**Geopolitics**

See Political Science

**German**

See Languages

**Health Sciences, School of**

Marston Hall
(206) 281-2233
www.spu.edu/depts/hsc/

Lucille Kelley, Dean of the School of Health Sciences

Ruby Englund, Mary Fry, Theresa Granger, Chris Henshaw, Emily Hitchens, Donna Hoffert, Barbara Innes, Lyle Melton, Linda Pedersen, Kathy Stetz, Elizabeth Torrence, Martha Worcester

**Lydia Green Nursing Program**

The bachelors of science with a major in nursing prepares graduate to assume entry-level practice and leadership roles in a variety of settings, while seeking to implement the University’s desire to graduate people of competence, character and wisdom. 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.

Curriculae 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 approved by the state of Washington and accredited by the Commission for Collegiate Nursing Education. Upon completion of the degree, the graduate is eligible to take the national examination required for licensure as a registered nurse (NCLEX).

**Admission to the Major Process**

Students interested in professional nursing must apply through the Office of Admissions and be accepted by the University. High school preparation for nursing includes two years minimum of laboratory science, one of which should be chemistry. Those who indicate an interest in nursing can request a nursing faculty advisor after the first quarter of the freshman year.
SPU students seeking admission to the nursing major must make a formal application to the School of Health Sciences. Application forms for the nursing program are available by mid-October for the following autumn. It is recommended that students apply on or before February 1. Applicants applying after that date will be wait-listed on a space-available basis.

Transfer students contemplating transfer to SPU apply through the Office of Admissions, which qualifies applications for admission to the University. It is recommended that students apply to the University on or before March 1. Applicants are instructed to indicate in the University application that nursing is the intended major and to get the nursing application supplement, which is at the SHS Web site or in the SHS office. Post-baccalaureate transfer students need to ask for the post-baccalaureate application. Applicants applying after that date will be wait-listed on a space-available basis.

The Academic Student Affairs Committee evaluates applications on the basis of scholarship and personal qualifications judged necessary for nursing. Preference is given to current SPU students. A minimum GPA of 2.75 in the natural and social-science prerequisite course is expected; a 3.0 GPA is preferred. GPA does not guarantee admission to the program. Grades less than a C will not be accepted. Entering students are expected to have basic computer literacy including word processing and email, and be able to participate in computer-assisted instruction, online literature searches and Web-based courses.

Registered nurses from diploma and associate-degree programs who wish to complete a bachelors of science degree make an appointment with the director of the R.N. to B.S. degree completion program before applying to the University. Individual transcript evaluation and planning is made at the time of admission to the program. Applicants are encouraged to get an A.A. degree in order to complete the lower-division liberal arts requirements necessary for general education and graduation from the University.

International students who are registered nurses in another country must pass the TOEFL (if English is not the first language) and the foreign-nurse examination (CGFNS) prior to beginning the program before applying to the University. Individual transcript evaluation and planning is made at the time of admission to the program. Applicants are encouraged to get an A.A. degree in order to complete the lower-division liberal arts requirements necessary for general education and graduation from the University.

Expenses for Basic Nursing Students

General expenses are the same as for other students with the following additions.

1. Clinical practicum fee ($75/clinical credit)
2. Uniforms and shoes (Approximately $200)
3. Books and supplies for the Autumn Quarter beginning the nursing major is approximately $1,000.
4. Comprehensive testing program ($120/yr. for $240 total for junior and senior years). This includes an NCLEX review course.
5. Costs for transportation vary for practicum by quarter.
6. Other costs include a physical examination by primary care provider, current immunizations with yearly updates, personal health insurance, access to a car and a current driver’s license.
7. Costs at the end of the program are for the National Board of Nursing Exam (NCLEX) and state licensure. Check www.ncsbn.org for current costs.

Scholarships and Loans

Students in the nursing major, needing financial assistance, should apply to the Office of Student Financial Services. In addition to general aid and work-study programs, nursing students may want to apply to government sponsored programs such as the VALOR program through the Veteran’s Administration, Health-Resources Services Administration (HRSA) or the armed services through ROTC at the University of Washington. Students are also encouraged to apply to local medical societies, tuition reimbursement at local hospitals (if there is a commitment to work after graduation), nursing organizations such as the Washington State Nurses Foundation or community organizations such as Rotary. Scholarships are also listed on the SHS Web site at www.spu.edu/depts/hsc. The SHS has a number of endowed scholarships given every year through the generosity of foundations, alumni and individuals.

Policies

Educational standards and policies governing students admitted to the nursing programs and regulations covering a student’s progression through the nursing program are outlined in the Seattle Pacific University Student Nurse Handbook. This handbook is available on the SHS Web site; it is also given to each entering student at Orientation.

Special Programs

The nursing program also offers transcultural experience for students on campus and abroad. Nursing students may apply to have an international practicum during the Winter Quarter of the
Health Sciences Courses

HSC 3000 Issues in Women's Health (3) Examines selected issues in women's health care in the context of women's lived experiences, including women's health care issues within the existing health care system, ways to reclaim and reshape gynocentric care for themselves, and sociopolitical activities that facilitate health care for all women. Global health care will be addressed with SPU mission to engage the culture. Course equivalent: WST 3000. Attribute: Upper-Division.

HSC 3035 Human Sexuality (3) Introduces basic aspects of human sexuality: biologically how the reproductive system works; psychologically how males and females view their sexuality; and sociologically how sexual values and behavior affect the society as a whole. Christian perspectives will be related to the development of sexual values. Attribute: Upper-Division. Class open to juniors and seniors.

HSC 3395 Health Care Delivery Systems (3) Examines perspectives on differing health care philosophies and practices in the United States and other countries. Explores trends, current events and technology. Presentations are given by health care providers and consumers from the community. Attribute: Upper-Division.

HSC 4044 Biomedical Tests, Measurements and Statistics (5) Promotes the conceptual understanding of the basic statistical procedures used in research. Helps participants achieve those computational skills needed to carry out statistical procedures in practical settings and the use of the computer in data analysis. Attributes: Quantitative Reasoning; Mathematics; and Upper-Division. Class open to nursing majors.

HSC 4391 Pathophysiology (3) 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 genetics; protective, resistive and adaptive mechanisms; phases of pathologic changes; related clinical findings; and the influence of current interventions. Attribute: Upper-Division. Class open to nursing majors.

HSC 4900 Independent Study (1–5) Registration approval: Independent Study Agreement. May be repeated for credit up to 15 credits. Attribute: Upper-Division.

HSC 4940 Internship (1–5) Registration approval: Intern Learning Contract Req. May be repeated for credit up to 5 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. Attribute: Upper-Division.

Nursing Courses

NUR 2001 Partners in Life-Long Learning Program (1–6) Reviews coursework from nursing classes. Open to nursing students who are in the Partners in Life-Long Learning Program. Credits do not count toward the 80-credit nursing major. May be repeated for credit up to 6 credits. Class open to nursing majors. Class not open to freshmen and sophomores.

NUR 3050 Professional Nursing Role: RN (5) Designed specifically for registered nurses who are beginning a program of study for the baccalaureate degree in nursing. The course encourages self-directed study based on adult-learning concepts and facilitates adjustment to the education-human environment system experience in general and to the student role at SPU in particular. Professional nursing is the focus of the course, extending from historical and philosophical concepts to contemporary trends, and future possibilities for the professional nursing role. Emphasizes group work, elements of groups, group theory and collaboration through group work. Offered off campus only. Attributes: Upper-Division; and Writing Course.

NUR 3947 Family and Community Nursing: RN (5) Prerequisite: NUR 3950. Analysis, application and evaluation of community-health nursing processes at the levels of family, small groups, community and at-risk populations. Identification of community health diagnoses as the basis for interventions to maintain and/or promote health, prevent disease and enable self-care within and by a community. Offered off campus only. Attribute: Upper-Division.

NUR 3948 Professional Nursing Role I (5) Prerequisites: PSY 1180, PSY 2470, CHM 1211, CHM 1330, BIO 2129, 2130, 3351 and FCS 3340 or BIO 1100 Human Nutrition. Introduction to the role of a professional nurse. Explores concepts such as nursing as a profession, elements of the professional nurse role, health care delivery systems, and settings, critical thinking, research, and ethics and values within a Christian context. Attributes: Upper-Division; and Writing Course. Class open to nursing majors.

NUR 3952 Basic Nursing Theory (6) Prerequisites: PSY 1180, 2470, CHM 1211, 1330, BIO 2129, 2130, 3351, and FCS 3340 or BIO 1100 Human Nutrition. An introduction to nursing, covering basic nursing science concepts and an introduction to nursing assessment. The nursing assessment focus is on data collection and nursing diagnosis. Emphasis is with adults in long-term and community setting. Attribute: Upper-Division. Class open to nursing majors.

NUR 3953 Basic Nursing Practicum (5) Prerequisites: BIO 2129, 2130, 3351, PSY 2470, CHM 1211, 1330, and FCS 3340 or BIO 1100 Human Nutrition. Provides experiences in application of the nursing process. Primary and secondary levels of care introduced in a long-term care and community-based setting. Extra laboratory/internship fee. Attribute: Upper-Division. Class open to nursing majors.

NUR 3954 Nursing of Adults I — Theory (6) Prerequisites: NUR 3948, 3952, 3953. Concepts of health promotion, health protection, prevention, and managing human responses to physical and mental illness are explored. Pathophysiology, pharmacology, spirituality and human-diversity issues are integrated. The nursing process is utilized with adults in the context of the family and community-based settings. Corequisite: NUR 3955. Attributes: Upper-Division; and Writing Course. Class open to nursing majors.


NUR 3956 Nursing of Adults II — Theory (6) Prerequisites: NUR 3954, 3955. Builds on Nursing of Adults I. Applies nursing process to more complex human responses in health and illness with adults. Emphasis continues to pathophysiology, pharmacology, physical and mental health and illness issues of the individual in family and community-based settings. Corequisite: NUR 3957. Attribute: Upper-Division. Class open to nursing majors.

NUR 4051 Professional Nursing Role: RN (4) Prerequisite: NUR 3950. Theoretical investigation of leadership and organizational concepts and their application to the professional nursing role as leader within the health care system and the nursing profession. Focuses on health care delivery systems, effective leadership, team development, change and health policy. Offered only off campus. Attribute: Upper-Division.

NUR 4848 Professional Nursing Role II (3) Prerequisites: NUR 4854, 4855, HSC 4391. Theoretical investigation of leadership and organizational concepts and their application to the professional nursing role within the health care team and in the delivery of health care to individuals, groups and selected populations. Corequisites: NUR 4859 and NUR 4899. Attribute: Upper-Division. Class open to nursing majors.

NUR 4852 Family and Community Nursing I Theory (6) Prerequisites: NUR 3956, 3957. Focuses on family and community responses to physical and mental health and illness across the life span. Primary emphasis is on the child-bearing and child-rearing years. Community assessment and analysis will be covered. Integrates concepts from pharmacology, physiology, cultural diversity and spirituality. Attribute: Upper-Division. Class open to nursing majors.

NUR 4853 Family and Community Nursing I Practicum (5) Prerequisites: NUR 3956, 3957. Provides opportunities for the application of theory in a variety of acute-care and community settings that provide health care to child-bearing and child-rearing families. Extra laboratory/internship fee. Corequisite: NUR 4852. Attribute: Upper-Division. Class open to nursing majors.


NUR 4855 Family and Community Nursing II - Practicum (5) Prerequisites: NUR 4852, 4853. Builds upon NUR 4853. Focus is on the application of the nursing process to more complex mental and physical health issues for families and communities. Extra laboratory/internship fee. Corequisites: HSC 4391, NUR 4854 and NUR 4971. Attribute: Upper-Division. Class open to nursing majors.

NUR 4859 Professional Nursing Synthesis Internship (8) Prerequisites: HSC 4391, NUR 4854, 4855. Focus is on synthesis of past educational experiences within a variety of acute-care and community settings. Interdisciplinary work, application of leadership skills and working in partnerships with selected communities provide opportunities to demonstrate effective integration and synthesis of prior learning. Also offered off campus. Extra laboratory/internship fee. Corequisites: NUR 4848 and NUR 4899. Attribute: Upper-Division. Class open to seniors.

NUR 4899 Professional Nursing Synthesis Theory (5) Prerequisites: NUR 4854, 4855, HSC 4391. Focus is on the future of health care and nursing and on continued professional development. This is a capstone course that integrates all prior coursework including core curriculum concepts, and courses from the first two years of study are expected. Corequisites: NUR 4848 and NUR 4899. Attribute: Upper-Division. Class open to nursing majors.

NUR 4900 Independent Study (1–5) Registration approval: Independent Study Agreement. May be repeated for credit up to 10 credits. Attribute: Upper-Division.

NUR 4944 Health Care Delivery Models: RN (3) Explores selected models of health care delivery in the United States with a primary focus on the professional nurse's role in negotiating and influencing these systems now and in the future. Looks at historical development; elements of the models; impact on health care consumers; providers and provider organizations; ethical issues; and roles and responsibilities for professional nurses, including skills needed; and anticipated future directions for health care delivery. Offered off campus only. Attribute: Upper-Division.

NUR 4950 Selected Topics (1–5) Focuses on emerging and specialized topics in nursing. May be repeated for credit up to 10 credits. Attribute: Upper-Division.

NUR 4951 Leadership in the Community: RN (6) Registration approval: Instructor. Designed as a transition course for those students who are RN/ADN with a B.S./B.A. in another field of study. Attribute: Upper-Division. Class open to nursing majors. Class open to post-baccalaureate students.

NUR 4970 Research: RN (1–5) Prerequisites: HSC 4044 or BUS 1360 or MAT 1360 or a course in statistics. Examines the research process, including critique of in-process and completed research. Gives opportunity for a systematic investigation of a health-related topic of student’s choice demonstrating knowledge of research methodology. This course should be taken by students who are transitioning into the M.S.N. program, and did not have a research course in their undergraduate program. Offered online every quarter. Attribute: Upper-Division.


Faculty
Ruby M. Englund, Associate Professor of Nursing; B.S.N., Gustavus Adolphus College, 1964; M.N., University of Washington, 1965. R.N. At SPU since 1966.
Mary E. Fry, Associate Professor of Nursing; B.S.N., University of Washington, 1966; M.N., 1972; Ph.D., Oregon Health Sciences, 1994. At SPU since 1969.
Theresa Granger, ARNP Instructor; B.S.N., Washington State University, 1992; M.S.N., 1996. At SPU since 2003.
Donna Hoffert, Instructor of Nursing; B.S.N., University of the State of New York; M.S.N. Syracuse University. At SPU since 2000.
Emily A. Hitchens, Professor of Nursing; Associate Dean of School of Health Sciences; B.S.N., University of Washington, 1965; M.N., 1967; Ed.D., Seattle University, 1988. At SPU since 1979.

*Nursing faculty are committed to nurturing a community of learners who model competence and grace. Students then live in that culture by engaging in health promotion and illness intervention in the local and international communities.*

Elizabeth Torrence
Nursing
they could with limited
struggled to do the best
times thought, felt and
people in other places and
materials from the human
History
Michael Hamilton
History invites one's
Internships and other off-campus study opportunities add practical
major, such as political science or European studies, is encouraged.
both on and off campus. Complementing history with a second
thinking, effective communication and placing events into broader
and government to the pastorate and missions. For students with
a wide variety of other professions ranging from journalism, law
human cultures and the influence of heritage on identity.
can help us understand the sweep of human events, the variety of
Christianity in both Western and non-Western settings. The
history. Along the way students are able to trace the impact of
probes more deeply into American, European and non-Western
cultures. The major program explores the roots and development
reading, deep thinking and clear communication.

History study at SPU seeks a balanced understanding of world
cultures through time, as well as for education students seeking an
college experience by examining the unfolding story of human
A minor in history is available for those wishing to enrich 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
for a term in the American Studies Program in Washington,
Europe, Russia, Costa Rica, Egypt, China or Kenya. Or study public
policy for a term in the American Studies Program in Washington,
D.C. For details please consult the history faculty or the department
Web page at www.spu.edu/depts/history/.
To qualify for admission to the major, a student must have a 2.5
minimum GPA.

**Requirements for the History Major**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>56 credits; 26 upper-division</td>
<td></td>
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<tr>
<td>Refer to pages 60–62 for a summary of degree requirements.</td>
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<tr>
<td><strong>World Civilization</strong></td>
<td></td>
</tr>
<tr>
<td>HIS 1200 Ancient and Medieval Worlds</td>
<td>5</td>
</tr>
<tr>
<td>UCOR 2000 The West and the World or an advisor-approved equivalent modern world history course</td>
<td>5</td>
</tr>
<tr>
<td><strong>United States</strong></td>
<td></td>
</tr>
<tr>
<td>HIS 2502 The United States to 1876</td>
<td>5</td>
</tr>
<tr>
<td>HIS 2503 The United States since 1876 or an advisor-approved upper-division substitution</td>
<td>5</td>
</tr>
<tr>
<td><strong>Non-Western World</strong></td>
<td></td>
</tr>
<tr>
<td>Two courses in the history of a non-Western region (i.e., Africa, Asia, Latin America, Middle East or comparative non-Western)</td>
<td>10</td>
</tr>
<tr>
<td><strong>History of Christianity</strong></td>
<td></td>
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<tr>
<td>One course in the history of Christianity (e.g., HIS 3382, HIS 3401, HIS 3402, HIS 3405, HIS 3406, HIS 3501), or an advisor-approved substitution</td>
<td>3–5</td>
</tr>
<tr>
<td><strong>Historiography and Research</strong></td>
<td></td>
</tr>
<tr>
<td>HIS 3850 History of Historical Writing</td>
<td>3</td>
</tr>
<tr>
<td>Capstone Research Seminar</td>
<td>3</td>
</tr>
<tr>
<td>Electives*</td>
<td>15–17</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>56</td>
</tr>
</tbody>
</table>

*Should reflect a balance among European, U.S. and non-Western studies. May include, with advisor's approval, one course in a related field. Students are encouraged to propose some independent activity (HIS 4900 series).

Students majoring in history should work closely with their advisor in selecting additional supporting courses tailored to their career goals. Students planning graduate study should acquire a reading mastery of a foreign language. Students seeking teaching credentials must include HIS 3600 History of the Pacific Northwest in their program; they should also consult with the School of Education early in their academic program.

**The History Minor**

A minor in history is available for those wishing to enrich their college experience by examining the unfolding story of human cultures through time, as well as for education students seeking an additional credential.

**Requirements for the General History Minor**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 credits; 15 upper-division</td>
<td></td>
</tr>
<tr>
<td>UCOR 2000 The West and the World, or an advisor-approved equivalent modern world history course</td>
<td>5</td>
</tr>
<tr>
<td>HIS 2502 The United States to 1876 (5) or HIS 2503 The United States since 1876 (5)</td>
<td>5</td>
</tr>
<tr>
<td>One course in the history of a non-Western region</td>
<td>5</td>
</tr>
<tr>
<td>Electives</td>
<td>15</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>30</td>
</tr>
</tbody>
</table>

**Requirements for the Teaching History Minor**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 credits; 15 upper-division</td>
<td></td>
</tr>
<tr>
<td>UCOR 2000 The West and the World, or an advisor-approved equivalent modern world history course</td>
<td>5</td>
</tr>
<tr>
<td>HIS 2502 The United States to 1876</td>
<td>5</td>
</tr>
<tr>
<td>HIS 2503 The United States since 1876</td>
<td>5</td>
</tr>
<tr>
<td>HIS 3600 History of the Pacific Northwest</td>
<td>5</td>
</tr>
</tbody>
</table>
**History Department**

School of Education section of the Catalog for a description of this major

History Courses

**HIS 1200 Ancient and Medieval Worlds** (5) Surveys the period from the rise of Greece and Rome, with some reference to pre-Classical cultures, to about 1500. Emphasizes the role of Greco-Roman and Judeo-Christian cultures in the shaping of institutional, artistic and cultural values that distinguish our Western culture from others, as well as the unique features of classical-medieval culture and their relevance today. Attributes: Contexts for society: history/geography; and Social Science B.

**HIS 1201 Medieval Europe** (5) Surveys the period from the fall of the Roman Empire to about 1500. Emphasizes the role of Christianity and the shaping of institutions, techniques and values that distinguish our Western culture from others, as well as the unique features of medieval culture and their relevance today. Attributes: Contexts for society: history/geography; Media; and Social Science B.

**HIS 1202 Modern Europe** (5) Surveys European history from 1500 to the present. Includes Reformation and Counter-Reformation; political, economic and cultural transformations; capitalist and non-capitalist responses to industrialization; international power struggles; and 20th-century totalitarian regimes of fascism and communism. Attributes: Contexts for society: history/geography; and Social Science B.

**HIS 2502 The United States to 1876** (5) Surveys the development of the American nation from the earliest colonial settlements through the Reconstruction period. Emphasizes institutions, issues, ideas and individuals. Focuses on basic trends such as industrialization, patterns of thought and values, political development, social change and sectional conflict. Readings also explore everyday social experience of minority and mainstream groups. Attributes: Contexts for society: history/geography; and Social Science B.

**HIS 2503 The United States Since 1876** (5) Continues the emphasis of HIS 2502. Surveys the emergence of contemporary American life and culture from the 1870s to the present; focuses on American power at home and abroad, the rise of today’s mass consumer society and the emergence of new values. Readings also explore aspects of modern popular culture. Attributes: Contexts for society: history/geography; and Social Science B.

**HIS 3100 Ancient Civilization** (5) Surveys Mediterranean history from early Egypt and Mesopotamia to the rise of the Roman Empire with emphasis on the Bronze Age. Enables the student to understand the world of the Old Testament. Course equivalent: CLA 3100. Attribute: Upper-Division.

**HIS 3170 Classical Civilization** (5) Explores history, literature and society of classical Greece and Rome, stressing contributions to modern Western civilization. Course equivalent: CLA 3170. Attributes: Literature Option; and Upper-Division.


**HIS 3331 History of Spain and Portugal** (5) Traces the origins of the Iberian Peninsula from the Roman era to the discovery of the New World in 1492. Emphasizes cultural, social and ecclesiastical institutions and movements. Attribute: Upper-Division. Class not open to freshmen.

**HIS 3335 Iberian Civilization and Culture** (5) Registration approval: Travel Studies Form. Focuses on the culture and history of the Iberian Peninsula in the Spanish Renaissance and Reformation through a month of summer study at the University of Salamanca, Spain. (For post-baccalaureate students, can be taken as HIS 5335.) Attribute: Upper-Division. Class not open to freshmen.

**HIS 3345 Modern Russia** (5) Surveys Russian social, cultural and political history with primary attention to the tsarist, revolutionary and Soviet eras, examining their legacies for current development and change. Course equivalent: POL 3345. Attributes: Contexts for society: history/geography; Social Science B, Upper-Division; and Writing Course. Class not open to freshmen.

**HIS 3382 The Cross and the Crescent: Crusades and Holy Wars in the High Middle Ages: (1095–1492)** (5) Prerequisite: HIS 1200 or equivalent. Explores the Crusades and Holy Wars in Spain in social, political and religious contexts. Topics include Just War theory, economic influences, missions to Muslims, Christian-Muslim theological debates and the Reconquest in Spain. Muslim and Christian views of the Crusades and Holy Wars are presented. Attribute: Upper-Division. Class not open to freshmen.

**HIS 3385 European Intellectual History: From Anselm to Marx** (5) Surveys major thinkers and intellectual movements from scholasticism to Marxism, with emphasis on the historical context. Includes directed readings in primary sources. Attribute: Upper-Division. Class not open to freshmen.

**HIS 3401 Early and Medieval Christianity** (5) A survey of Christianity from its post-Apostolic origins to the end of the Middle Ages. Evaluates the formation of orthodoxy, the challenge of heterodoxy, early monasticism and missions to Western Europe; then explores the achievement of the medieval church through a study of the papacy, Scholasticism, the Crusades and Eastern Orthodoxy. Course equivalent: THEO 3301. Attribute: Upper-Division. Class not open to freshmen.

**HIS 3402 Reformation and Modern Christianity** (5) A survey of Christianity from the reformations of the 16th century to recent times. Focuses on Luther, Calvin and the Anabaptists; Anglicans and Puritans; the Council of Trent; 17th-century orthodoxy, rationalism and Pietism; the beginnings of Christianity in America; and the Great Awakening and Wesleyan revival of the 18th century. Course equivalent: THEO 3302. Attribute: Upper-Division. Class not open to freshmen.

**HIS 3405 Topics in the History of Christianity** (3–5) Specific focus may vary. Current topics: “Western Spirituality: Heretics, Mystics and Monks” (3). Explores various spiritual movements from the Early Church to the 16th century, with special attention to their contributions to mainstream Catholic and Protestant traditions. May be repeated for credit up to 10 credits. Course equivalent: THEO 3305. Attribute: Upper-Division. Class not open to freshmen.

**HIS 3406 Christianity in America** (5) A survey of the development of American Christian thought and institutions from the 17th century to the present. Representative works by major thinkers of different historical periods and denominational affiliations will be studied. Particular attention will be given to the contemporary religious landscape, that is, to the varieties of American church life today. Course equivalent: THEO 3303. Attributes: Christian Perspectives; and Upper-Division.

HIS 3440 International Peace and World Order (5) A study of conflict and conflict resolution in the international system, drawing upon resources from negotiation theory, peace studies, biblical models, international law and international organization, with analysis of varying world-order models. Course equivalent: POL 3440. Attributes: Contexts for society: history/geography; Social Science B, and Upper-Division. Class not open to freshmen.

HIS 3491 Origins of Western Science (5) Explores the unfolding of the Western scientific tradition and its cultural significance from ancient times to the era of the Scientific Revolution. Examines the development of physical science (especially astronomy and cosmology) within the context of traditions and sources from the ancient through early modern periods, culminating in the life and work of Isaac Newton. Attribute: Upper-Division. Class not open to freshmen.

HIS 3492 Foundations of Modern Science (5) Analyzes the growth of science and technology in the West from the 17th through early 20th centuries. Studies the concepts, methodology and cultural implications of developments in the physical and biological sciences from the Scientific Revolution to the age of Einstein. Attribute: Upper-Division. Class not open to freshmen.

HIS 3501 Colonial and Revolutionary America: Foundations of American Civilization (5) Explores America's pre-national experience in both local and international perspective, from the earliest explorations through the Revolution. Considers how America's distinctive cultural patterns developed. Emphasizes the role of Christianity in shaping the emergence of an American identity and character. Satisfies major requirement for history of Christianity course. Attributes: Social Science Integration; Social Science B; Upper-Division; and Writing Course. Class not open to freshmen.

HIS 3600 History of the Pacific Northwest (5) Surveys development of the region encompassing Washington, Oregon and Idaho from the discovery period to the present. Sets the regional story in the context of the general history of the American West. Field experiences required. (For post-baccalaureate students, a tutorial version of this course, HIS 5600, is offered year-round.) Attribute: Upper-Division. Class not open to freshmen.

HIS 3640 Growth of the American Economic System (3) Prerequisites: ECN 1100 or ECN 2101 and ECN 2102. Studies the development of the American economy, with particular attention to the rise of the modern business system and its impact on American society; gives corollary consideration to labor, agriculture, technology and the monetary system. Offered alternate years. Course equivalent: ECN 3640. Attribute: Upper-Division. Class not open to freshmen.

HIS 3670 History of American Foreign Relations (5) Studies the United States as a participant in the international system, from colonial dependency to superpower. Proposes a theoretical model for interpreting American foreign policy and applies this framework to historical events considered chronologically. Considers questions of morality in relation to foreign policy. Course equivalent: POL 3670. Attributes: Contexts for society: history/geography; Social Science B; Upper-Division; and Writing Course. Class not open to freshmen.

HIS 3710 Comparative Non-Western History (5) Explores the history of the non-Western World through thematic and regional comparisons. Sample themes include frontier encounters, colonialism, nationalism, modernization, state formation and social change. Attributes: Contexts for society: history/geography; Social Science B; Upper-Division and Writing Course. Class not open to freshmen.

HIS 3720 Rise of Islamic Civilization (5) Traces the rise and development of Islamic civilization from seventh century origins to the 18th century. Highlights the interaction of cultural, political and economic themes, as well as the changing relations between the Middle East and Europe. Attributes: Contexts for society: history/geography; Social Science B; Upper-Division; and Writing Course. Class not open to freshmen.

HIS 3730 Modern Middle East (5) Traces cultural, political and economic change in the Middle East from the 18th century to the present. Explores Middle Eastern/Islamic responses to Western expansion, the rise of nationalism, the Arab-Israeli conflict, the geopolitics of oil and the roots of terrorism. Attributes: Contexts for society: history/geography; Social Science B; Upper-Division; and Writing Course. Class not open to freshmen.

HIS 3750 Latin America (5) Traces the history of Latin America, with particular attention to the development of political, economic, social, religious and aesthetic values. Course equivalent: SOC 3750. Attributes: Upper-Division; and Writing Course. Class not open to freshmen.

HIS 3765 Traditional East Asia (5) Traces the making of Chinese and Japanese civilizations and the formation of political, social and moral order in China and Japan from antiquity to the 19th century, under the influence of both native and borrowed traditions, especially Confucianism and Buddhism. Attributes: Social Science B; and Upper-Division. Class not open to freshmen.

HIS 3785 Modern East Asia (5) Examines the cultural, religious and philosophical fabric of East Asian societies with special reference to China and Japan, as well as the political and economic developments and interactions with the West from the 18th century to the present. Attributes: Social Science B; and Upper-Division. Class not open to freshmen.

HIS 3790 History of Africa (5) Studies the history of Africa from prehistoric times to the present. Examines cultural, political and economic change both within Africa and between Africa and other world regions. Attributes: Upper-Division; and Writing Course. Class not open to freshmen.

HIS 3850 History of Historical Writing (3) Prerequisite: 15 hours in history or permission of instructor. Studies the great historians, past and present; surveys major schools of historical interpretation and different methods of historical research. Requires investigations and reports by students. Required for all history majors. Attribute: Upper-Division. Class not open to freshmen.

HIS 4495 Topics in the History of Science (3) Capstone research seminar, stressing analysis of primary sources and advanced integrative historical understanding. Focus may vary from year to year. Sample topics: Galileo and the Church; the world of Isaac Newton; Darwin evolution and society; technology and modernity; the Scopes Trial; or women and science. Attribute: Upper-Division. Class not open to freshmen and sophomores.
HIS 4525 Jacksonian America, 1820–1850  (3) Capstone research seminar, stressing analysis of primary sources and advanced, integrative historical understanding. Studies the interacting impact of revival, reform and romanticism in the context of political realignment and economic growth. Students select typical life roles from the period to research and portray. Attribute: Upper-Division. Class not open to freshmen and sophomores.

HIS 4545 The Transformation of American Life: 1870–1900  (3) Capstone research seminar, stressing analysis of primary sources and advanced, integrative historical understanding. Through intensive examination of World’s Fairs in 1876 and 1893, analyzes the rise of big business and 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. Attribute: Upper-Division. Class not open to freshmen and sophomores.

HIS 4565 World War II  (3) Capstone research seminar, stressing analysis of primary sources and advanced, integrative historical understanding. Studies American experiences at home and abroad during the Second World War, and assesses the impact of the ordeal on contemporary American civilization. Guest presentations supplement instructor lectures and class discussion. Students present an individual oral history project. Attribute: Upper-Division. Class not open to freshmen and sophomores.

HIS 4715 Non-Western History Seminar  (3) Capstone research seminar, stressing analysis of primary sources and advanced, integrative historical understanding. Topics may vary and will focus on Africa, the Middle East or regional comparisons. Sample topics: the Israel-Palestine conflict, Christian-Muslim relations, the Age of Imperialism, the Algerian revolution, and political realignment and economic growth. Students select typical life roles from the period to research and portray. Attribute: Upper-Division. Class not open to freshmen and sophomores.

HIS 4765 Asian History Seminar  (3) Capstone research seminar, stressing analysis of primary sources and advanced, integrative historical understanding. Students will read core texts and then complete an original research project on topics in Asian history. Regional and thematic focus may vary from year to year. Projects will generally be presented in the form of a term paper. Attribute: Upper-Division. Class not open to freshmen and sophomores.

HIS 4899 History Capstone  (1–5) For specific course information, see Catalog description of HIS 4495, 4525, 4545, 4565, 4757, 4715 and 4765. History majors who are taking this course to meet the Capstone graduation requirement should enroll in HIS 4899; all other students should enroll in the equivalent course number. Attribute: Upper-Division. Class not open to freshmen and sophomores.

HIS 4900 Independent Study  (1–5) Registration approval: Independent Study Agreement. Student works independently with a faculty member on a mutually agreed upon topic. May be repeated for credit up to 15 credits. Attribute: Upper-Division.

HIS 4920 Readings in History (General)  (1–5) Registration approval: Independent Study Agreement. Prerequisites: 15 credits of B work in history. Requires reading and reporting in a designated area of history as arranged between the student and instructor. The student should present a proposal before registering. May be repeated for credit up to 20 credits. Attribute: Upper-Division. Class not open to freshmen and sophomores.

HIS 4921 Readings in Ancient History  (1–5) Registration approval: Independent Study Agreement. Prerequisites: 15 credits of B work in history. Requires reading and reporting in a designated time period of ancient 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. Attribute: Upper-Division. Class not open to freshmen and sophomores.

HIS 4922 Readings in European History (Periods)  (1–5) Registration approval: Independent Study Agreement. Prerequisites: 15 credits of B work in history. Requires reading and reporting in a designated time period of European 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. Attribute: Upper-Division. Class not open to freshmen and sophomores.

HIS 4923 Readings in European History (Topics)  (1–5) Registration approval: Independent Study Agreement. Prerequisites: 15 credits of B work in history. Requires reading and reporting in a designated topic in European 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. Attribute: Upper-Division. Class not open to freshmen and sophomores.

HIS 4924 Readings in Comparative History  (1–5) Registration approval: Independent Study Agreement. Prerequisites: 15 credits of B work in history. Requires reading and reporting in a designated topic in history that bridges traditional regional specialties, as arranged between the student and instructor. The student should present a proposal before registering. May be repeated for credit up to 20 credits. Attribute: Upper-Division. Class not open to freshmen and sophomores.

HIS 4925 Readings in United States History (Periods)  (1–5) Registration approval: Independent Study Agreement. Prerequisites: 15 credits of B work in history. Requires reading and reporting in a designated time period of U.S. 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. Attribute: Upper-Division. Class not open to freshmen and sophomores.

HIS 4926 Readings in United States History (Topics)  (1–5) Registration approval: Independent Study Agreement. Prerequisites: 15 credits of B work in history. Requires reading and reporting in a designated topic in U.S. 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. Attribute: Upper-Division. Class not open to freshmen and sophomores.
HIS 4927 Readings in Non-Western History (1–5) Registration approval: Independent Study Agreement. Prerequisites: 15 credits of B work in history. Requires reading and reporting in a designated topic in African, Middle Eastern, Asian or Latin American 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. Attribute: Upper-Division. Class not open to freshmen and sophomores.

HIS 4928 Readings in Historiography (1–5) Registration approval: Independent Study Agreement. Prerequisites: 15 credits of B work in history. Requires reading and reporting in a designated field of applied or “public” 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. Attribute: Upper-Division. Class not open to freshmen and sophomores.

HIS 4929 Readings in Applied History (1–5) Registration approval: Independent Study Agreement. Prerequisites: 15 credits of B work in history. Requires reading and reporting in a designated area of historical writing as arranged between the student and instructor. The student should present a proposal before registering. May be repeated for credit up to 20 credits. Attribute: Upper-Division. Class not open to freshmen and sophomores.

HIS 4930 Mentoring Practicum (1–5) Registration approval: Instructor. Designed to provide an opportunity for academically-skilled juniors and seniors to work under faculty supervision providing peer academic mentoring to freshmen and sophomores taking lower-division history and University Core courses (e.g., UCOR 2000 The West and the World. Attribute: Upper-Division.

HIS 4940 History Internship (1–15) Registration approval: Intern Learning Contract Req. Prerequisites: 15 credits of B work in history. Provides opportunities as available for practical application of history skills. See internship coordinator and history chairperson. May be repeated for credit up to 30 credits. Attribute: Upper-Division. Class not open to freshmen and non-matriculated students.

HIS 4949 Applied History Internship (1–15) Registration approval: Intern Learning Contract Req. Prerequisites: 15 credits of B work in history. Provides opportunities as available for practical application of history skills, including museum training. See internship coordinator and history chairperson. May be repeated for credit up to 30 credits. Attribute: Upper-Division. Class not open to freshmen and non-matriculated students.

HIS 4970 Independent Research (1–15) Registration approval: Instructor. Prerequisites: 10 upper-division credits of B 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. Attribute: Upper-Division. Class not open to freshmen, sophomores and non-matriculated students.

HIS 4971 Ancient History Research (1–15) Registration approval: Instructor. Prerequisites: 10 upper-division credits of B work in history. Requires research and writing on a significant ancient history 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. Attribute: Upper-Division. Class not open to freshmen, sophomores and non-matriculated students.

HIS 4972 European History Research (Periods) (1–15) Registration approval: Instructor. Prerequisites: 10 upper-division credits of B work in history. Requires research and writing on a significant time period in European history as arranged between the student and instructor. The student should present a proposal before registering. May be repeated for credit up to 15 credits. Attribute: Upper-Division. Class not open to freshmen, sophomores and non-matriculated students.

HIS 4973 European History Research (Topics) (1–15) Registration approval: Instructor. Prerequisites: 10 upper-division credits of B work in history. Requires research and writing on a significant European history 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. Attribute: Upper-Division. Class not open to freshmen, sophomores and non-matriculated students.

HIS 4974 Comparative History Research (1–15) Registration approval: Instructor. Prerequisites: 10 upper-division credits of B work in history. Requires research and writing on a significant comparative 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. Attribute: Upper-Division. Class not open to freshmen, sophomores and non-matriculated students.

HIS 4975 United States History Research (Periods) (1–15) Registration approval: Instructor. Prerequisites: 10 upper-division credits of B work in history. Requires research and writing on a significant time period in U.S. history as arranged between the student and instructor. The student should present a proposal before registering. May be repeated for credit up to 15 credits. Attribute: Upper-Division. Class not open to freshmen, sophomores and non-matriculated students.

HIS 4976 United States History Research (Topics) (1–15) Registration approval: Instructor. Prerequisites: 10 upper-division credits of B work in history. Requires research and writing on a significant U.S. history 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. Attribute: Upper-Division. Class not open to freshmen, sophomores and non-matriculated students.

HIS 4977 Non-Western History Research (1–15) Registration approval: Instructor. Prerequisites: 10 upper-division credits of B work in history. Requires research and writing on a significant topic in African, Middle Eastern or Latin American history, as arranged between the student and the instructor. The student should present a proposal before registering. May be repeated for credit up to 15 credits. Attribute: Upper-Division. Class not open to freshmen, sophomores and non-matriculated students.

HIS 4978 Historiography Research (1–15) Registration approval: Instructor. Prerequisites: HIS 3650, 10 upper-division credits of B work in history. Requires research and writing on a significant historiographical issue as arranged between the student and instructor. The student should present a proposal before registering. May be repeated for credit up to 15 credits. Attribute: Upper-Division. Class not open to freshmen, sophomores and non-matriculated students.

HIS 4979 Applied History Research (1–15) Registration approval: Instructor. Prerequisites: 10 upper-division credits of B work in history. Requires research and writing on a significant public-history 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. Attribute: Upper-Division. Class not open to freshmen, sophomores and non-matriculated students.
Elementary language courses are sequential and begin Autumn Quarter. Students are advised that there is an enrollment limit of 35 in all sections of 1000-level classes (2100 for Russian) of the modern spoken languages. Should a desired class be closed, students are urged to choose another language or to consider Summer Quarter offerings or language courses from other local colleges. Depending on staffing, a section of French, German and Spanish 1103 and/or Spanish 1102 is offered Autumn Quarter. Students should consult the Online Time Schedule to verify such offerings.

Foreign language study (with emphasis on the needs of the traveler) is available on Seattle Pacific’s European Quarter. Depending on the location of European Quarter, French, German, Italian, Russian and Spanish 1100 are available for beginning students, 2100 for intermediate students and 3100 for advanced students.

### Classics

Student-designed

**Owen Ewald**, Contact person

The surviving works of literature and art inherited from classical Greece and Rome have been foundational to Western European culture. From the classical world have come the patterns within which intellectual thought has developed, the models from which canons of aesthetic excellence have been formed and the languages in which the original literary works were written, including more than 1,000 years of Christian theology. The student who chooses to major in classics will acquire preparation that can key into any of the liberal arts, as well as provide enrichment for personal satisfaction. Students interested in pre-law, pre-medicine, education and many of the sciences are encouraged to consider the classics offerings as electives, as are business majors aspiring to management.

All students who complete the classics major must be proficient in a foreign language. Proficiency is established upon satisfactory completion of the third quarter of a first year college-level foreign language or its equivalent. For alternative ways of satisfying this requirement, see General Education in the Catalog. Language proficiency is not satisfied by transfer of an associate’s degree from a community college unless the transcript records the completion of foreign language coursework.

### Admission to the Classics Major

Student-Designed

Applicants for a major in classics 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 classics and/or Latin. Since the major is student-designed the student must work closely with the classics advisor.

#### Requirements for the Major — Language Emphasis

**Total 46**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
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<tr>
<td>Classical Latin Courses</td>
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<tr>
<td>CLA 3170 Classical Civilization</td>
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<td>CLA 3204 Survey of Classical Latin Literature</td>
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<td>CLA 3104 Survey of Ancient Greek Literature</td>
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</tr>
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<td>2</td>
</tr>
<tr>
<td>Other approved courses</td>
<td>5</td>
</tr>
</tbody>
</table>

#### Requirements for the Major — Cultural Emphasis

**Total 45**

<table>
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<tr>
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<tbody>
<tr>
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<tr>
<td>Other approved courses</td>
<td>28</td>
</tr>
</tbody>
</table>

*Note: To be taken from the listings below and courses from philosophy, history, English or linguistics.*

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**Humanities**

**HUM 3000 Other People, Other Faiths** (5) This course is a survey of religious experience, the major religious traditions and selections from the texts of the major world religions. The course is taught from a Christian perspective but with appreciation for the moral content and spiritual truths found in other religious traditions. Readings include William James on religious experience, Huston Smith on the world’s religions, selections from sociologists who have studied religion, and readings in the Bible, Koran, Dhammapada, Bhagavad-Gita and other important religious books.

Attributes: Arts and Humanities B; Arts and Humanities C; and Upper-Division. Class not open to freshmen.

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**Language Arts**

See Education

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**Languages**

Marston Hall
(206) 281-2036
www.spu.edu/depts/fll

Bruce D. Congdon, Dean of the College of Arts and Sciences

Kathryn Bartholomew, Chair; Robert Baah, Owen Ewald, Michael MacDonald, Katya Nemtchina, Eric Vogt, Michael Ziemann

The Department of Foreign Languages and Literatures encompasses the academic discipline of foreign language acquisition and its application to the serious study of culture and literature. Currently at SPU there is a focus on four spoken languages — French, German, Russian and Spanish — and two ancient languages, Latin and classical Greek. There are three departmental degree programs: European studies, Latin American studies/ Spanish and a student-designed program in classics. The student-designed major must be constructed in close cooperation with appropriate faculty. (See Student-Designed Major in the Catalog.) All programs emphasize the unique relationship between culture and language. Acquisition of analytical skills, familiarity with important works of literature from several languages and the cultures they express, deeper understanding of communication patterns and improved writing skills are all addressed in departmental courses.

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**Faculty**


**Alberto Ferreiro,** 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.

**Michael Hamilton,** Associate Professor of History; Chair of History; B.A., Seattle Pacific University, 1986; M.A., University of Notre Dame, 1988; Ph.D., University of Notre Dame, 1995. At SPU since 1999.

**Donald C. Holsinger,** Professor of History; B.A., Bethel College, 1970; Ph.D., Northwestern University, 1979. At SPU since 1990.


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**Classics**

Student-designed

**Owen Ewald**, Contact person

The surviving works of literature and art inherited from classical Greece and Rome have been foundational to Western European culture. From the classical world have come the patterns within which intellectual thought has developed, the models from which canons of aesthetic excellence have been formed and the languages in which the original literary works were written, including more than 1,000 years of Christian theology. The student who chooses to major in classics will acquire preparation that can key into any of the liberal arts, as well as provide enrichment for personal satisfaction. Students interested in pre-law, pre-medicine, education and many of the sciences are encouraged to consider the classics offerings as electives, as are business majors aspiring to management.

All students who complete the classics major must be proficient in a foreign language. Proficiency is established upon satisfactory completion of the third quarter of a first year college-level foreign language or its equivalent. For alternative ways of satisfying this requirement, see General Education in the Catalog. Language proficiency is not satisfied by transfer of an associate’s degree from a community college unless the transcript records the completion of foreign language coursework.

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**Admission to the Classics Major**

Student-Designed

Applicants for a major in classics 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 classics and/or Latin. Since the major is student-designed the student must work closely with the classics advisor.

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**Requirements for the Major — Language Emphasis**

46 credits; 25 upper-division

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</tr>
<tr>
<td>Other approved courses</td>
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</tbody>
</table>

**Total 46**

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**Requirements for the Major — Cultural Emphasis**

45 credits; 25 upper-division

<table>
<thead>
<tr>
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</tr>
</thead>
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<tr>
<td>EUR 3100 Foundations of European Art</td>
<td>2</td>
</tr>
<tr>
<td>Other approved courses*</td>
<td>28</td>
</tr>
</tbody>
</table>

**Total 45**

*Note: To be taken from the listings below and courses from philosophy, history, English or linguistics.*
CL 4920 Directed Readings in Classical Literature (1–5)
Registration approval: Independent Study Agreement. Greek is available to qualified students through the classics professor. May be repeated for credit up to 9 credits. Attributes: Arts and Humanities B; Arts and Humanities C; and Upper-Division.

GRK 4930 Greek Tutorial Practicum (1–6) Registration approval: Instructor. For advanced students who wish to assist as discussion leaders and readers in 2000-level Greek classes. May be repeated for credit up to 6 credits. Attribute: Upper-Division.

The C. May Marston Professorship of Classics
C. May Marston served on the faculty of Seattle Pacific for many years, teaching a variety of subjects within the humanities. She mentored young faculty members and staunchly upheld the highest academic standards. To honor her inspiring example of scholarship and service, the C. May Marston Professorship of Classics was established with an anonymous bequest. The holder is charged to promote a study of the culture and languages of Greece and Rome, to teach courses in the field of classics, and to deliver an annual public lecture relating to research in the discipline. The first C. May Marston Professor of classics was Christiana Horst Rosman, now professor emerita.

Latin American Studies
Robert Baah, Contact Person

The Latin American Studies major and minor are designed for students who wish to specialize in Spanish with a Latin American emphasis. Students who complete the major are expected to achieve the stated level of language proficiency in Spanish and to have completed the 20–30 credit base, including the Council for Christian Colleges’ semester-long program in Costa Rica or an approved alternative.

Admission to the Latin American Studies — Spanish Major

Applicants for a major in Latin American Studies — Spanish must have a cumulative GPA of 2.0 or higher in all college work applicable to the B.A. degree and a 2.5 GPA in 10 credits of coursework at SPU in foreign languages and literatures and/or Latin American studies.

Requirements for the Major

60–70 credits; 25 upper-division

Base Courses

15 credits

HIS 3331 History of Spain and Portugal 5
HIS 3750 Latin America 5
UCOR 2000 The West and the World 5

Study-Abroad Base Courses

5–15 credits

SBS 4918* Seminar in Latin American Culture I 4
SBS 4919* Seminar in Latin American Culture II 5
SBS 4937* International Practicum 6

Total 30

*Note: Denotes courses taken during the semester in Costa Rica. Students not enrolled in the CCCU Costa Rica program will substitute appropriate
courses from the approved alternate program. Course descriptions are in the Special Programs section of the Catalog. The approved alternate program must offer a minimum of 10 credits, 5 of which must apply to the major’s study-abroad base courses.

Requirements for the Spanish Concentration Major

This specialization requires 40 credits, of which 25 must be upper-division. This is in addition to the 20–30 base credits. A minimum of 18 upper-division credits must be in courses taught in Spanish, including SPN 3104 Literature Survey; 19th and 20th Centuries (3), SPN 4501 Topics in Latin American Literature (3), and SPN 4899 Latin American Capstone. See course listings under Spanish.

Requirements for the Minor

The minimum requirement for a minor in Spanish studies, Latin American emphasis, is 35 credits, of which a minimum of 15 must be upper-division. Each student who minors in Spanish studies, Latin American emphasis will complete 10 credits from base requirements and 25 credits from the Spanish course offerings. A minimum of 7 upper-division credits must be in courses taught in Spanish, including SPN 3104 Literature Survey; 19th and 20th Centuries (3) and SPN 4501 Topics in Latin American Literature (3).

European Studies

Today European unity and diversity are powerful subjects for serious study and personal enrichment. Both historical and contemporary Europe are at the center of the world of business, travel, the arts and international politics.

Christianity has important roots in Europe, and today many see Europe as a field for the challenge and opportunity of evangelization in the 21st century. Graduates in European studies find openings in business, missions, travel, government and education. The European studies major offers students a B.A. degree with the choice of one of five language programs: French, German, Latin, Russian, Spanish, of a general studies program titled Europe or a program in linguistics. All programs focus on the language, culture and literature of Europeans. All European studies majors must complete satisfactorily the following major requirements:
1. 19–21 credits in European studies courses (see base courses for all majors).
2. 40 credits in one of the seven programs listed above (43 credits in the linguistics program); 25 of these credits must be upper-division; for the language programs a minimum of 18 upper-division credits must be in courses taught in the language.
3. One quarter of study in Europe with the SPU European Quarter, or an approved alternative.
4. A senior paper that integrates learning on Europe (see E.S. Symposium).
5. Proficiency in a second European language (other than English) equivalent to 15 credits of college-level elementary language study; in this way a broader interest in the diversity of the European community is assured; these credits may be met by a competency exam or by approved coursework.

European Quarter is a SPU sponsored study-abroad program held Autumn or Spring Quarter, alternate years. Sites vary, depending on faculty leadership, but participants meet the expectations of a quarter’s study in Europe both academically, earning a minimum of 12 credits, and culturally, through in-depth contact with the language/culture connection. The European Studies Symposium is a gathering of faculty, students and professional staff at the University for the presentation of academic and creative work on “the European experience.” All European studies majors must make a presentation in the symposium before graduation.

Admission to the European Studies Major

Applicants for a major in European studies, all programs, must have a cumulative GPA of 2.0 or higher in all college work applicable to the B.A. degree and a 2.5 GPA in 10 credits of coursework at SPU in foreign languages and literatures and/or European studies.

<table>
<thead>
<tr>
<th>Base Courses for All Majors</th>
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<tbody>
<tr>
<td>19–21 credits</td>
</tr>
<tr>
<td>EUR 1110 Heritage of Europe</td>
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<tr>
<td>5</td>
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<tr>
<td>EUR 3000 European Quarter Orientation</td>
</tr>
<tr>
<td>1</td>
</tr>
<tr>
<td>EUR 3100 Foundations of European Art</td>
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<tr>
<td>2</td>
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<tr>
<td>EUR 3500 European Civilization or 5 credits from the SPU sponsored programs in Salamanca, Normandy or Germany</td>
</tr>
<tr>
<td>5</td>
</tr>
<tr>
<td>EUR 4899 Contemporary European Issues and Personalities</td>
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<tr>
<td>3</td>
</tr>
<tr>
<td>An approved course in European literature</td>
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<tr>
<td>3–5</td>
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<tr>
<td><strong>Total</strong></td>
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<td>21</td>
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</table>

Students should note that EUR 3000 European Quarter Orientation is a prerequisite for EUR 3500 and that EUR 3100 Foundations of European Art is highly recommended for EUR 3500, as are appropriate language courses.

European Studies Courses

EUR 1110 Heritage of Europe (5) Introduction to the culture of Europe through literature; themes of family, community, heroism, beliefs and values, and women’s roles will be examined chronologically from the classical to the modern periods. Attributes: Arts and Humanities B; and Literature Core.

EUR 3000 European Quarter Orientation (1) Prepares students intellectually, emotionally, spiritually and practically for an extended study program in other cultures. Gives students a general background in the basic concepts of intercultural communication, including how to make cultural comparisons, how to recognize and cope with culture shock, and how to communicate with people of another culture. Attribute: Upper-Division.

EUR 3100 Foundations of European Art (2) Provides a brief survey of major periods in European art and architecture beginning with significant works from the Greco-Roman period and progressing through the 20th century. It is specifically oriented toward students intending to travel in Europe. Attributes: Arts and Humanities A; Fine Arts Option; and Upper-Division.

EUR 3287 Mythology in Literature (5) Studies mythological traditions from the Near Eastern world through the classical Mediterranean to Europe, as well as material from Asia and tribal societies. Emphasis on mythic themes especially significant for European literature. Attributes: Arts and Humanities B; Literature Option; Upper-Division; and Writing Course.

EUR 3500 European Civilization (5) Registration approval: Travel Studies Form. Offered in Europe. Provides a cultural investigation of Europe and an on-site practicum. This course examines contemporary Europe as part of the European Quarter Abroad, with special attention to a Christian perspective on the historical growth of European cultures. The language skills acquired by students are demonstrated in intensive programs of living and travel. Attribute: Upper-Division.

EUR 3950 European Special Topics (1–5) Focuses on different topics relating to the languages and cultures of Europe. Every other year, the course topic will focus on women from German speaking countries, who were unique, influential and, to a degree, accepted for their gifts by their male dominated society and period of history. Taught in English. See women’s studies minor. All other topics to be announced in the Online Time Schedule. May be repeated for credit up to 10 credits. Attribute: Upper-Division.
EUR 4254 Translation (3) Prerequisite: Working fluency in at least one language besides English. Theory and practice of translating, with attention to accuracy and nuances of style. May be repeated for credit one time. Attribute: Upper-Division.

EUR 4899 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. This course is designed to meet the requirements as a senior capstone course in European Studies. Attribute: Upper-Division. Class not open to freshmen and sophomores.

EUR 4900 Independent Study (1–5) Registration approval: Independent Study Agreement. Student works independently with a faculty member on a mutually agreed upon topic. May be repeated for credit up to 15 credits. Attribute: Upper-Division.

EUR 4920 Directed Readings and Research (1–5) Registration approval: Independent Study Agreement. May be repeated for credit up to 10 credits. Attribute: Upper-Division.

EUR 4921 Directed Readings and Research (1–5) Registration approval: Travel Studies Form. Taught in Europe only. Attribute: Upper-Division.

EUR 4930 Tutorial Practicum (1–5) Registration approval: Instructor. For advanced students who wish to assist as discussion leaders and graders in courses under the heading of European studies. May be repeated for credit up to 5 credits. Attribute: Upper-Division.

EUR 4950 Special Topics (1–5) Focuses on different topics relating to the languages and cultures of Europe. Topics to be announced in the Online Time Schedule. May be repeated for credit up to 10 credits. Attribute: Upper-Division.

EUR 4951 Special Topics (1–5) Registration approval: Travel Studies Form. Focuses on different topics relating to the languages and cultures of Europe. Taught in Europe only. May be repeated for credit up to 5 credits. Attribute: Upper-Division.

Italian Courses

ITL 1100 Elementary Italian (1–2) Registration approval: Travel Studies Form. A course designed for students who have never studied Italian. This course will focus on vocabulary and structures needed for basic communication. European Quarter only.

ITL 2100 Intermediate Italian (2) Registration approval: Travel Studies Form. Designed for students having studied some Italian, this course continues the study of vocabulary and structures needed for basic communication. European Quarter only.

ITL 4900 Independent Study (1–5) Registration approval: Independent Study Agreement. Student works independently with a faculty member on a mutually agreed upon topic. May be repeated for credit up to 15 credits. Attribute: Upper-Division.

Europe Program Requirements

Michael Macdonald, Contact Person

Requirements for the Major

A European studies major/European program requires 40 credits, of which must be upper-division, in addition to the 19–21 base course credits and the other major requirements above. The 40 credits must include the following:

- 31–33 credits; 15 upper-division
- EUR 3500 European Civilization
- EUR 4998 Special Topics
- Modern European language courses
- Other European Studies courses

Total 31–33

French Program Requirements

Kathryn Bartholomew, 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 19–21 base course credits and the other major requirements listed above. A minimum of 18 upper-division credits must be in courses taught in French.

Requirements for the French Studies Minor

The minimum requirement for a minor in French studies is 33 credits, of which a minimum of 15 must be upper-division. Each student who minors in French studies will complete two courses from a European studies prefix and a minimum of 25 credits from the French course offerings. A minimum of 7 upper-division credits must be in courses taught in French.

French Courses

FRE 1100 Elementary French (1–5) Registration approval Travel Studies Form. Elementary French in France Study Abroad Program or in European Quarter. May be repeated for credit up to 5 credits.


FRE 1102 Elementary French II (5) Prerequisite: FRE 1101 or permission of instructor. Builds confidence in the four basic skills: understanding, speaking, reading and writing in the French language. Investigates French culture and its relationship to the language. Attribute: Foreign Language Comp (DP II).

FRE 1103 Elementary French III (5) Prerequisite: FRE 1102 or permission of instructor. Builds confidence in the four basic skills: understanding, speaking, reading and writing in the French language. Investigates French culture and its relationship to the language. Attributes: Foreign Language Comp (DP I); and Foreign Language Comp (DP II).

FRE 2100 Intermediate French (1–5) Registration approval: European Quarter. May be repeated for credit up to 5 credits. Attribute: Foreign Language Comp (DP II).

FRE 2101 Niveau Intermediaire (5) Prerequisite: FRE 1103 or permission of instructor. Reviews French language structure; emphasizes progress towards communicative competence and...
growth in understanding and appreciating the cultures of the Francophone world; introduces French literature. Attributes: Arts and Humanities B; and Foreign Language Comp (DP II).

FRE 2102 Niveau Intermediaire (5) Prerequisite: FRE 1103 or permission of instructor. Continues review of French language structure, emphasizes progress towards communicative competence and growth in understanding and appreciating the cultures of the Francophone world; introduces French literature. Attributes: Arts and Humanities B, Foreign Language Comp (DP II); and Literature Option.

FRE 2103 Niveau Intermediaire (5) Prerequisite: FRE 1103 or permission of instructor. Continues review of French language structure, emphasizes progress towards communicative competence and growth in understanding and appreciating the cultures of the Francophone world; introduces French literature. Attributes: Arts and Humanities B, Foreign Language Comp (DP II); and Literature Option.

FRE 3100 Advanced French (1–5) Registration approval: Travel Studies Form. Advanced French in France Study Abroad Program or in European Quarter. May be repeated for credit up to 5 credits. Attributes: Foreign Language Comp (DP II); and Upper-Division.

FRE 3105 Composition et Conversation (3) Focuses on writing as a process through compositions of various types: e.g., description, narration, summary and review of books, movies and plays. Uses French as the language for research, lecture and discussion. Offered alternate years. May be repeated for credit one time. Attributes: Arts and Humanities B; Arts and Humanities C; Foreign Language Comp (DP II); and Upper-Division.

FRE 3205 Topics in French Literature (5) Considers themes in French literature illustrated in works chosen from different genres and periods. Taught in English but students specializing in the French program or working on a French minor will do some reading and writing assignments in French and attend one session per week conducted in French. Offered alternate years. May be repeated for credit one time. Attributes: Arts and Humanities B; Arts and Humanities C; Foreign Language Comp (DP II); and Upper-Division.

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 one time. Attributes: Foreign Language Comp (DP II); Literature Option; and Upper-Division.

FRE 3260 Les Arts Francais (3) Explores painting, sculpture, architecture, music and theatre in France with the intent of bringing out the interaction of these arts with each other, history and language. Uses French as the language for research, lecture and discussion. Offered alternate years. May be repeated for credit one time. Attributes: Foreign Language Comp (DP II); and Upper-Division.

FRE 4460 La Litterature Francaise-du Moyen Age au 18e Siecle (3) Presents landmark works in French literature from the Middle Ages to the French Revolution. Includes consideration of genres, themes and social/historical backgrounds of the selections studied. Uses French as the language for research, lecture and discussion. Offered alternate years. May be repeated for credit one time. Attributes: Foreign Language Comp (DP II); Upper-Division; and Writing Course.

FRE 4461 La Litterature Francaise-du 19e et du 20e Siecles (3) Examines important works by French authors of the 19th and 20th centuries in the context of literary and philosophical movements. Pays close attention to the effect of historical events and cultural changes on the evolution of values. Uses French as the language of research, lecture and discussion. Offered alternate years. May be repeated for credit one time. Attributes: Foreign Language Comp (DP II); and Upper-Division.

FRE 4900 Independent Study (1–5) Registration approval: Independent Study Agreement. Student works independently with a faculty member on a mutually agreed upon topic. May be repeated for credit up to 15 credits. Attribute: Upper-Division.

FRE 4920 Independent Readings in French (1–5) Registration approval: Independent Study Agreement. May be repeated for credit up to 10 credits. Attributes: Foreign Language Comp (DP II); and Upper-Division.

FRE 4930 French Tutorial Practicum (1–6) Registration approval: Instructor. For advanced students who wish to assist as discussion leaders and readers in 1000-level French classes. May be repeated for credit up to 6 credits. Attributes: Foreign Language Comp (DP II); and Upper-Division.

FRE 4940 Coop Education: French Internship (1–10) Registration approval: Instructor. Applies the skills needed to communicate in French in varied employment settings. Students may suggest their own internships in consultation with the faculty supervisor as long as use of the target language is part of the employment situation and other internship criteria are met. May be repeated for credit up to 10 credits. Attribute: Upper-Division.

German Program Requirements

Michael Ziemann, Contact Person

Requirements for the Major
A European studies major/German program requires 40 credits, of which 25 must be upper-division, in addition to the 19–21 base course credits and the other major requirements listed above. A minimum of 18 upper-division credits must be in courses taught in German.

Requirements for the German Studies Minor
The minimum requirement for a minor in German studies is 33 credits, of which a minimum of 15 must be upper-division. Each student who minors in German studies will complete two courses in courses with a European studies prefix and a minimum of 25 credits from the German course offerings. A minimum of 7 upper-division credits must be in courses taught in German. HIS 1202 Modern Europe (5) can be included in the total credits.

German Courses

GER 1100 Elementary German (1–5) Registration approval Travel Studies Form. European Quarter or Germany Study Abroad Program. Designed for students who have never studied German, this course will focus on vocabulary and structures needed for basic communication.

GER 1101 Elementary German I (5) Builds confidence in the four basic skills: understanding, speaking, reading and writing in the German language. Investigates German culture and its relationship to the language. Attribute: Foreign Language Comp (DP I).
GER 1102 Elementary German II (5) Prerequisite: GER 1101 or permission of instructor. Builds confidence in the four basic skills: understanding, speaking, reading and writing in the German language. Investigates German culture and its relationship to the language. Attribute: Foreign Language Comp (DP I).

GER 1103 Elementary German III (5) Prerequisite: GER 1102 or permission of instructor. Builds confidence in the four basic skills: understanding, speaking, reading and writing in the German language. Investigates German culture and its relationship to the language. Attributes: Foreign Language Comp (DP II); and Literature Option.

GER 2100 Intermediate German (1–5) Registration approval: Travel Studies Form. European Quarter or Germany Study Abroad Program only. Designed for students having studied some German, this course continues the study of vocabulary and structures needed for basic communication. Attribute: Foreign Language Comp (DP II); and Literature Option.

GER 2101 Intermediate German I: German for Everyday Use (5) Prerequisite: GER 1103 or permission of instructor. Investigates the practical aspects of German for everyday use. Includes review of German language structure supporting the readings. Attributes: Arts and Humanities B; Foreign Language Comp (DP II); and Literature Option.

GER 2102 Intermediate German II: German for Professional Use (5) Prerequisite: GER 1103 or permission of instructor. Investigates the practical applications of German for professional use. Includes review of German language structure supporting the readings. Not taught every year. Attributes: Arts and Humanities B; Foreign Language Comp (DP II); and Literature Option.

GER 2103 Intermediate German III: Business German (5) Prerequisite: GER 1103 or permission of instructor. Focuses on the linguistic and cultural knowledge necessary for conducting business in German speaking environments. Includes review of German language structure supporting the readings. Not taught every year. Attributes: Arts and Humanities B; Foreign Language Comp (DP II); and Literature Option.

GER 3100 Advanced German (1–2) Registration approval: Travel Studies Form. European Quarter or German Study Abroad Program only. May be repeated for credit up to 2 credits. Attributes: Foreign Language Comp (DP II); and Upper-Division.

GER 3206 Topics in German Language and Literature (3–5) Considers themes in German language and literature illustrated in works chosen from different genres and periods. May be repeated for credit one time. Attributes: Arts and Humanities B; Foreign Language Comp (DP II); Literature Option; and Upper-Division.

GER 3260 German Culture (3,5) 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. 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. Sessions for speaking in German will also be scheduled. Not taught every year. May be repeated for credit one time. Attributes: Foreign Language Comp (DP II); and Upper-Division.

GER 4470 Special Studies in German (5) Focuses on different topics relating to the language and culture of Germany. 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. Sessions for speaking in German will also be scheduled. Not taught every year. May be repeated for credit one time. Attributes: Foreign Language Comp (DP II); and Upper-Division.

GER 4900 Independent Study (1–5) Registration approval: Independent Study Agreement. Student works independently with a faculty member on a mutually agreed upon topic. May be repeated for credit up to 15 credits. Attribute: Upper-Division.

GER 4920 Independent Readings (1–5) Registration approval: Independent Study Agreement. May be repeated for credit up to 10 credits. Attributes: Foreign Language Comp (DP II); and Upper-Division.

GER 4930 German Tutorial Practicum (1–6) Registration approval: Instructor. For advanced students who wish to assist as discussion leaders and readers in 1000-level German classes. May be repeated for credit up to 6 credits. Attributes: Foreign Language Comp (DP II); and Upper-Division.

GER 4940 Coop Education: German Internship (1–10) Registration approval: Instructor. Applies the skills needed to communicate in German in varied employment settings. Students may suggest their own internships in consultation with the faculty supervisor as long as use of the target language is part of the employment situation and other internship criteria are met. May be repeated for credit up to 10 credits. Attribute: Upper-Division.

Latin Program Requirements
Owen Ewald, Contact Person

Requirements for the Major
A European studies major/Latin program requires 40 credits, of which 25 must be upper-division, in addition to the 19–21 base course credits and the other major requirements listed above. A minimum of 9 credits must be in upper-division Latin readings.CLA 3104, 3170 and 3204 are required and can be included in the total number of credits.

Requirements for the Latin Studies Minor
The minimum requirement for a minor in Latin* studies is 33 credits, of which a minimum of 15 must be upper-division (e.g., CLA 3204, EUR 3500, 4250; LAT 4920). Each student who minors in Latin studies will complete two courses from base requirements for the European studies major and a minimum of 20 credits from the Latin course offerings.

*Latin is taught alternate years.

Latin Courses
LAT 1101 Elementary Latin I (5) Studies the essentials of classical Latin grammar to build comprehension in reading and writing elementary Latin. The LAT 1101, 1102 and 1103 sequence is offered alternate years. Attribute: Foreign Language Comp (DP I).

LAT 1102 Elementary Latin II (5) Prerequisite: LAT 1101 or permission of instructor. Continues the study of classical Latin grammar and syntax. Attribute: Foreign Language Comp (DP II).

LAT 1103 Elementary Latin III (5) Prerequisite: LAT 1102 or permission of instructor. Continues the study of classical Latin through reading to provide a basis for future work in the language; emphasizes translation. Attributes: Foreign Language Comp (DP II); and Foreign Language Comp (DP III).

LAT 2204 Latin Grammar Review (3) Prerequisite: LAT 1103 or permission of instructor. Provides intensive review of composition and syntax necessary for all advanced work in Latin. Offered alternate years. Attribute: Foreign Language Comp (DP II).
LAT 4920 Independent Readings in Classical Latin (1–5) Registration approval: Independent Study Agreement. Prerequisite: LAT 2204. May be repeated for credit up to 15 credits. Attributes: Arts and Humanities B; Arts and Humanities C; Foreign Language Comp (DP II); and Upper-Division.

LAT 4930 Latin Tutorial Practicum (1–6) Registration approval: Instructor. For advanced students who wish to assist as discussion leaders and readers in 1000-level Latin classes. May be repeated for credit up to 6 credits. Attribute: Upper-Division.

LAT 4970 Directed Readings and Research (1–5) Registration approval: Independent Study Agreement. Prerequisite: LAT 4920. May be repeated for credit up to 10 credits. Attributes: Foreign Language Comp (DP II); and Upper-Division.

**Linguistics Program Requirements**

Kathryn Bartholomew, Contact Person

<table>
<thead>
<tr>
<th>Requirements for the Major</th>
<th>64–66 credits; 25 upper-division; and the other major requirements listed above.</th>
</tr>
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<tbody>
<tr>
<td><strong>Base courses</strong></td>
<td>19–21</td>
</tr>
<tr>
<td>European languages*</td>
<td>15</td>
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<tr>
<td>CLA 3170 Classical Civilization</td>
<td>5</td>
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<tr>
<td>LIN 2100 Foundations of Language Study</td>
<td>5</td>
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<tr>
<td>LIN 4145 Phonology</td>
<td>5</td>
</tr>
<tr>
<td>LIN 4150 Morphology</td>
<td>5</td>
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<tr>
<td>LIN 4410 Syntax</td>
<td>5</td>
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<tr>
<td>Electives</td>
<td>3</td>
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<tr>
<td>LIN 4460 Comparative Syntax (3), EUR 4254 Translation (3), LIN 4300 Historical Linguistics (3), or LIN 4601 History of English Language (3)</td>
<td>3</td>
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<tr>
<td><strong>Total</strong></td>
<td>62–64</td>
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*Minimum competency through the third quarter of the intermediate level.

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<thead>
<tr>
<th>Requirements for the Minor</th>
<th>31 credits; 15 upper-division</th>
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<tbody>
<tr>
<td>LIN 2100 Foundations of Language Study</td>
<td>5</td>
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<tr>
<td>LIN 4145 Phonology</td>
<td>5</td>
</tr>
<tr>
<td>LIN 4150 Morphology</td>
<td>5</td>
</tr>
<tr>
<td>LIN 4460 Comparative Syntax or EUR 4254 Translation</td>
<td>3</td>
</tr>
<tr>
<td>LIN 4410 Syntax</td>
<td>5</td>
</tr>
<tr>
<td>LIN 4300 Historical Linguistics or LIN 4601 History of English</td>
<td>3</td>
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<tr>
<td>LIN 4365 Methodology of Foreign Language Teaching</td>
<td>5</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>31</td>
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</tbody>
</table>

**Linguistics Courses**

LIN 2100 Foundations of Language Study (5) Develops conceptual tools for understanding the nature and the processes of language: phonology, morphology, syntax, semantics and pragmatics. Personal and professional attitudes toward the world of language are re-examined. This course is also offered via distance learning. Attributes: Arts and Humanities B; and Media.


LIN 4300 Historical Linguistics (3) Studies the nature of language change, illustrated by the history of the Indo-European language family, especially English. A diachronic study of phonology, morphology and syntax is made, with emphasis on reconstructed Indo-European, classical texts and modern European diversity. Offered alternate years. Attribute: Upper-Division.

LIN 4365 Methodology of Foreign Language Teaching (5) An overview of the theoretical paradigms of second language learning and teaching; definition and evaluation of communicative competence; strategies for teaching skills of listening, speaking, reading and writing; selection and development of instructional materials. Attribute: Upper-Division.

LIN 4400 Comparative Syntax (3) Prerequisite: LIN 2100 or permission of instructor. Provides an intensive investigation into non-English sentence structures. Basic rule making and rule testing are examined in a variety of languages. Not offered every year. Attribute: Upper-Division.

LIN 4410 Syntax (5) Provides an intensive investigation into contemporary English sentence structures through the application of current syntactic theory. Basic rule making and rule testing are examined in English. Attribute: Upper-Division.

LIN 4601 History of the English Language (3) Examines Anglo-Saxon, middle and modern forms of English in historical development and individual language systems. Includes phonology, morphology, syntax and some discussion of the relationships of each language stage to literary expression during its era. Offered alternate years. Course equivalent: ENG 4601. Attribute: Upper-Division.

LAT 4900 Independent Study (1–5) Registration approval: Instructor. May be repeated for credit up to 10 credits. Attribute: Upper-Division. Class not open to freshmen.

LAT 4920 Directed Readings (1–10) Registration approval: Independent Study Agreement. May be repeated for credit up to 10 credits. Attribute: Upper-Division. Class not open to freshmen.

LAT 4930 Tutorial Practicum (1–5) Registration approval: Instructor. May be repeated for credit up to 5 credits. Attribute: Upper-Division. Class not open to freshmen.

LAT 4950 Special Topics in Linguistics (1–5) Not offered every year. May be repeated for credit up to 5 credits. Attribute: Upper-Division. Class not open to freshmen and sophomores.

LAT 4952 Special Topics in Linguistics (1–5) Not offered every year. May be repeated for credit up to 5 credits. Attribute: Upper-Division. Class not open to freshmen and sophomores.

**Russian Program Requirements**

Katya Nemtchinova, Contact Person

**Requirements for the Major**

A European studies major/Russian program requires 40 credits, of which 25 must be upper-division, in addition to the 21 base course credits and the other major requirements listed above. In addition, majors must take HIS 3345 Modern Russia (5). Since a limited number of courses in Russian is offered each year, majors will need to work closely with the contact person in order to fulfill the required number of credits.

**Requirements for the Russian Studies Minor**

The minimum requirement for a minor in Russian studies is 33 credits, of which a minimum of 15 must be upper-division. Each student must complete two courses from courses with a European studies prefix and at least 25 credits from the Russian course offerings.
Languages

Russian Courses

RUS 1100 Elementary Russian (1–2) Registration approval: Travel Studies Form. European Quarter only.

RUS 2000 Russian Language Study: Elementary (6,9) Registration approval: Travel Studies Form. Prerequisite: Acceptance into the Russian Studies Program. Taught through semester-long program of the Council for Christian Colleges and Universities in Russia. Class not open to freshmen and non-matriculated students.

RUS 2100 Beginning Russian I (5) Builds confidence in four basic skills: understanding, speaking, reading and writing in the Russian language. Investigates Russian culture and its relationship to the language, as well as the Slavic culture in general. This course is on a first-year level. Offered alternate years. Attribute: Foreign Language Comp (DP I).

RUS 2105 Beginning Russian II (5) Prerequisite: RUS 2100 or permission of instructor. Provides continued practice in reading, writing, understanding and speaking Russian. This course continues the first-year level. Offered alternate years. Attribute: Foreign Language Comp (DP I).

RUS 2106 Beginning Russian III (5) Prerequisite: RUS 2105 or permission of instructor. A review of Russian pronunciation and grammar, with an emphasis on vocabulary building through reading Russian texts. This course completes the first-year level. Offered alternate years. Attributes: Foreign Language Comp (DP II); and Foreign Language Comp (DP II).

RUS 2207 Modern Russian Culture through Literature (5) Focuses on Russian culture as seen through the works of such Russian writers as Mikhail Bulgakov, Yuri Trifonov, Ljudmila Petrushevskaya and Tatiana Tolstaja. Taught in English with readings in Russian for students specializing in the Russian program or working on a Russian minor. Offered alternate years. Attribute: Arts and Humanities B.

RUS 3100 Intermediate Russian (5) Prerequisite: RUS 2106 or permission of instructor. A review of the Russian case system, and word growth through literary texts and original short stories and multimedia materials. Offered alternate years. Attributes: Arts and Humanities B; Foreign Language Comp (DP II); and Upper-Division.

RUS 3101 Advanced Russian (1–2) Registration approval: Travel Studies Form. European Quarter only. Attribute: Upper-Division.

RUS 3920 Independent Readings: Intermediate Russian (1–5) Registration approval: Independent Study Agreement. May be repeated for credit up to 10 credits. Attributes: Foreign Language Comp (DP II); and Upper-Division.

RUS 4900 Independent Study (1–5) Registration approval: Independent Study Agreement. Student works independently with a faculty member on a mutually agreed upon topic. May be repeated for credit up to 15 credits. Attribute: Upper-Division.

RUS 4920 Independent Readings: Advanced Russian (1–5) Registration approval: Independent Study Agreement. May be repeated for credit up to 10 credits. Attributes: Foreign Language Comp (DP II); and Upper-Division.

RUS 4930 Russian Tutorial Practicum (1–6) Registration approval: Instructor. For advanced students who wish to assist in 2000-level Russian classes. Students assist in classroom instruction and conduct specific cultural research. May be repeated for credit up to 6 credits. Attributes: Foreign Language Comp (DP II); and Upper-Division.

RUS 4940 Coop Education: Russian Internship (1–10) Registration approval: Instructor. Applies the skills needed to communicate in Russian in varied employment settings. Students may suggest their own internships in consultation with the faculty supervisor as long as use of the target language is part of the employment situation and other internship criteria are met. May be repeated for credit up to 10 credits. Attribute: Upper-Division.

Spanish Program Requirements

Robert Baah, Contact Person

Requirements for the Major

A European studies major/Spanish program requires 40 credits, of which 25 must be upper-division, in addition to the 19–21 base course credits and the other major requirements listed above. A minimum of 18 upper-division credits must be in courses taught in Spanish. Courses in the history of the Hispanic world, HIS 3750 Latin America (5) and HIS 3331 History of Spain and Portugal (5), are required and can be included in the total credits.

Requirements for the Spanish Studies Minor

The minimum requirement for a minor in Spanish studies is 33 credits, of which a minimum of 15 must be upper-division. Each student who minors in Spanish studies will complete two courses from courses with a European studies prefix or HIS 3331 and HIS 3750 and a minimum of 25 credits from the Spanish course offerings. A minimum of 7 upper-division credits must be in courses taught in Spanish.

Spanish Courses

SPN 1100 Elementary Spanish (1–5) Registration approval: Travel Studies Form. European Quarter or Salamanca In-Residence Program only.


SPN 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. Attribute: Foreign Language Comp (DP I); and Foreign Language Comp (DP II).

SPN 1105 Introduction to Spanish Language and Culture (5) Designed to introduce the basics of the Spanish language and various aspects of Latin American cultures to adult students enrolled in specific programs. This course meets the foreign language requirement for students enrolled in Organizational Behavior and Professional Studies programs. Attribute: Foreign Language Comp (DP I); and Class open to organizational behavior and professional studies majors.

SPN 2100 Intermediate Spanish (1–5) Registration approval: Travel Studies Form. European Quarter or Salamanca In-Residence Program only. Attribute: Foreign Language Comp (DP II).
SPN 2101 Intermediate Spanish I (5) Prerequisite: SPN 1103 or equivalent. A review of Spanish language structure, with emphasis on progress towards communicative competence and growth in understanding and appreciation of the culture of the Hispanic world; introduction to literature. Attributes: Arts and Humanities B; Foreign Language Comp (DP II); and Literature Option.

SPN 2102 Intermediate Spanish II (5) Prerequisite: SPN 1103 or equivalent. A review of Spanish language structure, with emphasis on progress towards communicative competence and growth in understanding and appreciation of the culture of the Hispanic world; introduction to literature. Attributes: Arts and Humanities B; Foreign Language Comp (DP II); and Literature Option.

SPN 2103 Intermediate Spanish III (5) Prerequisite: SPN 1103 or equivalent. A review of Spanish language structure, with emphasis on progress towards communicative competence and growth in understanding and appreciation of the culture of the Hispanic world; introduction to literature. Attributes: Arts and Humanities B; Foreign Language Comp (DP II); and Literature Option.

SPN 3100 Advanced Spanish (1–5) Registration approval: Travel Studies Form. European Quarter or Salamanca In-Residence Program only. Attributes: Foreign Language Comp (DP II); and Upper-Division.

SPN 3101 Advanced Spanish (2) Prerequisite: SPN 2103 or equivalent. A systematic review of Spanish grammar, with attention to stylistic considerations. May be repeated for credit two times. Attributes: Foreign Language Comp (DP II); and Upper-Division.

SPN 3104 Literature Survey: 19th and 20th Century (3) Prerequisite: SPN 3101 or equivalent. Examines works of major 19th and 20th century writers from Spain and Latin America in the context of contemporary ideologies and values. Taught in Spanish and occasionally offered in English. Offered alternate years. Attributes: Foreign Language Comp (DP II); Upper-Division; and Writing Course.

SPN 3105 Literature Survey: Golden Age (3) Prerequisite: SPN 3101 or equivalent. Mystics, picaresque novels, poetry and drama, studied in the context of the period. Taught in Spanish and occasionally in English. Offered alternate years. Attributes: Foreign Language Comp (DP II); Upper-Division; and Writing Course.

SPN 3106 Literature Survey: Middle Ages (3) Prerequisite: SPN 3101 or equivalent. Examines the earliest writings in Spanish, including epic poetry, prose and lyric poetry in light of the medieval Spanish worldview. Taught in Spanish and occasionally in English. Offered alternate years. Attributes: Foreign Language Comp (DP II); and Upper-Division.

SPN 4401 Topics in Spanish Literature (3.5) Prerequisite: SPN 3101 or equivalent. Emphasis varies from quarter to quarter. Taught in Spanish and occasionally in English. Offered alternate years. May be repeated for credit one time. Attributes: Arts and Humanities B; Foreign Language Comp (DP II); Literature Option; and Upper-Division.

SPN 4501 Topics in Latin American Literature (3.5) Prerequisite: SPN 3101 or equivalent. Emphasis varies from quarter to quarter. Taught in Spanish and occasionally in English. Offered alternate years. May be repeated for credit one time. Attributes: Arts and Humanities B; Arts and Humanities C; Foreign Language Comp (DP II); and Upper-Division.

SPN 4899 Latin American Capstone Seminar (3) This capstone course focuses on issues of language and culture related to the Latin American Studies-Spanish major. Required of all Latin American Studies-Spanish majors and recommended for minors. Attribute: Upper-Division. Class not open to freshmen and sophomores.

SPN 4900 Independent Study (1–10) Registration approval: Independent Study Agreement. Student works independently with a faculty member on a mutually agreed upon topic. May be repeated for credit up to 15 credits. Attribute: Upper-Division.

SPN 4920 Independent Readings Spanish (1–5) Registration approval: Independent Study Agreement. May be repeated for credit up to 10 credits. Attributes: Foreign Language Comp (DP II); and Upper-Division.

SPN 4930 Spanish Tutorial Practicum (1–5) Registration approval: Instructor. For advanced students who wish to assist in 1000-level Spanish classes. May be repeated for credit up to 6 credits. Attributes: Foreign Language Comp (DP II); and Upper-Division.

SPN 4940 Coop Education: Spanish Internship (1–10) Registration approval: Intern Learning Contract Req. Provides opportunity for practical application of Spanish language skills. May be repeated for credit up to 10 credits. Attribute: Upper-Division.

Faculty

Robert Baah, Professor of Spanish; B.A., University of Ghana, 1982; M.A., University of Alberta, 1989; Ph.D., University of Southern California, 1994. At SPU since 1995.

Kathryn Bartholomew, Associate Professor of Foreign Languages and Linguistics; Director of Graduate TESOL; Chair of Foreign Languages and Literatures; B.A., University of Washington, 1969; M.A., 1970; Ph.D., 1979. At SPU since 1989.

Owen Ewald, Assistant Professor of Classics; B.A. Yale University, 1992; M.A., University of Washington, 1995; Ph.D., 1999. At SPU since 2001.


Katya Nemtchinova, Assistant Professor of TESOL and Russian; Ph.D., State University of New York-Stony Brook, 1997. At SPU since 1997.


Michael Ziemann, Associate Professor of European Studies/ German and Linguistics; B.A., Freie Universita¨t, West Berlin, 1988; M.A., Kansas State University, 1969; Ph.D., Washington University (St. Louis), 1974. At SPU since 1982.

Latin American Studies

See Languages

Math Education

See Education
Mathematics
Otto M. Miller Hall
(206) 281-2140
www.spu.edu/depts/math

Bruce D. Congdon, Dean of the College of Arts and Sciences

Robbin O’Leary, Chair, Brian Gill, Steve Johnson, Russ Killingsworth, Wai Lau, Robbin O’Leary, Sharon Young

Mathematics offers curricula leading to the bachelor of arts and bachelor of science degrees. The B.A. degree program is designed for students interested in mathematics as a liberal arts major and for those planning to teach mathematics in secondary schools. The B.S. in mathematics degree program is designed for students planning graduate work or professional careers in mathematics. The B.S. in computational mathematics is an interdisciplinary major designed for students interested in careers involving the application of mathematics and computer science. A mathematics education major is also offered for elementary certification. See the School of of mathematics and computer science. A mathematics education minor 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 0152 and 0153 to make up the deficiency before starting one of the math degree programs.

Advanced Placement Program. Superior students who have completed one year of calculus in high school may apply for advanced placement and credit for 1225 and 1226. The extent to which a student will be advanced and the amount of credit given will be decided on an individual basis by the mathematics faculty.

Mathematical competency requirement. All undergraduates are required to demonstrate mathematical competency. This can be accomplished in any one of the following ways:

1. Have a quantitative SAT score of at least 580 or ACT score of at least 25.
2. Transfer in with a C or better in MAT 1225, or in its college-level equivalent.
3. Achieve a passing score on SPU’s mathematics proficiency exam.
4. Complete the required work in Arithmetic Review as revealed by the proficiency test results.
5. Successfully complete all 5 credits in Arithmetic Review. Unless the waivers in numbers 1 or 2 above apply, no student will be allowed to enroll in any mathematics course (except Arithmetic Review) without having passed the proficiency exam or completed the required work in Arithmetic Review.

What to take first. In general, students with four years of high school mathematics should start with MAT 1225; those with three years should take MAT 1110 or 1112 and 1114. Those students with two years should take MAT 0152. However, mathematics faculty will determine where a student should start on the basis of high school record and entrance test scores. An algebra/calculus placement test will be administered by the Mathematics Department during the first week of the quarter in MAT 1110, 1221 and 1225.

Admission to the major or minor. A GPA of 2.5 or above in 15 credits of mathematics that apply to the major or minor is required for admission to the major or minor.

Computer use. Each mathematics student should have strong computer skills. Students wishing careers in industry or applied mathematics should know a programming language.

Math Lab. The following courses are available through the Math Lab: Arithmetic Review, MAT 0140, 0153, 1112 and 1114. The Math Lab is open daily for student tutoring and testing. These courses do not include a lecture; students study self-instructional materials, obtain instructional help in the Math Lab when necessary and take tests in the Math Lab. Since the learning system in this lab follows a mastery learning approach, students may take more than one exam per unit. Arithmetic Review is available as a two-quarter sequence, MAT 0131 and 0132, for students who need 4 or 5 credits as a result of their proficiency test score. MAT 1112 and 1114 are equivalent to the single 5-credit lecture course MAT 1110.

Requirements for the Mathematics Major

B.A. in Mathematics
57 credits; 28 upper-division
Refer to pages 60–62 for a summary of degree requirements.
MAT 1225, 1226 Calculus
MAT 1228 Series and Differential Equations
MAT 2228 Multivariable Calculus
MAT 2375 Probability Theory
MAT 2376 Applied Statistics
MAT 2401 Linear Algebra
MAT 2720 Discrete Mathematics
MAT 3749 Introduction to Analysis
MAT 3441 Axiomatic Geometry
or MAT 3443 Transformational Geometry
MAT 4402 Modern Algebra I
MAT 4610 Evolution of Mathematical Thought
MAT 3751 Real Analysis II
or MAT 4403 Modern Algebra II
MAT 4899 Senior Seminar
Additional credits in courses numbered 3000-4999*
Total 57

B.S. in Mathematics
64 credits; 38 upper-division
Refer to pages 60–62 for a summary of degree requirements.
MAT 1225, 1226 Calculus
MAT 1228 Series and Differential Equations
MAT 2228 Multivariable Calculus
MAT 2375 Probability Theory
MAT 2401 Linear Algebra
MAT 2720 Discrete Mathematics
MAT 3749 Introduction to Analysis
MAT 3441 Axiomatic Geometry
or MAT 3443 Transformational Geometry
MAT 4402 Modern Algebra I
MAT 4610 Evolution of Mathematical Thought
MAT 3751 Real Analysis II
or MAT 4403 Modern Algebra II
MAT 4899 Senior Seminar
Additional credits in courses numbered 3000-4999*
Total 64

*B.S. in Computational Mathematics
100 credits; 38 upper-division
Refer to pages 60–62 for a summary of degree requirements.
MAT 1225, 1226 Calculus
MAT 1228 Series and Differential Equations
MAT 2228 Multivariable Calculus
MAT 2375 Probability Theory
MAT 2376 Applied Statistics
MAT 2401 Linear Algebra
MAT 2720 Discrete Mathematics
MAT 3724 Applied Analysis

Note: 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 who plan graduate work in mathematics are strongly advised to take further work in real analysis in their upper-division program and to acquire a reading knowledge of French, German or Russian.
MAT 4725 Numerical Analysis 5
MAT 4830 Mathematical Modeling 5
MAT 4999 Senior Seminar 3
CSC 1230 Problem Solving and Programming 5
CSC 2430 Data Structures I 5
CSC 2431 Data Structures II 5
CSC 2220 Scientific Programming 3
CSC 3430 Algorithm Design and Analysis 4
CSC 3150 Systems Design 5
CSC 3750 Computer Architecture and Organization 5
PHY 1121, 1122, 1123 Physics for Science and Engineering 15
Additional credits in CSC numbered 3000–4999. 8
Total 100

Requirements for the Mathematics Minor
30 credits; 15 upper-division
Open electives in MAT (including at least 15 credits numbered 3000–4999)* 30
Total 30

Note: Anyone desiring a minor in mathematics should begin with MAT 1225, 1226 and 1228, which are prerequisite to most upper-division courses.
*3749 and 4402 are strongly recommended for all minors and a teaching minor must include 3749, 4402 and 3441 or 3443. A maximum of 3 credits in 4804 or 4830 may be applied.

Special Programs
Actuarial science. A student interested in becoming an actuary should major in mathematics or mathematics/economics. The following mathematics courses should be included: MAT 2375, 2376, 4363, 4725, 4830 and some independent study. This provides the foundation for taking exams I, II and III as offered by the Society of Actuaries. Further work in economics is helpful.
Mathematics/economics. Students desiring a major in mathematics/economics should consult a mathematics advisor for information on a student-designed major.
B.S. in Engineering Science. Emphasis in mathematics. (See Engineering Science section.)

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.) Attribute: Remedial.
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.) Attribute: Remedial.
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.) Attribute: Remedial.
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.) Attribute: Remedial.
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.) Attribute: Remedial.
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.) Attribute: Remedial.
MAT 0131 Arithmetic Review (2) Studies the fundamentals of arithmetic in a classroom setting rather than in the Math Lab. Only open to those needing 5 credits of Arithmetic Review. Credits in this course do not apply toward graduation requirements. Attribute: Remedial.
MAT 0132 Arithmetic Review (3) Studies the fundamentals of arithmetic in a classroom setting rather than in the Math Lab. Credits in this course do not apply toward graduation requirements. (Offered only in the Math Lab.) Attribute: Remedial.
MAT 0140 Introductory Algebra (3) Explores sets; solving equations and inequalities; factoring; fractional and rational expressions; graphing; and word problems. Credits in this course do not apply toward graduation requirements. (Offered only in the Math Lab.) Attribute: Remedial.
MAT 0152 Intermediate Algebra I (3) Studies linear equations and inequalities, real numbers, polynomials, rational expressions, radicals and exponents. (Offered only in the Math Lab.) Attribute: Remedial.
MAT 0153 Intermediate Algebra II (2) Explores systems of equations; quadratic equations and inequalities; exponential functions; and logarithms. (Offered only in the Math Lab.) Attribute: Remedial.
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 the 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 the Math Lab.)
MAT 1221 Survey of Calculus (5) Prerequisite: MAT 0153 or its equivalent and passing score on Mathematics Proficiency Exam. An applications-oriented course with an intuitive approach, including introduction to both differential and integral calculus. Examples drawn from business, economics, biology, and the social and behavioral sciences. This course is not the prerequisite for 1226, nor can credit be received if 1225 or its equivalent has been taken. Attributes: Quantitative Reasoning; and Mathematics.
MAT 1225 Calculus (5) Prerequisite: MAT 1110 or its equivalent and passing score on Mathematics Proficiency Exam. Explores differential and integral calculus of functions of one or more variables. Sequence begins both Autumn and Winter Quarters. Attributes: Quantitative Reasoning; and Mathematics.
MAT 1226 Calculus (5) Prerequisite: MAT 1225. Explores differential and integral calculus of functions of one or more variables. Sequence begins both Autumn and Winter Quarters.


MAT 1360 Introduction to Statistics (5) Prerequisite: Passing score on Mathematics Proficiency Exam or completion of Arithmetic Review; MAT 0140 or MAT 0152, or equivalent. Explores descriptive statistics, elementary probability, binomial and normal distributions, sampling, estimating parameters, testing hypotheses, regression and correlation. Attributes: Quantitative Reasoning; and Mathematics.

MAT 1521 Introduction to Contemporary Mathematics (5) Prerequisite: MAT 0153 or its equivalent. Explores topics that illustrate how mathematical methods and models permeate our economic, political and personal lives. By investigation of diverse applications, a variety of problem-solving techniques will be introduced, including using the computer as a tool. Attributes: Quantitative Reasoning; and Mathematics.

MAT 1720 Mathematics for Computer Science (5) Prerequisite: 1221 or 1225. Explores set theory, number systems, logic, proof techniques, basics of counting, discrete probability, networks, digital logic and digital systems.

MAT 2228 Multivariable Calculus (3) Prerequisites: MAT 1226, 2401. Studies vectors and analytic geometry in three dimensions, partial differentiation and multiple integration.

MAT 2375 Probability Theory (2) Prerequisite: MAT 1226. MAT 1228 recommended. Studies combinatorial methods, elementary probability, random variables, discrete and continuous probability distributions, expected values and moments.

MAT 2376 Applied Statistics (3) Prerequisite: MAT 2375. Further study in discrete and continuous probability distributions, sampling, sampling distributions, central limit theorem, estimation and hypothesis testing.

MAT 2401 Linear Algebra (3) Prerequisite: MAT 1226. Studies vector spaces, matrices and linear transformations.

MAT 2530 Survey of Mathematics I (3) Registration approval School of Education. Prerequisite: Passing score on Mathematics Proficiency Exam or completion of Arithmetic Review and completion of concurrent registration in Professional Quarter I. Includes the study of sets, numeration systems, arithmetic, algebra, number theory and statistics, and relates topics to the elementary school mathematics curriculum. Available for general education credit only to students in elementary education. Attributes: Quantitative Reasoning; and Mathematics. Class not open to freshmen.

MAT 2531 Survey of Mathematics II (2) Registration approval School of Education. Prerequisite: MAT 2530 completed with a grade of C- or better. Includes topics from probability, geometry and measurement, and relates topics to the elementary school mathematics curriculum. Available for general education credit only to students in elementary education. Attributes: Quantitative Reasoning; and Mathematics. Class not open to freshmen.

MAT 2700 Statistics for Business and Economics (5) Registration approval: SBE coordinator. Prerequisites: BUS 1700 or CSC 1123 or competency exam. Explores descriptive statistics, probability, random variable distributions, estimation, hypothesis testing, regression and nonparametric statistics. Course equivalent: BUS 2700.

MAT 2720 Discrete Mathematics (3) Prerequisite: MAT 1226. Studies sets, logic, Boolean algebra, relations, functions and graphs.

MAT 3401 Number Theory (3) Prerequisite: MAT 2720 or 3749. Studies topics of classical number theory including divisibility, primes and congruences. Offered alternate years. Attribute: Upper-Division.

MAT 3441 Axiomatic Geometry (3) Prerequisite: MAT 3749. Surveys foundations of Euclidean, non-Euclidean and projective geometries from an axiomatic approach. Offered alternate years. Attribute: Upper-Division.

MAT 3443 Transformational Geometry (3) Prerequisite: MAT 3749. Surveys Euclidean, non-Euclidean and projective geometries using a transformational approach. Offered alternate years. Attribute: Upper-Division.


MAT 3725 Applied Analysis (3) Prerequisite: MAT 3724. Continuation of MAT 3724, including special functions. Offered as needed. Attribute: Upper-Division.

MAT 3730 Complex Variables (3) Prerequisites: MAT 1228, 2228. Studies theory and applications of complex variables; analytic functions, integrals and power series applications. Offered alternate years. Attribute: Upper-Division.

MAT 3749 Introduction to Analysis (5) Prerequisite: MAT 1228 and 2401. Uses the axiomatic method to prove basic results from set theory and real analysis. Topics include functions, set cardinality, the real number system and the topology of the real line. Attribute: Upper-Division.

MAT 3751 Real Analysis II (3) Prerequisite: MAT 3749. Builds on the topics introduced in MAT 3749, including explorations of differentiation and integration. Offered alternate years. Attribute: Upper-Division.


MAT 4402 Modern Algebra (3) Prerequisite: MAT 3749. Studies algebraic structures, including groups, rings and fields. Attributes: Upper-Division; and Writing Course.

MAT 4403 Modern Algebra (3) Prerequisite: MAT 4402. Continuation of MAT 4402. Offered alternate years. Attributes: Upper-Division; and Writing Course.

MAT 4610 The Evolution of Mathematical Thought (3) Prerequisites: MAT 3749 or permission of instructor. Investigates the ideas, methods and work of great mathematicians of the past. Attributes: Upper-Division; and Writing Course. Class not open to freshmen and sophomores.

MAT 4725 Numerical Analysis (5) Prerequisites: MAT 1228 and 2228 or permission of instructor, and facility with mathematically oriented software. Studies numerical integration, differentiation, solutions of systems of equations and related topics. Offered alternate years. Attribute: Upper-Division.
Music

Crawford Music Building
(206) 281-2205
www.spu.edu/depts/fpa

Bruce D. Congdon, Dean of the College of Arts and Sciences

Ramona Holmes, Chair; David Anderson, James Denman, Eric Hanson, Wayne Johnson, Gerry Marsh, David Shockey, Tamara Still

The purpose of the music program is threefold: (1) to provide opportunities for all students to study music as an essential part of a liberal arts education; (2) to provide majors in music with the opportunity to develop basic musicianship and performance skills appropriate to the various emphases in the degree; and (3) to recognize the interrelationship between music and the other creative arts. SPU is an accredited institutional member of the National Association of Schools of Music.

Career Opportunities

Students majoring in music have the advantage of a strong music major within a liberal-arts setting. Students with an emphasis in music education are prepared to teach music in the elementary and secondary schools. Other emphases in music train people to use their gifts as performers, as composers and as private studio teachers and for advanced study in performance, theory and literature.

Music Ensemble Opportunities

Many music ensembles are available to SPU students. In the course listings, ensembles are in the 2000/4000 series and course descriptions and requirements may be found there. All ensemble courses carry regular University credit and most require an audition or permission of the instructor for enrollment.

GPA Admission Requirement

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

<table>
<thead>
<tr>
<th>General Requirements for All Music Majors</th>
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| 48 credits
| Refer to pages 60–62 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 MUS 1255 until the keyboard proficiency exam (required of all majors) is passed.

Specific Requirements for the Music Emphasis Areas

Select one of the five emphases:

I. Requirements for Music Education, K–12 Teaching Emphasis

Anyone majoring in K–12 music education also must complete education courses and internship requirements for certification. See requirements in the School of Education section of this Catalog.
Music

In addition to piano proficiency, every music education major must meet guitar proficiency.

Additional Requirements: Music Education Core
17 credits
MUS 2550 Foundations of Music Education 3
MUS 3502 Music in Special Education 3
MUS 3503 General Music Methods and Materials 3
MUS 3608 Music Technology 5
MUS 4655 Context Studies: World Music 3

School of Education Requirements
45 credits
PSY 1180 General Psychology or SOC 1110 Intro to Sociology 5
EDU 2104 Intro to Education 2
EDU 3105 Lab Experience 3
EDU 3250 Secondary Method 1: Planning and Classroom Management 2
EDU 3942 September Experience 1
EDU 4943 Elementary Internship 15
EDU 4800 Teacher as Person 2
EDU 4945 Secondary Internship 15

Teaching Options
Select one of the three:

A. Combined Choral/Instrumental Option
9 or 30 credits
MUS 1260 Beginning Voice* 1
MUS 2501 Brass Techniques 1
MUS 2502 Percussion Techniques 1
MUS 2503 String Techniques 1
MUS 2504 Woodwind Techniques 1
MUS 3504 Choral Music Methods and Materials I 2
MUS 3505 Instrumental Music Methods and Materials I 2
MUS 3603 Choral Literature 2
MUS 3604 Instrumental Literature 2
MUS 4101 Instrumentation and Orchestration (3) or MUS 4102 Choral Arranging (2) 2–3
MUS 4701 Choral Conducting I 3
MUS 4702 Instrumental Conducting I 3
MUS 4262 Vocal Pedagogy and Techniques 2
See music performance requirement 6

*Individual vocal instruction may be substituted. This will apply toward teaching performance.

B. Choral/Vocal Option
28 credits
Instrumental Concepts
MUS 2501 Brass Techniques 1
MUS 2502 Percussion Techniques 1
MUS 2503 String Techniques 1
MUS 2504 Woodwind Techniques 1
MUS 3505 Instrumental Music Methods and Materials I 2
Choral Concepts
MUS 3504 Choral Music Methods and Materials I 2
MUS 3603 Choral Literature 2
MUS 4102 Choral Arranging 2
MUS 4701 Choral Conducting I 3
Vocal Concepts
MUS 2260 Singers Art I 3
MUS 2261 Singers Art II 3
MUS 4262 Vocal Pedagogy and Techniques 2
MUS 1260 Beginning Voice Class* 2
See music performance requirement 3

*Individual vocal instruction may be substituted.

C. Instrumental Option
25 credits
Choral Concepts
MUS 3504 Choral Music Methods and Materials I 2
MUS 1260 Beginning Voice Class 2
Instrumental Concepts

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.

2. Requirements for Performance Emphasis
72–77 credits; 23 upper-division
Audition is required for entry into any music performance program and for all individual instruction.

General Requirements for All Majors
48 credits

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 and one must be MUS 4899 Music Capstone.
Individual Instruction: In addition to the 6 credits required of all majors (10 upper-division credits required). 15 credits
Ensemble: See general requirements for all majors.
Recitals: One half-hour junior solo recital and one full-hour senior solo recital.

B. Piano Performance/Pedagogy Option
27 credits
MUS 3506 Piano Pedagogy 3
Context Studies in Music 9
Select from MUS 4654, 4655, 4656; topics change yearly and one must be MUS 4899 Music Capstone.
Piano Literature (3 credits; offered alternate years.)
Individual Instruction: In addition to the 6 credits required of all majors, (10 upper-division credits required). 15 credits
Ensemble: See general requirements for all majors.
(3 credits of Keyboard Ensemble/Accompanying required.)

Accompanying: All students with an emphasis in piano performance and all piano scholarship recipients are required to do one hour of studio accompanying per week. See complete policy in the Music Handbook.
One quarter of group teaching experience (assisting in piano lab) is required of all students in this option.
Recitals: One half-hour junior solo recital and either one full hour senior solo recital or pedagogy paper/lecture-demonstration.

C. Vocal Performance Option
29 credits
MUS 2260 The Singer’s Art I 3
MUS 2261 The Singer’s Art II 3
MUS 4261 Sacred Vocal Repertoire 3
MUS 4262 Vocal Pedagogy/Techniques 2
Context Studies in Music: Select from MUS 4654, 4655, 4656; topics change yearly one of them must be MUS 4899 Music Capstone. 6
Individual Instruction: In addition to the 6 credits required of all majors (10 upper-division required). 12 credits
Music Courses

MUS 1028 Chamber Music Workshop (2–3) Concentrated studies on the performance practice and historic background of instrumental chamber music for strings, winds instruments and piano. Participants will develop playing and rehearsal skills by rehearsing and performing chamber music repertoire in master classes, recitals and evening concerts. The course is designed for advanced high school and university instrumental players. Offered Summer Quarter only. May be repeated for credit up to 6 credits.

MUS 1101 Musicianship I: Material and Structure (5) Students with sufficient music theory training may request challenge examination for this course prior to Autumn Quarter. Presents basic musical skills of listening, theory and analysis, improvisation, conducting, writing, performance and historical understanding of music and music fundamentals. Students will participate in lecture and laboratory settings, including computer-assisted instruction. Must begin in Autumn Quarter. Extra fee.

MUS 1102 Musicianship I: Material and Structure (5) Prerequisite: MUS 1101. Students with sufficient music-theory training may fulfill prerequisite by examination. Request challenge examination prior to Autumn Quarter. Presents basic musical skills of listening, theory and analysis, improvisation, conducting, writing, 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 1102. Students with sufficient music theory training may fulfill prerequisite by examination. Request challenge examination prior to Winter Quarter. Presents basic musical skills of listening, theory and analysis, improvisation, conducting, writing, performance and historical understanding of music. Students will participate in lecture and laboratory settings, including computer-assisted instruction. Extra fee.

MUS 1250 Beginning Keyboard Class (2) For students with no previous keyboard experience. Ability to read music is not necessary. Course is designed for the non-music major, and expectations for each student are based on individual needs. Emphasis is on note-reading, basic theory, chord usage and technical development. Extra fee. May be repeated for an unlimited number of credits. Attributes: Arts and Humanities A; and Fine Arts Option. Class not open to music majors.

MUS 1251 Intermediate Keyboard Class (2) For students with prior training in piano. Course is designed for the non-music major, and expectations for each student are based on individual needs. Emphasis is on note-reading, basic theory, chord usage, repertoire, technical development and creative activities. Extra fee. May be repeated for an unlimited number of credits. Attributes: Arts and Humanities A; and Fine Arts Option. Class not open to music majors.

MUS 1254 Beginning Keyboard Proficiency (2) For music majors with minimal previous keyboard experience. Sight-reading, harmonization, transposing and technical development will be emphasized in order to meet piano proficiency requirements. Restricted to music majors or intended majors only. Extra fee. May be repeated for an unlimited number of credits. Class open to music majors.

MUS 1255 Intermediate Keyboard Proficiency (2) For music majors with prior training in piano. Sight-reading, harmonization, transposing, technical development and creative activities will be emphasized in order to meet piano proficiency requirements. Extra fee. May be repeated for an unlimited number of credits. Class open to music majors.

MUS 1260 Voice Class (2) Two class sessions per week. Emphasis is on basic vocal technique: breath control, tone placement, diction and stage presence. Music includes classical, folk and American music. Extra Fee. May be repeated for an unlimited number of credits. Attributes: Arts and Humanities A; and Fine Arts Option.

MUS 1270 Beginning Folk Guitar (1) Introduction to folk-style guitar playing. May be taken by music education majors to meet guitar proficiency. Extra fee. May be repeated an unlimited number of times.

MUS 1271 Intermediate Folk Guitar (1) Prerequisite: MUS 1270. Extra fee. May be repeated for credit three times.

MUS 1600 Exploring and Understanding Music (5) The focus is on the pleasure of listening with understanding, using individual, classroom and concert experiences. Introduces basic elements of music as preparation for enjoying masterworks in the European
Music

MUS 2101 Musicianship II: Materials and Structure (4) Prerequisite: MUS 1103. Continued integrated study of musical elements as in Musicianship I emphasizing 16th- and 18th-century counterpoint. Develops skills of composition, aural dictation, improvisation, use of technology and analysis. Emphasis is on developing understanding of and compositional experience with contrapuntal procedures. Extra fee. Corequisite: MUS 2601.

MUS 2102 Musicianship II: Materials and Structure (4) Prerequisite: MUS 2101. Continued integrated study of musical elements as in Musicianship I emphasizing chromatic harmony and modulation. Develops skills of composition, aural dictation, improvisation, use of technology and analysis. Emphasis is on developing understanding of and compositional experience with larger musical forms. Extra fee. Corequisite: MUS 2602.

MUS 2103 Musicianship II: Materials and Structure (4) Prerequisite: MUS 2102. Continued integrated study of musical elements as in Musicianship I emphasizing chromatic harmony, modulation and 20th-century techniques. Analytical studies include introductions to Schenkerian theory and to basic atonal theory. Develops skills of composition, aural dictation, improvisation, use of technology and analysis. Emphasis is on developing understanding of and compositional experience with larger musical forms. Extra fee. Corequisite: MUS 2603.

MUS 2260 The Singer's Art I (3) Prerequisite: 3 credits of MUS 1260 or 3 credits of MUS 2219. A study and application of the principles of artistic performance, with special emphasis on English, Latin and Italian diction and repertoire. Basic international phonic alphabet will be learned. Prerequisite to upper-division credit in voice.

MUS 2261 The Singer's Art II (3) Prerequisite: MUS 2260. The study and performance of the German and French vocal repertoire of the 19th and 20th centuries. Special attention will be given to diction, style and interpretation. Prerequisite to upper-division in voice.

MUS 2550 Foundations of Music Education (3) Explores social, historical and philosophical foundations of American music education. Focuses on teaching curricula from ancient times to the present. Provides opportunities to apply course content through service learning and field-related experiences. Part of Professional Quarter 1 in place of EDU 2103 for music majors. Class open to music and intended music majors.

MUS 2601 Survey of Music Literature I (3) A chronological study of the development of Western art music from the early medieval period through the baroque era.

MUS 2602 Survey of Music Literature II (3) A chronological study of the development of Western art music in the pre-Classic period and the Romantic period through Richard Wagner.

MUS 2603 Survey of Music Literature III (3) A chronological study of the development of Western Art music from the late Romantic period to the present.

MUS 2604 Soundscape (5) This course explores a wide range of music including vernacular and art music of Western and non-Western cultures. Students gain skills in listening to music from diverse cultures, develop understanding of the influence of cultural and historical context of those musics and learn how those traditions can be experienced today in the city of Seattle. Attributes: Arts and Humanities A; and Fine Arts Core. Class not open to music majors.

MUS 2605 Survey of Popular Music (5) A survey of popular song in America, its development, variety and influences on American culture. Emphasis is on listening, style analysis and the elements of music. Attributes: Arts and Humanities A; and Fine Arts Core. Class not open to music majors.

MUS 2654 World Music (3) This course explores the significance of music in different societies. Emphasis is on the music of the Pacific Rim, but may include sub-Saharan Africa, Latin America, Eastern Europe or the Middle East. Corequisite: MUS 2655. Attributes: Arts and Humanities A; and Fine Arts Option.

MUS 2655 World Music Laboratory (2) Provides practical, hands-on experience in performing on instruments used in music from the Pacific Rim, sub-Saharan Africa, Latin America, Eastern Europe and the Middle East. Corequisite: MUS 2654. Attributes: Arts and Humanities A; and Fine Arts Option.

MUS 3309 Music Technology Applications (1–3) Demonstrates how to enter notes into a computer through a MIDI keyboard, edit the resulting notation using Finale software and print the results on a laser printer. Offered Summer Quarter only. May be repeated for credit up to 6 credits. Course equivalents: EDTC 5309 and MUS 3309. Attribute: Upper-Division. Class not open to graduate students.

MUS 3401 Music and Worship (2) A study of the philosophical, biblical and theological relationships of music to worship in the Christian Church. Attributes: Arts and Humanities A; Fine Arts Option; and Upper-Division.

MUS 3500 Fundamentals of Music for Future Teachers (2) This course covers basic music theory including rhythmic sight-reading, interpretation of pitch notation and basic chording. Students who have had basic theory may test out of this class. Designed for future classroom teachers. May be taken towards General Education Fine Arts Options credit. Attribute: Upper-Division. Class not open to music majors. Class not open to freshmen.

MUS 3501 Elementary Methods and Materials (3) This class covers basic approaches to teaching music in the elementary classroom for the regular classroom teacher. It focuses on music as a content area and music as it relates to arts in basic education. Elementary education certification students may take MUS 3501 toward General Education Fine Arts Options credit. Attribute: Upper-Division. Class not open to music majors. Class not open to freshmen.

MUS 3502 Music in Special Education (3) This course centers on methods for dealing with music and related arts with children who have special needs. Materials for use with children are developed. This course is designed for special education and music education majors. Elementary education certification students may take MUS 3502 toward General Education Fine Arts Options credits. Attribute: Upper-Division. Class not open to freshmen and sophomores.

MUS 3503 General Music Methods and Materials (3) Prerequisite: MUS 2550 or EDU 2103. A survey of methods for instruction in elementary classroom music and secondary general music programs. Includes exposure to current materials available for instruction in those settings and preparation of materials appropriate to age levels. Attribute: Upper-Division. Class open to fine and applied arts and music majors. Class not open to freshmen and sophomores.
MUS 3504 Choral Music Methods and Materials (2) Prerequisite: MUS 2550 or permission of instructor. A survey of the teaching methods, rehearsal techniques and choral organization from the elementary school chorus through the adult choir. Emphasis is on development of diagnostic rehearsal skills through special class projects and survival skills for the beginning choral director. Attribute: Upper-Division. Class open to music majors. Class not open to freshmen and sophomores.

MUS 3505 Instrumental Music Methods and Materials (2) Prerequisite: MUS 2550. A survey of the instrumental music program, grades 5-12. Emphasis is on examination of appropriate teaching materials, teaching methods for various program levels, program planning and development, and evaluation of learner progress. Experience in planning and presenting model learning experiences in instrumental music is provided. Offered alternate years. Attribute: Upper-Division. Class open to music majors. Class not open to freshmen and sophomores.

MUS 3506 Piano Pedagogy (3) Emphasis is upon developing a philosophy of music teaching at the primary to intermediate levels. Includes an examination of ideas and theories about learning and teaching, observation of teaching, the study of teaching strategies and literature, student teaching and use of music technology. Includes supervised teaching. Offered alternate years. Attributes: Upper-Division; and Writing Course.

MUS 3602 The Magic of Opera (5) An in-depth study of selected masterpieces of standard operatic repertoire from an historical and aesthetic perspective. Ideas and themes of operas are related to social, moral, political and religious issues confronting individuals in society. Attendance at live opera productions is a part of class activity. Offered alternate years. Attributes: Arts and Humanities A; Fine Arts Option; and Upper-Division. Class not open to freshmen and sophomores.

MUS 3603 Choral Literature (2) Prerequisites: MUS 1101, 1102, 1103. A survey of choral music representing historical forms, eras and styles. Emphasis is on literature appropriate for choirs in grades 5-12. Consideration given for balance in programming. Offered alternate years. Attribute: Upper-Division. Class not open to freshmen and sophomores.

MUS 3604 Instrumental Literature (2) Prerequisites: MUS 1101, 1102, 1103. A survey of instrumental music appropriate for performance by groups in grades 5-12. Offered alternate years. Attribute: Upper-Division. Class not open to freshmen and sophomores.

MUS 3608 Music Technology Applications (5) Prerequisite: Must have elementary piano playing skills, no computer skills necessary. Students will have daily hands-on experience at an individual workstation consisting of a MIDI keyboard and Macintosh computer. The main emphasis will be on basic through advanced applications of the music notation software Finale. Additional student lessons will include desktop publishing and the introduction of Web-site portfolio programs. This course meets the requirements and is in place of Professional Quarter 1, Education Technology EDTC 2235 for music education majors only. Extra fee. May be repeated for credit two times. Attribute: Upper-Division.

MUS 3609 Advanced Music Technology (5) Registration approval. Instructor. Prerequisite: MUS 3608. Students will become proficient with the music technology of the Yamaha O2R Digital Recording Mixer, Digidesign Protools, ADAT 16-track Audio Recording and the basic production of a musical CD. May be repeated for credit three times. Attribute: Upper-Division. Class open to music, music education, music performance and music theory and literature majors.

MUS 4100 Composition (1-3) Prerequisites: MUS 2103 or permission of instructor. Through basic skill-building exercises this course teaches musical composition in accordance with stated aesthetic values. Students move through levels of increasing complexity and self-initiation. May be repeated for credit up to 9 credits. Attribute: Upper-Division.

MUS 4101 Instrumentation and Orchestration (3) Prerequisite: MUS 2103. A study of the history, technical limitations and use of orchestral instruments. Practical experience in arranging for various combinations of instruments is provided. Offered alternate years. Attribute: Upper-Division. Class not open to freshmen and sophomores.

MUS 4102 Choral Arranging (2) Prerequisites: MUS 1101, 1102, 1103. A study of the basics regarding the use of voices in choral music and methods of arranging music for them. Practical experience in arranging for various choral emphases is provided. Offered alternate years. Attribute: Upper-Division. Class not open to freshmen and sophomores.

MUS 4261 Sacred Vocal Repertoire (3) Registration approval: Instructor. Prerequisites: MUS 1260, 2219. A study of some of the great sacred solo vocal repertoire. Special attention will be given to solo cantata and oratorio literature, and appropriate performance practice. Attribute: Upper-Division. Class not open to freshmen and sophomores.

MUS 4262 Vocal Pedagogy and Techniques (2) Registration approval: Instructor. Prerequisites: MUS 1260, 2219. This course is designed to explore and understand the nature of the singing voice and methods of vocal instruction. Attribute: Upper-Division. Class not open to freshmen and sophomores.

MUS 4401 The Song of the Church (3) A study of congregational singing including its history, its genre, its criticism and its effective use in the worship service. Attributes: Arts and Humanities A; Fine Arts Option; and Upper-Division.

MUS 4402 History and Appreciation of Jazz (5) This course surveys the major periods in jazz history, from its roots in New Orleans to the present, with a special section on Seattle jazz. It also emphasizes the common elements throughout that history — blues, improvisation, the group negotiation of individual agendas and the spiritual context of the jazz solo. Attributes: Arts and Humanities A; Fine Arts Core; Upper-Division; and Writing Course.

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.

<table>
<thead>
<tr>
<th>Individual Instruction Series</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MUS 2201/4201 Individual Instruction Flute (1–2)</td>
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<td>MUS 2202/4202 Individual Instruction Oboe (1–2)</td>
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<td>MUS 2203/4203 Individual Instruction Clarinet (1–2)</td>
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<td>MUS 2204/4204 Individual Instruction Bassoon (1–2)</td>
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<td>MUS 2205/4205 Individual Instruction Trumpet (1–2)</td>
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<td>MUS 2206/4206 Individual Instruction Horn (1–2)</td>
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<td>MUS 2207/4207 Individual Instruction Trombone (1–2)</td>
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<td>MUS 2208/4208 Individual Instruction Baritone (1–2)</td>
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<td>MUS 2209/4209 Individual Instruction Tuba (1–2)</td>
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<td>MUS 2210/4210 Individual Instruction Percussion (1–2)</td>
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<td>MUS 2211/4211 Individual Instruction Violin (1–2)</td>
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<td>MUS 2212/4212 Individual Instruction Viola (1–2)</td>
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<tr>
<td>MUS 2213/4213 Individual Instruction Violin Cello (1–2)</td>
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Music:

MUS 2214/4214 Individual Instruction Double Bass (1–2)
MUS 2215/4215 Individual Instruction Harp (1–2)
MUS 2216/4216 Individual Instruction Organ (1–2)
MUS 2217/4217 Individual Instruction Piano (1–2)
MUS 2219/4219* Individual Instruction Voice (1–2)
MUS 2220/4220 Individual Instruction Classical Guitar (1–2)
MUS 2221/4221 Individual Instruction Saxophone (1–2)
MUS 2222/4222 Individual Instruction Jazz Guitar (1–2)
MUS 2224/4224 Individual Instruction Jazz Piano (1–2)
MUS 2225/4225 Individual Instruction Harpsichord (1–2)

*Prerequisites: MUS 1260, 1261. Majors and scholarship recipients may be exempt from the prerequisites. MUS 2260, 2261 required for vocal instruction beyond 6 credits. May be repeated for credit up to 6 credits.

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 Chambers Singers (1)

MUS 2305/4305 Women’s Choir (2) A choral ensemble of women. Participates in major choral concerts throughout the year. Occasional performances for chapels, at the annual service of Lessons and Carols, and at selected churches and community organizations as an outreach of the University.

MUS 2306/4306 Brass Ensemble (1)

MUS 2307/4307 Percussion Ensemble (1)

MUS 2308/4308 Woodwind Ensemble (Flute choir) (1)

MUS 2309/4309 String Ensemble (1)

MUS 2310/4310 Keyboard Ensemble/Accompanying (1) Emphasis on piano duet and two-piano literature, as well as accompanying skills.

MUS 2311/4311 Jazz Ensemble (2) An organization of up to 17 instrumentalists that specializes in the preparation, study and performance of music from the jazz literature.

MUS 2312/4312 Men’s Choir (2) A choral ensemble of men. Participates in major choral concerts throughout the year. Occasional performances for chapels, at the annual service of Lessons and Carols, and at selected churches and community organizations as an outreach of the University.

MUS 2313/4313 Vocal Jazz Ensemble (2) Vocalists specializing in the preparation, study and performance of music from the jazz literature.

MUS 2340/4340 Chamber Ensemble (1) Includes chamber music experience of various types, including woodwind, brass, string, Javanese gamelan, percussion and mixed.

MUS 2350/4350 Concert Choir (2) A choral ensemble of men and women, the Concert Choir performs several major concerts during each academic year.

MUS 2351/4351 Symphonic Wind Ensemble (2) As a group of selected wind and percussion players, this ensemble provides an opportunity for in-depth experience in the performance of wind ensemble and band repertoire.

MUS 2353/4353 Symphony Orchestra (2) An ensemble of strings with selected woodwinds, brass and percussion instruments, performing works from the extensive orchestral literature.

MUS 2360/4360 Opera Workshop (2) Practical experience in preparation and performance of scenes from opera repertoire.

MUS 4654 Context Studies in Music I (3) Prerequisites: MUS 1101, 1102, 1103, 2601, 2602 and 2803. This course along with MUS 4655 and 4656 involves an integrative approach to advanced musicianship while dealing in-depth with selected topics. The process includes reading, writing, listening, analysis, composition, improvisation and computer notation. Topics change yearly. Past topics have included Beethoven: Age of Revolution and Restoration; Passion Settings From Plainsong to Paerl; From Tavener to Tavener: Music of the English Church; The Genius of Bach; African Music; World Music; The Symphonies of Gustav Mahler; The Magnificat; Chamber Music; The Operas of Mozart and Beethoven; 20th-Century American Composers and Their Music; the Cantata. May be repeated for credit three times. Attributes: Upper-Division; and Writing Course. Class open to music majors. Class not open to freshmen and sophomores.

MUS 4655 Context Studies in Music II (3) Prerequisites: MUS 1101, 1102, 1103, 2601, 2602 and 2803. This course along with MUS 4654 and 4656 involves an integrative approach to advanced musicianship while dealing in-depth with selected topics. The process includes reading, writing, listening, analysis, composition, improvisation and computer notation. Topics change yearly. Past topics have included Beethoven: Age of Revolution and Restoration; Passion Settings From Plainsong to Paerl; From Tavener to Tavener: Music of the English Church; The Genius of Bach; African Music; World Music; The Symphonies of Gustav Mahler; The Magnificat; Chamber Music; The Operas of Mozart and Beethoven; 20th-Century American Composers and Their Music; the Cantata. May be repeated for credit three times. Attributes: Upper-Division; and Writing Course. Class open to music majors. Class not open to freshmen and sophomores.

MUS 4701 Choral Conducting (3) Prerequisites: MUS 1101, 1102, 1103. A course designed to develop advanced choral conducting skill and techniques. Attributes: Upper-Division. Class not open to freshmen and sophomores.

MUS 4702 Instrumental Conducting (3) Prerequisite: MUS 1101, 1102 or equivalent. A course designed to teach elementary score reading, baton techniques, instrumentation and conducting with an instrumental emphasis. Offered alternate years. Attributes: Upper-Division. Class not open to freshmen and sophomores.

MUS 4899 Music, The Musician and Religious Experience (3) Prerequisites: MUS 1101, 1102, 1103, 2601, 2602 and 2603. This capstone course, along with MUS 4654 and 4655, involves an integrative approach to advanced musicianship. The process includes reading, writing, listening, analysis, composition, improvisation, counterpoint and computer notation. The in-depth study of great works such as Bach’s “St. Matthew Passion,” Beethoven’s “Missa Solemnis,” Brahms’ “German Requiem,” and Mahler’s “Resurrection Symphony” provides the student the opportunity to reflect on the integration of his or her discipline and faith, larger liberal arts experience and sense of vocation. Counts toward the context studies requirement. Attributes: Upper-Division; and Writing Course. Class open to music majors. Class not open to freshmen and sophomores.
MUS 4900 Independent Study (1–5) Registration approval: Independent Study Agreement. Student works independently with a faculty member on a mutually agreed upon topic. May be repeated for credit up to 15 credits. Attribute: Upper-Division.

MUS 4920 Directed Readings in Music Education (1–5) Registration approval: Independent Study Agreement. Independent study in music education. May be repeated for credit up to 9 credits. Attribute: Upper-Division. Class not open to freshmen and sophomores.

MUS 4921 Directed Readings in Music History (1–5) Registration approval: Independent Study Agreement. Independent study in music history. May be repeated for credit up to 9 credits. Attribute: Upper-Division. Class not open to freshmen and sophomores.


MUS 4930 Practicum (1–5) Registration approval: Instructor.

MUS 4935 Contemporary Christian Music: Practicum (1) Registration approval: Travel Studies Form. Each student will participate in an intensive weeklong practicum. Briefings, tours and meetings will be arranged with leading record companies, artist promoters, writers, producers and artists. Attribute: Upper-Division.

MUS 4941 Choral Conducting Internship (1–5) Registration approval: Intern Learning Contract Req. An opportunity for qualified choral conducting students to gain additional proficiency and experience while working with an advanced ensemble. May be repeated for credit up to 10 credits. Attribute: Upper-Division. Class not open to freshmen and sophomores.

MUS 4942 Instrumental Conducting Internship (1–5) Registration approval: Intern Learning Contract Req. An opportunity for qualified instrumental conducting students to gain additional proficiency and experience while working with an advanced ensemble. May be repeated for credit up to 10 credits. Attribute: Upper-Division. Class not open to freshmen and sophomores.

MUS 4943 Music Internship (1–5) Registration approval: Intern Learning Contract Req. An opportunity for music students to gain additional proficiency and experience in an approved project of the student's own design. May be repeated for credit up to 10 credits. Attribute: Upper-Division. Class not open to freshmen and sophomores.

MUS 4950 Special Topics in Music (1–5) Registration approval: Instructor. Topic and credits to be announced in Online Time Schedule when offered. Topics are offered usually only once and only upon evidence of significant student interest. Topics might include the music of a specific composer, time or culture; the pedagogy of a particular teacher or methodology; or techniques of a certain approach to performance. May be repeated for credit up to 10 credits. Attribute: Upper-Division. Class open to music majors. Class not open to freshmen and sophomores.

MUS 4960 Special Projects in Music (1–5) Registration approval: Instructor. May be repeated for credit up to 10 credits. Attribute: Upper-Division. Class not open to freshmen and sophomores.

Faculty


Myrna Capp, Assistant Professor of Music; B.A., Seattle Pacific College, 1958; M.A., University of Washington, 1977; D.M.A., 1995. At SPU since 1968. (Continuing part-time.)


Eric Hanson, Professor of Music; B.M.E., Wheaton College, 1971; M.M., Colorado State University, 1974; D.M.A., University of Washington, 1986. At SPU since 1979.

Ramona Holmes, Associate Professor of Music Education; Chair of Music; B.S., Portland State University, 1974; M.A.T., University of Washington, 1978; M.A., 1982; D.M.A., 1990. At SPU since 1994.


David Shockey, Associate Professor of Music; B.S., M.Ed., Roberts Wesleyan College, 1974; M.M., Eastman School of Music, 1980; D.M.A., Ohio State University, 1991. At SPU since 2002.

Tamara Still, Instructor of Music; M.F.A., University of California at L.A. At SPU since 1993.

Part-Time Lecturers


Margaret Brennand, Music; B. Mus., Eastman School of Music, 1984. At SPU since 1999.


Brian Chin, Music; B.M., Rutgers University, 1998; M.M., Rutgers University, 2001. At SPU since 2002.


Hilary Field, Music; B.A. State University of New York Stony Brook, 1980. At SPU since 1992.


Mary Kantor, Music; B.M., University of Washington, 1980. At SPU since 2000.


“Music teaches us decoding skills, communication skills and discipline. It connects us to the ineffable, the spiritual, the eternal. As we create new music and give fresh meaning to music in performance, we bear the image of our Creator.”

Eric Hanson

Music
Natural and Mathematical Sciences

Interdisciplinary Courses

NMS 3980 Preprofessional Health Sciences Field Experience (2) Registration approval: Instructor. A course arranged on an individual basis, preferably before third year. It includes several components: 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 that emphasize ethical questions and dilemmas. Attribute: Upper-Division.

Nursing

See Health Sciences, School of

Philosophy

Marston Hall
(206) 281-2036
www.spu.edu/depts/philosophy

Bruce D. Congdon, Dean of the College of Arts and Sciences

C. Stephen Layman, Chair, Phillip Goggans, Patrick McDonald, Michael Macdonald

Philosophy is the attempt to answer certain persistent human questions. These questions fall into three traditional groups: (1) axiology (the theory of value), (2) metaphysics (the theory of being) and (3) epistemology (the theory of knowledge). Characteristic questions include the following: What is good? What is real? and What is knowledge and how can one achieve it? By studying what the great philosophers have to say about these questions, one can develop a clear personal philosophy (and a clearer grasp of Christian theology), learn about the history of thought and develop analytical skills, which can be applied to any other field. Philosophy majors often train for careers in law, the ministry, the computer industry and education, but philosophers are also found in most other professional fields.

Serious students in all majors are encouraged to consider philosophy as a second major.

Admission to the Major

Applicants for a major in philosophy must display a cumulative GPA of 2.5 or higher (4.0 = A) in all college work applicable to the degree, or 3.0 in the 45 credits immediately preceding application to the major.

Requirements for the Philosophy Major

<table>
<thead>
<tr>
<th>Systematic Courses</th>
<th>55 credits; 25 upper-division</th>
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<tbody>
<tr>
<td>Introductory Course</td>
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<tr>
<td>PHI 1001 The Power of Logic</td>
<td>5</td>
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<tr>
<td>PHI 2001 Advanced Logic</td>
<td>5</td>
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<tr>
<td>PHI 3651 Contemporary Ethical Theory</td>
<td>5</td>
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<td>PHI 4652 Contemporary Metaphysics</td>
<td>5</td>
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<td>PHI 4653 Contemporary Epistemology</td>
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<tr>
<td>Capstone</td>
<td>5</td>
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<tr>
<td>PHI 4899 Senior Capstone in Philosophy</td>
<td>2</td>
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<tr>
<td>Electives (USCH 1113, HIS 3435, THEO 4401 and UCOR 3000 may be included in elective courses)</td>
<td>14</td>
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<td>Total</td>
<td>55</td>
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</table>

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

<table>
<thead>
<tr>
<th>Systematic Courses</th>
<th>30 credits; 15 upper-division</th>
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<tbody>
<tr>
<td>Introductory Course</td>
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<tr>
<td>PHI 1001 The Power of Logic</td>
<td>5</td>
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<tr>
<td>PHI 3633 Early Modern Philosophy</td>
<td>5</td>
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<tr>
<td>PHI 3634 Medieval Philosophy</td>
<td>5</td>
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<tr>
<td>PHI 3635 Renaissance Philosophy</td>
<td>5</td>
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<tr>
<td>Electives (USCH 1113, HIS 3435, THEO 4401 and UCOR 3000 may be included in elective courses)</td>
<td>15–17</td>
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<td>Total</td>
<td>30</td>
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</table>

Philosophy Courses

PHI 1001 Power of Logic (5) An introductory course in logic that covers the following topics: the basic concepts of logic (such as validity and soundness), argument forms, identifying arguments, logic and language, categorical syllogisms and Venn diagrams, informal fallacies, truth tables and natural deduction (for statement logic). Attribute: Arts and Humanities B.

PHI 1002 History of Ethics (5) A survey of major philosophical ethicists emphasizing the works of Plato, Aquinas, Kant and Mill. Attribute: Arts and Humanities B.
PHI 1004 Survey of Western Philosophy (5) This course surveys the main ideas, movements and figures in the history of Western philosophy from Socrates to Wittgenstein. Attributes: Arts and Humanities B.

PHI 1100 Faith and Philosophy (5) A topical introduction to philosophy that emphasizes connections between philosophy and the Christian tradition. Attributes: Arts and Humanities B; and Christian Perspectives.

PHI 2001 Advanced Logic (3) Prerequisite: PHI 1001. Covers these topics: predicate logic with identity, probability and modal logic.

PHI 2500 Philosophy of Science (3) The course will examine philosophical issues raised by modern physics, biology and psychology (among other sciences). It will address questions such as the following: What distinguishes science from pseudo-science? Does science differ from philosophy and theology? Can scientific hypotheses be conclusively established through observation and experiment? What makes for a good scientific explanation? Does science converge on the truth about nature or provide merely useful predictive tools? What are the consequences of historical change in science for the rationality of science? Offered alternate years. Attribute: Arts and Humanities B.

PHI 2801 C.S. Lewis and Values (3) Examines Lewis’s insights into the nature of humanness, the meaning of life and the possibility of other worlds; evaluates Lewis’s position on selected value issues, e.g., marriage, divorce and friendship.

PHI 2999 Aesthetics (3) Is beauty an objective quality that a thing either has or does not have, or are aesthetic judgments merely expressions of personal taste? What sorts of things should we take into account in evaluating art? What is the proper function of art, and of the art critic? Offered alternate years. Attributes: Arts and Humanities B; and Fine Arts Option.

PHI 3601 Ancient Philosophy (5) Surveys the work of principally Greek philosophers emphasizing Plato and Aristotle. Some consideration may be given to pre-Socratics and post-Aristotelian developments, such as stoicism and Neoplatonism. Attributes: Upper-Division; and Writing Course.

PHI 3602 Medieval Philosophy (3) Surveys the thought of some main medieval philosophers such as Augustine, Boethius, Anselm, Aquinas, Duns Scotus and William of Ockham. Attention will be mainly given to their metaphysical, epistemological and ethical theories. Attributes: Upper-Division; and Writing Course.

PHI 3606 Continental Philosophy (3) Prerequisite: PHI 3601 or PHI 3633. Surveys major philosophical figures in the continental tradition such as Hegel, Kierkegaard, Nietzsche, Heidegger, Gadamer, Derrida and Rorty. Offered alternate years. Attributes: Upper-Division; and Writing Course.

PHI 3633 Early Modern Philosophy (5) Surveys the thought of main figures in the early modern period such as Descartes, Locke, Leibniz, Hume and Kant. Attributes: Upper-Division; and Writing Course.

PHI 3651 Contemporary Ethical Theory (5) Prerequisite: PHI 1002 is recommended. An in-depth examination of the main philosophical theories of ethics such as cultural relativism, subjectivism, the divine command theory, ethical egoism, consequentialist views, deontological views and virtue ethics. Contemporary versions of these theories will be emphasized. Selected topics in metaethics will also be included, such as moral realism, morality and self-interest, moral knowledge. Attributes: Upper-Division; and Writing Course.

PHI 3770 Topics in Political Philosophy (3) An in-depth study of a crucial topic in political philosophy. Examples include philosophical implications of the French Revolution, the rule of law, political obligation, Aristotle’s politics and democracy. Offered alternate years. May be repeated for credit up to 6 credits. Attributes: Upper-Division; and Writing Course.

PHI 3801 C.S. Lewis and Values (3) Examines Lewis’s insights into the nature of humanness, the meaning of life and the possibility of other worlds; evaluates Lewis’s position on selected value issues such as marriage, divorce and friendship. Attributes: Upper-Division; and Writing Course.

PHI 3900 Advanced Philosophy of Religion (5) An in-depth examination of selected topics in the philosophy of religion, with an emphasis on the work of recent authors such as Swinburne, Mackie, Plantinga, Hick, Alston, Rowe and Robert Adams. Attributes: Upper-Division; and Writing Course.

PHI 3999 Mind and Immortality (3) An in-depth examination of the naturalistic program in understanding the human mind. Topics covered include dualism versus physicalism, behaviorism, mind-brain identity theory, functionalism, mental causation, consciousness, reductive and nonreductive physicalism, and the Christian doctrine of the resurrection of the body. Attributes: Upper-Division; and Writing Course.

PHI 452 Contemporary Metaphysics (5) Prerequisite: PHI 1001. An in-depth examination of classic metaphysical issues focusing on more recent contributions to the debates. Topics include free will, ontology, realism and essentialism. Attributes: Upper-Division; and Writing Course.

PHI 453 Contemporary Epistemology (3) Prerequisite: PHI 1001. An in-depth examination of classic epistemological issues focusing on more recent contributions to the debates. Topics include the analysis of knowledge, the Gettier problem, the structure and sources of justification, skepticism, a priori knowledge, and naturalized and feminist epistemology.

PHI 4661 The Best of C.S. Lewis (3) Identifies basic literary, philosophical and theological categories of Lewis’s work. Evaluates the insights in the great themes that permeate Lewis’s literature through examining his major works, including Mere Christianity, Screwtape Letters, Great Divorce, The Last Battle and The Four Loves. Incorporates lecture series. Attribute: Upper-Division.

PHI 4899 Senior Capstone in Philosophy (2) Prerequisite: 30 credits in philosophy or instructor’s permission. This course has two aims: (1) to help students synthesize what they have learned about certain key issues in the three main branches of philosophy, and (2) to assist students in taking the practical steps necessary either to enter the workplace or to attend graduate school. This course is delivered in an independent-study arrangement. Students planning to attend graduate school should enroll in the last quarter of their junior year; otherwise the course may be taken any quarter of the senior year. Attribute: Upper-Division. Class open to seniors.

PHI 4900 Independent Study (1–5) Registration approval: Independent Study Agreement. Student works independently with a faculty member on a mutually agreed upon topic. May be repeated for credit up to 15 credits. Attribute: Upper-Division.

PHI 4920 Directed Readings (1–9) Registration approval: Independent Study Agreement. May be repeated for credit up to 9 credits. Attribute: Upper-Division. Class open to juniors and seniors.
PHI 4921 Directed Readings in the Philosophical Writings of C.S. Lewis (1–5) Registration approval; Independent Study Agreement. Offers directed study in the explicitly philosophical writings of Lewis, e.g., *The Abolition of Man, The Problem of Pain, Miracles, The Four Loves, The Weight of Glory and Other Addresses,* and *God in the Dock.* May be repeated for credit up to 5 credits. Attribute: Upper-Division.

PHI 4930 Philosophy Practicum (1–5) Registration approval; Instructor. For advanced students who wish to assist as discussion leaders and readers in lower-division philosophy classes. May be repeated for credit up to 5 credits. Attribute: Upper-Division. Class open to philosophy majors. Class not open to freshmen and sophomores.

PHI 4940 Philosophy Internship (1–5) Registration approval; Intern Learning Contract Req. Prerequisite: 30 credits of philosophy. Practical application of philosophical skills. (See philosophy Website for illustrative possibilities.) May be repeated for credit up to 5 credits. Attribute: Upper-Division. Class open to philosophy majors. Class not open to freshmen and sophomores.

PHI 4950 Special Topics in Philosophy (1–5) An in-depth exploration of a specific philosophical topic chosen by the instructor. Recent topics include the problem of evil, the doctrines of the Trinity and incarnation, political philosophy and C.S. Lewis on the quest for the permanent things. May be repeated for credit up to 10 credits. Attribute: Upper-Division. Class open to juniors and seniors.

PHI 4970 Independent Research (1–9) Registration approval; Instructor. Attribute: Upper-Division.

Faculty

Phillip N. Goggans, Associate Professor of Philosophy; B.A., Asbury College, 1985; M.A., University of Kentucky, 1988; Ph.D., Syracuse University, 1993. At SPU since 1993.

C. Stephen Layman, Professor of Philosophy; Chair of Philosophy; B.A., Calvin College, 1977; Ph.D., University of California, Los Angeles, 1983. At SPU since 1986.

Patrick McDonald, Assistant Professor of Philosophy; B.A., Seattle University; M.A., University of Notre Dame, 1997; Ph.D., University of Notre Dame, 2001. At SPU since 2001.


Physical Education

Royal Brougham Pavilion
(206) 281-2081
www.spu.edu/depts/pe

Bruce D. Congdon, Dean of the College of Arts and Sciences

Dan Tripps, Chair, JoAnn Atwell-Scrivner, Bud Turner,
Bob Weathers

A primary goal of the Physical Education Department is to promote healthy lifestyles through good decision making, improved fitness and lifetime movement skills. Students who major in physical education proceed through a sequential, comprehensive curriculum that prepares them to enter a variety of movement-related professions, including teaching, fitness training and recreational leadership. Students who major in exercise science often pursue such diverse fields as physical therapy, medical school, sport medicine, corporate fitness and cardiac rehabilitation. Both majors require the same capstone course (PE 4899), which requires students to research a topic, write a well-documented paper and present it before a group of their professors and peers. All physical education and exercise science majors are required to complete the 43 credits of core courses, as well as an additional 29 credits that are unique to their major.

Admission and GPA Requirement

Students wishing to major in physical education or exercise science must complete at least 43 quarter credits of college coursework with a minimum 2.5 GPA, including 9 credits taken at SPU that apply to the major or minor.

Requirements for the Majors

Refer to pages 60–62 for a summary of degree requirements.

Core Courses

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<tr>
<th>Course ID</th>
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<tr>
<td>BIO 2129</td>
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<td>BIO 2130</td>
<td>Human Anatomy and Physiology</td>
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<td>PES 1301</td>
<td>Wellness</td>
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<td>PES 2195</td>
<td>Philosophy of Health and Physical Activity</td>
<td>5</td>
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<td>PES 2550</td>
<td>Safety and First Aid</td>
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<td>PES 3560</td>
<td>Social-Psychological Aspects of Activity</td>
<td>4</td>
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<td>PES 3570</td>
<td>Biomechanics</td>
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<td>PES 3580</td>
<td>Exercise Physiology</td>
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<tr>
<td>PES 4899</td>
<td>Contemporary Issues in Health and Fitness</td>
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Total 43

Requirements for the Physical Education Major

72 credits; 35 upper-division

Core courses

<table>
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<tr>
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<tr>
<td>PES 2614</td>
<td>Teaching Team Sports</td>
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<tr>
<td>PES 2615</td>
<td>Teaching Leisure Activities</td>
<td>2</td>
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<td>PES 2617</td>
<td>Teaching Individual Sports</td>
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<td>PES 2647</td>
<td>Teaching Health and Fitness</td>
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<td>PES 2555</td>
<td>Community Health</td>
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<td>PES 3510</td>
<td>Teaching Health and Physical Education</td>
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<tr>
<td>PES 3545</td>
<td>Programs for Special Populations</td>
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<tr>
<td>PES 3575</td>
<td>Motor Learning and Development</td>
<td>4</td>
</tr>
<tr>
<td>PES 4575</td>
<td>Coaching and Training Seminar</td>
<td>4</td>
</tr>
</tbody>
</table>

Total 29

Note: For teacher certification, refer to the School of Education section of this Catalog for admission requirements and details.

Requirements for the Exercise Science Major

72 credits; 41 upper-division

Core courses

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CHM 1211</td>
<td>General Chemistry</td>
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<tr>
<td>CHM 1330</td>
<td>Organic and Biological Chemistry</td>
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<tr>
<td>FCS 3340</td>
<td>Human Nutrition</td>
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<td>FCS 4310</td>
<td>Nutrition in Sports and Exercise</td>
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<td>FCS 4585</td>
<td>Applied Exercise Science</td>
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<td>PES 4000</td>
<td>Exercise Science Practicum</td>
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<tr>
<td>PES 4040</td>
<td>Internship</td>
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<tr>
<td>PES 3545</td>
<td>Programs for Special Populations</td>
<td>3</td>
</tr>
<tr>
<td>PES 4575</td>
<td>Coaching and Training Seminar</td>
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</tr>
</tbody>
</table>

Total 29

Fitness Competency Requirement

Prospective majors in both exercise science and physical education are required to achieve a satisfactory score in each of the six areas of the Fitnessgram or complete a department-approved fitness program prior to being officially admitted.

Requirements for the Minors in Physical Education

37 credits; 15 upper-division

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PES 1301</td>
<td>Wellness</td>
<td>5</td>
</tr>
<tr>
<td>PES 2195</td>
<td>Philosophy of Health and Physical Education &quot;W&quot;</td>
<td>5</td>
</tr>
<tr>
<td>PES 2550</td>
<td>Safety, First Aid and Sport Injury Management</td>
<td>4</td>
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</tbody>
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