; M.S.Ed., 1966; Ph.D., University of Washington, 1974. At SPU since 1970.

**Richard E. Smith**, *Associate Professor of Education Administration*; B.A., Seattle Pacific College, 1963; M.A., University of Oregon, 1968; Ph.D., 1972. At SPU since 1988.

**Lilyan Snow**, *Professor of Nursing*; B.S., San Jose State University, 1970; M.S., 1973; Ph.D., University of Washington, 1983. At SPU since 1984.

**Frank A. Spina**, *Professor of Biblical Studies*; B.A., Greenville College, 1965; M.Div., Asbury Theological Seminary, 1968; M.A., University of Michigan, 1970; Ph.D., 1977. At SPU since 1973.

**Les L. Steele**, *Professor of Christian Ministries*; B.A., Azusa Pacific University, 1975; M.A., 1976; Ph.D., Claremont Graduate School, 1984. At SPU since 1985.

**Richard Steele**, *Associated Professor of Religion*; B.A., Haverford College, 1974; M.Div., Yale Divinity School, 1978; Ph.D., Marquette University, 1990. At SPU since 1994.

**Gerhard H. Steinke**, *Associate Professor of Management and Information Systems*; B.S., University of Alberta, 1975; M.A. Rel., Anderson University, 1984; M. Div., 1985; M.B.A., Ball State University, 1984; Ph.D. University of Passau, 1992. At SPU since 1992.

**Ian C. Stewart**, *Professor of Accounting*; B.C.A., Victoria University of Wellington, 1968; M.Com., University of Auckland, 1970; Ph.D., University of New England, 1975; B.D., Melbourne College of Divinity, 1986. At SPU since 1991.

**Ross E. Stewart**, *Professor of Accounting*; B.Com., University of Auckland, 1977; M.Com., 1979; Diploma in Christian Studies, Regent College, 1981; M.T.S., 1983; Ph.D., University of Glasgow, 1987. Associate Chartered Accountant, 1980. Big 6 accounting experience. At SPU since 1986.

**Lisa Klein Surdyk**, *Assistant Professor of Economics*; B.A., Seattle Pacific University, 1987; Ph.D., University of Washington, 1991. At SPU since 1991.

**Douglas Thorpe**, *Instructor of English*; B.A., Beloit College, 1975; M.A., University of Washington, 1977; Ph.D., 1983. At SPU since 1988.

**Michael H. Tindall**, *Professor of Computer Science*; B.S., Seattle Pacific College, 1971; M.S., Ph.D., University of Illinois at Urbana-Champaign, 1975. At SPU since 1980.

**Dan G. Tripps**, *Professor of Physical Education*; B.A., San Francisco State University, 1968; M.A., Stanford University, 1969; Ph.D., University of Oregon, 1976. At SPU since 1986.

**Thomas Trzyna**, *Professor of English; Dean, College of Arts and Sciences*; B.A., University of California, 1968; M.A., University of Washington, 1974; Ph.D., 1977. At SPU since 1981.

**Dwight W. Van Winkle**, *Professor of Biblical Studies*; B.A., Stephen F. Austin State University, 1974; Th.M., Dallas Theological Seminary, 1978; Ph.D., Clare College, Cambridge University, England, 1983. At SPU since 1981.

**Mark Walhout**, *Associate Professor of English*; B.A., Wheaton College, 1981; M.A., Northwestern University, 1982; Ph.D., 1985. At SPU since 1987.

**Robert W. Wall**, *Professor of Biblical Studies and Biblical Ethics*; B.A., Valparaiso University, 1969; Th.M., Dallas Theological Seminary, 1973; Th.D., 1978. Additional graduate study at Perkins School of Theology, Southern Methodist University. At SPU since 1978.

**Stella Warnick**, *Associate Professor of Family Consumer Sciences*; B.S., University of Alberta, 1956; M.A., University of Washington, 1970; Ph.D., 1989. At SPU since 1974.

**Cathryn A. C. Washington**, *Associate Professor of Nursing*; B.S.N., Duke University, 1965; M.S., University of Maryland, 1971; Ph.D., University of Kansas, 1987. At SPU since 1988.

**JoEllen Watson**, *Assistant Professor of Social Work*; B.A., Washington State University, 1975; M.S.W., University of Washington, 1988. At SPU since 1988.

**Robert Weathers**, *Professor of Physical Education*; B.S., John Brown University, 1967; M.Ed., University of Arkansas, 1969; Ed.D., Brigham Young University, 1975. At SPU since 1978.

**Elaine V. Weltz**, *Assistant Professor of Computer Science*; B.A., Seattle Pacific College, 1974; M.MUS., University of Southern California, 1978; B.S., Seattle Pacific University, 1984. M.S.E., Seattle University, 1989. At SPU since 1984.

**John West**, *Assistant Professor of Political Science*; B.A., University of Washington, 1986; Ph.D., The Claremont Graduate School, 1992. At SPU since 1994.

**Linda Westbrook**, *Assistant Professor of Nursing*; B.S.N., University of Missouri, 1970; M.N., University of Washington, 1982; Ph.D., 1994. St SPU since 1996.

**Vernon Wicker**, *Professor of Music*; B.M., Biola College, 1961; M.M., Indiana University, 1964. Goethe Institute, Germany, 1964; D.M.A., University of Oregon, 1979. At SPU since 1979.

**Wanda A. Williams**, *Assistant Professor of Policy, Governance, and Administration*; B.S., Seattle University, 1964; M.A., 1969; Ph.D., University of Washington, 1989. At SPU since 1992. (Part-time.)

**Kenman L. Wong**, *Associate Professor of Business Ethics*; B.S., Biola University, 1986; M.B.A. University of Washington, 1987; Ph.D., University of Southern California, 1996. At SPU since 1997.

**Dick A. Wood**, *Professor of Mathematics and Computer Science*; B.S., California State College at Long Beach, 1961; M.A., 1962; Ph.D., University of Montana, 1976. At SPU 1963-65, 1968-79, and since 1984.

**William H. Woodward**, *Professor of History*; A.B., Wheaton College, 1969; M.A., Ph.D., Georgetown University, 1974. At SPU since 1974.

**Martha L. Worcester**, *Associate Professor of Nursing*; B.S.N., California State University, Chico, 1962; M.S., University of California, San Francisco, 1964; Ph.D., University of Washington, 1990. At SPU since 1989.

**Donald P. Yanik**, *Professor of Theatre*; B.S., Anderson College, 1964; M.Ed., University of Nebraska, 1970; M.F.A., Southern Methodist University, 1981. Fulbright Scholar, Taiwan, 1994-95. At SPU since 1985.

## Faculty

## Faculty

**Sharon Young**, *Associate Professor of Mathematics*; B.A., University of Redlands, 1966; M.A., University of Denver, 1976; Ph.D., University of Colorado-Boulder, 1979. At SPU since 1995.

**Michael Ziemann**, *Associate Professor of European Studies/German and Linguistics*; B.A., Freie Universitat, West Berlin, McPherson College 1968; M.A., Kansas State 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, 1988. At SPU since 1988.

**Lawrence Brown**, *Business Law*; B.A., Seattle Pacific University, 1983; J.D., University of California-Davis, 1989. At 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, 1976; M.A., University of Washington, 1983. At SPU since 1989.

**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, 1959. At SPU since 1986.

**Daniel M. Eernisse**, *Busines Ethics*; B.A., Univeristy of Washington, 1985; M. Div., Regent College, 1989, At SPU since 1992.

**Hilary Field**, *Music*; B.A. State University of New York Stony Brook, 1980. At SPU since 1992.

**Stephen Fissel**, *Music*; B.M.E., Indiana State University, 1976. At SPU since 1983.

**Char Forslund**, *Christian Education*; B.A., Seattle Pacific College, 1964. At SPU since 1991.

**Catherine Haight**, *Music*; B.A. Seattle, Pacific College, 1976. At SPU since 1994.

**Ronald Haight**, *Music*; B.A. Seattle Pacific University, 1979. At SPU since 1992.

**Ernest Hughes**, *Information Systems Management*; B.S., Cal-Polytechnic State University, 1977; M.B.A., California State College at Bakersfield. At SPU since 1983.

**Diane Johnson**, *Music*; B.A., Bob Jones University, 1970; M.Mus., University of Cincinnati, 1977. At SPU since 1978.

**Jacinta Korescki**, *Music*; B.A. Central Washington University, 1983; M.M., 1985. At SPU since 1994.

**John E. Lastelic**, *Physics and Engineering*; B.S., University of Kansas, 1965; M.S., University of LaVerne, 1978. At SPU since 1994.

**Jonathan Parle**, *Electrical Engineering*; B.S., University of California 1968; M.S., University of California, 1970. At SPU since 1989.

**Melanie Plaza-Bunselmeyer**, *Nursing*; B.S.N., St. Paul College of Manila, 1969; M.Ed., Columbia University, 1974. At SPU since 1991.

**Barbara Endicott Popovsky**, *Information Systems Management*; B.A., University of Pittsburgh, 1967; M.B.A., 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, 1984. At SPU since 1992.

**Randolph L. Rowland**, *Business Ethics*; B.F.A., Pacific Lutheran University, 1976; M.Div., Fuller Theological Seminary, 1987; D. Min., Fuller Theological Seminary, 1994. At SPU since 1992.

**Richard Skerlong**, *Music*; B.Mus., Oberlin, 1953; M.Mus., Eastman School of Music, University of Rochester, 1956. At SPU since 1971.

**Robert Swan**, *Music*; B.A., Eastman School of Music, 1968; M.Mus., The Juilliard 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.

**Ray Thompson**, *Music*; B.A., University of Washington, 1951. At SPU since 1982.

**John van Keppel**, *Missions and Cross-Cultural Communications*; B.A., University of Kansas, 1980; M.Div., Regent College, 1990. At SPU since 1990.

**Linda Wagner**, *Reading Specialist*; B.A., Central Washington, 1970; M.Ed., Seattle Pacific University, 1992. At SPU since 1982.

## Affiliate Faculty

**Phil Smart Sr.**, Chairman of the Board, Phil Smart Mercedes-Benz. Outstanding leadership in the community; over 25 years serving as a volunteer at Children's Orthopedic Hospital, active in Boy Scouts, Rotary and several other volunteer community organizations.

## Emeriti

**Arthur Leon Arksey**, *English*; B.A., Greenville College, 1948; M.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, 1942; Mus.M., American Conservatory of Music, 1949. At SPU 1966-85. Emeritus since 1985.

**R. Reed Boyce**, *Urban and Regional Studies*; B.S., University of Utah, 1956; M.S., 1957; Ph.D., University of Washington, 1961. At SPU 1976-97. Emeritus since 1997.

**Gustave Breitenbach**, *German*; B.A., Seattle Pacific College, 1941; M.A., University of Washington, 1942; Fulbright-Hayes grant, Goethe University, Munich, Germany, 1965. At SPU part-time 1959-61; full-time 1961-81. Emeritus 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.

**Janet B. Buck**, *Mathematics*; B.S., Seattle Pacific College, 1955. At SPU 1957-96. Emerita since 1996.

**Flora M. Burns**, *Human Environmental Sciences*; B.A., 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., 1958. At SPU 1964-86. Emeritus since 1986.

**Gordon E. Cochran**, *Sociology*; B.A., Seattle Pacific College, 1950; M.A., 1957; Ph.D., University of Southern California, 1968. At SPU 1965-89. Emeritus since 1989.

**Joseph L. Davis**, *Biblical Studies*; B.A., Seattle Pacific College, 1941; S.T.B., New York Theological Seminary, 1944; Th.M., Union Theological Seminary in Virginia, 1961; Th.D., 1966. At SPU part-time, 1947-49; full-time, 1950-81. Emeritus since 1981.

**C. Melvin Foreman**, *Sociology*; B.A., Seattle Pacific College, 1942; M.Th. Biblical Seminary in New York City, 1945; M.A., University of Washington, 1955; Ph.D., 1957. At SPU 1948-52 and 1953-85. Emeritus since 1985.

**Lester H. Groom**, *Music*; B.Mus., Wheaton College, 1951; Mus.M., Northwestern University, 1952; A.A.G.O., 1954. At SPU 1968-92. Emeritus since 1991.

**Joy F. Hammersla**, *Psychology*; B.A., Seattle Pacific College, 1954; M.S., University of Washington, 1962; Ph.D., 1974. At SPU 1981-96. Emerita since 1996.

**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. Emeritus since 1988.

**Shirley Harlow**, *Nursing*; B.A., University of Oregon, 1948; B.S., 1951; M.A., New York University, 1965. At SPU 1976-88. Emerita since 1988.

**Daniel L. Harris**, *Business Management*; B.A., Westmont College, 1963; M.B.A., University of California at Los Angeles, 1965; Ph.D., 1970. At SPU 1970-90. Emeritus since 1990.

**Chester A. Hausken**, *Statistics and Research*; B.A., St. Olaf College, 1951; M.A., Ulniversity of Northern Colorado, 1956; Ed.D., 1963. At SPU 1982-97. Emeritus since 1997.

**Maxine Haynes**, *Nursing*; B.A., University of Washington, 1941; M.S., University of California at Los Angeles, 1959. At SPU 1976-81. Emerita since 1981.

**E. Walter Helsel**, *Biblical Studies and Church History*; B.A., Seattle Pacific College, 1939; S.T.B., New York Theological Seminary, 1942; Th.M., Princeton Theological Seminary, 1949. At SPU 1942-48 and 1949-80. Emeritus since 1980.

**Walter H. Johnson**, *Philosophy and Religion*; B.A., Greenville College, 1940; B.D., McCormick Theological 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., Seattle 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 1966-96. Emerita since 1996.

**Karl Krienke, Jr.**, *Mathematics, Physics and Computer Science*; B.A., Seattle Pacific College, 1953; M.A., 1955; M.S. (Physics), University of Washington, 1959; M.S. (Astronomy), 1969; Ph.D., 1973. At SPU part-time 1953-56; full-time 1956-97. Emeritus since 1997.

**Robert Larson**, *Sociology*; B.A., Augsburg College, 1956; M.A., University of Washington, 1966. At SPU 1966-92. Emeritus since 1993.

**Vivian M. Larson**, *Education*; B.A., Bethany Penial College, 1931; M.A., University of Iowa, 1938. At SPU 1940-77. Emerita since 1973.

**Jack Lattin**, *Accounting*; B.A., University of Washington, 1947. At SPU 1977-86. Emeritus since 1986.

**Frank Leddusire**, *European Studies/Russian and Linguistics*; B.A., Seattle Pacific College, 1956; B.D., Asbury Theological Seminary, 1958; Ph.D., University of Washington, 1972; 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.

**Stanley D. Luke**, *Mathematics*; B.A., Gordon College, Rawalpindi, 1947; M.A., Forman Christian College, Lahore, 1949; M.S., Carnegie Mellon University, 1954; Ph.D., University of Pittsburgh, 1968. At SPU 1982-93. Emeritus since 1993.

**Marcile C. Mack**, *Music*; Dean, School of Fine and Performing Arts 1987-90; B.Mus., Cleveland Institute of Music, 1942; Mus.M., 1946. At SPU 1955-90. Emerita since 1990.

**Curtis A. Martin**, *Education*; *President*; B.A.Ed., Seattle Pacific College, 1955; B.C., Bethel Theological Seminary, 1958; M.A., University of Washington, 1963; Ph.D., 1968. At 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 Angeles Pacific College, 1941; B.A., University of Southern California, 1947; M.A., 1950; Graduate Research, Huntington Library, 1949-50, 1966. At SPU 1955-80. Emeritus since 1980.

**Lloyd J. Montzingo**, *Mathematics*; B.A., Houghton College, 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 Institute of Technology, 1954; Ph.D., University of Washington, 1960; B.A. (English), 1973; M.A. (English), 1974; M.S. (Chemical Engineering), 1976. At SPU 1966-97. Emeritus since 1997.

**Charles A. Olson**, *Mathematics Education*; B.A.Ed., Western Washington University, 1963; M.A.T., Washington State University, 1968; Ph.D., University of Washington, 1977. At SPU 1981-95. Emeritus since 1995.

**William D. Rearick**, *Professor of English, Education and 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.

**Carl H. Reed**, *Music*; *Dean, School of Fine and Performing Arts 1977-1987*; B.A., Seattle Pacific College, 1951; M.A., 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 Theological Seminary, 1943. At SPU 1960-78. Emerita since 1978.

**Rose Reynoldson**, *English*; B.A., University of Washington, 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 Washington, 1932. At SPU 1944-74. Emeritus since 1974.

**William A. Rosenberger**, *Education and Administration*; A.B., Roberts Wesleyan College, 1951; M.A., Michigan State 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 part-time 1962-64; full-time 1964-97. Emeritus since 1997.

**Lynn Samford**, *Physical Education*; B.A., University of Wyoming, 1950; M.Ed., Central Washington University, 1961. At SPU 1982-92. Emeritus since 1993.

**Eunice L. Schmidt**, *Reading Education*; B.Ed., University of Alberta, 1959; M.Ed., University of Washington, 1962; Ph.D., 1974. At SPU 1974-87. Emerita since 1987.

**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, 1964. At SPU 1970-77. Emeritus since 1977.

**Ross F. Shaw**, *Biology*; B.S., Seattle Pacific College, 1952; M.A., University of South Dakota, 1958; Ph.D., University of Iowa, 1961. At SPU 1965-96. Emeritus since 1996.

**Myrthalyne C. Thompson**, *Psychology*; B.S., Akron University, 1953; M.S., 1955; Ph.D., Purdue University, 1958. At 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 1966-81. Emerita since 1981.

## Faculty



**Kenneth D. Tollefson**, *Anthropology*; B.S., Manhattan Bible College, 1958; M.Div., Asbury Theological Seminary, 1961; M.A., University of Oklahoma, 1965; Ph.D., University of Washington, 1976. At SPU 1965-96. Emeritus since 1996.

**F. Wesley Walls**, *Political Science*; B.A., Greenville College, 1937; M.A., University of Washington, 1943; Ph.D., 1958. At SPU 1941-67 and 1969-81. Emeritus since 1981.

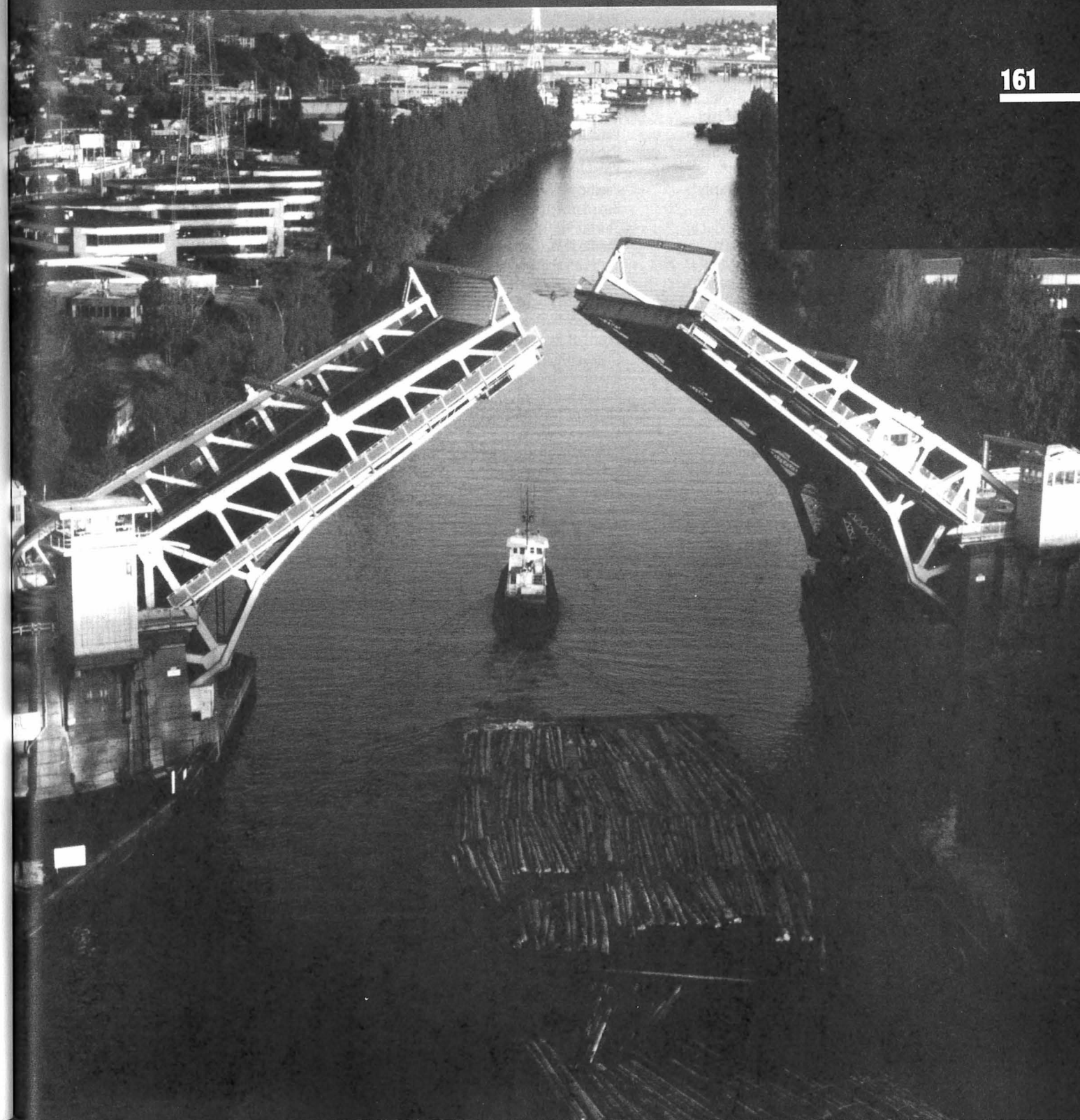
**N. Hubert Wash**, *Music*; A.B., Greenville College, 1943; M.M.Ed., Illinois Wesleyan University, 1960; Ph.D., Michigan State University, 1971. At SPU 1951-55, 1976-79 and 1981-88. Emeritus since 1988.

**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 of 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 University, 1932; M.Ed., University of Washington, 1954. At SPU part-time 1958-67; full-time 1970-76. Emerita since 1976.

# Trustees, Administration, and Alumni Association



# Board of Trustees

Chair ..... Steven E. Anderson  
 Vice Chair ..... Robert C. Screen  
 Secretary ..... Matthew H. Whitehead  
 Treasurer ..... Byron E. Forbes

Trustee	Elected By	Accession/ Expiration of Term	From
Steven E. Anderson*	Board of Trustees	1995-1997	Bremerton, WA
Carol L. Bartlett	Pacific N.W. Conference	1994-1997	Seattle, WA
Raymond L. Bates	Columbia River Conference	1992-1998	Pendleton, OR
Lawrence F. Brown, Jr.	Alumni Association	1993-1996	Redmond, WA
Forest C. Bush	Sierra Pacific Conference	1995-1996	Sacramento, CA
William J. Clancy	Board of Trustees	1996-1998	Seattle, WA
Frank W. Cranston	Pacific N.W. Conference	1981-1996	Seattle, WA
Stephen G. Delamarter*	Pacific N.W. Conference	1991-1999	Lk Stevens, WA
Philip W. Eaton*	President	1996-	Seattle, WA
Norman L. Edwards*	Pacific N.W. Conference	1992-1998	Seattle, WA
Roger H. Eigsti	Board of Trustees	1990-1997	Bellevue, WA
Byron E. Forbes*	Sierra Pacific Conference	1989-1998	Martinez, CA
Thomas A. Froula	Pacific N.W. Conference	1989-1998	Yakima, WA
Harold D. Hagglund	Oregon Conference	1994-1997	Newberg, OR
Bernard E. Hansen*	Pacific N.W. Conference	1964-1997	Seattle, WA
Albert G. Howell	Board of Trustees	1981-1997	Stanwood, WA
Joseph F. James	Pacific N.W. Conference	1995-1997	Maple Valley, WA
W. Stanley Johnson	Board of Trustees	1992-94, 1994-97	Richland, WA
Roger B. Keller	Oregon Conference	1983-89, 1993-98	Dundee, OR
Shirley M. Lansing*	Board of Trustees	1986-1997	Bellevue, WA
Gerald E. Merrill	Pacific N.W. Conference	1982-93, 1994-97	Wenatchee, WA
M. Nathan Olson	Board of Trustees	1988-1998	Lk Oswego, OR
Joel H. Paget*	Alumni Association	1971-1998	Issaquah, WA
Larry P. Roberts	Columbia River Conference	1995-1998	Spokane, WA
Robert C. Screen*	Board of Trustees	1985-1999	Bainbridge Island, WA
E. Gerald Teel	Board of Trustees	1996-1998	Seattle, WA
Curtis D. Walker*	Oregon Conference	1991-1999	Newberg, OR
Robert C. Wallace	Board of Trustees	1987-1997	Bellevue, WA
Gordon Werkema	Board of Trustees	1996-1998	Bellevue, WA
Matthew H. Whitehead*	Pacific N.W. Conference	1995-1998	Seattle, WA

## Honorary Trustee

Kevin W. Mannoia      Area Bishop, Free Methodist Church  
 of North America      Los Angeles, CA

## Emeriti Trustees

V. O. McDole      Years of service, 1972-1995; Emeritus  
 since 1995      Bellevue, WA  
 Leonard C. Root      Years of service, 1968-1992; Emeritus  
 since 1992      Seattle, WA

\*Executive Committee

# Administration

PHILIP W. EATON, Ph.D.  
 President  
 B.A., Whitworth College, 1965; M.A., Arizona State  
 University, 1966; Ph.D., 1971. At SPU since 1993.  
 H. Mark Abbott, D.Min.  
 University Pastor  
 A.B., Marion College, 1965; M.Div., Asbury Theological  
 Seminary, 1968; M.A., Canisius College, 1975; D.Min.,  
 Pittsburgh Theological Seminary, 1985. At First Free  
 Methodist Church since 1982.

## Office of the Provost

Martin L. Abbott, Ph.D.  
 Dean, College of Arts and Sciences  
 B.S., Portland State University, 1974; M.A., Pepperdine  
 University, 1976; Ph.D., Portland State University, 1984.  
 At SPU since 1985.  
 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  
 since 1993.

Joyce Quiring Erickson, Ph.D.  
 Director of Freshman Year and Faculty Advising  
 B.A., North Central College, 1965; M.A., University of  
 Washington, 1966; Ph.D., 1970. At SPU 1969-1983 and  
 since 1992.

Elizabeth "Lisl" Helms, M.Ed.  
 Director of Distance Learning Programs  
 B.A., Wheaton College, 1975; M.A., Stanford University,  
 1976; Graduate Certificate, Multnomah School of the  
 Bible, 1977; M.Ed., University of Washington, 1985. At  
 SPU since 1978.

Alexander 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.

Thomas N. Trzyna, Ph.D.  
 Dean, College of Arts and Sciences  
 B.A., University of California, 1968; M.A., University of  
 Washington, 1974; Ph.D., 1977. At since 1981.

Annalee R. Oakes, Ed.D., F.A.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.

## Business and Planning

DONALD W. MORTENSON, M.B.A., CPA  
 Vice President for Business and Planning  
 B.S., Seattle Pacific College, 1971; CPA, State of  
 Washington, 1973; M.B.A., Seattle Pacific University,  
 1988. At SPU since 1980.

David B. Church, B.S.  
 Director of Facility Management  
 B.S., Seattle Pacific University, 1981. At SPU since 1981.

Darrell W. Hines, Ed.D.  
 Director of Campus Master Planning  
 B.A., Pacific Lutheran University, 1959; M.Ed., Oregon  
 State University, 1963; Ed.D., University of Washington,  
 1976. At SPU since 1995.

Craig G. Kispert, M.B.A., CPA  
 Controller  
 B.A., Seattle Pacific University, 1988; M.B.A., Seattle  
 University, 1991; CPA, State of Washington, 1994. At SPU  
 since 1993.

Deryl A. Kispert, M.B.A.  
 Director of Human Resources  
 B.A., Seattle Pacific University, 1990; M.B.A., 1994. At  
 SPU since 1990.

Gordon A. Nygard, B.A.  
 Treasurer, Seattle Pacific Foundation  
 B.A., Seattle Pacific College, 1973. At SPU since 1988.

W. Mark Reid, A.A.  
 Director of Safety and Security  
 A.A., Judson Baptist College, 1978. At SPU since 1986.

Kimberly M. Sawers, M.B.A., CPA  
 Director of Finance  
 B.S., Southern Oregon State College, 1985; CPA, State  
 of Washington, 1985. M.B.A., Seattle Pacific University,  
 1994. At SPU since 1985.

Madeleine C. Sherman  
 Director of Purchasing  
 At SPU since 1976.

David W. Tindall, M.S.  
 Executive Director of Computer and Information  
 Systems  
 B.A., Seattle Pacific College, 1975; M.S., Seattle Pacific  
 University, 1989. At SPU since 1975.

## University Relations

MARJORIE R. JOHNSON, M.A.  
 Vice President for University Relations  
 B.A., Nyack College, 1973; M.A., New School for Social  
 Research, 1977. At SPU since 1981.

Ruth Adams, M.S.  
 Director of Student Academic Services, University  
 Registrar  
 B.A., Warner Pacific College, 1984; M.S., Seattle Pacific  
 University, 1991, At SPU since 1988.

Kenneth E. Cornell, Jr., M.B.A.  
 Director of Admissions  
 B.A., Seattle Pacific University, 1985; M.B.A., 1994. At  
 SPU since 1990.

Jerald 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  
 Washington, 1979. At SPU 1970-72, 1973-76, and since 1980.

Vickie L. Rekow  
 Director of Student Financial Services  
 At SPU since 1986.

Janet L. Ward, M.P.A.  
 Dean of Enrollment Services  
 B.A., Washington State University, 1977; M.P.A., The  
 Evergreen State College, 1986. At SPU since 1988.

## Student Life

STEVE G. W. MOORE, Ph.D.  
 Vice President for Campus Life  
 B.S., McMurry University, 1974; Research Fellow, St.  
 Andrew's University, Scotland, 1977; M.Div., Asbury  
 Theological Seminary, 1980; Ph.D., University of  
 Michigan, 1992. At SPU since 1989.



## Administration

- Roy Barsness, Ph.D.  
Director of Counseling and Health Services  
B.A., Minot State University, 1975; M.A., Fuller Seminary, 1981; Ph.D., California School of Professional Psychology-Los Angeles, 1988. At SPU since 1990.
- Kimberlee Campbell, M.Ed.  
Director of Residence Life  
B.A., Washington State University, 1985; M.Ed., Washington State University 1990. At SPU since 1995.
- Lucy Guernsey, M.A.  
Dean of Student Development and Campus Life  
B.A., Lindenwood IV College, 1978; M.A., Azusa Pacific University, 1985. At SPU since 1992.
- Jeffrey Keuss, M.A.; M. Div.  
Director of Campus Ministries  
B.A., Seattle Pacific University, 1987; M.A., M. Div., Fuller Theological Seminary, 1995. At SPU since 1993.
- James Korner, B.M.  
Executive Director of University Services  
B.M., Ohio University, 1971. At SPU since 1992.
- Les Parrott, Ph.D.  
Co-director, Center for Relationship Development  
B.A., Olivet Nazarene University, 1984; M.A., Fuller Theological Seminary, 1988; Ph.D., Fuller Graduate School of Psychology, 1990; At SPU since 1989.
- Leslie L. Parrott, Ed. D.  
Co-director, Center for Relationship Development/  
Campus Life  
B.A. Olivet Nazarene University, 1984; M.A. Fuller Theological Seminary, 1989, Ed. D., Seattle University, 1994. At SPU since 1989.
- Jacquelyn S. Smith-Bates, M.A.  
Director of Career Development Center  
B.A., Azusa Pacific College, 1978; M.A., 1983. At SPU since 1986.
- Gwen Spencer, M.Ed.  
Director, Center for Special Populations  
B.A., University of Wisconsin-Eau Claire, 1970; M.Ed., University of Wisconsin-Oshkosh, 1974. At SPU since 1977.

## University Advancement

- ROBERT D. MCINTOSH  
Vice President for University Advancement  
SPU Trustee 1983-1996. Staff since 1996.
- Thomas W. Box, M.B.A.  
Director of Development  
B.A., Biola University, 1974; M.B.A., Seattle Pacific University, 1993. At SPU 1980-84 and since 1989.
- George A. Guy, B.S.  
Director of Society of Fellows  
B.S., University of Washington, 1946. At SPU since 1980.
- 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 of Alumni  
B.A., Seattle Pacific University, 1987; At SPU since 1996.

## Athletics

- ALAN R. GRAHAM, M.Ed.  
Director of Athletics  
B.A., New Mexico State University, 1975; M.Ed., Ohio University, 1976. At SPU since 1994.
- Jo Ann Atwell-Scrivner, B.A.  
Head Women's Volleyball Coach  
B.A., Willamette University, 1972. At SPU since 1986.

- Kenneth W. Bone, B.A.  
Head Men's Basketball Coach  
B.A., Seattle Pacific University, 1983. At SPU since 1986.
- Kenneth E. Foreman, Ed.D.  
Coordinator for Track and Field/Cross Country  
B.S., University of Southern California, 1949; M.S., University of Washington, 1954; Ed.D., University of Southern California, 1961. At SPU 1950-1978 and since 1984.
- 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 since 1993.
- Robert C. Huber, M.A.  
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.  
Head Crew Coach  
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.
- C. Clifford McCrath, M.Div.  
Head Men's Soccer Coach  
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 Pacific University, 1989. At SPU since 1986.
- Laurel J. Tindall, B.A.  
Women's Gymnastic Coach; Director of Falcon Gymnastics Center  
B.A., Seattle Pacific College, 1975. At SPU since 1975.

## 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.
- June (Dilworth) Brown, M.Ed.  
Director of Media and Inservice Programming;  
Assistant Professor of Education  
B.A., Aurora College, 1946; M.Ed., University of Washington, 1968. At SPU 1976-85. Emerita since 1985.
- David O. Dickerson, Ph.D.  
Assistant to the Provost; Vice President for Academic Affairs; Professor of English  
B.A., Greenville College, 1955; M.A., University of 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 1991.
- Curtis A. Martin, Ph.D.  
President; Professor of Education  
B.A.Ed., Seattle Pacific College, 1955; B.D., Bethel Theological Seminary, 1958; M.A., University of Washington, 1963; Ph.D., 1968. At SPU 1964-70, 1972-94. Emeritus since 1994.

- George E. McDonough, M.A., M.Lib.  
Director of Learning Resources; Professor of English  
B.A., University of California-Berkeley, 1949; M.A., Johns Hopkins University, 1950; M.Lib., University of Washington, 1963. At SPU 1962-65, 1968-71 and 1973-88. Emeritus since 1988.
- Lydia A. McNichols, B.S.  
Director of Registration and Records  
B.S., Seattle Pacific College, 1945. At SPU 1957-79. Emerita since 1979.
- William D. Rearick, Ed.D.  
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, 1958; Ed.D., University of Washington, 1969. At SPU 1960-91. Emeritus since 1991.

## Alumni Association

The Seattle Pacific Alumni Association is an organization of former students and graduates. The current executive board has 21 positions, nine of which are elected on rotation each year. The Young Alumni Council works in concert with the Alumni Board.

Five times a year, Seattle Pacific publishes and sends free to alumni the tabloid newspaper, **Response**. All alumni are urged to keep the Association informed of changes in address and employment, births, marriages and any other information of interest to their fellow members. The Alumni Center is located at 316 W. Nickerson.

Area meetings are held throughout the nation under the leadership of area alumni representatives. 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 Assistant are employed by the University for the coordination of the Association's activities.

## Alumni Board

- President ..... Del Wisdom '64  
Vice-President ..... J. Harland Beery '54  
Secretary ..... Kathi Teel '65  
Representatives to the Board of Trustees  
..... Larry Brown '83  
..... Joel Paget '67  
Representatives at Large ..... C. Melvin Foreman '42  
..... Lynne Hall '76  
..... Bob McDowell '52  
..... John Moffitt '62  
..... J. Denton Palmer '55  
..... Rachel Sawyer '81  
Appointive Members ..... Dan Boberg '89  
..... Jennifer Feddern '91  
..... Jennifer Gilnett '81  
..... Kurt Goering '91  
..... David McIntyre Jr. '85  
..... Wade McIntyre '75  
..... Vicker Nelson '75  
..... Edith Root '49  
..... Barry Solem '61  
Student Representative ..... Cindy Mansfield '97  
Director ..... Doug Taylor '87  
Alumni Program Assistant ..... Laila Sharpe '73

Area Representatives  
1997-1998 Phone Listings

## Alaska

- Anchorage  
Eric & Joan Egeland ..... (907) 344-8146  
Loren & Carolyn Leman ..... (907) 243-2000

## Arizona

- Glendale  
Wes & Carol Morgan ..... (602) 878-2569  
Mesa  
Todd & Jo Ellen James ..... (602) 784-3841  
Phoenix  
Dave & Cathy McIntyre ..... (602) 493-9083  
Russ & Leona Ward ..... (602) 373-7013

## California

- Altadena  
Mark & Akiko Sakanashi ..... (818) 791-1319  
Burbank  
Scott & Julie Ellison ..... (818) 846-8621  
Concord  
Clyde & Lori Foreman ..... (510) 672-2704  
Hacienda Heights  
Ken & Linda Finlay ..... (818) 961-5261  
Irvine  
Kevin & Nancy Fehrmann ..... (714) 786-5233  
Los Angeles  
Rick & Janna Delamarter ..... (818) 906-2709  
Los Gatos  
Richard & Marge Tallman ..... (408) 374-8850  
Menlo Park  
Dave Wells ..... (415) 368-8314  
Modesto  
Paul & Esther Embree ..... (209) 551-2363  
Oakland  
Allan & Kay Goodmanson ..... (510) 893-8088  
Pasadena  
Greg & Carol Hart ..... (818) 398-9335  
Charles & Barbara Helsel ..... (818) 799-0421  
Ray & Virginia Ottoson ..... (818) 449-3478  
Sacramento  
Bud & Helen Rash ..... (916) 421-0988  
San Diego  
Connie Fish ..... (619) 277-2782  
San Dimas  
Jim & Gwen Hedges ..... (818) 967-9225  
Turlock  
Audrey Thorsen ..... (209) 634-5529  
Tustin  
Jim & Sharon Lancaster ..... (714) 731-6717  
Walnut Creek  
Mark Cederborg ..... (510) 944-9524

## Colorado

- Boulder  
Harlow Snyder ..... (303) 444-8691  
Colorado Springs  
Courtney Calkin ..... (719) 442-6565  
Jim & Judy Oraker ..... (719) 597-0597  
Manitou Springs  
Herald & Naomi Walton ..... (719) 685-4728

## Hawaii

- Honolulu  
Kristine Crabbe ..... (808) 236-2657

## Alumni Association

**Idaho**

Caldwell  
Rev. Allen & Helen Nelson ..... (208) 459-3845

**Illinois**

Carol Stream  
Wendell & Nancy Hawley ..... (708) 653-0941  
Hampshire  
Gordon & Evelyn Smith ..... (708) 683-2045  
Naperville  
Greg & Wendy Asimakoupoulos ..... (708) 305-6160

**Indiana**

Winona Lake  
Lawrence & Ruth Schoenhals ..... (219) 269-3415

**Kansas**

Lee's Summit  
Dwayne & Suzanne Smith ..... (816) 246-8617  
McPherson  
John & Claudine Ferrell ..... (316) 241-2968  
Overland Park  
Randy & Kim Schott ..... (913) 897-1554  
Wichita  
Lee & Doris Craven ..... (316) 686-4423  
Robert & Albertine Rue ..... (316) 721-2439

**Kentucky**

Wilmore  
Don & Kathy Demaray ..... (606) 858-3239

**Michigan**

Farmington  
Gordon & Tamara Ainsworth ..... (810) 471-5006

**Minnesota**

Albert Lea  
Dan & Marie Davis ..... (507) 373-2869  
Minneapolis  
Lynwood & Celeste Langer ..... (612) 724-2314  
Gilbert & Mabel Smith ..... (612) 854-2225

**Montana**

Big Fork  
Jack & Darlene Hanes ..... (406) 837-5117  
Billings  
Bob McFarlane ..... (406) 656-1620  
Broadview  
Rev. Bob Conover ..... (406) 667-2226  
Great Falls  
Paul & Sharon Lindstrom ..... (406) 727-4583  
Kalispell  
Clara Ellen Anderson ..... (406) 257-1881  
Cliff & Lynda Collins ..... (406) 752-8986  
Missoula  
Dave & Becky Hamilton ..... (406) 728-4687  
Diane Clawson ..... (406) 728-3733

**Oregon**

Clackamas  
Don & Donna Stern ..... (503) 253-5900  
Eugene  
Alan & Kathy Houck ..... (503) 683-2354  
Tom & Jean Reimer ..... (503) 344-7903

**King City**

James & Barbara Cole ..... (503) 639-9393  
McMinnville  
Dave & Madeline Bishop ..... (503) 472-8217  
Portland  
Oscar & Elois Carlson ..... (503) 252-9071  
Reedsport  
Jerome Kenagy ..... (503) 271-3173  
Salem  
Ray & Jeanne Reid ..... (503) 364-6640  
Chuck & Sally Sides ..... (503) 585-9208

**Texas**

Eules  
Doug & Cindy Deardorf ..... (817) 571-9539  
Waco  
Justin & Frances Longenecker ..... (817) 772-7497

**Washington**

Addy  
Roscoe & Betty Bell ..... (509) 935-4398  
Davenport  
Doug & Karen Teel ..... (509) 253-4533  
Everett  
Fred & Joanne Sjolholm ..... (206) 252-8158  
Mark & Berinda Wolitarsky ..... (206) 337-4272  
Kennewick  
Doug & Liz Guy ..... (509) 582-9342  
Lacey  
Art & Martha Smelser ..... (360) 459-1400  
Langley  
Jerry & Vicki Foreman ..... (360) 221-5573  
Longview  
Sue Perry Piper ..... (360) 636-1143  
Toby & Jan Whitrock ..... (360) 425-7937  
Port Angeles  
Ray & Betty Hanson ..... (360) 457-8439  
Tacoma  
Wes & Nancy Anderson ..... (206) 564-5522  
Ken & Jeannette Hedstrom ..... (206) 752-7968  
Don & Myrna Lou Hines ..... (206) 752-5385  
Chuck & Elaine Holme ..... (206) 752-6967  
Howard & Shirley Johnson ..... (206) 564-0968  
Ron & Marilyn Wick ..... (206) 564-4811  
Vancouver  
Art & Robin Miles ..... (360) 573-0124  
Don & Darlene Waldbauer ..... (360) 695-4481  
Washougal  
Ron & Sharleen James ..... (360) 835-5356  
Yakima  
Dave & Angie George ..... (509) 457-8713

**Washington D.C. Area**

Bethesda, MD  
Bob & Joe Ann Stenstrom ..... (301) 229-0632  
Great Falls, VA  
Don Linn ..... (703) 450-4543  
Reston, VA  
Carol Lange ..... (703) 860-0365

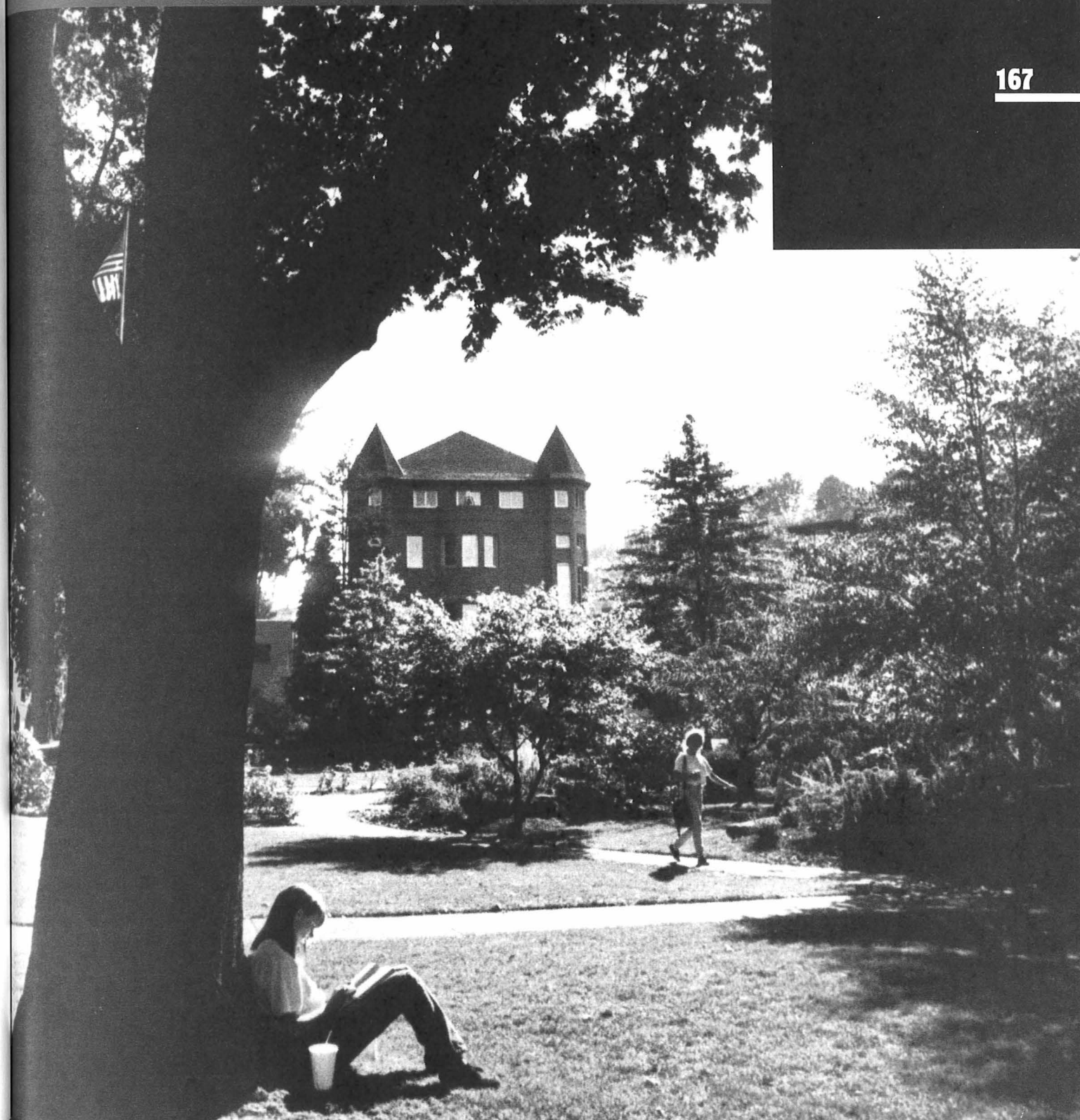
**British Columbia, Canada**

Richmond  
Warren & Kayleen Dueck ..... (604) 448-0491

**Africa**

Nsukka, Nigeria ..... Kalu Maduka

# Campus Map and Index





# Seattle Pacific University Campus

## Buildings:

Alexander Hall (1)  
 Alumni Center (2)  
 Art Center (3)  
 Bank (4)  
 Beegle Hall (5)  
 Bookstore (6)  
 Crawford Music Building (7)  
 Demaray Hall (DH) (8)  
 First Free Methodist Church (9)  
 Gwinn Commons (10)  
 Green Hall (11)  
 Hillford House (Private) (12)  
 American Cultural Exchange (13)  
 Library (14)  
 McKenna Hall (15)  
 McKinley Hall (16)  
 Media House (17)  
 Miller Science Learning Center (MSLC) (18)  
 Human Resources Building (19)  
 Peterson Hall (20)  
 Rand Building (21)  
 Royal Brougham Pavilion (22)  
 Stearns Building (23)  
 Student Union Building (SUB) (24)  
 Tiffany Hall (25)  
 Two West Dravus (26)  
 Violett Building (27)  
 Weter Hall (28)  
 University Services Building (29)

## Residence Halls/Apartments

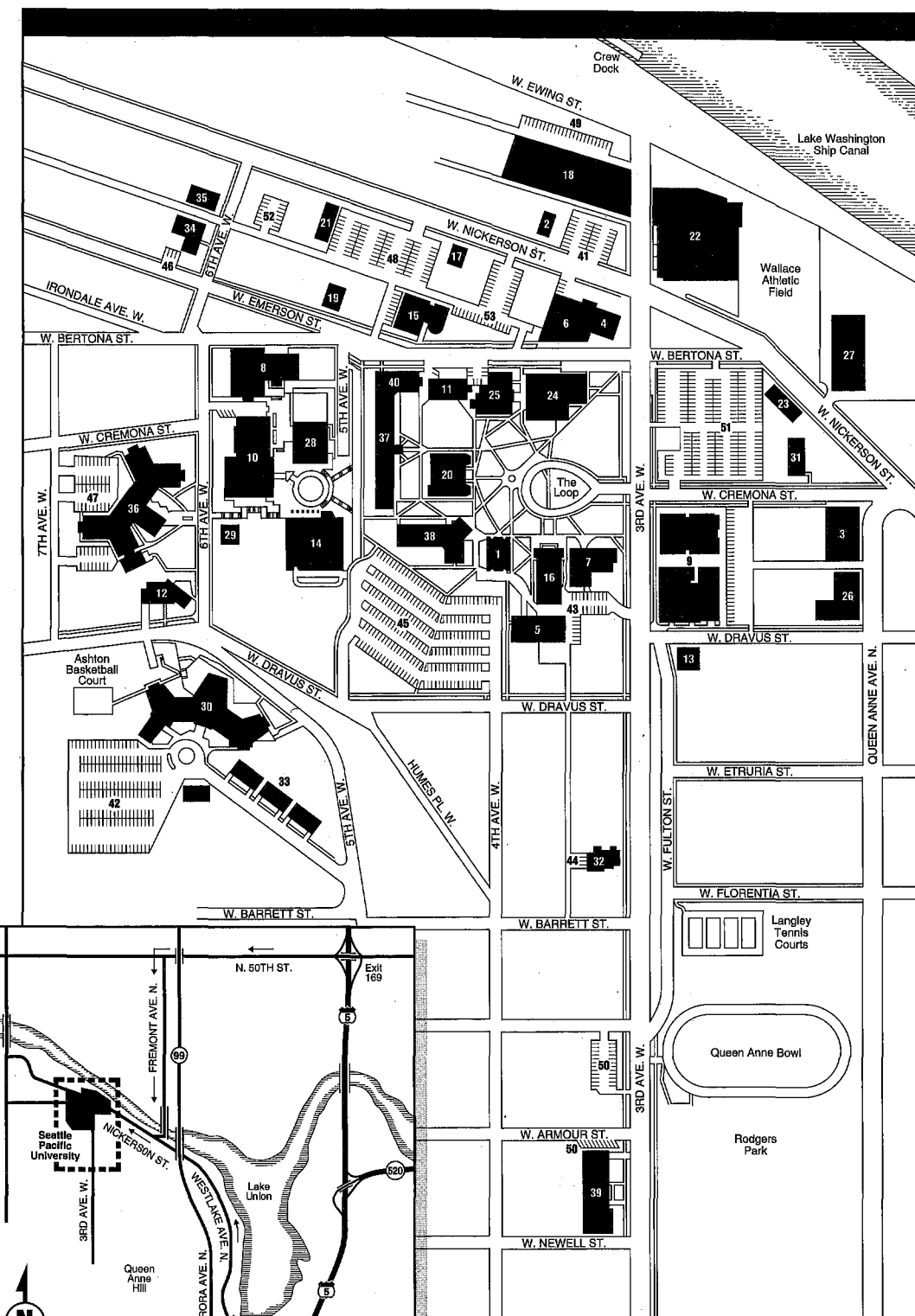
Ashton Hall (30)  
 Cremona Apartments (31)  
 Davis Apartments (32)  
 Duplexes (33)  
 Falcon Apartments (34)  
 Falcon North (35)  
 Hill Hall (36)  
 Marston Hall (37)  
 Moyer Hall (38)  
 Robbins Apartments (39)  
 Watson Hall (40)

## Parking Lots:

Alumni Center (41)  
 Ashton (42)  
 Crawford (43)  
 Davis (44)  
 Dravus (45)  
 Falcon Apartments (46)  
 Hill (47)  
 McKenna (48)  
 MSLC (49)  
 Robbins (50)  
 Ross (51)  
 Sixth Avenue West (52)  
 Visitor (53, 45)

## Offices/Services:

Academic Affairs, DH 210 (8)  
 Admissions (Undergraduate), DH 120 (8)  
 Alumni (2)  
 Art Center Gallery (3)  
 Associated Students, Main Level SUB (24)  
 Bach Theatre, McKinley (16)  
 Business and Finance, DH 250 (8)  
 Campus Life, Second Floor SUB (24)  
 Campus Ministries, Second Floor SUB (24)  
 Computer and Information Systems, Lower Marston (37)  
 Career Development, Second Floor SUB (24)  
 College of Arts and Sciences, Alexander (1)  
 Controller, Upper Weter (28)  
 Conference Services, 3220 Sixth West (29)  
 Continuing Studies, DH 350 (8), Rand (21)  
 Counseling Center, Main Level Watson (40)  
 Credit Union, Violett (27)  
 Development, Lower Weter (28)  
 Falcon's Landing, Main Level SUB (24)  
 Health Services, Main Level Watson (40)  
 Human Resources (19)  
 Landscape (23)  
 Mailing Services, Lower Tiffany (25)  
 Maintenance and Storage, Two West Dravus (26)  
 Media Services, Lower Moyer (38)  
 Plant Services, Two West Dravus (26)  
 President's Office, DH 210 (8)  
 Printing Services, Lower Tiffany (25)  
 Provost's Office, DH 210 (8)  
 Purchasing, Two West Dravus (26)  
 Residence Life, Second Floor SUB (24)  
 Safety and Security, Lower Tiffany (25)  
 School of Business and Economics, McKenna (15)  
 School of Education, Peterson (20)  
 School of Health Sciences, Green (11)  
 Seattle Pacific Foundation, Upper Weter (28)  
 Special Populations, Main Level Tiffany (25)  
 Student Academic Services, DH 120 (8)  
 Student Financial Services, DH 10 (8)  
 Student Publications, Media House (17)  
 SUB Student Lounge and Lockers, Lower SUB (24)



## Directions to SPU

Coming from the north or south on I-5, take the N. 50th Street Exit (#169) marked "Seattle Pacific University." Turn west onto N. 50th and proceed to Fremont Avenue N. Turn left onto Fremont and cross the Fremont Bridge. Turn right immediately after the bridge onto Florentia Street. Go one block and turn right onto Nickerson Street. Continue on Nickerson to Third Avenue W. and turn left. You are now on campus. Remain on Third for three blocks, then turn right onto W. Dravus Street and right again into the tiered parking lot (#45 on the map).

Transfer Student Services, DH 110 (8)  
 University Advancement, DH 220 (8)  
 University Communications, Lower Weter (28)  
 University Relations, DH 253 (8)  
 University Services, 3220 Sixth West (29)  
 Weter Student Lounge, Main Level Weter (28)

Academic Honors .....	38
Academic Load .....	39
Academic Probation .....	39
Accreditation .....	8
Accounting Major .....	65
Additional Bachelor's Degree .....	47
Administration .....	163
Admissions .....	15
Advanced Placement .....	16
Advising .....	38
Alpha Kappa Sigma .....	38
Alumni Association .....	165
Anthropology, courses .....	147
Appeal Process .....	136
Application Forms .....	Back of Catalog
Areas of Instruction .....	56
Art Major .....	58
Athletic Activities .....	36
Auditors .....	42
Baccalaureate Degree Requirements .....	45
Bible Colleges and Institutes, Transfers from .....	16
Biblical Studies Minor .....	140
Biochemistry .....	70
Biology Major .....	60
Biotechnology .....	73
Blakely Campus .....	63
Board and Room .....	24
Board of Trustees .....	162
Business Administration Major .....	67
Business and Economics, School of .....	64
Calendar, University .....	5
Campus Map .....	169
Campus Ministries .....	34
Career Development Center .....	35
Certification, Teacher .....	81
Chemistry Major .....	70
Choir, Concert .....	126
Christian Education Major .....	139
Class Schedule .....	10
Classics, courses .....	111
Classification of Students .....	42
CLEP/PEP .....	16
College of Arts and Sciences .....	73
Communication Major .....	74
Community College Students (see Transfer Students) .....	
Computer-assisted Learning .....	8
Computer Science Major .....	76
Consortium/Coalition Programs .....	9
Continuing Studies .....	10
Costs and Financial Aid .....	21
Counseling .....	35
Course Numbering System .....	57
Credit by Examination .....	42
Cross-Cultural Ministries Minor .....	140
Dean's List (see Academic Honors) .....	
Degrees Offered, Undergraduate and Graduate .....	56
Dental Hygiene, Pre-Professional Preparation .....	136
Dentistry, Pre-Professional Preparation .....	135
Dietetics .....	98
Dining Services .....	35
Disabled Student Services .....	19, 35

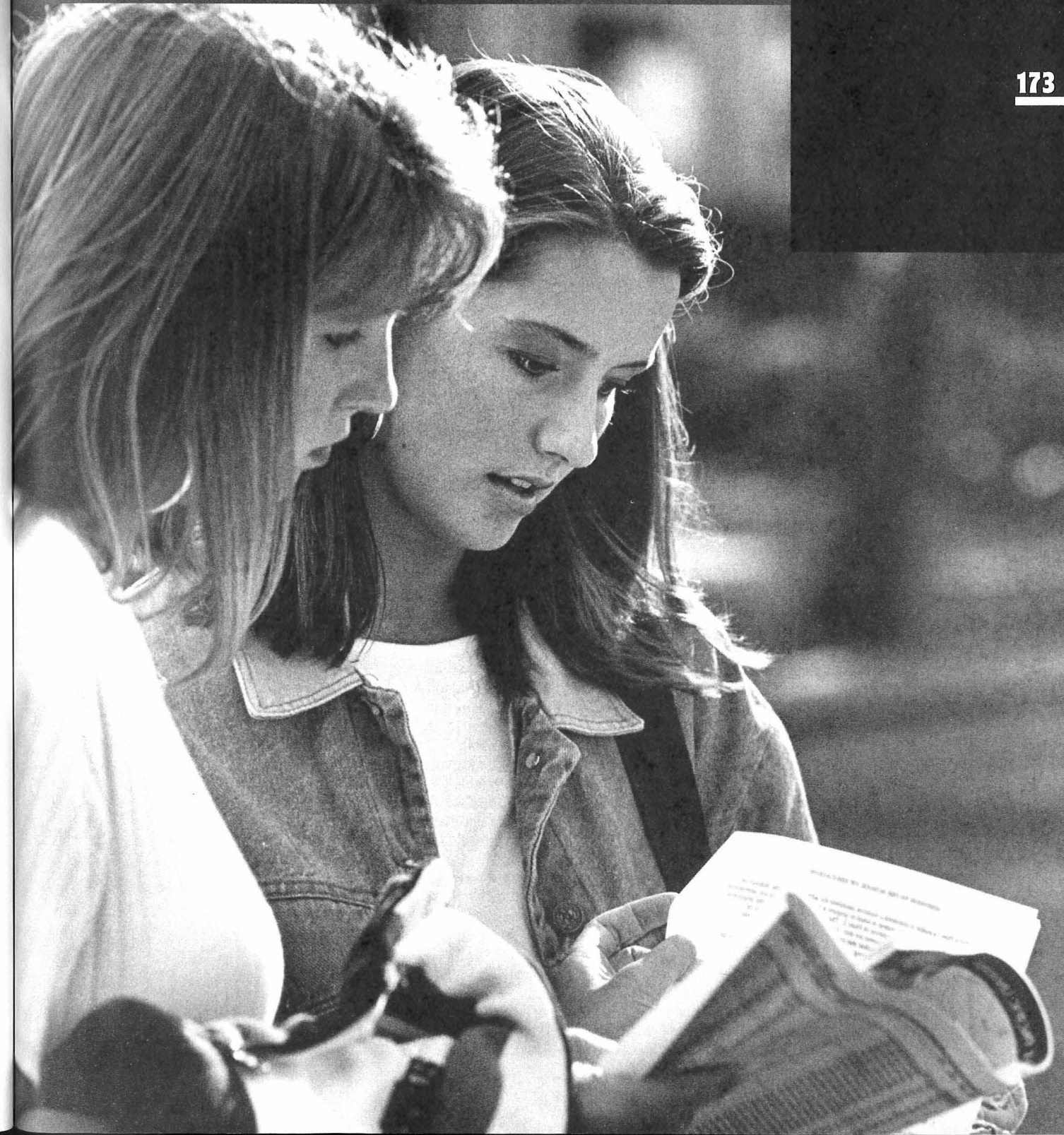
Distance Learning .....	11
Division of Continuing Studies .....	10
Economics Major .....	68
Education, School of .....	79
Electrical Engineering Major .....	88
Elementary Teaching Majors .....	84
Employment Opportunities .....	31
Engineering and Applied Science Major .....	88
English as a Second Language .....	96
English Major .....	92
English Placement Testing .....	48
Entrance Requirements .....	15
European Studies Major .....	113
Evening School .....	11
Expenses .....	21
Extended Payment Options .....	25
Exercise Science Major .....	128
Faculty .....	154
Faith, Statement of .....	2
Family and Consumer Sciences Major .....	97
Fees .....	23
Financial Aid .....	27
Financial Information .....	21
Fine and Applied Arts Education Major .....	84
Food and Nutritional Sciences Major .....	98
Food Service .....	35
Foreign Languages .....	113
Foundation Requirements .....	48
French, courses .....	114
Freshman Year .....	9
General Education Requirements .....	49
General Studies, courses .....	103
General Studies, major .....	103
Geography, courses .....	103
German, courses .....	115
Grading System .....	40
Graduate Studies .....	104
Graduation Checklist .....	52
Grants in Aid .....	27
Health Minor .....	128
Health Insurance .....	23
Health Record .....	18
Health Sciences, School of .....	105
History Major .....	108
Home Economics (see Family and Consumer Sciences) .....	
Honors, Academic .....	38
Housing Registration .....	36
How to Read Course Information .....	57
Instructional Technology .....	8
Intercollegiate Athletics .....	36
Interior Design .....	99
International Students, Admission .....	18
Interning (Student Teaching) .....	81
Internship Program .....	110
Intramural Program .....	36
Journalism, courses .....	75
Language Arts Education Major .....	84
Language, courses .....	113
Language Institute .....	96
Latin American Studies Minor .....	112
Latin, courses .....	112

Learning Resources .....	8
Library .....	8
Linguistics Minor .....	117
Literature Minor .....	93
Living Expenses .....	24
Load, Academic .....	39
Loans, Student .....	27
Majors/Minors/Areas of Study .....	56
Map of Campus .....	169
Marston Professorship .....	112
Mathematics Major .....	118
Mathematics Education Major .....	84
Mathematics Proficiency Testing .....	48
Matriculated Students .....	42
Media Center (see Instructional Technology) .....	
Medical Insurance .....	23
Medical Records Administration Pre-Professional Preparation .....	136
Medicine, Pre-Professional Preparation .....	135
Mission Statement .....	2
Modern Foreign Languages, courses .....	113
Music Major .....	120
Music Education Major .....	121
Music Fees .....	23
Non-Matriculated Students .....	42
Nursing Major .....	105
Off-Campus Study Programs .....	9
Ombudsperson .....	36
Orchestra .....	126
Orientation of New Students .....	19
Parking Fee .....	23
Payment Policies .....	24
Philosophy Major .....	126
Physical Education Major .....	128
Physical Therapy, Pre-Professional Preparation .....	136
Physics Major .....	130
Political Science Major .....	132
Pre-Dental Program .....	135
Pre-Law Program .....	134
Pre-Medical Program .....	135
Pre-Optometry Program .....	136
President's Citation .....	38
Probation, Academic .....	39
Psychology Major .....	136
Refunds and Account Adjustments .....	26
Registered Nurse, B.S. Program .....	106
Registration .....	24
Religious Studies Major .....	140
Residence Hall Expenses .....	24
Residential Life .....	35
ROTC Programs .....	143
Room and Board .....	24
Russian, courses .....	116
Scholarships .....	28
Science Education Major .....	85
School of Business and Economics .....	64
School of Education .....	79
School of Health Sciences .....	105
Secondary Teaching Majors .....	85
Senior Citizen Program .....	11
Sociology Major .....	146
Social Expectations .....	34

Social Science Education Major .....	85
Spanish, courses .....	116
Special Education Major .....	85
SPIRAL .....	11
Staff (Administrative) .....	163
Standards of Conduct .....	34
Statement of Faith .....	2
Student-Designed Major .....	145
Student Life, Programs and Services .....	33
Student Teaching .....	81
Summer School .....	11
Telephone Reference Guide .....	Inside Front Cover
Textiles, Clothing and Interiors Major .....	99
Theatre Major .....	148
Transcripts .....	42
Transfer Students .....	15
Transportation Policy .....	41
Trustees, Board of .....	162
Tuition .....	21
University Calendar .....	5
University Scholars Program .....	151
Veterans' Benefits .....	28
Waitlisting Classes .....	41
Walls Chair .....	143
Watson Center .....	35
Weekend University .....	11
Withdrawal from Classes .....	41
Women's Studies .....	152
Work Opportunities .....	31
Writing Courses .....	47
Youth Ministry .....	141



# Application Materials



# How to Apply

*Use these checklists whether you're entering directly from high school or transferring from another institution. For more details about the transfer process, see SPU's brochure, "The Transfer Student Guide." Application forms are located on the pages following.*

**Seattle Pacific University** welcomes your application for admission. Your application and each of your supporting credentials will be carefully reviewed. Since each applicant to SPU is evaluated on his or her individual merits, it is extremely important that these materials present a full and accurate record of your academic and personal qualifications.

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 the Office of Undergraduate Admissions at (206) 281-2021 or 1-800-366-3344, toll 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 the Office of Admissions, including:

- ☐ SPU Undergraduate Admission Application
- ☐ 1998-99 Early Action Form (Submit this form with your application if you are applying under the Early Action Plan. Due December 1, 1997. See form for details.)
- ☐ \$35 Application Fee
- ☐ Academic Recommendation
- ☐ Personal Recommendation
- ☐ Essays (2)

☐ **Test Scores.** *High school students only:* Request that official SAT I or ACT scores be sent to the Office of Undergraduate Admissions. Scores must be sent directly from SAT or ACT in order to be considered official, or they must be posted on your official high school transcript. ***SPU's school code for the SAT is 4694; for the ACT, it is 4476.***

☐ **Transcripts.** Request that official transcripts for all courses taken (high school and college) be sent to the Office of 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. If any high school or college work is currently in progress, please ask your school to forward another transcript when the work is complete.

☐ **Tuition Deposit.** Indicate a decision to enroll by sending your \$200 tuition deposit to the Office of Undergraduate Admissions. Deposits for students entering Autumn Quarter 1998 are due no later than May 1, 1998, the National Candidates' Reply Date.

## Scholarships and Financial Aid Checklist

☐ **Scholarships.** The SPU Undergraduate Admission Application is also your application for most SPU scholarships. Information provided in the section on "Involvement and Activities" is particularly important for determining scholarship eligibility. *You will automatically be considered for any scholarships for which you are eligible.*

***Deadline for High School Students (includes Running Start) Entering Autumn 1998:*** All application materials must be received by March 1, 1998, in order for you to be considered for merit scholarships.

***Deadline for Transfer Students Entering Autumn 1998:*** All application materials must be received by April 15, 1998, in order for you to be considered for merit scholarships.

☐ **Fine Arts and Athletic Scholarships.** Auditions are required for fine arts scholarships. You may request an application by calling (206) 281-2205. For information about athletic scholarships, call (206) 281-2085.

☐ **Financial Aid.** Submit your Free Application for Federal Student Aid (FAFSA) as soon as possible after January 1, 1998. Make sure that all admission application materials are received by March 1, 1998, so that you are eligible for the maximum amount of financial aid. If final tax information is not available, you're encouraged to provide estimates on the FAFSA. Don't wait! The earlier you apply for financial aid, the better the financial aid offer you can expect. ***SPU's school code for FAFSA is 003788.***



# 1998-99 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, 1997. All remaining application materials must be received by March 1, 1998.***

Early Action students receive priority consideration in financial aid and housing assignments, provided they meet financial aid and housing deadlines. SPU also offers assistance to Early Action students by offering discounted tickets to Senior Preview or Campus Preview, as well as a transportation allowance to attend one of these events. Early Action students may elect to visit at a different time and will receive complimentary meals, housing on campus and an allowance for transportation to the campus. Contact the Office of Undergraduate Admissions for details.

The \$200 tuition deposit must be received in the Office of Undergraduate Admissions no later than May 1, 1998.

## Request for Early Action Status

*Seattle Pacific University is my first choice, and I intend to enroll as a student beginning Autumn Quarter 1998. I request Early Action status when my application for admission is considered.*

Signature \_\_\_\_\_ Date \_\_\_\_\_

***Please type or print.***

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Social Security Number \_\_\_\_\_

*Return this form with the Undergraduate Admission Application and \$35 application fee by December 1, 1997. Mail it to:*

Kenneth E. Cornell, Director of Admissions  
Seattle Pacific University  
3307 Third Avenue West  
Seattle, Washington 98119

Undergraduate Admission Application

This form, along with school transcripts, SAT or ACT scores, the two essays, and academic and personal recommendations will be considered when evaluating your application to Seattle Pacific University. The information provided will also be used to determine scholarship eligibility. In order to give us an accurate picture of your academic and personal qualifications, please respond clearly and completely to each of the following questions. Attach additional pages if necessary.

For the most timely response, SPU recommends that you submit all application materials in one packet.

Please type or print. (This application must be completed by the student.)

Quarter applying for Autumn 19 (Deadline: Sept. 1) Winter 19 (Deadline: Dec. 1) Spring 19 (Deadline: March 1) Summer 19 (Deadline: May 1)

Status applying for Freshman Transfer Post-baccalaureate

Have you requested admission information from SPU in the past? Yes No

Have you applied to SPU before? Yes No If yes, when? Quarter Year Were you admitted? Yes No

If you were previously admitted, did you enroll in classes? Yes No When did you last attend?

Personal Information

1. Name Last First Middle Preferred Name Former Name

2. Sex Male Female

3. Present Address Number and Street City State Zip Code Country

Daytime Phone Evening Phone

How long will you receive mail at this address? Until Mo / Day / Yr Your E-Mail Address:

4. Permanent Address Number and Street City State Zip Code Country

Phone

5. Social Security No. / / 6. Birthdate Mo / Day / Yr 7. Birthplace

8. Country of Citizenship Current Visa Type Are you a resident alien? Yes No Resident Alien No. A-

9. (Optional) How would you describe yourself? (Please check.) American Indian African-American Hispanic-American (Please specify origin.) Other (Please specify origin.) Alaskan Native Caucasian/White Asian-American (Please specify origin.)

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)? Yes No

11. Name of Church You Attend Denomination

Address Number and Street City State Zip Code

Phone



Family Information

Note: Adult learners do not need to complete this section, unless it applies.

12.

Name of Father or Legal Guardian ☐ Living? ☐ Yes ☐ No

Address (Number and Street) Phone

City State Zip

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? ☐ Yes ☐ No

Address (Number and Street) Phone

City State Zip

Country

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. ☐ Yes ☐ 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? ☐ Yes ☐ No

Educational Plan

18. Intended Major

If undecided, what subject area or career interests you?

19. Please list each of the colleges and universities to which you are applying in order of your preference. Include SPU.

1. School City, State

2. School City, State

3. School City, State

Educational Background

20. When will (or did) you graduate from high school? Mo/Yr

21. Do you have a GED? ☐ Yes ☐ No

22. Are you a home-schooled student? ☐ Yes ☐ No

23. Have you taken the SAT I or ACT? ☐ Yes ☐ No Test Date Scores: SAT: V M ACT: Composite

Did you take the SAT I or ACT twice? ☐ Yes ☐ No Test Date Scores: SAT: V M ACT: Composite

24. (Freshman Applicants) Please list all the courses you are taking in your senior year. Please note whether any are advanced placement or honors courses.

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

25. (Freshman Applicants) Have you ever been enrolled in a college or university course for which you also received high school credit? ☐ Yes ☐ No  
If so, at which college or university have you been enrolled?  
Are you participating in the Washington State Running Start Program? ☐ Yes ☐ No

26. List all high schools, colleges, universities and post-secondary institutions you have attended. (Please give full names.) You are required to send official transcripts from each institution even if you do not expect to transfer credit.

Name of High School City, State Dates of Attendance

Name of College, University or Post-Secondary School City, State Dates of Attendance Approx. # of Credits Earned Degrees Earned

27. (Transfer Students) Are you a member of the Phi Theta Kappa Honor Society? ☐ Yes ☐ No

28. If you are not currently in school, please describe your activities (e.g. work, travel, community service, etc.) since you were last enrolled.

Additional Information

29. Do you plan to apply for financial assistance? ☐ Yes ☐ No  
If yes, the Free Application for Federal Student Aid (FAFSA) was/will be filed on: Date

30. Preference for Living Arrangements ☐ On Campus ☐ Off Campus  
(Note: Unmarried students under 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 Student Life.)

31. In which of the following would you like to participate? (Check as many as apply.)

☐ Band ☐ Choir ☐ Orchestra ☐ Theatre

☐ Visual Arts ☐ Campus/Urban Ministry ☐ International Missions ☐ Honors Programs

☐ Debate ☐ Student Publications ☐ Student Leadership ☐ Study Abroad

☐ Intramural Sports ☐ NCAA Athletics

Specify sport(s)

32. Have you visited the SPU campus? ☐ Yes ☐ No  
If yes, what was the occasion?  
☐ Personally Arranged Visit ☐ Senior Preview/Campus Preview ☐ Other Campus Event (Please name.)

33. How did you hear about Seattle Pacific University? Was there a particular person(s) who influenced your decision to apply (SPU faculty or staff member, current student, alum)?

34. What was the most important factor in your decision to apply for admission?

Involvement and Activities

Please describe all high school/college, 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 necessary.

35. High School/College Activities	# of Hours Per Week	Years of Involvement
36. Church Activities/Involvement		
37. Leadership Positions Held		
38. Community Service Activities		
39. Professional/Employment Activities		
40. Honors/Awards/Recognitions/Other		

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. Both essay questions must be answered. (Attach additional pages -- minimum one page per essay.)

41. Seattle Pacific University seeks to admit students who will best succeed in and benefit from an environment where learning and Christian faith are integrated (although a profession of Christian faith is not required for admission). How would enrolling at SPU help you accomplish your educational and personal goals?
42. 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. Further, I am aware of the standards and expectations for student conduct outlined on page 34 and on the inside back cover of the University Catalog. If admitted to Seattle Pacific, I agree 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	<input type="checkbox"/>	<input type="checkbox"/> _____
Personal Essays (2)	<input type="checkbox"/>	<input type="checkbox"/> _____
\$35 Application Fee	<input type="checkbox"/>	<input type="checkbox"/> _____
Early Action Form (if applicable)	<input type="checkbox"/>	<input type="checkbox"/> _____
Academic Recommendation	<input type="checkbox"/>	<input type="checkbox"/> _____
Personal Recommendation	<input type="checkbox"/>	<input type="checkbox"/> _____
Official High School Transcript	<input type="checkbox"/>	<input type="checkbox"/> _____
Official Scholastic Aptitude Test (SAT I) or American College Test (ACT) Scores (if required)	<input type="checkbox"/>	<input type="checkbox"/> _____
Official College Transcripts (if required)	<input type="checkbox"/>	<input type="checkbox"/> _____

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 Policy

It is the policy of Seattle Pacific University not to discriminate on the basis of race, color, national origin, sex, age or disability in admission and access to, or treatment or employment in its programs or activities, as required by section 504 of the Rehabilitation Act of 1973, as amended, the Americans with Disabilities Act, as amended (to the extent applicable to the University), Title IX of the Educational Amendments of 1972, as amended, Title VI of the Civil Rights Act of 1964, as amended, and the Age Discrimination Act, as amended, and their implementing regulations.

As a religious educational institution operating under the auspices of the Free Methodist Church of North America, Seattle Pacific University is permitted and reserves the right to prefer employees or prospective employees on the basis of religion.

If you have any questions regarding this policy, please contact the following persons:

Section 504 Coordinators:  
Primary Coordinator for Learning Services (206) 281-2272  
Secondary Vice President for Campus Life (206) 281-2067  
Seattle Pacific University  
3307 Third Avenue West  
Seattle, WA 98119

Title IX Coordinators:  
Primary Vice President for University Relations (206) 281-2650  
Secondary Director of Human Resources (206) 281-2065  
Seattle Pacific University  
3307 Third Avenue West  
Seattle, WA 98119

If you believe you may have been discriminated against in violation of this policy, please contact the Section 504 Coordinators, the Title IX Coordinators, the Office of Student Life or the Office of Human Resources for a copy of the University's grievance procedures.



Academic Recommendation

To be completed by applicant:

**Note to Applicant:** An Academic Recommendation is a required part of your application for admission. This recommendation should be completed by a high school teacher, counselor or official; or a college advisor or official. Adult learners should select someone to complete this recommendation who is familiar with 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 Social Security Number

Address Number and Street City State Zip Code

Please check if you wish to waive your right under the Family Educational Rights and Privacy Act of 1974 to access this recommendation.

To be completed by respondent:

**Note to Respondent:** The above student is applying for admission to Seattle Pacific University. We value your comments and ask that you provide a full and candid report so that fair consideration may be given to the applicant. The student has access to his/her file, which will include your recommendation (unless he/she has waived that right above). This provision is made in accordance with the Family Educational Rights and Privacy Act of 1974.

Your recommendation is a significant part of the student's application for admission. The student cannot be considered for admission to SPU without this recommendation.

Please type or print.

1. How long have you known the applicant?

2. In what context have you known the applicant?

3. Academic Performance  
How would you rate this student in the following areas?

	Outstanding (Top 10%)	Good	Average	Below Average
Motivation				
Self-Discipline				
Creativity				
College Preparedness				

4. Character and Personal Qualities  
How would you rate this student in the following areas?

	Outstanding (Top 10%)	Good	Average	Below Average
Leadership				
Self-Confidence				
Concern for Others				
Personal Initiative				

5. 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 SPU. What talents and strengths would enable this student to succeed at Seattle Pacific? Are there any academic or personal traits which might hinder the applicant's success? Please explain.

6. I recommend this applicant for admission:

	With Enthusiasm	Strongly	Fairly Strongly	Without Enthusiasm	Not Recommended
For Academic Promise					
For Character and Personal Promise					
For Leadership Potential					
Overall Recommendation					

Name (Please print.) \_\_\_\_\_ Date \_\_\_\_\_

Signature \_\_\_\_\_ Position \_\_\_\_\_

High School/College/Organization \_\_\_\_\_

Address \_\_\_\_\_  
Number and Street City State Zip Code

Phone (\_\_\_\_\_) \_\_\_\_\_ ☐ SPU Alum Class of \_\_\_\_\_

Please return to:

Kenneth E. Cornell, Director of Admissions  
Seattle Pacific University  
3307 Third Avenue West  
Seattle, Washington 98119

SEATTLE PACIFIC UNIVERSITY

Personal Recommendation

To be completed by applicant:

Note to Applicant: A Personal Recommendation is a required part of your application for admission. This recommendation should be completed by a minister, youth worker, employer or professional associate who is familiar with your character and values. It should not be completed by a relative, or the same person who completed your Academic Recommendation.

Please type or print.

Applicant's Name \_\_\_\_\_ Social Security Number \_\_\_\_\_

Address \_\_\_\_\_  
Number and Street City State Zip Code

☐ Please check if you wish to waive your right under the Family Educational Rights and Privacy Act of 1974 to access this recommendation.

To be completed by respondent:

Note to respondent: The above student is applying for admission to Seattle Pacific University. We value your comments and ask that you provide a full and candid report so that fair consideration may be given to the applicant. The student has access to his/her file, which will include your recommendation (unless he/she has waived that right above). This provision is made in accordance with the Family Educational Rights and Privacy Act of 1974.

Your recommendation is a significant part of the student's application for admission. The student cannot be considered for admission to SPU without this recommendation.

Please type or print.

1. How long have you known the applicant? \_\_\_\_\_

2. In what context have you known the applicant? \_\_\_\_\_

3. Character and Personal Qualities  
How would you rate this student in the following areas?

	Outstanding (Top 10%)	Good	Average	Below Average
Leadership				
Self-Confidence				
Concern for Others				
Personal Initiative				

4. It is our intent to admit students who will succeed in and benefit from a Christian environment, although a profession of Christian faith is not necessary for admission to Seattle Pacific University. How would you describe this applicant's understanding of and/or commitment to the Christian faith? How is this manifested in the church and community?



## Seattle Pacific: A Christian University

is by selecting faculty and staff members who are unapologetically Christian, share the same essentials of faith and exhibit a vital concern for the faith development of students.

Another way is through the University Chapel/Forum program, which includes morning worship and faculty-led small 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 academic cheating; sexual immorality; use of tobacco, alcohol or illegal drugs; and participation in acts of racial or sexual harassment. These are not “rules for rules’ sake,” but are intended to show respect for SPU’s Christian tradition and for other community members.

Seattle Pacific University doesn't use the word "Christian" lightly when describing itself. Our Christian identity is as important to us today as it was a century ago. We believe that without faith, knowledge is incomplete.

Seattle Pacific works hard to maintain and strengthen its Christian environment. One way in which we accomplish this

**6.** I recommend this applicant for admission:

	With Enthusiasm	Strongly	Fairly Strongly	Without Enthusiasm	Not Recommended
For Academic Promise					
For Character and Personal Promise					
For Leadership Potential					
Overall Recommendation					

Name (Please print.) \_\_\_\_\_ Date \_\_\_\_\_

Signature \_\_\_\_\_ Position \_\_\_\_\_

Church/Organization \_\_\_\_\_

Address \_\_\_\_\_

Number and Street \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_

Phone ( ) \_\_\_\_\_ ☐ SPU Alum Class of \_\_\_\_\_

Please return to:

Kenneth E. Cornell, Director of Admissions  
Seattle Pacific University  
3307 Third Avenue West  
Seattle, Washington 98119

## SEATTLE PACIFIC UNIVERSITY NONDISCRIMINATION POLICY

It is the policy of Seattle Pacific University not to discriminate on the basis of race, color, national origin, sex, age or disability in admission and access to, or treatment or employment in its programs or activities, as required by section 504 of the Rehabilitation Act of 1973, as amended, the Americans with Disabilities Act, as amended (to the extent applicable to the University), Title IX of the Educational Amendments of 1972, as amended, Title VI of the Civil Rights Act of 1964, as amended, and the Age Discrimination Act, as amended, and their implementing regulations.

As a religious educational institution operating under the auspices of the Free Methodist Church of North America, Seattle Pacific University is permitted and reserves the right to prefer employees or prospective employees on the basis of religion.

If you have any questions regarding this policy, please contact the following persons:

## Section 504 Coordinators:

Primary: Coordinator for Learning Services .....	(206) 281-2272
Secondary: Vice President for Campus Life .....	(206) 281-2067

**Title IX Coordinators:**

Primary: Vice President for University Relations .....	(206) 281-2650
Secondary: Director of Human Resources .....	(206) 281-2065

If you believe you may have been discriminated against in violation of this policy, please contact the Section 504 Coordinators, the Title IX Coordinators, the Office of Campus Life or the Office of Human Resources for a copy of the University's grievance procedures.

Seattle Pacific University  
3307 Third Avenue West  
Seattle, WA 98119

*This publication is certified as true and correct in content and policy as of the date of publication. The University reserves the right, however, to make changes of any nature in programs, calendar, academic policy, or academic schedules whenever these are deemed necessary or desirable, including changes in course content, class rescheduling, and the canceling of scheduled classes or other academic activities.*





Seattle Pacific University

3307 Third Avenue West  
Seattle, Washington 98119/Phone: (206) 281-2000

Toll Free: 1-800-366-3344

Non-Profit Organization  
U.S. Postage  
**PAID**  
Permit No. 1179  
Seattle, Washington