University of Washington Summer Quarter

Full Term: June 23-August 22
Term a: June 23-July 23
Term b: July 24-August 22

AUW Educational Outreach Program
Welcome to UW Summer Quarter

Dear Prospective Summer Student,

Summer Quarter at the University of Washington offers a diverse selection of courses to make your summer challenging and enriching. By taking summer courses, you can make progress toward your degree, and take advantage of over 1,000 courses offered in 100 different fields of study.

Summer Quarter is an important part of the University's commitment to increasing access to educational opportunities. We are dedicated to sharing the University's extensive resources and meeting the educational needs of our community. With fewer students enrolled during the summer, class size is often smaller, and you are likely to have access to classes which, during the regular school year, can be difficult to get.

Many of the UW's best faculty, and experts from around the country and abroad, bring a special vitality to the campus each summer. Short workshops and special institutes are offered only in the summer, making for a dynamic educational program. For example, you can earn a year's language credit in nine weeks by completing an intensive summer language course.

A broad range of summer courses are available to professionals in the community, and both graduate and undergraduate classes are offered on the Seattle campus, at UW Bothell and at UW Tacoma. In addition, summer programs are available for incoming UW freshmen and high-achieving high school students who wish to accelerate their academic careers at the University.

I encourage you to take advantage of all the resources the University has to offer this summer.

Sincerely,

Richard L. Lorenzen
Vice Provost for Educational Outreach
University of Washington
Summer Quarter Quick Reference

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How to apply and register*

1. Complete the application on the inside back cover.
If you have already applied for Summer/Autumn admission as a matriculated student, do not complete this form.
2. Mail the application with a nonrefundable application fee of $35 (please attach a check in U.S. funds made payable to the University of Washington). Applications will be processed as soon as possible. However, due to the volume of applications received, processing time may take four to six weeks. After June 1, applications must be submitted in person.
   - If you have never attended UW credit classes, mail application to:
     University of Washington
     Office of Undergraduate Admissions
     320 Schmitz Hall
     Box 35840
     Seattle, WA 98195-5840
   - If you have previously attended UW credit classes and have been assigned a student I.D. number, mail application to:
     University of Washington
     Registration Office
     225 Schmitz Hall
     Box 35850
     Seattle, WA 98195-5850
3. You may register by touchtone telephone as soon as you receive notification of acceptance but no later than April 30, 1997. For STAR registration schedule and instructions, see pages 130-131.
See Admissions, pages 132-137, or call Summer Quarter Academic Advising, (206) 543-6160, for additional information.
* Continuing UW students currently enrolled for Spring Quarter 1997 or students who completed Winter Quarter 1997 and took Spring Quarter off do not need to apply for Summer Quarter. Use the Summer Quarter Bulletin and Time Schedule and register by STAR the same way as for any other quarter.

Important dates for Summer Quarter 1997

| APRIL 28 | STAR registration by phone begins for graduating seniors or postbaccalaureate students with degree applications on file (see registration schedule, page 138, for details) |
| APRIL 30 | STAR registration by phone begins for all other students (see registration schedule, page 138, for details) |
| JUNE 1  | Last day applications accepted by mail; later applications accepted in-person only |
| JUNE 23 | Full term and a term classes begin; students billed for Summer Quarter tuition |
| JUNE 23 | $25 late fee assessed to register late for full and a term; July 24 for b term |
| JUNE 30 | $20 change fee assessed to add, drop or change a course for full and a term; July 31 for b term. Additional tuition or tuition forfeiture may also be charged. |
| JULY 4  | Independence Day holiday |
| JULY 7  | $75 late fee assessed to register late for full and a term; July 31 for b term. Registration by Late Add Petition only. |
| JULY 11 | Tuition payment deadline |
| JULY 23 | a term ends |
| JULY 24 | b term begins |
| AUG. 22 | Full term and b term end |
For other application deadlines and important dates, please refer to the Quick Reference Guide to Quarter Deadlines, pages 130-131, of this bulletin. Information is provided for full-term as well as a and b term courses.

Quick Reference Guide to Quarter Deadlines

For a complete list of application deadlines, registration periods, last fees and dates to add, drop or withdraw from courses, be sure to check the Quick Reference Guide to Quarter Deadlines on pages 130-131 of this bulletin. Information is provided for full-term as well as a and b term courses.

Summer Quarter 1997 sessions

Short, four and one-half week a and b terms are available during Summer Quarter. Some even shorter workshops are offered; dates for these are included with listings in this announcement.

June 23-August 22: Full Term
- June 23-July 23: a Term
- July 24-August 22: b Term
Students: The University of Washington is committed to promoting respect for the rights and privileges of others, understanding and appreciation of human differences and the constructive expression of ideas. This commitment is supported by federal and state laws and University policies prohibiting discrimination on the basis of:

- Age
- Creed
- Color
- Disability
- Sex
- Marital status
- National origin
- Race
- Religion
- Sexual orientation
- Status as a disabled veteran
- Vietnam era veteran

If you believe you have been discriminated against on the basis of one or more of the factors listed above, the circumstances should be reported to:

- University Complaint, Investigation and Resolution Office, 1415 NE 45th St., Room 405, Box 354863, 616-2028, TTY 616-4797
- University Ombudsman, 543-6028
- Ombudsman for Sexual Harassment, 543-0283
- 301 Student Union Building

- Office of the Vice President for Student Affairs, 476 Schmitz Hall, 543-4972
- Washington State Human Rights Commission, 464-6500, TTY 587-6168, TDD 1-800-300-7625
- U.S. Department of Education Office for Civil Rights, 220-7900, TTY 220-7907

The University of Washington Student Conduct Code obligates students to:

- Practice high standards of academic and professional honesty and integrity;
- Respect the rights, privileges and property of other members of the academic community and visitors to the campus, refraining from actions which would interfere with University functions or endanger the health, welfare, or safety of other persons; and
- Comply with the rules and regulations of the University and its schools, colleges, and departments.

Violations of these standards may result in a variety of disciplinary actions, including suspension or permanent dismissal from the University.

Copies of the Code may be obtained from 476 Schmitz Hall.
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APPLICATION inside back cover

Refer to the Index on pages 167-168 for detailed listings.
A summer-only application can be found on the inside back cover.
The University of Washington offers one of the nation's largest Summer Quarter programs. Courses are offered for continuing students who wish to make progress toward their degrees, students from other universities, educators at all levels, and working adults seeking new knowledge for career advancement.

Class size is typically smaller during Summer Quarter. Many of the UW's best faculty teach in the summer, and experts from around the country and abroad serve as visiting faculty. Summer students can earn up to a year's language credit by completing an intensive language course, or concentrate on a difficult course.

Get Your Questions Answered at the HUB
Representatives from the Summer Quarter Office will have a table at the HUB on Wednesdays from 11 a.m.-2 p.m. from April 16-May 28. Drop by with your questions.

Complete the W Requirement
UW students planning to take majors in the College of Arts and Sciences who started college in Autumn Quarter 1985 or later must complete 10 credits of W designated courses. Some other undergraduate majors also require W courses which include a substantial amount of writing. Almost any department can offer W courses. The following summer courses have been designated as W courses. For some courses, only certain sections fulfill the W requirement. Please refer to the Time Schedule section, pages 85-129, for details.

Anthropology (ANTH) 301, 358, 434
Architecture (ARCH) 460
Chemistry (CHEM) 299, 499
Communications (CMU) 328
Drama (DRAMA) 302
Economics (ECON) 460
English (ENGL) 200, 242, 497, 498
French (FRENCH) 301, 302
History (HIST) 498
Psychology (PSYCH) 231, 232, 233, 417, 419
Political Science (POL S) 447A
Sociology (SOC) 110, 405
Spanish (SPAN) 302
Speech and Hearing Sciences (SPHSC) 350
Women Studies (WOMEN) 405, 454
Zoology (ZOOL) 451

Courses for Educators
Many special programs are available for educators working to satisfy requirements for certification and endorsements. More than 50 College of Education courses and workshops are offered, plus content classes in subjects as diverse as literature, history, math and science. For details about courses for educators, see pages 53-61.
Summer Tuition

In-state tuition applies for all summer students including nonresidents, except for courses offered by the medical and dental schools. Summer Quarter tuition for 1997 had not been determined at press-time. Summer 1996 tuition was $1,074 for a full-time undergraduate load (10 or more credits) and $1,163 for a full-time graduate load (seven or more credits). Summer 1996 tuition for full-time medical and dental students (taking 13 or more credits) was $2,767 for residents and $7,039 for nonresidents. In addition to tuition, students pay a technology fee. See page 146 for details.

About Seattle and the UW Campus

Seattle's weather is almost always pleasant during the summer. So, besides your studies, Summer Quarter is a perfect time to enjoy many Seattle area attractions such as ferry cruises, the Pike Place Market, Golden Gardens, and Pioneer Square. Great places to hike, bike, fish and have a picnic are nearby, Woodland Park Zoo, Green Lake, Alki Beach, Seattle Center for plays, the symphony, ballet and opera, the Kingdome for major league baseball, and the Waterfront Activities Center on the UW campus are other popular summertime places. To learn more about Seattle, visit the following Web sites:

- http://www.seattlesquare.com
- http://www.cyberspace.com/bobk

Summer in Seattle

Complete Your Language Requirement

The University of Washington offers one of the nation's largest summer intensive foreign language programs. Students may earn up to a year's worth of language credit in nine weeks. Intensive courses are offered in the following languages:

- Arabic
- Bengali (Indian)
- Japanese
- Kazakh (Turkic)
- Korean
- Latin
- Norwegian
- Portuguese
- Russian
- Spanish
- Swahili
- Swedish
- Tajik (Persian)
- Turkish
- Uzbek (Turkic)

Because some intensive courses fill rapidly, you are encouraged to register as early as possible.

There are also non-intensive courses in the summer in the following four languages:

- French
- German
- Italian
- Spanish

Language courses are listed under the appropriate language department in the course listing section, pages 8-84.
Study with Leading Research Faculty This Summer

The University of Washington is one of the nation’s leading research institutions, consistently ranking among the top universities in grants and contracts for research. Since 1969, the UW has been among this country’s top five educational institutions in receipt of federal research funds, ranking first among public universities in the most recent years for which government figures are available. Grants to the UW support research and training programs in basic and applied sciences, and the arts and humanities.

UW research programs benefit students attending the University, as well as the state of Washington and the nation. These programs enhance the learning environment, providing invaluable training for graduate and professional students and numerous opportunities for undergraduates. UW researchers have won numerous professional honors, including Nobel prizes in medicine and physics. Adding to its long tradition of balancing both basic and applied research activities, the UW is becoming much more active in technology transfer, transferring the results of its research from the campus to the marketplace for public benefit.

Take Advantage of Science Resources this Summer

There are many science-related courses on the summer schedule. For science offerings, please see the course listings for the adjacent departments. You may also be interested in Science-related Courses for Teachers, page 53, and science courses through UW Distance Learning, pages 160-163.
Visiting Faculty Share
Their Knowledge and Research

College of Arts and Sciences

English
Ranga Zinyemba, M.A., University of Rhodesia; M.Ph., University of Waterloo, Ontario, Canada; Ph.D., University of Alberta, Canada; Registrar and Lecturer (English), University of Zimbabwe, Harare, Zimbabwe
ENGL 316: Literature of Developing Countries

History/International Studies
Ilkay Sunar, Ph.D., University of California, Berkeley; visiting professor from Bogaziçi University, Istanbul, Turkey
HIST/SIS 48: Alternative Routes to Modernity

Music
George DeGraffenreid, Ph.D., University of Washington; Professor, Fresno State University
MUSIC 431: Curriculum in Music Education

Political Science
David Camacho, Ph.D., University of Washington; Associate Professor, Northern Arizona University
POL S 303: Public Policy Formation in the United States

Steven Livingston, Ph.D., University of Washington; Associate Professor and Director of Political Communication Program, George Washington University
POL S 605: Special Topic: The Media and Foreign Policy

College of Education

Kathryn Au, Ph.D.; faculty, Department of Education, University of Hawai'i
EDC&l 505A: Literacy Instruction in Multicultural Settings

Peter McLaren, M.Ed., Brock University, Canada; B.A., Waterloo University, Canada; Professor of Education, University of California, Los Angeles
EDC&l 505D: Critical Perspectives on Multicultural Education

Bruce Saunders, Ph.D., University of California, Berkeley; former faculty member, University of Washington
EDC&l 505B: Teaching Limited English Proficient Students Across the Curriculum

The Graduate School of Library and Information Science

Patricia Harris O'Connor, J.D., University of Texas, Austin; M.L.S., University of Oklahoma; Director of the Law Library and Associate Professor of Law, University of Missouri-Kansas City
LIBR 577: Law Library Administration

Herman Totten, M.L.S., Ph.D., University of Oklahoma; Regents Professor, University of North Texas
LIBR 598B: Information Resources and Services in Culturally Diverse Communities

Graduate School of Public Affairs

Daniel Carlson, researcher, Institute for Public Policy and Management, and planning consultant
PBAF 565: Topics in Urban Affairs: New Approaches in Transportation Policy and Practice

Christine Fielden, Director of Development, Seattle Repertory Theatre
PBAF 590: Arts Administration

Victor B. Flatt, J.D., head, environmental law program, Georgia State University College of Law
PBAF 505: The Law of Public Administration

David Johnson, Executive Director, United Way-sponsored community mental health center.
PBAF 598B: Skills Workshop: Personal and Career Development Strategies

Anne Pflog, MBA, is a city manager who has served in several Northwest cities as the chief executive or chief operating officer.
PBAF 598U: Skills Workshop: Contracting Out Public Services

Michael Shadov, Ph.D., University of Illinois. Shadow prepares public sector leaders for presentations, public appearances and media interviews.
PBAF 598A: Oral Communication for Public Administrators

The University of Washington's experienced and award-winning faculty, along with guest experts from around the country and abroad, share their knowledge and research with students each summer. The UW is proud to announce the following visiting professors for Summer Quarter 1997.
Guide to Course Descriptions

Course titles and descriptions are arranged in alphabetical order by college and school; academic departments are listed alphabetically within the appropriate college. The Time Schedule section of this bulletin, pages 85-129, contains the dates and times you need to plan your schedule, and the schedule line number (SLN) used when registering by phone using STAR. For further information, contact the appropriate department.

See the Time Schedule section, pages 85-129 for class dates and times.

Credits
The University of Washington is on the quarter system. The credit listed for each course is the quarter credit. Semester credits multiplied by 1.5 equal quarter credits; quarter credits divided by 1.5 equal semester credits. Credit is given for full-quarter courses only when the entire quarter is completed. Some courses may be repeated for additional credit during subsequent quarters or terms; in this case, the maximum number of credits that may be earned is stated (e.g., 2, max. 8).

Course listing system
Most course listings include course number, title, credits given (specific or variable), a description and statement of subject matter and method, and any prerequisite required. Independent study courses and seminars or other courses offered on a special-arrangement basis with the department are shown at the end of the regular departmental listing. For details about courses offered by special arrangement, consult the Time Schedule section of this bulletin or the department.

Courses numbered from 100 through 299 are lower-division courses normally for freshmen or sophomores; those numbered from 300 through 499 are upper-division courses normally for juniors, seniors and postbaccalaureate students. Courses numbered 500 and above are generally restricted to graduate students. Undergraduate, postbaccalaureate and nonmatriculated students who wish to register for 500-level courses must obtain permission from the instructor of the class, departmental chairperson or other designated person.

When acceptable to the major department and the Graduate School, approved 400-level courses may be applied as graduate credit in the major field, and approved 300-level courses may be applied in the supporting field(s). A student of senior, postbaccalaureate or nonmatriculated standing who wishes to register for a 500-level graduate course must obtain permission from the instructor of the class and the departmental chairperson or designated representative.

Graduate courses
Graduate courses numbered 600, 601, 700, 750 and 800 are restricted to students in the Graduate School. They appear by number and title only where applicable under the department course listings in this catalog. Call the sponsoring department for more information.

Key to symbols and abbreviations

- Class meets a term: June 23-July 23. No symbol: class meets full term.
- Class meets b term: July 24-Aug. 29. No symbol: class meets full term.
- W: Fulfills "W" course requirement
- (G): Fulfills English Composition general education requirement
- (IS): Fulfills Individuals and Societies general education requirement
- (NW): Fulfills Natural World general education requirement
- (QR): Fulfills Quantitative and Symbolic Reasoning general education requirement
- (VLPA): Fulfills Visual, Literary and Performing Arts general education requirement

(2, max. 8)
- The first number is the number of credits that may be earned in a single quarter or term. The second is the maximum number of credits that may be earned by repeating the course.

(1-5) Varying number of credits per single quarter or term. Specific number may be determined by consultation with instructor or advisor.

(*) Variable credits. Call the sponsoring department for more information.

CR/NC only
- Course offered for credit/no credit grading only.
College of Architecture and Urban Planning

208 Gould Hall, Box 355720
Telephone: 543-4217

The College of Architecture and Urban Planning offers several summer courses for beginning students, including Appreciation of Architecture II (ARCH 151), Architectural Sketching (ARCH 415), Introduction to Architectural Design (ARCH 498A), and Introduction to Architectural Photography (ARCH 498U).

Architecture (ARCH)

208 Gould Hall, Box 355720
Telephone: 543-4180

151 Appreciation of Architecture II (3) VLPA
Historical survey of the architecture of Western civilization. For nonmajors.

340+ People-Environment Interactions (3) I&S
Lecture and discussion on the dynamics of people-environment interactions. A spectrum of environmental scales and cultural contexts addressed. Builds on the theoretical and empirical work in the field and relates to studio design work in 303.

370 Computers in Architecture (3)
Laboratories, lecture and demonstrations to introduce computing in environmental design and planning. Prerequisite: ENV S 203 and 205 or permission of program director.

403 Architectural Problems (6)
Various studio problems in nonresidential building design to develop basic skills in the synthesis and integration of building form. Prerequisite: 302 or permission.

415 Architectural Sketching (3)
Exercises in freehand representational drawing using charcoal, graphite and conte crayon with emphasis on line, proportion, values and composition. Studies progress from geometric to nongeometric forms.

420 Structural Design I (4)
Reinforced concrete fundamentals. Prerequisite: 322.

452A Characteristics of Puget Sound Architecture and Towns (3) I&S
Puget Sound architectural and town environment in terms of its historical development, but specifically including recent and pending changes affecting this environment in significant ways.

460W Design Theory and Analysis (3) VLPA I&S
Problematical nature of philosophies of architecture; interaction of philosophical concepts and architectural form and expression. Fundamentals of architectural criticism.

478 Architectural CAD Systems (4)
Development, use and limitations of architectural computer-aided design systems in the professional office. Lectures, readings and exercises utilizing the college's CAD system as well as other computers. Prerequisites: 411 and CAUP 270.

498 Special Projects (3-6, max. 12)

A. Introduction to Architectural Design (8)
An introductory course for students considering a curriculum in architectural studies, and possibly a career in architecture. The University of Washington, situated in Seattle, offers an extraordinary site and a vital architectural design community. Students will study architecture through first-hand experience with actual sites, buildings and materials. Basic design skills will be developed in an intensive design studio setting. The discipline of architecture will be explored broadly in basic design exercises, lectures and seminars.

B. Introduction to Structural Behavior (4)
Introduces the prospective architecture or construction student to basic structural behavior and concepts. Focuses on identifying and examining structural systems, sub-systems, and components in a conceptual, non-numerical manner. A graphical technique (used by Leonardo da Vinci, Callero, and others) to analyze and understand forces within a structure will be introduced. Class format will consist of lectures, model demonstrations, slides and testing of student-built projects. Students completing this course develop a general structural vocabulary and a familiarity with the elementary aspects of structural behavior.

U. Introduction to Architectural Photography (5)
Students learn to visually explore architecture and the built environment, while acquiring thorough knowledge of the elementary aspects of structural behavior.

X. Sustainable Building Materials (3)
Architects are increasingly challenged by the demands of environmental considerations in projects. The goal of this class is to develop a framework within which material choices for building projects can be made. The criteria that must be evaluated in choosing materials increases as the knowledge of the environmental impact associated with the production, use and disposal of building products increases. In moving towards a sustainable design paradigm, understanding the interrelated nature of resource conservation, indoor air quality and energy efficiency is a critical step for a designer evaluating new alternative products. The framework to evaluate building materials developed in the first half of this course will be used as part of a student project to be completed in the course's second half.

506 Advanced Architectural Studies (6)
Advanced experimental studies dealing with significant architectural relationships that involve scholarly investigation, development and presentation of results. Majors only.

560 Graduate Seminar on Architectural Theories (3)
Recent developments in architectural theory, urban design theory, criticism and the methodology of criticism.

596 Fieldwork in Professional Practice (*, max. 9)
On-location study under the supervision of a practicing professional involved in an aspect of environmental design. Credit/no credit only. Prerequisite: entry code.

Courses by special arrangement
Undergraduate Research, Independent Study or Research, Master's Thesis

Community and Environmental Planning (CEP)

410 Gould Hall, Box 355740
Telephone: 543-4190

498* Special Topics (1-9, max. 15) I&S
D. Individualism, Work and American Communities (3)
Explore the nature of "work" as a means to understand our notions of individuals and community. How does work make and sustain community, contribute to democratic action and civic traditions and provide for what Simone Weil termed a rootedness in a place as "the most important and least recognized need of the human soul?" Some of the myths of individualism will be examined under the lens of work. The course will draw on a wide range of literature including Adele Crockett Robertson's The Orchard, an account of sustaining the family farm in New England between 1932 and 1934, and Ed Hil's Shadow of the Mountain, an account of the Civilian Conservation Corps.

U. International History of Environmentalism II (3)
This course will compare contemporary environmental movements in an international context, exploring the history and meaning of environmentalism as a movement for social change. The focus will be on nonprofit community-based en-
viremental activism. The starting point for comparison will be the political, economic and industrial conditions where environmentalism is most likely to occur.

V. Environmental Internships/Field Studies Practicum (1-5)
There are two ways to meet the internship/field studies requirement. Students must either be already engaged in a paid or volunteer environmental job or internship. Students who wish to use the course to set up an international environmental internship for a future quarter or the following summer should contact the instructor for a field studies waiver. For help in locating an internship, please contact the UW’s Carlson Leadership and Public Service Office, 543-2618. During summer quarter only, possible combined enrollment in CEP 498 U, CEP 498 V and CEP 498 W for 15 credits intensive environmental studies.

498 Special Topics (1-9, max. 15)
I&S
A. Environment, Culture and Identity (5)
This course explores the themes of environmental crisis, social and cultural responses to eco-crisis, and the emergence of individual “ecological” identities. How an individual’s sense of place, nature and self influences personal choices, professional ambitions and political actions are examined. Topics include: environmental justice, deep ecology, ecofeminism, and sustainability. Students will participate in on-site group project work (in Seattle) that relates to local environmental issues and “ecological” identity building.

G. Bricoleurs Studio: Applied Learning in Community, Environment and Planning (5)
This Bricoleurs course will be structured as an interdisciplinary and collaborative studio experience to draw students together from disciplines associated with community and environment to focus on selected community-based projects. Students will work in small teams with community members taking on the role of bricoleurs—making sense of what a situation needs and assembling a way to work with the make-shift equipment and spare parts of their experiences and knowledge. Projects may include non-profit, grass-roots efforts, interaction with Seattle’s green environment, Central Area youth and environmental improvements.

498A Special Topics (1-9, max. 15)
I&S
E. Field Studies in Individualism, Work and American Communities (3)
This class extends the 1 term CEP 498 D through field-based experiences and reflective learning. Schedule will be determined by the participants. Prerequisite: CEP 498 D or permission of the instructor.

F. Alaska Field Studies (3 or 5)
Travel to Sitka and Southeast Alaska bioregion for interpretation of natural systems, history, culture, settlement patterns and current issues of community leaders and planners. Three credits for the Field Study alone, including preparatory workshop and individual assignments prior to departure. Five credits for undertaking significant background work and planning with instructors prior to Field Study and for preparing follow-up documentation/presentations upon return.

W. Environmental Internships/Field Studies Practicum (1-5)
See CEP 498 V for expanded description.

Construction Management (CM)
116 Architecture Hall, Box 351610
Telephone: 543-6377
The Department of Construction Management offers a series of basic introductory courses for undergraduates and graduates. The introductory courses emphasize the fundamentals of the processes, practices, materials and techniques related to the construction industry. A Master’s Degree in Construction Management is offered through the UW Evening Degree Program. See page 77 for details about the two evening degree courses offered this summer. Please contact the department for additional information.

310 Introduction to the Construction Industry (3)
Introduction to the construction process, including general overview of organization, relationships, practices, terminology, project types, procurement methods, industry standards, contract documents, and career opportunities. Prerequisite: CEP 498 W. Open to nonmajors on a space-available basis.

313 Construction Methods and Materials I (4)
Review of basic building materials, with emphasis on techniques for assembly and utilization in residential and light construction, including materials such as concrete, brick and wood. Prerequisite: CEP 498 W. Open to nonmajors on a space-available basis.

320 Construction Contract Documents (3)
Introduction to working drawings, specifications, and other documents designed to enable the student to read and interpret complete sets of contract documents for residential and light commercial projects. Emphasis on the organization and uses of architectural engineering drawings and specifications in the construction process. Prerequisites: ENGR 123 or equivalent, and entry code.
Course by special arrangement
Independent Study

Landscape Architecture (L ARCH)
348 Gould Hall, Box 355734
Telephone: 543-9240
The Department of Landscape Architecture offers a wide range of courses in an attempt to meet the needs and interests of continuing undergraduates, graduates and professionals.

300 Introduction to Landscape Architecture (6) VP LA
The course includes studio instruction, lectures, field trips and one-day workshops. Students work on a variety of design projects in which they conduct site analysis and produce drawings to convey design, verbal communication, behavioral analysis of design users, and the design process.

406 Individual Design Studio (6)
Senior projects in landscape architecture vary according to students’ particular emphasis and needs. Majors only.

476 Professional Practicum (3-6)
PRACTICUM course for landscape architecture majors, providing internship and exposure to the profession with working experiences at various levels of professional endeavor. Credit/no credit only. Majors only.

498S Special Projects (1-10, max. 30)
A. Multi-Media Studio (6)
The technology of image display for professional presentation is changing dramatically. The Multi-Media Computer Studio enables students and professionals to stay abreast of current developments. Advanced still image processing and video image processing techniques are demonstrated in the Hyper-Media Computer Lab. Existing photographic images are manipulated and converted into a presentation format.

498S Special Projects (1-10, max. 30)
B. Introductory CAD (3)
This introductory course covers the development, use, and limitations of landscape architectural computer-aided design in the profession. Students perform exercises and develop CAD drawings in the college’s CAD Lab. Course includes lectures, readings and consultation during labs.

C. Sustainable Garden Design: “Living Lightly” in Seattle (3)
Too often, today’s garden spaces do little to promote positive physical, intellectual and spiritual connections between their users and the earth. These gardens are neither sustainable nor do they sustain those for whom they are designed. This design studio is open to anyone interested in creating a resonance between themselves, their garden spaces and the world. For complete details, see box on next page.
D. Sustainable Design/Build Studio (6)

This studio will work with a local community to design and build a sustainable project that is multi-disciplinary in nature. Students from all design disciplines are encouraged to apply as are other students with an interest in sustainability. The studio will integrate theoretical discussion, design and construction. Issues of materials, processes and principles will be addressed throughout the project. A diversity of student experience is desired; those with backgrounds in sociology, childhood learning, and fine arts and others are encouraged to register. The site/sites are local and are selected for their opportunities to explore issues of sustainability. This course is offered college-wide for undergraduate and graduate students. Class will meet three days a week.

Courses by special arrangement
Undergraduate Research, Independent Study or Research, Graduate Internship, Master’s Thesis

Urban Design and Planning (URBDP)
410 Gould Hall, Box 355740
Telephone: 543-4190

The Department of Urban Design and Planning is offering a series of courses emphasizing tools and skills used in the practice of urban design and planning and related activities. Courses are open to undergraduates, graduates and professionals who want to expand their knowledge base and skill level. Short and fast-paced, these courses may be taken in the evening or during a long lunch break.

498 Special Topics (1-9, max. 15)

A. Land Use and Water (3)

The objective of this course is to explore the complex relationship between land use and the hydrological cycle. Land use is water dependent and water impacting. The challenge for environmental planning is to balance land use and water use. The appropriate application of analytical methods to the understanding of the hydrological cycles is the framework for considering topics such as the availability of surface and ground waters, competing demands, and quantity/quality relationships. Key regulations and guidelines will be introduced by guest speakers experienced in their fields.

B. Site Planning for Subdivisions and Planned Unit Developments (4)

Planning in a small town can provide a planner with a diversity of experience not often found in larger jurisdictions. Site planning for subdivisions and planned unit developments can be described as the art of arranging building sites on the land and shaping the spaces between. This course has been designed to provide “hands-on” experience in designing subdivision and planning unit developments. Taught by practicing site planners, the course will develop a step-by-step methodology leading from conceptual design and permitting through project construction. Please note: two full-day Saturday field trips are required.

C. New Approaches in Transportation Policy and Practice (3)

Transportation provides mobility for people and goods. It also affects land uses and determines community form. This course explores changes in national transportation policy and local and regional implementation practices. Emphasis is placed on examples which move us toward holistic national transportation policy and local and regional implementation practices, where land use and community impacts are understood, anticipated and integrated as part of the policy and implementation approach.

498 Special Topics (1-9, max. 15)

G. Introduction to GIS and Desktop Mapping (3)

Introduction to the underlying concepts and uses of Geographic Information Systems (GIS). Emphasizes understanding the usefulness of the program and recognition of planning problems and applications. Lectures and hands-on computer work will focus on what components make up a GIS, the nature of relational databases, and the use and misuse of thematic maps. Open to all majors, but urban design and planning, architecture, landscape architecture and geography majors are especially encouraged to apply. Some basic experience with PCs is preferred but not required.

H. Planning Communities in Less Developed Countries (3)

Examine how planning practice changes across cultures. The problems and practices of Third World urban planning practitioners are in many ways distinct from the issues faced by their First World counterparts. Participants explore trends in demographics, infrastructure, housing, social services, economics and the environment. Indigenous and “imported” techniques and solutions will be discussed. Students should come ready to discuss their experience and ideas.

I. Urban Design for Non-Designers (3)

This course is intended to increase the vocabulary and useful applications of urban design principles, elements, and relationships for students and practicing professionals in the field of urban planning. Participants will learn how to better facilitate multidisciplinary urban design projects; conduct urban design assessments of existing conditions; understand urban design recommendations from specialists; and interpret and apply design guidelines and standards as a part of design review.

SUSTAINABLE GARDEN DESIGN: LIVING LIGHTLY IN SEATTLE

- June 23-August 22
- 1 ARCH 498C: 3 credits

Too often, today's garden spaces do little to promote positive physical, intellectual and spiritual connections between their users and the earth. These gardens are neither sustainable nor do they sustain those for whom they are designed. This design studio is open to anyone interested in creating a resonance between themselves, their garden spaces and the world. Previous design experience is not required.

Principles of sustainability, or “living lightly on the land,” will be explored and applied to small-scale garden designs with the intent that such gardens will foster holistic connections between people and the land.

The studio course is intended for novices and designers. The class includes three components:

- Design of participant's garden
- Discussion sessions focused on sustainability, materials and design
- Site visits/guest lecturers with a focus on built projects that reflect sustainability
498A Special Topics (1-9, max. 15)

D. Indicators of Urban Sustainability (3)

This course examines alternative approaches to develop and select indicators of sustainability at various scales—community, city, metropolitan, national and regional. An urban (eco) system approach is proposed to identify sustainability indicators for urban communities. The course will review conceptual and methodological problems and issues of data availability and quality. Examples of indicator sets that will be examined include: the United Nations Commission for Sustainable Development, the United Kingdom Local Government Management Board and Sustainable Seattle. Students will participate in selecting and applying indicators to monitor key urban sustainability issues in selected communities.

E. Nonprofit Planning and Development at the Grassroots (3)

Explore the significance of nonprofit (third sector) organizations, in terms of planning and development in the U.S. Examine the current relationships between nonprofit, governmental and free market (second sector) institutions. Through readings and discussions study how the third sector relates to concepts of the civil society and vernacular planning. Investigate third sector organizations in our region. How local nonprofits deal with issues such as housing, economic and community development, and environmental protection will be examined. Search for opportunities to work with and for local nonprofits. Through individual research projects and presentations, participants will collectively develop an understanding of the forces currently working for and against grassroots, nonprofit initiatives.

F. University District Neighborhood Planning Studio (3)

This studio will focus on the U-District, one of the urban centers designated by the Comprehensive Plan, which is currently beginning Phase II of the neighborhood planning process. This process considers: (a) how the U-District can become a great university district, serving the unique needs of the University community and other users; and (b) how the U-District can become a regional attraction for the city as a whole, capitalizing on its connections to the University. The planning effort will involve land-use issues, such as the zoning for commercial uses and adjacent residential areas; design guidelines for development on the Ave; a commercial development strategy; housing issues; and local transportation issues. Required: land-use course, graduate students only. Recommended for URBDP, GSPA, LARCH, others with land-use knowledge.

Courses by special arrangement

Special Projects, Professional Project, Independent Study or Research, Master’s Thesis, Doctoral Dissertation

401 Junior Seminar: Introduction to Research Techniques (5)
I&S, QSR

Survey of research techniques current in the fields of sociology, political science, history, law and in linguistic approaches to social knowledge. Prepares majors to write senior thesis.

461 Comparative Ethnic Race Relations in the Americas (5) I&S

Through analysis of past and present literature and trends, examines the potential for extinction and/or preservation of ethnicity and ethnic American culture in 21st century America. Offered jointly with SOC 461.

Afro-American Studies (AFRAM)

BS04 Padelford Hall, Box 354380
Telephone: 543-5401

Afro-American Studies is an interdisciplinary program which includes courses in a variety of academic disciplines. These courses broaden knowledge of the Black experience and prepare students for careers in various fields.

150 Afro-American History (5) I&S

Introduction to topics and problems in Afro-American history with some attention to Africa as well as to America. Basic introductory course for sequence of lecture courses and seminars in Afro-American history. Offered jointly with HSTAA 150.

214 Survey of Afro-American Literature (5) VLPa

A chronological survey of Afro-American literature in all genres from its beginning to the present day. Emphasizes Afro-American writing as a literary art, the cultural and historical context of Afro-American literary expression and the aesthetic criteria of Afro-American literature. Offered jointly with ENGL 214.

309 Intensive Basic Swahili (15)

First-year Kiswahili language. Introduces students to Kiswahili and allows them to explore and understand not only the language but also the diverse cultures and customs of the people of East Africa. Provides a basic foundation in speaking, reading and writing. Primary emphasis on basic structures of Kiswahili and its operation.

Course by special arrangement

Undergraduate Independent Study and Research

See the Time Schedule section, pages 85-129, for class dates and times.
See the Quick Reference Guide to Quarter Deadlines, pages 130-131, for important dates and deadlines.
Asian American Studies (AAS)
B501 Padelford, Box 354380
Telephone: 543-5401

205+ Asian American Cultures (5) I&S
Asian American subcultures; evolution of Asian Americans from 1850 to 1950: immigration patterns, evolution of subcultures, evacuation, inter-racial relations, assimilation and signs of social disorganization.

Course by special arrangement
Undergraduate Independent Study and Research

Chicano Studies (CHSTU)
B510 Padelford Hall, Box 354380
Telephone: 543-5401

201A Introduction to Chicano Studies (5) I&S
Selected themes in Chicano experience; studies in Chicano politics and Chicano socioeconomic concerns. Not open to students who have taken CHSTU 102.

391 Independent Study (1-6, max. 10)
Students work individually or in teams. Prerequisite: permission of instructor.

Course by special arrangement
Undergraduate Independent Study and Research

American Indian Studies (AIS)
C514 Padelford, Box 354305
Telephone: 543-9082

110 Musical Traditions of Native North America (3) VLPA
Diverse music traditions of Native North America. Examines historical and contemporary music related traditions within the following areas: Northwest Coast, Arctic, Southwest, Great Basin, Plateau, Plains and Eastern Woodlands. Emphasis on listening, identification and exploration of the relationship between music and culture.

311+ North American Indians: Pacific Northwest (5) I&S
Traditional societies of the Pacific Northwest from southern Alaska to northern California; significant areal features, such as rank, totemic crests, guardian spirits, the potlatch, fishing, and foraging illustrated.

317+ North American Indians: Southwest (5) I&S
Overview of history and ethnography of the Southwest with emphasis on Apaches, Pueblos and Pimas/Yumans. Social organization, religion, world view and expressive culture of specific groups such as Navajo, Hopi, Zuni, Tewa and Papago will be stressed.

Anthropology (ANTH)
M32 Denny Hall, Box 353100
Telephone: 543-5240

Anthropology courses are offered in:
• Socio-cultural Anthropology
• Archaeology
• Biocultural Anthropology

The Department of Anthropology offers courses at introductory and upper-division levels for both majors and nonmajors, as well as courses for teachers, social workers and others interested in cultural and biological variation. Anthropology of the Body (ANTH 305) and Oral Traditions (ANTH 431) are offered through the UW Evening Degree Program. See page 77 for details.

100 Introduction to Anthropology (5) I&S
Introduction to the subfields of archaeology, physical anthropology and sociocultural anthropology through examination of selected problems in human physical, cultural and social evolution. Not recommended for students who have had other courses in anthropology, archaeology or physical anthropology. May not be counted toward the 55 credits required for the major in anthropology.

Courses by special arrangement
Master's Thesis, Doctoral Dissertation

Sociocultural Anthropology (ANTH)

203 Introduction to Anthropological Linguistics (5) I&S/VLPA
Linguistic methods and theories used within anthropology. Descriptive and theoretical linguistics compared; historical linguistics and comparative method; sociolinguistics; language and culture; human language and animal communication compared; survey of history of anthropological linguistics in North America. Offered jointly with LING 203. Not open for credit to students who have taken LING 200, 201 or 400.

204 Reading Ethnography (5) I&S
Introduction to the descriptive and analytic literature of cultural anthropology. Extended examination of representative accounts of the lifeway of peoples from selected areas of the world with an emphasis on methods of observation and analysis.

301+ Human Nature and Culture (5) I&S
Comparison of various anthropological perspectives on the sources of variation in customs, values and beliefs of human groups, including non-Western peoples and contemporary Americans.

* a term: June 23-July 23  
* b term: July 24-Aug. 22  
* No symbol: full term June 23-Aug. 22
See page 8 for key to symbols and abbreviations. Courses listed are subject to revision.
340 Anthropology of Children and Youth (5) I&S
Introduction to the anthropological study of childhood and youth. Surveys ethnographic and theoretical work from educational and psychological anthropology, anthropology of play and language socialization. Addresses recent theoretical and methodological innovations in the study of children and adolescents, informed by social constructionist critiques of child development and socialization paradigms.

352 Buddhism and Society: The Theravada Buddhist Tradition in South and Southeast Asia (5) I&S
Introduction to the religious tradition of Theravada Buddhism (as practiced in Sri Lanka, Burma, Thailand and Cambodia) and examination of the variations in ethical orientations developed through Theravada Buddhist ideas. Recommended: RELIG 202 or knowledge of one Eastern religious tradition. Offered jointly with RELG 350.

371 Political Anthropology (3) I&S
Theories of the development of political forms and of the social structural analysis of political organization. Authority, power and concepts of politics and administration.

375 Comparative Systems of Healing (5) I&S
Introduction to the anthropological study of healing. Examines four healing traditions and addresses their similarities and differences. Includes anthropological theories of healing and religion.

421 Religion, Ritual and the Structure of Religion (5) I&S
Systematic survey concepts, models and theories that characterize the anthropological study of religion. Consideration of the human universal basis of religion and of diverse ways in which religions are constructed and related to social experience. Prerequisites: RELIG 201 and 202.

442 Anthropological Aspects of Communication (5) I&S
Introduction to communicational aspects of culture.

451 Phonology I (4) VLPA/I&S
Speech sounds, mechanism of their production and structuring of sounds in languages; generative view of phonology. Prerequisite: LING 200 or 400, either of which may be taken concurrently, or permission of instructor. Offered jointly with LING 451A.

452A Phonology II (4) VLPA/I&S
Speech sounds, mechanism of their production and structuring of sounds in languages; generative view of phonology. Prerequisite: LING 200 or 400, either of which may be taken concurrently, or permission of instructor. Offered jointly with LING 452A.

456 Contemporary Ethnography (5) I&S
Techniques and theories of ethnographic description for the anthropological analysis of contemporary life. Materials drawn from the contemporary United States, containing events and topics of the Seattle area. Includes fieldwork projects. Prerequisite: permission of instructor.

461A Syntax I (4) VLPA/I&S
Study of the structural properties of language; introduction to generative transformational syntax. Prerequisite: 200 or 400 or permission of instructor. Offered jointly with LING 461A.

489 Anthropology Practicum (3-9, max. 15)
Faculty-supervised off-campus internship in organizations utilizing anthropological skills in non-academic settings. Establishing educationally valuable individual projects for internships with faculty sponsor. Organizations include museums, social service and other governmental agencies and private nonprofit service agencies. Prerequisites: major in anthropology and permission of instructor, entry code.

Courses by special arrangement
Undergraduate Research, Independent Study or Research

ARCHAEOLOGY (ARCHY)

105 World Prehistory (5) I&S
Prehistoric human ancestors from three million years ago: their spread from Africa and Asia into the Americas, survival during ice ages, development of civilizations. Well-known archaeological finds (e.g., Olduvai Gorge; Neanderthals; Jericho; Egyptian pyramids; Mexican temples; Mesa Verde; Ozette, Washington). May not be counted toward the 35 credits required for the major in anthropology.

201 Principles of Archaeology (5) I&S
Techniques, methods and goals of archaeological research. Excavation and dating of archaeological materials. General problems encountered in explaining archaeological phenomena.

303 Old World Prehistory (3) I&S
Old World prehistory from the origins of human culture to rise of civilizations. First tools made by humans out of Africa, origins of agriculture, rise of state society. Africa, Near East, Egypt, China, India, Europe.

304 New World Archaeology (3) I&S
History of earliest Americans, beginning with crossing of land bridge between Asia and North America and eventual spread over the Americas. Highlights prehistory and best examples of western hemisphere's civilizations. Mexico, Yucatan, Peru, southwestern and eastern United States, Washington.

Courses by special arrangement
Undergraduate Research, Independent Study or Research

Biocultural Anthropology (BIO A)

201 Principles of Biocultural Anthropology (5) NW
Evolution and adaptation of the human species. Evidence from fossil record and living populations of monkeys, apes and humans. Interrelationships between human physical and cultural variation and environment; role of natural selection in shaping our evolutionary past, present and future.

487 Human and Comparative Osteology (3) NW
Introduction to the vertebrate skeleton. The skeleton is described in detail and various methods of determining age and sex, as well as osteometry and modern statistical methods for handling such data, are presented. Prerequisite: permission of instructor.

Courses by special arrangement
Undergraduate Research, Independent Study or Research, Internship

Applied Mathematics (A MATH)
412 Guggenheim, Box 352420
Telephone: 543-5493

301 Beginning Scientific Computing (4)
Hands-on introductory survey of computing tools and techniques. Teaches how to use packaged software tools instead of the theory. Prerequisite: MATH 126.

351 Quantitative Methods I (3) NW
Applications of mathematical techniques to problems in the sciences and engineering. Introductory survey of differential equations. Prerequisites: MATH 126, Joint with MATH/OCEAN 351.

352 Quantitative Methods II (3) NW
Development and application of numerical methods and algorithms to problems in the applied sciences and engineering. Applied linear algebra and introduction to numerical methods. Prerequisites: MATH 126 and a programming language. Joint with MATH/OCEAN 352.
353 Quantitative Methods III (3) NW
Applications of mathematical techniques to problems in the sciences and engineering. Emphasis on formulation, solution, and interpretation of results. Introductory survey of differential equations. Examples in physical and biological sciences and engineering. Prerequisites: 351 or MATH 307. Offered jointly with MATH/OCEAN 353.

Courses by special arrangement
Independent Study or Research, Doctoral Dissertation

Art (ART)
104 Art Building; Box 353440
Telephone: 543-0646

The School of Art offers courses in art history, ceramic art, design, drawing, fiber arts, metal design, painting, photography, printmaking and sculpture.

Classes may fill early; there is no assurance that a student will be able to register for a given course. Auditing is not permitted in studio courses. Course entry codes are available in the following locations: undergraduate art and art history in 104 Art; graduate art in 102 Art; graduate art history in 209 Art.

121 Drawing (5) VLPA
Perspective, light and shade, composition.

123 Two-Dimensional Design: Structure and Color (5) VLPA
Exploration of fundamental visual phenomena as defined by relationship and context. Compositional studies that allow for analysis of line, form, mass, tonality and color. Exercises begin with subject interpretation and translation, progress to abstraction, and conclude with a series on variation on a visual theme.

124 Three-Dimensional Design Fundamentals (5) VLPA
Through use of a variety of materials, three-dimensional fundamentals are investigated for formal and conceptual concerns as they apply to the visual arts.

150 Introduction to Industrial Design (5) VLPA
Introduction to ideas, concepts and studio approaches to industrial design. Open to all students. Some background in design helpful.

201 Ceramic Handbuilding (5) VLPA
Introduction to handbuilding, kiln firing and glazing processes. Examination of contemporary sculpture in clay. No prerequisites are required.

202 Ceramic Art: Wheel Throwing (5) VLPA
Introduction to wheel throwing, glazing and kiln firing processes. Contemporary vessel form in clay. No prerequisite required.

224 Introduction to Fibers (5) VLPA
Exploration of the development of cloth as a basis for study of the relationship between materials, meaning and process. Technical skills acquisition designed to allow students to follow a sequential evolution of clothmaking from found object to built and/or embellished object. No prerequisites are required.

230 Introductory Photography (5) VLPA
Introduction to the theory, techniques and processes of still photography. Emphasis on both darkroom procedures and camera use. Projects stress the visual and creative potential of the medium. Students must provide camera with lens, shutter and aperture controls. Students will be required to pay an additional fee for materials.

232 Conceptual Art Studio (5) VLPA
Beginning level conceptual art sculpture studio focusing on non-traditional formats, idea oriented artworks, and performance art.

245 Concepts in Printmaking (5) VLPA
Introduction to contemporary printing methods such as monotype, monoprint, stencil and photography. Survey of historical and current approaches to the art of printmaking. Recommended: some knowledge of drawing techniques.

256, 257 Painting (5, 5) VLPA
Oil painting. Recommended: drawing skills for 256, 256 for 257.

258 Jewelry Design (5) VLPA
Introduction to jewelry design and construction through techniques of sawing, filing, soldering, forging, and casting in silver, copper, bronze and brass, as well as simple stone setting. Recommended: some background in design concepts.

265 Intermediate Drawing (5) VLPA
Studies from the live model for students with some background in fine art drawing.

272 Beginning Sculpture Composition (5) VLPA
Fundamentals of sculpture composition in the round and in relief. Students will work in a variety of media including found object, wood, metal and other non-traditional materials. Recommended: some knowledge of 3-dimensional design.

307 Intermediate Painting (5, max. 10) VLPA
Oil painting for the student who has some knowledge of and experience with oil-based paint. Drawing background also helpful.

321 Furniture Design (5) VLPA
Design of a furniture piece. Methodologies and construction, types of hardware, special shop techniques, scale modeling and full-scale functional designs.

352 Images on Paper (5, max. 10) VLPA
Combines traditional printmaking with drawing and painting. Experimental in nature. Student works with various media and, in translating an image from one medium to another, deals with the unique characteristics of each.

353 Intermediate Ceramic Art (5, max. 15) VLPA
Advanced work in forming, decorating and glazing. Prerequisites: 201, 202 and permission of instructor.

413 Digital Imaging I (5) VLPA
Projects in graphic documentation involving either large or small format photography. Technical, conceptual and historical considerations in documentary photography. Prerequisites: 370, 372 and permission of adviser.

499 Individual Projects-Design (3 or 5, max. 15)
A. Individual Projects

499 Individual Projects-Design (3 or 5, max. 15)
B. Interactive/Computer/Multimedia Design (5)
Knowledge of Macintosh interface and instructor permission required.

C. Contemporary Steelsmithing (5)
Permission of adviser required.

Courses by special arrangement

Art History (ART H)
Photography: Theory and Criticism (ART H 232), Arts of Japan (ART H 321), and Art of the Japanese Print (ART H 420) are offered through the Evening Degree Program. See page 78 for details.

201 Survey of Western Art—Ancient (5) VLPA
Major achievements in painting, sculpture, architecture and the decorative arts in Europe, the Near East and North Africa, from prehistoric times to the beginning of Christianity.

* a term: June 23-July 23  ▲ b term: July 24-Aug. 22  No symbol: full term June 23-Aug. 22 See page 8 for key to symbols and abbreviations. Courses listed are subject to revision.
LITERATURE AND CULTURE OF ANCIENT AND CLASSICAL CHINA

This course will explore the first two thousand years of Chinese literature and culture, beginning with the religious and institutional foundations of the earliest documented period, the Shang dynasty, ca. 1200 B.C., down to the end of the early Middle Ages, with the fall of the T'ang dynasty in the 10th century A.D.

Special attention will be given to the "Golden Age of Philosophy," the intellectual ferment of the period of Confucius, Lao-tzu, Mo-tzu and Chuang-tzu, the unification of the empire in the third century B.C. and the advent of Buddhism in the second century A.D., and the great literary achievements of the early medieval period.

Students will be encouraged to reflect on what the enduring literary and historical legacy of these events has been and to examine their familiarity and knowledge of later periods of Chinese literature and culture in light of the ancient and medieval foundations discussed in class.

309 Topics in Art History (5 max. 15) VLP/A/S
A. The Art and Archaeology of the Roman World (5)
B. Russian Art and Cultural Identity, 1750-Present (5)

An examination of the role played by art in establishing a Russian national cultural identity from the mid-18th century to the present. Format will be lecture/discussion with considerable use of slides, and some use of WWW images. Readings, covering both art history and relevant aspects of intellectual and cultural history, will be in English. Lectures will reflect a great deal of material available only in Russian, some of which will be made available to students with the appropriate language proficiency. Meets with SISRE 490 and RUS 490.

330 Tribal Art and Philosophy (5) VLP/A/S
Philosophical inquiry and thought in African, Ameri-Indian, and Pacific Island societies as expressed through the visual, musical, choreographic, and oral arts. Natural, moral and ethical ideas as expressed in the arts.

486 Abstract Expressionism: History and Myth (5) VLP/A
Thematic and chronological survey of abstract expressionism including major genres of critical interpretation, social and art historical context, and revisionist scholarship. Some knowledge of 20th century art and history recommended.

Courses by special arrangement
Individual Projects, Independent Study or Research, Undergraduate Practicum, Master's Practicum and Thesis, Doctoral Dissertation

Asian Languages and Literature (ASIAN)
225 Gowen Hall, Box 353521
Telephone: 543-4996

Asian Languages and Literature courses are offered in:
- Bengali (Indian)
- Chinese
- Hindi
- Japanese
- Korean

Intensive language courses in Bengali, Chinese, Japanese, Hindi and Korean are offered in concentrated scheduling that enables students to complete up to 15 credits of a foreign language during Summer Quarter.

Also see Office of International Programs and Exchanges, page 77, for information on the Chinese Language Program at Peking University.

201 Literature and Culture of Ancient and Classical China (5) VLP/A/S
Explores the first two thousand years of Chinese literature and culture, beginning with the religious and institutional foundations of the earliest documented period, the Shang dynasty, ca. 1200 B.C., down to the end of the early Middle Ages, with the fall of the T'ang dynasty in the 10th century A.D. For complete details, see box on this page.

Chinese (CHIN)
134 First-Year Intensive Chinese (15)
Equivalent of 111, 112, 113. Introduction to the standard language: correct pronunciation and basic structure; drill in oral use of the language. Especially recommended for students who plan to devote more time to other subjects during the regular academic year. No credit if 111, 112, 113 taken.

234 Second-Year Intensive Chinese (15) VLP/A
Equivalent of 211, 212, 213. Rapid learning of characters and reading of texts. Practice in conversational Chinese. Prerequisite: 113 or 134, or equivalent. No credit if 211, 212, 213 taken.

Course by special arrangement
Undergraduate Research

Hindi (HINDI)
321, 322, 323 Intermediate Hindi (5, 5, 5) VLP/A

Course by special arrangement
Undergraduate Research

Indian (INDN)
411 First-Year Intensive Bengali (15)
Modern standard Bengali. Reading, writing and conversation. Introduction to Bengali script.

Japanese (JAPAN)
134 First-Year Intensive Japanese (15)
Equivalent of 111, 112, 113. Elementary communicative skills in modern spoken Japanese. Intensive preparation using audio and video tapes. Basic skills in the written language. No initial knowledge of Japanese is presumed. Satisfies requirements for entry to 211, but recommended primarily for those going to Japan shortly upon
completion. Students with prior background must take placement test.

234 Second-Year Intensive Japanese (15) VLPA
Equivalent of 211, 212, 213. Development of further functional communicative skills in the spoken and written languages. Satisfies requirements for entry to 311, but is recommended primarily for those who will be going to Japan shortly upon completion. Prerequisite: 113 or placement by examination.

311, 312, 313 Third-Year Japanese (5, 5, 5) VLPA
Further development of advanced skills in both spoken and written Japanese. Intensive preparation for traveling, studying or working in Japan. Completion of this course will satisfy requirements where JAPAN 313 is a prerequisite. Concurrent registration in 311, 312 and 313 required. Prerequisite: 213 or placement by examination.

Course by special arrangement
Undergraduate Research

Korean (KOR)
301, 302, 303 Introduction to Korean (5, 5, 5)
Fundamentals of the Korean language. Emphasis on Korean alphabet and spelling, pronunciation and basic grammar. Concurrent registration in 301, 302 and 303 required. Prerequisite: entry code.

Astronomy (ASTR)
C319 Physics/Astronomy Building, Box 351580
Telephone: 543-2888

101 Astronomy (5) NW, QSR
Introduction to the universe, with emphasis on conceptual, as contrasted with mathematical, comprehension. Modern theories, observations; ideas concerning nature, evolution of galaxies; quasars; stars; black holes; planets; solar system. No credit for students who have taken 102 or 201; not open to upper division majors in physical sciences or engineering.

150 The Planets (5) NW, QSR
For liberal arts and beginning science students. Survey of the planets of the solar system, with emphasis on recent space exploration of the planets and on the comparative evolution of the earth and the other planets.

190 Modern Topics in Astronomy for Non-Science Majors (5) NW
A. The Search for Extraterrestrial Life (5)
Latest discoveries and thinking regarding the possible existence of extraterrestrial life and how best to search for it. Topics include: formation of stars and planetary systems, origin of life on Earth, extreme conditions suitable for life, evolution, nature of intelligence, radio telescopes and current SETI projects (the search for extraterrestrial intelligence), possible effects of contact. Prerequisite: 5 credits of astronomy at the 100 or 200 level or permission of instructor.

597 Topics in Observational Astrophysics (1-5, max. 20)
Credit/no credit only.

Courses by special arrangement
Undergraduate Research, Independent Study or Research, Doctoral Dissertation

Atmospheric Sciences
(ATOM 5)
408 Atmospheric Sciences-Geophysics Building, Box 351640
Telephone: 543-4250

101 Weather (5) NW
The earth’s atmosphere, with emphasis on weather observations and forecasting. Daily weather map discussions. Highs, lows, fronts, clouds, storms, jet streams, air pollution and other features of the atmosphere. Physical processes involved with weather phenomena. Intended for nonmajors.

Courses by special arrangement
Independent Study or Research, Master’s Thesis, Doctoral Dissertation

Biology (BIOL)
318 Hitchcock Hall, Box 355320
Telephone: 543-9121
For additional courses in biology and closely related fields of study, also see the following departments of the College of Arts and Sciences: anthropology, botany, genetics, psychology and zoology; the Colleges of Forest Resources, Ocean and Fisheries Sciences and Pharmacy; and the Schools of Medicine, Nursing and Public Health and Community Medicine.

100 Introductory Biology (5) NW
Biological principles and concepts and the application of biological knowledge to problems of human beings and society. Development of an awareness of science. For nonscience majors only.

201, 202, 203 Introductory Biology (5, 5, 5) NW
Introduction to biology for students intending to take advanced courses and preprofessional programs. Emphasis on features common to all living things: molecular phenomena, cell structure, metabolism, energetics, genetic basis of inheritance in 201; animal physiology and development in 202; plant structure and function, general ecology and evolution in 203. Prerequisites: CHEM 140, 150, 160; 201 for 202; 202 for 203.

401 Cell Biology (5) NW
Selected topics in molecular cell biology. Strong emphasis on understanding original experiments that describe the functions of the cell. Prerequisites: 201, 202. Recommended: one upper-division course in related area.

Botany (BOT)
430 Hitchcock Hall, Box 355325
Telephone: 543-1942
Introductory and advanced courses are offered for majors and nonmajors, in-service teachers, and students new to the Northwest. Opportunities for research and graduate instruction in marine biology are offered at the Friday Harbor Laboratories in the San Juan Islands. Applications of qualified undergraduate students will be considered for enrollment in the graduate courses. For information and a bulletin, write: Director, Friday Harbor Laboratories, 620 University Road, Friday Harbor, WA 98250, or call (206) 543-1484.

113 Plant Identification and Classification (5) NW
Plant classification and diversity of seed plants; field study and laboratory identification of the common plant families and the conspicuous flora of western and central Washington. Two full-day field trips.

222 Natural History of Puget Sound Country (3) NW
The Puget basin’s physical setting—its geology and climate—are melded in ecological terms with the plant and animal life of terrestrial and aquatic environments. The impacts of Indian and European cultures on the natural history of the basin are explored in depth. Two field trips. No prerequisites.

331 Landscape Plant Recognition (3) NW
Field recognition of important groups of woody and herbaceous landscape plants, emphasizing diversity at the genus and family levels. Cultivated plant nomenclature. Plant descriptive characters evident in the field with eye and hand lens. Hardiness and landscape applications. Recommended: 113. Offered jointly with UHF 331.
458 Alpine Plant Ecology (5) NW
Structure of plant communities in alpine regions of the Pacific Northwest. Characteristics of physical environment which influence species adaptation and distribution. Influence and impact of humans and criteria for preservation and/or management of alpine areas. Three weekend field trips required. By permission of instructor only. Recommended: 10 credits in biological sciences.

465 Lichenology (5) NW
Structure, classification and general biology of lichens. Emphasis on NorthWest families and genera. Lichen will be studied in relation to their ecological distributions. Local lichens will be collected and identified to species using morphological and chemical techniques. Two required field trips. Prerequisite: 10 credits of introductory biology or permission of instructor.

545A Marine Phycology (9)
Morphology, life histories, systematics and ecology of marine algae, with emphasis on the local flora. Prerequisite: 10 credits of biological sciences or permission of Director of Friday Harbor Laboratories. Offered at Friday Harbor.

Courses by special arrangement
Independent Study or Research, Master's Thesis, Doctoral Dissertation

Chemistry (CHEM)
109 Bagley Hall, Box 351700
Telephone: 543-1610
Undergraduate adviser: 543-9343/616-9597

The Department of Chemistry offers many courses for nonmajors and students seeking Bachelor of Arts or Bachelor of Science degrees. Courses are also available for chemistry minors. In addition to research or thesis work, graduate students may register for seminars that include special lectures by distinguished visiting faculty.

120 Introduction to General Chemistry (5) NW, QSR
One quarter introduction to chemistry for students with little or no chemistry background. Atoms and molecules and their chemical changes, including the impact of chemistry on everyday life. Can stand alone or be followed by 140, or 220. Prerequisite: high school algebra or equivalent.

140 General Chemistry (4) NW, QSR
For science and engineering majors. Atomic nature of matter, stoichiometry, periodic table, quantum concepts, gas laws. Prerequisites: high school algebra and chemistry or 120 and MATH 111 or 120; recommended: high school physics and concurrent registration in 141 and MATH 124.

141 General Chemistry Laboratory (1) NW
Introduction to laboratory work, including experiments to illustrate analytic techniques, stoichiometry and gas laws. Designed to complement 140. Prerequisite: prior completion of, or concurrent registration in 140. Credit/no credit only.

150 General Chemistry (4) NW
Chemical bonding and structure, elementary organic and polymer chemistry, inorganic Lewis acids and bases. Prerequisite: 140 or 145. Recommended: concurrent registration in 151.

151 General Chemistry Laboratory (1) NW
Experiments to include absorption and emission spectroscopy, separations and elementary organic synthesis. Designed to complement 150. Credit/no credit only. Prerequisites: 120 or 141 and prior completion of, or concurrent registration in, 150.

160 General Chemistry (4) NW
Introduction to chemical thermodynamics (first and second laws), equilibrium, electrochemistry and kinetics. Prerequisite: 150. Recommended: concurrent registration in 161.

161 General Chemistry Laboratory (2) NW
Introductory experiments in acid-base equilibrium, electrochemistry, thermodynamics, chemical kinetics. Designed to complement 160. Prerequisites: 151 and prior completion of, or concurrent registration in, 160.

199 Special Problems (1, max. 6)
Research in chemistry. Prerequisites: chemistry grade-point average above 3.0 and permission of chemistry adviser. Credit/no credit only.

220 General and Organic Chemistry (5) NW
Organic compounds; hydrocarbons, alcohols, aldehydes, ketones, ethers, acids, aromatics, fats and oils, proteins and carbohydrates, includes laboratory. Students who plan to take 223 or 237 should not take 220. Prerequisite: 120 or equivalent.

223 Organic Chemistry—Short Program (4) NW
First of a two-quarter lecture series in organic chemistry, for majors in biology and related fields who elect not to complete the full-year sequence. Introduction to structure, nomenclature, reactions and synthesis of main functional group families of organic compounds. Prerequisite: 155 or 160.

224 Organic Chemistry—Short Program (4) NW
Continuation of the abbreviated coverage of the main functional group classes of organic compounds. Short introduction to biomolecules (lips, carbohydrates, amino acids, proteins and nucleic acids). Prerequisite: 223.

237 Organic Chemistry (4) NW
First course for students planning to take three quarters of organic chemistry. Structure, nomenclature, reactions and synthesis of the main types of organic compounds. Prerequisite: 155 or 160. No organic laboratory accompanies this course.

238 Organic Chemistry (4) NW
Second quarter for students planning to take three quarters of organic chemistry. Further discussion of physical properties and transformations of organic molecules, especially aromatic and carbonyl compounds. Prerequisite: 237.

239 Organic Chemistry (3) NW
Third quarter for students planning to take three quarters of organic chemistry. Polymolecular compounds, natural products, lipids, carbohydrates, amino acids, proteins and nucleic acids. Prerequisite: 238.
241 Organic Chemistry Laboratory (3) NW
Introduction to organic laboratory techniques. Preparation of representative compounds. Designed to be taken with 224 or 238. Prerequisites: 155 or 161, 223, or 237. Students enrolled in 223 and 224 may enroll in 241 if they have completed 161.

242 Organic Chemistry Laboratory (3) NW
Preparations and qualitative organic analysis. Designed to be taken with 239. Prerequisites: 224 or 238 and 241.

299W Special Problems and Report Writing (1, max. 6)
Research in chemistry and/or chemical literature. Requires writing a scientific report. Prerequisites: grade-point average above 3.00 in chemistry and permission of chemistry advisor. Credit/no credit only.

321 Quantitative Analysis (5) NW
Introduction to chemical analysis, including gravimetric, volumetric, spectrophotometric and potentiometric analyses. Laboratory computer use included. Prerequisites: 155 or 160 and 161.

455 Physical Chemistry (3) NW
Introduction to quantum chemistry and spectroscopy. Theory of quantum mechanics presented at an elementary level and applied to the electronic structure of molecules and to molecular spectra. Prerequisites: 155 or 160, MATH 126 (308 recommended), and college physics.

456 Physical Chemistry (3) NW
Chemical thermodynamics. Laws of thermodynamics presented with applications to phase equilibria, chemical equilibria and solutions. Prerequisites: 155 or 160, MATH 126 (307 and 308 recommended), and college physics. May be taken without 455.

461 Physical Chemistry Laboratory (2-3) NW
Physical measurements in chemistry. Vacuum techniques, calorimetry, spectrophotometric methods, electrical measurements. Prerequisites: 161 or a higher-level laboratory; 455; 352 or 457; entry code required, applications Bagley 109.

510 Current Problems in Inorganic Chemistry (1, max. 12)
Primarily for doctoral candidates in inorganic chemistry. Current topics (e.g., bioinorganic, advanced organometallic, materials and solid state, advanced inorganic spectroscopy). See department for instructor and topics.

520 Current Problems in Analytical Chemistry (1, max. 12)
Primarily for doctoral candidates in analytical chemistry. Current topics (e.g., flow injection analysis, mass spectrometry, and advanced radiochemistry). See department for instructor and topics.

540 Current Problems in Organic Chemistry (1, max. 18)
Primarily for doctoral candidates in organic chemistry. Discussions of topics of current interest and importance. See department for instructor and topic.

560 Current Problems in Physical Chemistry (1, max. 9)
Primarily for doctoral candidates in physical chemistry. A discussion of topics selected from active research fields. See department for instructor and the topic.

590 Seminar in General Chemistry (1, max. 18)
591 Seminar in Inorganic Chemistry (1, max. 18)
592 Seminar in Analytical Chemistry (1, max. 18)
593 Seminar in Organic Chemistry (1, max. 18)
595 Seminar in Physical Chemistry (1, max. 18)

Courses by special arrangement
Undergraduate Research and Report Writing, Independent Study or Research, Master’s Thesis, Doctoral Dissertation

Classics
218 Denny Hall, Box 353110
Phone: 543-2266

- Classics Courses in English
- Greek
- Latin

The Department of Classics offers courses in Greek and Latin from the introductory to graduate level and a selection of courses in English requiring no knowledge of the languages.

The Master of Arts degree in classics and Latin may be earned by attending Summer Quarter only. For details, contact the department.

For other courses of interest to classics students, see History (Ancient and Medieval) and Philosophy.

Classics Courses in English (CLAS)

101 Latin and Greek in Current Use (2) VLPA
Designed to improve and increase English vocabulary through a study of the Latin and Greek elements in English, with emphasis on words in current literary and scientific use. Knowledge of Latin or Greek is not required. No auditors. Credit/no credit only.

205 Bioscientific Vocabulary Building from Latin and Greek (3) VLPA
Designed to help students master the scientific vocabulary of particular fields by a study of the Latin and Greek roots that are used to create the majority of scientific terms. Recommended for nursing and premedical students and science majors. Knowledge of Latin or Greek is not required. No auditors. Credit/no credit only.

424 The Epic Tradition (5) VLPA
Ancient and medieval epic and heroic poetry of Europe in English: the Iliad, Odyssey and Aeneid; the Roland or a comparable work from the medieval oral tradition; pre-Greek forerunners, other Greco-Roman literary epics, and later medieval and Renaissance developments and adaptations of the genre. Choice of reading material varies according to instructor’s preference. Offered jointly with C LIT 424.

430 Greek and Roman Mythology (3) VLPA
Principal myths found in classical and later literature.

432 Classical Mythology in Film (5) VLPA
Comparison and discussion of classical myths and modern films inspired by them. Promotes access to the reading of classical mythology. Analyzes significant differences between ancient literary and modern cinematic representations of the myth.

Greek (GRK)

101-102 Elementary Greek (5,5)
Intensive study of the grammar of ancient Greek, with reading and writing of simple Attic prose. No auditors. Prerequisite: 101 for 102.

463 Hellenistic Greek Literature: Menander (3-5, max. 15) VLPA
This summer five credits are being offered. Prerequisite: 307 or permission.

Courses by special arrangement
Supervised Study, Independent Study or Research

Latin (LAT)

101-102 Elementary Latin (5,5)
Intensive study of grammar, with reading and writing of simple Latin prose. No auditors. Prerequisite: 101 for 102.

461 Latin Literature of the Republic: Caesar’s Bellum Civile (3-5, max. 15) VLPA
This summer five credits are being offered. Prerequisite: 307 or permission.
Courses by special arrangement
Supervised Study, Independent Study or Research

Classics (CLAS)
Courses by special arrangement
Master's Thesis, Doctoral Dissertation

Communications (CMU)
118 Communications Building, Box 353740
Telephone: 543-8860

This summer’s curriculum includes courses in advertising, broadcast journalism and photography, and 400-level courses open to both undergraduate and graduate students. General courses cover the history and development of communication and journalism, the process of communicating, and mass communication and society.

Introduction to Mass Communications (CMU 200) is offered through the UW Evening Degree Program. See page 78 for details.

200A Mass Media and Society (5) I&S
Examines the role mass communication systems play in our society, including their history, structure, processes and effects. Strong emphasis on major issues in the media today such as violence, stereotyping of images, political campaigns and other ethical issues.

300A Basic Concepts of New Media (5) VLPA/I&S
Provides a comprehensive examination of the effects of new, digital media on interpersonal communication, media, industries and media culture. Emphasis on economic, social, political and aesthetic implications. Provides limited experience with computer-based media. No prior technical computer experience assumed.

320+ Global Communication (5) I&S
Introduction to the history, purpose, channels, content, technologies, policy and regulation of international communications systems. Issues covered include disparities in media development between post-industrial and developing nations, imbalances in international news and information flow, and the emergence of global communications.

341 Government and Mass Communications (5) I&S
Survey of the contemporary relationship between the American press and the government. After an initial exploration of the development of the First Amendment, specific problems resulting from the intersection of the press and the government are examined, including both legal and political issues.

360 Beginning Newswriting and Reporting (4) I&S
Introduction to newswriting and reporting for print media. Focus on defining news, general writing skills, constructing leads, preparing a variety of basic journalism news stories, interviewing techniques, covering beats, and journalist style. Prerequisite: communications major or permission of instructor.

362W News Laboratory (8) I&S
Newswriting skills course. Students gain real-world experience by producing news feature stories for client papers in the Puget Sound region. Involves considerable one-on-one work with the lecturer/editor. Requires writing and reporting skills.

363 Communication Internship (2-6, max. 6)
Supervised academic work done in connection with editorial internship. Designed to extend the student’s knowledge of professional perspectives. Does not apply to required 50 credits in communications. Open only to majors. Credit/no credit only. Prerequisite: permission of instructor.

400 History of Media Technology and Regulation (5) I&S
Impact of pre-1800’s media technology—printing, telecommunications, broadcasting, photography, and more—on individuals and institutions, especially government, business, and the media. How laws and policies have changed to govern new media forms.

418 Issues in Mass Communications (5, max. 10) I&S

440 Mass Media Law (5) I&S
Survey of the laws and regulations that affect the print and broadcast media. Includes material on the First Amendment, libel, invasion of privacy, freedom of information, copyright, obscenity, advertising and broadcasting regulation, and matters relating to press coverage of the judicial system.

444 Public Relations and Society (5) I&S
Overview of issues, strategies and role of public relations professionals in various areas of American society, including media relations, community affairs and consumer relations.

448 Advertising Process and Effects (5) I&S
Examines the history, structure, operations and impacts of advertising in self-service marketplace economies.

467 Journalism and Literature (5) VLPA/I&S
Explores the relationship between journalism and fiction writing in the United States. Examines writers who began their careers as journalists and forged a fiction-writing philosophy related to what they learned in journalism. Readings in fiction and journalism.

468 Journalism Ethics (5) I&S
Provides a method and substantive context based on ethical theory, media history, and value systems analysis for analyzing and resolving dilemmas raised by journalistic practices.

Comparative History of Ideas (CHID)
B102D Padelford, Box 354300
Telephone: 543-7333

390 Colloquium in the History of Ideas: The Interpretation of Texts and Cultures (5) I&S
Basic theoretical issues in the comparative history of ideas as a disciplined mode of inquiry; examination of representative historical figures and problems. Primarily for majors; open to nonmajors by permission of program adviser.

Courses by special arrangement
Senior Thesis, Independent Study or Research
Comparative Literature (C Lit)

B351 Padelford Hall, Box 354338
Telephone: 543-7542

The comparative study of literature is not restricted to any one culture or language. Typical areas of inquiry include literary traditions and periods, genres and motifs, patterns of influence and reception of literary works among various national cultures; and the general principles of theory of literature criticism. Readings are in English, and courses are open to both majors and nonmajors. Detailed course descriptions are available in the Comparative Literature office.

230+ Introduction to Folklore Studies (5) VLPA/I&S

Comprehensive overview of the field of folkloristics, focusing on verbal genres, customs, belief and material culture. Particular attention to the issues of community, identity and ethnicity. Offered jointly with SCAND 230.

240 Writing in Comparative Literature (5) C

Comparative approach to literature and a workshop in writing comparative papers in English. Emphasis on cross-cultural comparison of literary works. Readings in English with an option to read selected texts in the original languages.

271 Authors of Film: The Great Directors, Hitchcock and Bertolucci (5) VLPA

Films to be shown and discussed: The Thirty-nine Steps; Strangers on a Train; The Wrong Man; Psycho; The Conformist; 1900; Last Tango in Paris; Little Buddha. Two essay exams, mid-term and final.

323+ Studies in Literature of Emerging Nations (5) VLPA

Novels and short stories from Africa. Discusses relationship of Western literary genres to an oral literary tradition, as well as issues like colonialism, gender relations, narrative technique, native and non-native languages. This summer the course will be taught by Ranga Zinyemba, visiting professor from the University of Zimbabwe. Meets with ENGL 316.

330 The European Fairy Tale (5) VLPA

An introduction to folk tales and literary tales from various traditions and periods. A discussion of their origin, special characteristics, dissemination and relevance to the contemporary reader.

422+ Studies in Genre: The Novel as Theory (5) VLPA

This course will focus on acts of self-reflection and generic mimicry in fiction, and especially on the novel's knack for stealing (into) the premises of "theory," old and new. Students interested in narratology, culture studies, historicism and other

isms and ologies of recent plunamge will test wits and wows against Sterne, Nabokov, Fowles, Pavin and Beckett. Be prepared for a heavy reading load: one medium-size novel per week: a few very short assignments, a project and/or a final. This class is open to both advanced undergraduate and graduate students.

424 The Epic Tradition (5) VLPA

Ancient and medieval epic and heroic poetry of Europe in English: the Iliad, Odyssey and Aeneid; the Roland or comparable work from the medieval oral tradition; pre-Greek forerunners, other Greco-Roman literary epics, and later medieval and Renaissance developments and adaptations of the genre. Choice of reading material varies. Literary background recommended. Offered jointly with CLAS 424.

Courses by special arrangement


Dance (DANCE)

261 Meany Hall, Box 351150
Telephone: 543-9843

101 Introduction to Dance I (5, max. 10) VLPA

Introduction to dance as an art form. Lectures in dance appreciation. Studio experience in ballet and modern techniques.

104A Modern Technique (*, max. 8) VLPA

Offered for two credits. Advanced beginning. Continued development of basic and modern techniques. Prerequisite: 103 or permission of instructor.

107A Ballet Technique I (*, max. 5) VLPA

Offered for two credits. Advanced beginning. Continued development of ballet vocabulary. Prerequisites: 103 or permission of instructor.

110A 111A Jazz Technique I (2, max. 4) VLPA

Introduction to jazz technique. No prerequisites.

201A Ballet Technique II (*, max. 8) VLPA

Offered for two credits. Intermediate. Expansion of ballet vocabulary. Prerequisites: 109 or permission of instructor.

Course by special arrangement

Independent Study or Research

Drama (DRAMA)

101 Hutchinson Hall, Box 353950
Telephone: 543-5410
email: UWDRAMA@u.washington.edu

101 Introduction to the Theatre (5) VLPA

The theatre as an art form with emphasis on the play in production. The role of the various theatre artists: actors, designers and playwrights. For nonmajors.

201 Dramatic Action (5) VLPA

Play structure through analysis of plays in all genres, with special attention to plotting and the various means used to achieve a unity of action as the basis of all drama.

211* Theatre Technical Practices (4) VLPA

Costume. Intensive lecture-laboratory in basic theories, techniques and equipment of the stage.

302W Play Analysis (5) VLPA

Analyses of plays, based on leading critical traditions. Illustrates variety of approaches to a play, criteria for choosing best approach for a given play, and ways in which criticism aids in understanding dramatic effect, for both reader and practitioner. Prerequisite: some theatre background.

316* Theatrical Makeup (2) VLPA

Basic principles, with intensive practice in application of makeup for use on proscenium and arena stages. Students will be asked to purchase materials for use in the class. Open to nonmajors. Also offered this quarter is Advanced Theatrical Makeup (491). If there is a question regarding the appropriate class for you, please contact the instructor before registering.

371 Theatre and Society (5) VLPA/I&S

Introduction to the history of the theatre from the Greeks to the present day. Development of the theatre as a social institution. Reading of major texts from each period.

417* Stage Costume Patternning and Construction (3, max. 6) VLPA

Techniques of costume construction, including study of fabrics; emphasis on creating patterns by draping. Prerequisites: 211, 416 or permission of instructor.

454+ Projects in Acting (3) VLPA

A. Intensive Acting in Verse (3)

How does one approach a verse text? What are the strategies for making sense of such a script? Are techniques appropriate for all texts? The class is designed to teach actors how to look at a verse text, make sense of it, and perform it fully. Material will be Shakespearean sonnets and monologues.
College of Arts and Sciences

473 • Modern European Theatre and Drama (5) VLPA
Major forces shaping modern European theatre. Leading dramatists, directors and designers of the post-World War II era.

490 • Special Studies in Acting-Directing (1-6) VLPA
A. The Actor Presents (4)
How does an actor enter an audition, achieve aplomb, present him or herself as a person and an actor as well as a character? Is a monologue really a dialogue? Is singing a song easily to strangers possible for anyone? You can find out for yourself by presenting yourself, presenting a poem, a monologue, a song, a joke and more in this practical and liberating class. Offered only once a year.

491 • Special Studies in Design-Technical (1-6) VLPA
A. Advanced Theatrical Makeup (2)
Explore the professional techniques of theatrical makeup. Course introduces facial hair and wig-making, prosthesis and demential appliances. Final project will focus on science fiction makeup. Students will be asked to purchase supplies for use in class. Details are available from the instructor. Also offered this quarter is a course in beginning Theatrical Makeup (316). If there is any question regarding the appropriate class for you, please contact the instructor before registering.

Courses by special arrangement
Undergraduate Research, Independent Study or Research, Internship, Doctoral Dissertation

Economics (ECON)
300 Savery Hall, Box 353330
Telephone: 543-5955

200 Introduction to Microeconomics (5) I&S, QSR
Analysis of markets: consumer demand, production, exchange, the price system, resource allocation, government intervention.

201 Introduction to Macroeconomics (5) I&S, QSR
Analysis of the aggregate economy: national income, inflation, business fluctuations, unemployment, monetary system, federal budget, international trade and finance. Prerequisite: 200.

300 Intermediate Microeconomics (5) I&S
Analysis of decisions by individuals and by firms and of outcomes in factor and product markets. Prerequisites: 200 and MATH 112 or 124 or equivalent.

301 Intermediate Macroeconomics (5) I&S
Analysis of determinants of the aggregate level of employment, output, prices and income of an economy. Prerequisites: 201, 300.

311 Introduction to Economic Statistics (5) NW, QSR
Statistical concepts and their application in economics. (Students may receive credit for only one of STAT 220, 301, 311 and ECON 311.) Meets with STAT 311. Prerequisite: 200, MATH 111 or 120.

404 • Industrial Organization and Price Analysis (5) I&S
Analysis of firm behavior in imperfectly competitive markets. Topics include monopoly, oligopoly, product differentiation, entry deterrence and the role of asymmetric information. Game theoretic tools and empirical evidence are used to analyze topics. Prerequisite: 300.

422 Investment, Capital and Finance (5) I&S
Intertemporal optimization: consumption and portfolio allocation decisions of households, investment and financing decisions of firms. Introduction to financial decisions under uncertainty. Portfolio theory, asset pricing, options and futures. Financial market institutions and efficiency. Prerequisite: 300 and 311.

431 • Government and Business (5) I&S
Economic effects of various governmental regulatory agencies and policies. Antitrust legislation as a means of promoting desired market performance. Observed economic effects of policies intended to regulate business practices, control prices, conserve resources, or promote competition. Prerequisite: 300 or equivalent.

435 Natural Resource Economics (5) I&S
Survey of the economics of renewable and nonrenewable resources including fisheries, forests, minerals and fuels. Optimal trade-offs between benefits and costs of resource use, including trade-offs between current and future use. Effects of property rights on resource use. Prerequisite: 300 or instructor permission.

450 • Public Finance: Expenditure Policy (5) I&S
Application of normative microeconomic theory to analysis of government expenditures. Rational for government economic activity, collective choice, public goods and externalities, income redistribution, public sector pricing and specific expenditure programs. Prerequisite: 300.

451 • Public Finance: Tax Policy (5) I&S
Microeconomics of taxation: efficiency, incidence, effect on distribution of income, personal and corporate income taxes, sales and consumption taxes, taxation of property and estates. Prerequisite: 300.

460W Economic History of Europe (5) I&S
Origins of the modern European economy; historical analysis of economic change and growth from medieval times that stresses the preconditions and consequences of industrialization. Recommended: 200, 201. Offered jointly with HIST 481.

Courses by special arrangement
Undergraduate Research, Independent Study or Research, Internship, Doctoral Dissertation

English (ENGL)
A101 Padelford Hall, Box 354330
Telephone: 543-2634

The summer program in English offers a wide range of courses in the masterworks of our literature, in the study of language and in the art of writing in English. All undergraduate courses are suitable for nonmajors as well as majors. The aims of the graduate program are to teach interpretation, writing and research methods on advanced levels. For detailed descriptions of all courses, please visit or write the Department of English.

Shakespeare to 1603 (ENGL 323), Romantic Poetry I (ENGL 331) and American Literature: The Early Nation (ENGL 352) are offered through the UW Evening Degree Program. See page 78 for details.

Please note: Students not previously admitted to the University of Washington (nonmatriculated status) may enroll in English 111, 121, 131, 281, 381 or 481 only if they have met the following ESL requirements: score of at least 580 on the TOEFL or one of these equivalent scores: 90 on the MTELF, 410 on the SAT-Verbal, 490 on the SAT-Verbal (recentered), or 20 on the ACT English. For more information or to obtain entry codes, please contact the English Advising Office, Padelford A2B, (206) 543-2634.

104 Introductory Composition (5) C
Development of writing skills, sentence strategies and paragraph structures. Expository, critical and persuasive essay techniques based on analysis of selected readings. For Education Opportunity Program students only, upon recommendation by the Office of Minority Affairs.

111 Composition: Literature (5) C
Study and practice of good writing; topics derived from reading and discussing stories, poems, essays and plays. Not open to nonmatriculated students without proof of exemption from ESL requirement described above. See English adviser in Padelford A2B.

121 Composition: Social Issues (5) C
Study and practice of good writing; topics derived from reading and discussing essays and fiction about current social and moral issues. Not open to nonmatriculated students without proof of exemption from ESL requirement described above. See English adviser in Padelford A2B.

131 Composition: Exposition (5) C
Study and practice of good writing; topics derived from a variety of personal, academic and public subjects. Not open to nonmatriculated students
without proof of exemption from ESL requirement described on page. See English adviser in Padelford A2B.

200W Reading Literature (5) VLPA
Techniques and practice in reading and enjoying literature. Examines some of the best works in English and American literature and considers such features of literary meaning as imagery, characterization, narration and patterning in sound and sense. Emphasis on literature as a source of pleasure and knowledge about human experience.

211 Medieval and Renaissance Literature (5) VLPA
Introduction to literature from a broadly cultural point of view, focusing on major works that have shaped the development of literary and intellectual traditions from the Middle Ages to the 18th century.

212 Literature of the Enlightenment and Revolution (5) VLPA
Introduction to 18th and 19th century literature from a broadly cultural point of view, focusing on representative works that illustrate literary and intellectual developments of the period.

213 Modern and Postmodern Literature (5) VLPA
Introduction to 20th century literature from a broadly cultural point of view, focusing on representative works that illustrate literary and intellectual developments since 1900.

225 Shakespeare (5) VLPA
Survey of Shakespeare’s career as dramatist. Study of representative comedies, tragedies, romances and history plays.

228 English Literary Culture: To 1600 (5) VLPA
British literature from Middle Ages to end of 16th century. Study of literature in its cultural context, with attention to changes in language, form, content and style.

229 English Literary Culture: 1600-1800 (5) VLPA
British literature in 17th and 18th centuries. Study of literature in its cultural context, with attention to changes in form, content and style.

230 English Literary Culture: After 1800 (5) VLPA
British literature in 19th and 20th centuries. Study of literature in its cultural context, with attention to changes in form, content and style.

242W Reading Fiction (5) VLPA
Critical interpretation and meaning in fiction. Different examples of fiction representing a variety of types from the medieval to modern periods.

250 Introduction to American Literature (5) VLPA
Survey of major writers, modes and themes in American literature from their beginnings to the present. Specific readings vary, but often included are: Taylor, Edwards, Franklin, Poe, Hawthorne, Melville, Emerson, Thoreau, Whitman, Dickinson, Twain, James, Eliot, Stevens, O’Neill, Faulkner, Hemingway, Ellison and Bellow.

258 African-American Literature: 1745-Present (5) VLPA
A chronological survey of Afro-American literature in all genres from its beginning to the present day. Emphasizes Afro-American writing as a literary art; the cultural and historical context of Afro-American literary expression and the aesthetic criteria of Afro-American literature. Offered jointly with AFRAM 214.

281 Intermediate Expository Writing (5) C
Writing papers, communicating information and opinion to develop accurate, competent and effective expression. Recommended: sophomore standing. Not open to nonmatriculated students without proof of exemption from ESL requirement described above. See English adviser in Padelford A2B.

283 Beginning Verse Writing (5) VLPA

284 Beginning Short Story Writing (5) VLPA
Introduction to the theory and practice of writing the short story. Recommended: sophomore standing.

310 The Bible as Literature (5) VLPA
Introduction to the development of the religious ideas and institutions of ancient Israel, with selected readings from the Old and New Testament. Emphasis on reading The Bible with literary and historical understanding.

316 Literature of Developing Countries (5) VLPA
This course will be taught by Ranga Zinyemba, visiting professor from the University of Zimbabwe. Meets with C LIT 323.

321 Chaucer (5) VLPA
Chaucer’s Canterbury Tales and other poetry, with attention to Chaucer’s social, historical and intellectual milieu.

322 English Literature: The Age of Queen Elizabeth (5) VLPA
The golden age of English poetry, with poems by Shakespeare, Spenser, Sidney and others; drama by Marlowe and other early rivals to Shakespeare; prose by Sir Thomas More and the great Elizabethan translators.
Shakespeare's career as dramatist after 1603. Study of comedies, tragedies and romances.

Milton's early poems and the prose: Paradise Lost, Paradise Regained and Samson Agonistes, with attention to the religious, intellectual and literary contexts.

Study of the development of this major and popular modern literary form in the 18th century. Readings of the best novelists who founded the form, and some minor ones, from Defoe to Fields, Richardson, and Sterne, early Austen, and the Gothic and other writers.

Study in the novel as it passes from a classic format to formats more experimental. Authors include George Eliot, Thomas Hardy, Joseph Conrad and others.

Literature in an era of revolution that also sought continuity, when culture faced redefinition as mass culture and found in the process new demands and creative energies, new material and forms, and transformations of old ones. Readings range from works of Tennyson, Browning, Arnold, Shaw, to Dickens, Eliot, Hardy.

The novel on both sides of the Atlantic in the first half of the 20th century. Includes such writers as Joyce, Woolf, Lawrence, Stein, Hemingway, Faulkner and others.

Literary responses to an America propelled forward by accelerating and complex forces. Works by Twain, James, and such other writers as Whitman, Dickinson, Adams, Howells, Crane, Dreiser, DuBois, and Chopin.

Literary responses to the disillusionment after World War I, experiments in form and new ideas of a new period. Works by such writers as Anderson, Toomer, Cather, O'Neill, Frost, Pound, Eliot, Cummings, Hemingway, Fitzgerald, Faulkner, Stein, Hart Crane, Stevens and Porter.

Works by such writers as Ellison, Williams, O'Connor, Lowell, Barth, Rich and Hawkes.

Of describing language; the use of language study as an approach to English literature and the teaching of English.

Roles of explicitly describable language features in the understanding and appreciation of various verbal forms. Emphasis on literature, but attention also may be given to nonliterary prose and oral forms.

Concentration on the development of prose style for experienced writers. Recommended: sophomore standing. Not open to nonmatriculated students without proof of exemption from ESL requirement described above. See English adviser in Padelford A2B.

Intensive workshop study of the ways and means of making a poem. Further development of fundamental skills. Emphasis on revision. Meets with 483. Prerequisite: 284 or equivalent; entry code (B25 Padelford; 543-9865).

Exploring and developing continuity in the elements of fiction writing. Methods of extending and sustaining plot, setting, character, point of view and tone. Prerequisite: 284 or equivalent; entry code (B25 Padelford; 543-9865).

Consideration of psychological and formal elements basic to writing and related forms of non-verbal expression and the critical principles that apply to evaluation.

Individual projects in various types of non-fictional prose, such as biographical sketches, informational reports, literary reviews and essays. This section will focus on writing hypertext in HTML. Computer experience recommended. Not open to nonmatriculated students without proof of exemption from ESL requirement described above. See English adviser in Padelford A2B.

Intensive workshop study of the ways and means of making a poem. Meets with ENGL 383 or equivalent. Prerequisite: 383 or equivalent; entry code (B25 Padelford; 543-9865).

Experience in planning, writing and revising a work of long fiction, whether from the outset, in progress, or in already completed draft. Prerequisite: 484 or equivalent and entry code (B25 Padelford, 543-9865).

Seminar study of special topics in language and literary study. Prerequisite: honors students majoring in English and entry code (A11 Padelford, 543-2199). Meets with ENGL 498.

Seminar study of special topics in language and literary study. Limited to seniors majoring in English. Meets with ENGL 497.


Intended primarily for new and continuing University of Washington matriculated students who are not native speakers of English, the Academic English Program (AEP) is designed to help such students improve their academic English language skills.

NOTE: Nonmatriculated students and other qualified applicants may take AEP courses under the following circumstances only:

1) they have taken and achieved a minimum score on the UW administered ESL Diagnostic Exam, and 2) there is space available in the class. These applicants will be put on a waitlist and usually are not allowed to enroll for the course until the end of the first week of the quarter, space permitting only.

Students who are required to take ESL as part of their admission to the UW should take the ESL Diagnostic Exam before they enroll. Students should contact the Testing Office in 440 Schmitz Hall, or call 543-1180 to register for the exam. The Diagnostic Exam determines which ESL courses the student should take. Without the exam, a student is required to take all five ESL courses.

Visit the Office of Special Services, 460 Schmitz, or contact the ESL office for further information. Each class requires payment of a $385 special fee.

Enrollment in an ESL class during the summer does not guarantee admission to the University. For information concerning admission criteria and the application closing date, see the admission section of this bulletin. For further information on the Academic English Program, contact Laurie Lindblad in the English As A Second Language Center, Box 354232, Seattle, WA 98195-4232, (206) 543-6242.
100 Intermediate ESL for Non-Native Speakers of English (0)
A three-course sequence; students increase the range and accuracy of their grammar and vocabulary necessary in editing their own academic writing and in comprehending academic texts.

A. Language Structure I
Lowest of the three language structure courses; focuses on recognizing basic grammar structures; some production required. Academic vocabulary development. Prerequisite: placement examination. Fee: $385.

B. Language Structure II
Second of the three language structure courses; focuses on productive use of grammar structures covered in previous course and recognition of more advanced structures. Continued work on academic vocabulary development. Prerequisite: 100A or placement examination. Fee: $385.

C. Language Structure III
Final course in the language structure sequence; focuses on productive mastery of grammar structure introduced in previous courses. Prerequisite: 100B or placement examination. Fee: $385.

101 High Intermediate ESL for Non-Native Speakers of English (0)

A. Writing About Sources
Emphasizes students' ability to recognize and use basic rhetorical structures commonly found in academic writing across disciplines. Stresses recognition of appropriate grammatical structures, organizational patterns, rhetorical phrases and academic style. Prerequisite: 100C or placement examination.

B. Listening to Lectures
Listening for increased efficiency in academic lecture comprehension and note taking. Emphasizes analysis and synthesis of both lecture and supplemental reading content. Prerequisite: 100C or placement examination.

102 ESL for International Teaching Assistant Training (0)
Lecturing and class discussion skills for ITAs with work on comprehensibility, idea organization and levels of formality. Prerequisites: entry code, SPEAK test and diagnostic examination or completion of all required ESL courses. (No fee for qualified ITAs.)

General Studies (GEN ST)
9 Communications Building, Box 353760 Telephone: 543-2551

Information about general studies courses and individual majors in general studies may be obtained from the Undergraduate Advising Center at the above address.

Courses by special arrangement
Independent Fieldwork, Supervised Study in Selected Fields, Senior Study

Genetics (GENET)
J205 Health Sciences Center, Box 357360 Telephone: 543-1657

371 Introductory Genetics (5) NW
Explores gene transmission, chromosome mapping, quantitative traits, population genetics, genetic analysis of biological processes. Emphasizes formal genetic mechanisms but includes some molecular techniques, such as restriction mapping, cloning, RFLP analysis. For biological science majors. Prerequisite: CHEM 150. Recommended: BIOL 201.

501 Introduction to Research Materials (3, max. 9)
The student undertakes a research project in one of the research groups within the department for a quarter at a time. Prerequisite: graduate standing in the Department of Genetics or permission of graduate program coordinator.

Courses by special arrangement
Undergraduate Research, Independent Study or Research, Master’s Thesis, Doctoral Dissertation

Geography (GEOG)
408A Smith Hall, Box 353550 Telephone: 543-3246

Geography summer offerings include courses meeting general education requirements and core courses for geography majors and nonmajors. World Hunger and Resource Development (GEOG 371) is offered this summer through the Evening Degree Program. See page 78 for details.

100 Introduction to Geography (5) & S
Introduction to the study of human geography and the major themes of the discipline. Topics include: human-environment interactions, migration and human mobility, patterns of health and nutrition, industrialization and urbanization, and the geography of culture and politics.

205 Introduction to Physical Sciences and the Environment (5) NW
Major atmospheric, hydrologic and geomorphic processes used to interpret the character, distribution and human significance of different natural and human-altered environments. Includes laboratory exercises for science and non-science majors, geography majors and nonmajors.

277 Geography of Cities (5) I&S
Study of (1) systems of cities—their location, distribution, functions and competition; and (2) their internal structure—the locations of activities within urban areas. Particular emphasis on current urban problems—sprawl, housing, segregation, economic growth and metropolitan transportation.

326 Introduction to Geographic Research (5) I&S, QSR
Introduction to the tools of geographic research. Topics include defining problems, designing methods for gathering and operationalizing statistics. Provides experience defining a geographic research project, collecting and analyzing data, and drawing conclusions from that endeavor.

335 Geography of the Developing World (5) I&S
Characteristics and causes, external and internal, of Third World development and obstacles to that development. Special attention to demographic and agricultural patterns, resource development, industrialization and urbanization, drawing on specific case studies from Asia, Africa, and Latin America. Prerequisite: 100 or equivalent.

349 Geography of International Trade (5) I&S
Examines international production and the circulation of commodities. Resource extraction and the international division of labor established during colonialism; production and trade during the period of empire and subsequent core-periphery relations; contemporary movement of commodities; role of the state in different economics, and growing Pacific Rim influence.

434 Southeast Asia: Conflict and Development (5) I&S
Study of complexity of ethnic, cultural, and socio-economic background in relation to division and rivalry in past; conflict and development in contemporary South East Asia. Recommended: 100.

448 Geography of Transportation (5) I&S
Circulation geography, principles of spatial interaction emphasizing commodity flow, the nature and distribution of rail and water transport, and the role of transport in area development.

461 Urban Geographic Information Systems (5) I&S
Use of geographic information systems to investigate urban/regional issues; focus on transportation, land-use issues; all urban change problems considered. GIS processing strategies. Problem definition for GIS processing. Data collection, geocoding issues. Data structuring strategies. Prerequisites: 277 or equivalent, 360 or equivalent; familiarity with computers.

Courses by special arrangement
Internship in Geography, Independent Study or Research, Master's Thesis, Doctoral Dissertation
GEOLOGY OF THE PACIFIC NORTHWEST
A lecture and field trip course

GEOL 308
5 credits
June 23-August 22

Geological Sciences (GEOL)
63 Johnson Hall, Box 351310
Telephone: 543-1190

The department offers courses for majors and graduates, and nonmajors seeking broad training in geological sciences.

101 Introduction to Geological Sciences (5) NW
Survey of the physical systems that give the earth its form. Emphasizes the dynamic nature of interior and surface processes and their relevance to mankind and stresses the value of rocks and earth forms in the understanding of past events. A course with laboratory for nonscience majors. Not open for credit to students who have taken 205. Field trips to Cascades and Olympics.

306 Evolution of the Earth (5) NW
Earth and its physical and biological aspects through time. Origin of earth, its early history, and development of continents and ocean basins as chronicled by the rock and fossil record. Field trips required. Prerequisite: 101 or 205.

308 Geology of the Pacific Northwest (5) NW
Geologic history of Washington, Oregon and Idaho. Emphasis on use of geologic principles in interpreting evidence found in landscapes and rocks. Prerequisite: 101 or 205 or equivalent.

Students are required to attend five field trips during Summer Quarter. Fifteen field trips are offered on both weekdays and weekends to accommodate student schedules. Field trips include:

- North Cascades
- Mount Rainier
- Mount St. Helen's
- Columbia Plateau
- San Juan Islands
- Bainbridge and Whidbey Islands
- The Olympic Peninsula

Courses by special arrangement


Geophysics (GPHYS)
202 Atmospheric Sciences-Geophysics, Box 351650
Telephone: 543-8020

480+ Special Topics in Geophysics (2-6, max. 12) NW
A. Earth Sciences for Teachers (4)
June 30-July 23 A course for elementary and middle school earth science and general science teachers. Through a combination of interactive lectures, field trips, computer labs and "hands-on" experiments, teachers will investigate meteorology, climate and solid earth geology. Emphasis is on learning basic principles through experimentation. Please call (206) 543-1943 for more information.

Course by special arrangement
Independent Study or Research

Germanics (GERM)
340C Denny Hall, Box 353130
Telephone: 543-4580

The Department of Germanics offers a variety of intensive and regular courses at all levels. Students may take 15 credits of Intensive First-Year German (100), the equivalent of First-Year German (101, 102, 103). Students may also complete the entire second-year program and earn 15 credits by enrolling in Intensive Second-Year German (200). Undergraduate and graduate students may also enroll in 498 and 499.

100 Intensive First-Year German (15)
Accelerated first-year German. Emphasis on speaking and listening. Equivalent to 101, 102 and 103.

101 First-Year German (5)
Emphasis on communicative skills. No credit for students who have taken the first five credits of 104.

103 First-Year German (5)
Emphasis on communicative skills. Prerequisite: 102 or equivalent. No credit for students who have taken the last five credits of 104.

Credit restrictions: Students may receive credit for only one course in each of the following: 101, 111 and the first 5 credits of 104; 102, 111 and the second 5 credits of 104; 103 and the last 5 credits of 104. They may, however, receive credit for courses in different first-year sequences if the courses are taken in progres-
**Intensive Second-Year German (15) VLP**

Accelerated second-year German. Systematic review of German grammar. Intensive practice in conversation, reading and writing. Prerequisite: 103 or equivalent.

**Conversational German (5) VLP**

Intensive conversational German. Prerequisite: 103 or equivalent.

**Studies in German Culture (1-6, max. 15)**

**A. Survey of the Germanic Languages (5)**

We first give an overview of the Germanic languages, where they are first attested and what their modern descendants are. Then we shall consider the major phonological and grammatical developments from Indo-European into the earliest attested Germanic languages: Gothic, Old Norse, Old English, Old Frisian, Old Saxon, and Old High German. At the conclusion of the course, each student gives a brief description and report on a Germanic language of his or her choice. Open to graduate and undergraduate students.

**Studies in German Culture (1-6, max. 15)**

**A. History and Memories (5)**

This course discusses aspects of the question of German and Austrian identity. We will analyze texts—literary and non-literary—ranging from the second half of the 19th century to the present. Our discussion will include issues relating to state and society during the German Empire and the Weimar Republic; the Austrian and Germanic and the Hapsburg Myth during the Austro-Hungarian Empire and First Republic; coming to terms with their modern descendants are. Then we reconsider the major phonological and grammatical features of the language. For graduate students.

**History Courses**

**History (315 Smith Hall, Box 353560 Telephone: 543-5790)**

History courses are offered in:
- General History
- History of the Americas
- Ancient and Medieval History
- History of Asia
- Modern European History

The Department of History offers a variety of summer classes, including upper division and graduate courses for teachers seeking their master's degree. Undergraduates will also find a wide diversity of courses, including the history of The Ancient World and The Modern World at the 100-level, and Survey of the History of the United States, Ancient History, and History of Southeast Asia at the 200-level. At the 300-level, History of American Science, American Civilization from 1877, Modern Latin America, Medieval Women, Medieval Christianity, Contemporary European History, History of Russia, Historical Methodology, and Cultural History of Renaissance Europe are offered.

At the 400- or senior-level, History of the Middle East Since 1879, History of Washington and the Pacific Northwest, The Intellectual History of the United States, Diplomatic History of the United States, 1901-Present, History of Modern Japan, History of Modern China, Europe, 1814-1870, History of the Balkans, 1400-Present, and Modern Irish History are scheduled.

In addition to these courses, American Presidents in the 20th Century (HSTAA 203) and American Environmental History (HSTAA 421) will be offered through the UW Evening Degree Program. See page 78 for details.

**Health Services (HSERV)**

Courses in Health Services, a department in the School of Public Health and Community Medicine, are open to students in public health, medicine, nursing, health education, the arts and sciences curricula, and allied fields. See specific course listings in this and other departments under the School of Public Health and Community Medicine, page 76.

**General History (HIST)**

**111 The Ancient World (5) I&S**

Origins of Western civilization to the fall of Rome.

**113A The Modern World (5) I&S**

Political, economic, social and intellectual history of modern Europe. No credit toward a history major for students who have taken HSTEU 302 or 303.

**316 History of American Science (5) I&S**

History of science in the United States, including migration of European science in colonial America, growth of an American scientific community, and expansion of American science in the twentieth century. Issues of American scientific attitudes to the natural world, race, ethnicity and gender are included.

**463 History of the Middle East Since 1789 (5) I&S**

Critical issues and themes in the changing Middle East, including Westernization, growth of nationalism, Arab-Israeli dispute, Iranian revolution and the role of Islam.

**495 History Internship (1-5, max. 10)**

Off-campus independent fieldwork with a community agency in an apprenticeship or internship situation. Work to be jointly supervised by a member of the history department and an on-site field supervisor.

**498W Colloquium in History (3-5, max. 15) I&S**

**A. Hitler and Stalin (*)**

Students will study the life and times of Adolph Hitler and Joseph Stalin. In addition to weekly readings and discussions, each student will produce a 10-page paper on a topic of her or his own choice related to the course material. Readings will be drawn largely from Alan Bullock's Hitler and Stalin: Parallel Lives.

**B. Heretics, Exotics and Deviants: Perceptions of “Difference” in Western Societies (*)**

This course will explore the complexities of majority-minority relations in Europe, the Mediterranean region, and North America by asking how cultures define, know, or otherwise construct the “other” in their midst. We will consider, among other things, the pursuit of heresy in medieval Christianity; accusations of Jewish ritual murder; the early-modern witch panic; efforts to regulate the poor, define illness, and construct deviance; perceptions of sexual normality and abnormality; modern anti-Semitism and racism; and the role of “recovered memory” in the construction of evil. Offered jointly with SIS 498A.
C. American Slavery, 1619-1877 (*)
Examines the origins, evolution, and ultimate demise of America’s “peculiar institution.” Participants will read an assortment of secondary historical interpretations and primary documents (i.e., the testimony of both slaves and masters). For complete details, see box on this page.

Courses by special arrangement
Undergraduate Research, Independent Study or Research, Master’s Thesis, Doctoral Dissertation

History of the Americas (HSTAA)

201 Survey of the History of the United States (5) I&S
Supplies the knowledge of American history that any intelligent and educated American citizen should have. Objective is to make the student aware of his heritage of the past and more intelligently conscious of the present.

302 American Civilization: The First Century of Independence (5) I&S
Establishment of the constitutional system; national expansion; intellectual and cultural development; internal conflicts, the Civil War and Reconstruction.

303+ Modern American Civilization From 1877 (5) I&S
Emergence of modern America after the Civil War; interrelationships of economic, social, political and intellectual developments.

383+ Modern Latin America (5) I&S
Analysis of economic problems, political and social changes, and intellectual trends in major Latin American republics since the late 19th century.

432+ History of Washington and the Pacific Northwest (5) I&S
Exploration and settlement; economic development and social institutions; statehood.

454+ The Intellectual History of the United States (5) VLPAT/I&S
Lectures and discussions devoted to the development of the American mind, from historical beginnings to the present.

462 Diplomatic History of the United States, 1901–Present (5) I&S
Foreign policy of the United States government during the twentieth century. International wars and the other major episodes in diplomacy are emphasized. Prerequisite: 202 or graduate standing.

Ancient and Medieval History (HSTAM)

201+ Ancient History (5) I&S
Development and characteristics of ancient Greek civilization from the Bronze Age to the Roman conquest. Emphasizes interaction of cultures of the eastern Mediterranean.

340+ Medieval Women (5) I&S
The experiences of women in medieval society; public and private power, changing concepts of family and the domestic sphere, ideal and reality as courtly love, women in religious life, women in the workplace, the querelle des femmes and the beginnings of “feminist” thought.

360+ Medieval Christianity (5) I&S
Development of Christianity in the medieval west circa 400 to 1500. Emphasis on the forms of religious life: monasticism, the papacy, friars, hermits, mystics, and reformers; and on the emergence of new modes of piety, both lay and clerical.

History of Asia (HSTAS)

221+ History of Southeast Asia (5) I&S
Surveys Southeast Asian civilizations at the outset of Western colonial rule; the colonial impact on the traditional societies of Burma, Thailand, Cambodia, Laos, Vietnam, Malaysia, Indonesia and the Philippines; 19th and 20th century nationalist and revolutionary movements; emergence of Southeast Asia as a region in the modern world. Offered jointly with SISSE 221.

348+ Alternative Routes to Modernity (5) I&S
See SIS 348 for a complete description of this course.

423 History of Modern Japan (5) I&S
Political, social, economic and cultural development of Japan from the late Tokugawa to the present with special emphasis on the cultural impact of the West.

454+ History of Modern China (5) I&S
Political, economic, social and intellectual history of China from 1800 to the present. Processes of modernization and revolution and relationship between them.

Modern European History (HSTEU)

304+ Cultural History of Renaissance Europe (5) VLPAT/I&S
Examination of Medicean Florence, late sixteenth century France, Elizabethan England, and the baroque courts of the early seventeenth century.
as cultural centers. Includes analysis of painters such as Botticelli and Rubens; poets such as Ronsard and Donne; philosophers such as Pico and Montaigne; and playwrights such as Marlowe, Shakespeare and Lope de Vega.

369 The Destruction of European Jewry, 1933-45 (5) I&S
History of anti-Semitism; dimensions of the Holocaust; the Holocaust organization and the victims' responses; reactions of world events in Europe, allied policies, refugee policy, and American actions. Legal, historical and sociological questions raised by these events. Offered jointly with SISJE 369.

411 Europe: 1814-1870 (5) I&S
Development of Europe during the age of Mettemich, the revolutions of 1848, and the emergence of new national states.

453 History of the Balkans, 1400 to the Present (5) I&S
Centuries of Ottoman rule that produced a new basis for the reemergence of independent states in the nineteenth and twentieth centuries; history of these new states until the present.

476 Modern Irish History (5) I&S
Political and social history from 1800 to the present; the Irish Question after the Act of Union; development of Irish nationalism in the Home Rule and Sinn Fein periods; the Irish Free State and Northern Ireland since 1921; current problems in Northern Ireland.

The Henry M. Jackson School of International Studies
111 Thomson Hall, Box 353650
Telephone: 543-6001

Henry M. Jackson School of International Studies courses are offered in:
- African Studies
- Canadian Studies
- China Studies
- Comparative Religion
- European Studies
- International Studies
- Japan Studies
- Jewish Studies
- Korea Studies
- Latin American Studies
- Middle Eastern Studies
- Russian, East European and Central Asian Studies
- South Asian Studies
- Southeast Asian Studies

In addition to the courses listed, students may register for independent study courses (499, 600, or 700) in many of the areas listed above. Program-related undergraduate courses offered by other academic units are also available. Call the International Studies advisory offices in Thomson Hall for additional information.

International Studies (SIS)

201 Introduction to International Political Economy (5) I&S
International political economy through the examination of major facets of post-World War II era. Post-war economic order and its crises in the 1970s and 1980s; North-South relations, the post-war political order and its East-West rivalry.

335 Geography of the Developing World (5) I&S
Characteristics and causes, external and internal, of Third World development and obstacles to that development. Special attention to demographic and agricultural patterns, resource development, industrialization, and urbanization, drawing on specific case studies from Asia, Africa, and Latin America. Offered jointly with GEOG 335.

348 Alternate Routes to Modernity (5) I&S
Routes to modernity followed by non-Western societies between 1600-1900. Historical experiences of non-Western societies seen in the context of European history and of development theory. Emphasizes primary sources and techniques for posing theoretical questions of historical data. Offered jointly with HSTAS 348.

450 Political Economy of Women and the Family in the Third World (5) I&S
Theoretical and empirical aspects of the political economy of women and the family in the Third World during the process of development, with a focus on labor. Main theoretical approaches examined and applied to case studies from Asia and Latin America. Offered jointly with SOC 450.

480 The Catholic Church in World Politics (5) I&S
Acquaints students with the self-identity, theology, ecclesiology, and political role of the Catholic Church in the contemporary era, with emphasis on its role in the United States, Russia, China, Eastern Europe and Latin America. Prerequisites: two courses in either world politics or contemporary religion.

498 Readings in International Studies (5) I&S
A. Heretics, Exotics and Deviants: Perceptions of "Difference" in Western Societies (5)
This course will explore the complexities of majority-minority relations in Europe, the Mediterranean region, and North America by asking how cultures define, know, or otherwise construct the "other" in their midst. We will consider, among other things, the pursuit of heresy in medieval Christianity; accusations of Jewish ritual murder; the early-modern witch panic; efforts to regulate the poor, define illness, and construct deviance; perceptions of sexual normality and abnormality; modern anti-Semitism and racism; and the role of
“recovered memory” in the construction of evil. Offered jointly with HISt 498B.

**Courses by special arrangement**
Undergraduate Research, Independent Study or Research

**Japan Studies (SISEA)**
Courses by special arrangement
Undergraduate Research, Independent Study or Research, Master’s Thesis

**Jewish Studies (SISJE)**
369 Destruction of European Jewry, 1933-45 (5) I&S
History of anti-Semitism; dimensions of the Holocaust; the Holocaust organization and the victims’ responses; reaction of world to events in Europe, allied policies, refugee policy, and American actions. Legal, historical and sociological questions raised by these events. Offered jointly with HSTEU 369.

**Course by special arrangement**
Undergraduate Research

**Korea Studies (SISEA)**
Courses by special arrangement
Undergraduate Research, Independent Study or Research, Master’s Thesis

**Latin American Studies (SISLA)**
355A Social Change in Latin America (5) I&S
Problems of development and dependency in Latin America. Relations of power and production between social classes and ethnic groups, with special emphasis on Meso-America (Mexico, Guatemala) and the Andes (Peru, Bolivia). Prerequisite: introductory course in sociology, anthropology, political science, economics or international studies. Offered jointly with SOC 355.

485A Cultural Studies of Latin America (5) I&S/VLPA
Interdisciplinary exploration of connections among culture, identity, and power, and among popular, mass, and elite cultures in one or more regions of Latin America. Specific topics vary, but may include such problems as tradition, modernity, and postmodernism or national and resistance cultures. Offered jointly with SPAN 485.

486+ Photography and Cultural Studies in Latin America (5) I&S/VLPA
Interdisciplinary senior seminar explores the connections between visual anthropology (ethnography through photography and film), documentary and art photography, and colonial and post-colonial discourse in Latin America during the 20th century. Prerequisite: permission of departmental adviser. Offered jointly with SPAN 486.

**Courses by special arrangement**
Undergraduate Research

**Middle Eastern Studies (SISME)**
Courses by special arrangement
Independent Study or Research, Master’s Thesis

**Russian, East European and Central Asian Studies (SISRE)**
490 Special Topics (1-5, max. 15) VLPA/I&S
A. Russian Art and Cultural Identity, 1750-present (5)
An examination of the role played by art in establishing a Russian national cultural identity from the mid-18th century to the present. Format will be lecture/discussion with considerable use of slides, and some use of WWW images. Readings, covering both art history and relevant aspects of intellectual and cultural history, will be in English. Lectures will reflect a great deal of material available only in Russian, some of which will be made available to students with the appropriate language proficiency. Meets with ART H 309 and RUSS 490.

**Courses by special arrangement**
Undergraduate Research, Independent Study or Research, Master’s Thesis

**South Asian Studies (SISSA)**
Courses by special arrangement
Undergraduate Research, Independent Study or Research, Master’s Thesis

**Southeast Asian Studies (SISSE)**
221A History of Southeast Asia (5) I&S
Surveys Southeast Asian civilizations at the outset of Western colonial rule; the colonial impact on the traditional societies of Burma, Thailand, Cambodia, Laos, Vietnam, Malaysia, Indonesia, and the Philippines; nineteenth- and twentieth-century nationalist and revolutionary movements; emergence of Southeast Asia as a region in the modern world. Offered jointly with HSTAS 221.

**Course by special arrangement**
Undergraduate Research

**Linguistics**
A210 Pyladelford Hall, Box 354340
Telephone: 543-2046
E-mail: phoneme@u.washington.edu

The Department of Linguistics offers courses in the method and theory of language analysis, in phonology and syntax, and Romance linguistics.

**French Linguistics (FRLING)**
409+ The Phonetics of French (5) VLPA
Scientific study of the French sound system with special emphasis on “lower level” phonetic rules, with integral values. Focus on data from standard French as well as socioeconomic and geographic variation. Prerequisites: FRENCH 323 or ROLING 401 or LING 200 or 400 and two years of college-level French. Offered jointly with FRENCH 409.

See the Time Schedule section, pages 85-129, for class dates and times.
See the Quick Reference Guide to Quarter Deadlines, pages 130-131, for important dates and deadlines.
Linguistics (LING)

200+ Introduction to Linguistic Thought (5) VLPA/I&S, QSR
Language as the fundamental characteristic of the human species; diversity and complexity of human languages; phonological and grammatical analysis; dimensions of language use; language and writing; impact of historical linguistics on contemporary theory. Not open for credit to students who have taken 400.

203 Introduction to Anthropological Linguistics (5) VLPA/I&S
Linguistic methods, theories used within anthropology. Descriptive and theoretical linguistics compared; historical linguistics, comparative method; socio-linguistics; language, culture; human language and animal communication compared; survey of history of anthropological linguistics in North America. Not open for credit to students who have taken 200, 201, or 400. Offered jointly with ANTH 203.

400+ Survey of Linguistic Method and Theory (4) VLPA, QSR
Major linguistic theories in phonology, syntax and semantics; linguistic analysis and argumentation. Intended for students who plan to pursue further linguistic or language-related study; not open for credit to students who have taken 200 or 201.

449A Second-Language Learning (3) VLPA
Issues related to the psychological aspects of second-language learning. Prerequisite: 200 or 400 or permission of instructor.

451A 452A Phonology I, II (4) VLPA/I&S
Speech sounds, mechanism of their production and structuring of sounds in languages; generative view of phonology; autosegmental and metrical phonology. Offered jointly with ANTH 451A, 452A. Prerequisite: 200 or 400, either of which may be taken concurrently.

461A Syntax I (4) VLPA/I&S
Study of the structural properties of language; introduction to generative transformational syntax. Offered jointly with ANTH 461A. Prerequisite: 200 or 400 or permission of instructor.

Courses by special arrangement
Undergraduate Research, Independent Study or Research, Master’s Thesis, Doctoral Dissertation

Romance Linguistics (ROLLING)

Courses by special arrangement
Senior Essay, Special Seminar and Conference

Spanish Linguistics (SPLING)

409+ Spanish Phonetics (5) VLPA
Analysis of sounds: training in pronunciation, intonation and close transcription of Spanish language in its modalities. Prerequisite: SPAN 302 or graduate standing or instructor permission. Recommended: SPAN 301 and an introduction to linguistics such as LING 200, SPAN 323 or LING 407. Offered jointly with SPAN 409.

Provides an introduction to the Spanish sound system, focusing on how sounds are produced (articulatory phonetics). In addition to analyzing the basic elements (consonants and vowels), articulation of sequences of sounds, syllabification and intonation are studied. Includes practical training for those who wish to refine their pronunciation of Spanish. Primary emphasis will be on Latin American Spanish; there will be some analysis of dialectal variation within the Spanish-speaking world, and comparison with the sounds of English. This course will be particularly useful for Spanish majors, and for those who teach Spanish, or hope to do so, whether native speakers of Spanish or English.

Mathematics (MATH)

C36 Padelford Hall, Box 354350
Telephone: 543-6830

Summer Quarter courses offered in mathematics range from the precalculus level to a selection of advanced courses at senior and graduate levels. Mathematics majors can take most of the standard senior-level courses during the summer, including 402, 407 and 427. Courses of interest to teachers include Introduction to Modern Algebra for Teachers (411, 412), History of Mathematics (420) offered only during Summer Quarter, and Geometry for Teachers (444, 445). Also see Statistics.

Students planning to take MATH 111, 120 or 124 must satisfy minimum placement requirements. The current requirements are described in "Placement Requirements for MATH 107, 111, 120, 124," available at the Undergraduate Advising Center, 9 Communications, and Mathematics Advising, C36 Padelford.

111 Applications with Algebra (5) NW, QSR
Use of graphs and algebraic functions as found in business and economics. Algebraic and graphical manipulations to solve problems. Exponential and logarithmic functions; various applications to growth of money. Prerequisites: one and one-half years of high school algebra and qualifying test or equivalent.

112 Application of Calculus to Business and Economics (5) NW, QSR
Rates of change, tangent, derivative, accumulation, area, integral in specific contexts, particularly economics. Techniques of differentiation and integration. Application to problem solving. Optimization. Credit does not apply toward a mathematics major. Prerequisite: 111.

120 Precalculus (5) NW
Polynomial, rational, exponential and trigonometric functions. For students needing preparation for 124; not advised for students who will not take 124. Does not satisfy natural science distribution or QSR proficiency requirement. Prerequisites: two years high school algebra and placement test or equivalent.

124 Calculus with Analytic Geometry I (5) NW, QSR
Differeniation, applications of derivative, integration. Calculus for natural sciences and engineering students. Prerequisites: four years of college preparatory mathematics or equivalent (normally including precalculus or mathematical analysis with grades of B or better) and placement test, or 2.5 or better in 120, or equivalent.

125 Calculus with Analytic Geometry II (5) NW
Applications of integration, transcendental functions, methods of integration and improper integrals, introduction to first order ordinary differential equations. Prerequisite: 124.

126 Calculus with Analytic Geometry III (5) NW
Vectors and vector functions in space, functions of several variables and applications, multiple integrals. Prerequisite: 125.

170 Mathematics for Elementary School Teachers (3) NW
Basic concepts of numbers and operations (170) and of geometry (171). Emphasizes problem solving, communication of mathematical ideas, and analysis of sources of difficulty in learning/teaching these concepts. Credit may not apply toward a mathematics major. 170 required for elementary education students. Credit/no credit only. Prerequisites: three years of high school math.

205 Elementary Linear Algebra (3) NW
Systems of equations, vector spaces, matrices, linear transformations, characteristic vectors. Not open for credit to students who have taken 308. Prerequisite: 124 or 112.
College of Arts and Sciences

301 Elementary Number Theory (3) NW
Brief introduction to some of the fundamental ideas of elementary number theory. Prerequisite: 126 or 136.

307 Differential Equations (3) NW

308 Linear Algebra (3) NW
Linear algebra (matrices and linear equations, the vector space Rn, eigenvalues), systems of first order linear ordinary differential equations. Prerequisite: 126 or 136.

309 Linear Analysis (3) NW
Linear algebra (inner products, projections), Fourier series and Laplace transform with applications to partial differential equations. Prerequisite: 307, 308.

324 Advanced Calculus I (3) NW
Vector and scalar fields, line integrals, surface and volume integrals, theorems of Green, Gauss and Stokes. Prerequisite: 126.

327 Introductory Real Analysis I (3) NW
Limits and continuity of functions, sequences, series tests, absolute convergence, uniform convergence. Power series, improper integrals, uniform continuity, fundamental theorems on continuous functions, theory of the Riemann integral. Prerequisites: 126 and 307.

390 Probability and Statistics in Engineering and Science (4) NW
Concepts of probability and statistics. Conditional probability, independence, random variables, distribution functions. Descriptive statistics, transformations, sampling errors, confidence intervals, least squares and maximum likelihood. Exploratory data analysis and interactive computing. Students may not receive credit for both 390 and STAT 481. Prerequisites: 307 or 324, and 205 or 308. Offered jointly with STAT 390.

394 Probability I (3) NW
Sample spaces; basic axioms of probability; combinatorial probability; conditional probability and independence; binomial, Poisson and normal distribution. Prerequisite: 126. Offered jointly with STAT 394.

395 Probability II (3) NW
Random variables; expectations and variance; laws of large numbers; normal approximation and other limit theorems; multidimensional distributions and transformations. Prerequisite: 394. Offered jointly with STAT 395.

402 Introduction to Modern Algebra (3,3) NW
Introductory. Algebraic systems; elementary theory of groups, rings and fields; polynomials; topics in linear algebra; reductions of forms. Prerequisites: 136, 327 or 340 for 402; 402 for 403.

407 Linear Optimization (3) NW
Maximization and minimization of linear functions subject to constraints consisting of linear equations and inequalities; linear programming and mathematical modeling. Simplex method, elementary games and duality. Prerequisite: 308.

427 Topics in Applied Analysis (3) NW
Some elementary functions of a complex variable, Cauchy integral formula and applications, Taylor and Laurent series, conformal mapping. Prerequisite: 327, and 328 recommended.

428 Topology in Applied Analysis (3) NW
Intensive. Fourier Series, orthogonal functions and boundary value problems. Prerequisites: 309, and either 327 or 356.

429 Topics in Applied Analysis (3) NW
Intensive. Material selected from the following topics: Fourier transforms, Laplace transforms, Bessel functions, Legendre functions, and the application of these ideas to the solution of certain ordinary and partial differential equations. Prerequisite: 427 and 428.

444, 445 Geometry for Teachers (3,3) NW
Concepts of geometry for multiple approaches: discovery, formal and informal reasoning, transformations, coordinates, exploration using computers and models. Topics selected from Euclidean plane and space geometry, spherical geometry, non-Euclidean geometries, fractal geometry. Designed for teaching majors. Prerequisites: 126 or 136, 205 or 308 for 444; 444 for 445.

487 Advanced Mathematics Computer Lab (1) NW
Laboratory activities in the use of computing as a tool for doing mathematics. (May be used by mathematics majors to satisfy the degree requirement for two credits in computing.) Offered only as a companion lab to a designated section of a 400-level mathematics course. Prerequisite: concurrent enrollment in designated section of 400-level math course. Credit/no credit only.

496 Honors Seminar (3) NW
Problem seminar for senior honors students and first-year graduate students. Prerequisite: permission of instructor.

498 Special Topics in Mathematics (2-5, max. 15)
Reading and lecture course intended for special needs of advanced students. Prerequisite: permission of instructor.

510 Seminar in Algebra (2)
Prerequisite: permission of graduate program coordinator. Credit/no credit only.

530 Seminar in Analysis (2)
Prerequisite: permission of graduate program coordinator. Credit/no credit only.

550 Seminar in Geometry (2)
Prerequisite: permission of graduate program coordinator. Credit/no credit only.

See the Time Schedule section, pages 85-129, for class dates and times.
See the Quick Reference Guide to Quarter Deadlines, pages 130-131, for important dates and deadlines.
570 Seminar in Topology (2)
Prerequisite: permission of graduate program coordinator. Credit/no credit only.

590 Seminar in Probability (2)
Prerequisite: permission of instructor. Credit/no credit only.

597 Seminar on Teaching Math
(1, max. 3)
Issues in the teaching and learning of college mathematics, such as discovering and working with student background and expectations, increasing student engagement with course materials and evaluating student achievement. For graduate students who are, or soon will be, teaching mathematics courses on their own. Credit/no credit only.

Courses by special arrangement
Independent Study or Research, Master’s Thesis, Doctoral Dissertation

Microbiology (MICROM)
G311 Health Sciences Center, Box 357242
Telephone: 543-5824

General Microbiology with Laboratory is recommended for teachers of general science or biology and for students of biology, chemistry, pharmacy and nursing. Practical experience in a diagnostic laboratory and in media room procedures is available to a limited number of students. Graduate instruction is offered in the summer through research and seminars.

301 General Microbiology (3) NW
Acquaints students with microorganisms and their activities. Topics include microbial cell structure and function, metabolism, microbial genetics, and the role of microorganisms in disease, immunity and other selected applied areas. Prerequisite: two quarters of chemistry; a course in biological science is recommended.

302 General Microbiology Laboratory (2) NW
Laboratory course primarily for students taking 301. Covers a variety of microbiological techniques, with experiments designed to illustrate major concepts of microbiology, virology and immunology. No auditors. Prerequisite: concurrent or previous registration in 301, or permission.

320 Media Preparation (2) NW
Practical work in preparation of culture media. Nutritional requirements of microorganisms and sterilization methods are considered. For students expecting to enter vocation involving laboratory work with bacteria. Prerequisites: 301 and 302, or equivalent, and entry code. Credit/no credit only.

500 Introduction to Research
(•, max. 20)
Introduction to research areas of the faculty and the techniques employed in their investigations. Prerequisite: graduate standing in microbiology. Credit/no credit only.

555 Advanced Clinical Microbiology (2.5)
Attendance at daily plate rounds of the Division of Clinical Microbiology. Designed to increase understanding of clinical microbiological work and its application to the care of the patient. Prerequisites: 443 and entry code. Credit/no credit only.

556 Clinical Microbiology Training and Research
(•, max. 12)
Training in clinical microbiology and research. Attendance at daily laboratory rounds in addition to bench-side training and research. For medical students and microbiology graduate students only. Prerequisites: 443 and entry code. Credit/no credit only.

Courses by special arrangement
Honors Undergraduate Research, Undergraduate Library Research, Undergraduate Laboratory Research, Independent Study or Research, Master’s Thesis, Doctoral Dissertation

Music
116 Elementary Music Theory I (2) VLPA
Music Advising, Box 353450
Telephone: 543-1239

Music courses are classified as follows:
• Courses Primarily for Nonmajors
• Short Workshops Primarily for Music Educators and Music Majors
• Ensemble Courses and Applied Music

The School of Music offers a master’s degree program for music educators which may be completed entirely in the summer. For more information, contact the School of Music, (206) 543-2726.

Courses Primarily for Nonmajors (MUSIC)

116+ Elementary Music Theory I (2) VLPA
For those with no hands-on music experience. Rudiments of music; notation of time, small pitch structures (e.g. some scales, chords, rhythmic patterns), some analysis. David Kappy.

120 Survey of Music (5) VLPA
Studies in listening with emphasis on the changing components of Western art music. David Williamson

121+ The Orchestra (2) VLPA
Development of the orchestra and its literature. Sue Niemoyer

122+ The Opera (2) VLPA
An introduction to opera through selected masterworks, from Monteverdi to the present. Primarily for non-majors. Sue Niemoyer

162 American Popular Song (5) VLPA
Historical, social and stylistic study of popular idioms from the late 19th century to the present. Most attention to contemporary idioms. Influences of music industry on taste and style. Claire Jones

317+ Music Cultures of the World (5) VLPA/1AS
A survey of the music of Africa, Americas and Oceania. Ter Ellington

331+ History of Jazz (3) VLPA
Survey of the major periods and styles of jazz, New Orleans jazz to the avant-garde and popular jazz of today. Study of the major characteristics of each style. Tom Collier

488+ Computer Applications in Music (3) VLPA
Music workstation application using microcomputers, music synthesizers, and analog-to-digital converters: music editing and score production, transcription, waveform and spectral analysis, and introduction to programming. Richard Karpen
MUSIC OF OTHER CULTURES FOR EDUCATORS AND MUSIC MAJORS

World Music Traditions (MUSIC 389, 2-3 credits)
June 23-August 22
Taught by visiting artists. Topics this summer: Angel Aparicio, Venezuelan harp ensemble, apra harp; Euclides Aparicio, Venezuelan harp ensemble, cuatro and maracas; Pompomprap, Phossawadi, Thai string ensemble. Primarily for majors; nonmajors on a space-available basis. No auditors. A $30 MUSAP fee and faculty code are required.

Teaching the Music of Selected Cultures (MUSIC 475, 1 credit each)
July 21-24

The Middle East (Section A)
This workshop will include music of Israel and selected parts of the Arab Middle East, with music that is suitable for use in elementary school.
Rita Klinger.

Traditional Choral Music of South Africa (Section B)
This workshop will feature South African traditional songs, with attention to the integration of music, appropriate vocal timbre, and culturally appropriate ways of teaching and learning. Sue Williamson.

Short Workshops Primarily for Music Educators and Majors: Applied Music (MUSAP)

220 ♦ MIDI Techniques (2) VLPA
June 23-July 3 and July 7-17 Overview of MIDI (Musical Instrumental Digital Interface) technologies in the school environment. Tom Collier

221 ♦ Secondary MIDI Techniques (2) VLPA
July 7-17 A follow-up to MUSAP 220, this course will explore further applications in the use of MIDI technology in the school environment. Focus is on editing and performance techniques involving a complex MIDI workstation. Primarily for music education majors. Prerequisite: MUSAP 220. Tom Collier

389 World Music Traditions (2-3) VLPA &S
Taught by visiting artists. Primarily for majors; nonmajors on a space-available basis. No auditors. Topics: Angel Aparicio, Venezuelan harp ensemble, apra harp; Euclides Aparicio, Venezuelan harp ensemble, cuatro and maracas; Pompomprap, Phossawadi, Thai string ensemble. A $30 MUSAP fee and faculty code are required.

Music Education (MUSED)

405 Marching Band Techniques (2) VLPA
June 23-July 3 Basics of marching and maneuvering discussed and used to write drill. Covers selection of music, use of marching procession and show design. Students complete a drill for their own band or for an instrumentarium determined by the instructor. Timothy Salzman

410 Instrumental Rehearsal Techniques (3) VLPA
June 23-July 3 Includes score preparation, rehearsal formats and error detection. Prerequisite: basic conducting skills. Timothy Salzman

431 Curriculum in Music Education (3) VLPA
Principles and practices of curriculum design applied to the development of the music curriculum. Individual or group work on elementary and secondary school music curriculum projects. Prerequisite: MUSED 340, music teaching, student teaching or permission of instructor. George DeGeffenfeld

475 Teaching the Music of Selected Cultures (1, max. 6) VLPA
A. Middle East (1)
July 21-24 This workshop will include music of Israel and selected parts of the Arab Middle East, with music that is suitable for use in elementary school. Rita Klinger

B. Traditional Choral Music of South Africa (1)
July 21-24 This workshop will feature South African traditional songs, with attention to the integration of music, appropriate vocal timbre, and culturally appropriate ways of teaching and learning. Sue Williamson

C. Songs and Singing Games of American Children (*, 1)
July 28-31 This workshop will focus on music of the children of immigrants to America. It will include a variety of songs, dances and games that reflect both the diversity and similarity of music within the child-song genre. Rita Klinger

496 Special Topics in Music Education (1-3, max. 10) VLPA
A. Removing the Fear of Improvisation (1)
June 23-26 Musicians with little or no improvisation experience will be given opportunities to become more freely expressive on their instruments, or vocally. Techniques will be modeled for use by teachers in leading children and adolescents toward the ability to improvise. Roy Cummings

B. Jazz Literature and Rehearsal Techniques (2)
June 30-July 10 For those who wish to maintain playing skills and preview new material from junior high through professional-level jazz ensemble charts. Styles, techniques, rehearsal and performance skills discussed and demonstrated. Those who do not play an instrument have the opportunity to sit in the middle of a band and observe how the material is interpreted in each section (saxophone, trumpet, trombone, rhythm). Roy Cummings

C. Secondary School Choral Pedagogy: Techniques and Materials (1)
June 23-July 3 A workshop for junior high and high school choral directors. Topics will include voice building, rehearsal preparation and techniques, teaching musicianship and reading sessions. Geoffrey Boers.

D. Choral Conducting (*, 2)
June 23-July 3 Course will explore conducting technique with particular emphasis on its application in the public school ensemble rehearsal. Basic vocal pedagogy and style will be discussed as components of gesture. Geoffrey Boers

E. Technology and the Standards (*, 1)
June 28-July 31 This workshop will focus on the use of the Internet and the Smithsonian's interactive CD-ROM Crossroads, Southern Routes as a resource for music teachers. Participants will learn how to incorporate online lesson plans that accompany the CD-ROM into their music curriculum. Rita Klinger

See the Time Schedule section, pages 85-129, for class dates and times.
See the Quick Reference Guide to Quarter Deadlines, pages 130-131, for important dates and deadlines.
Near Eastern Languages and Civilization

F. Oboe Workshop (3)
July 7-13 A program for performers and educators. Daily master classes covering standard solo and orchestral repertoire, etudes from the Barrett method and Ferling Etudes books, reed making, instrument maintenance, teaching methods. A recital featuring workshop participants and a Concerto Reading Session with the UW Chamber Orchestra. Rebecca Henderson

501+ Introduction to Research in Music Education (3)
Seminar in research design and method with emphasis on identification of problems in music instruction, interpretation of data and application of findings to classroom settings. Second section is a continuation of the first section. Rita Klinger

550+ Proseminar in Music Education (3)
Examination of the major literature in the philosophy, history, psychology and sociology of formal school music instruction. George DeGraffenreid

560+ Contemporary Issues in Music Education (2)
Seminar focusing on review of literature on psychological and sociological aspects of music education, including historical and philosophical foundations of music education in the United States. Appropriate for M.A. students seeking guidance in preparation of topic for examinations. Prerequisite: 24 credits toward the M.A. Steve Demorest

Music (MUSIC)

201+ First-Year Music Theory I (3) VLPA
First quarter of core theory sequence for majors. Introduction to modal counterpoint and 16th-century polyphony through the species. To be taken concurrently with MUSIC 204. Prerequisite: 119 or equivalent and by placement examination for 201. Jennifer Milne

202A First-Year Music Theory II (3) VLPA
Second quarter of core theory sequence for majors. Instruction in tonal harmony and counterpoint. To be taken concurrently with MUSIC 205. Prerequisite: 119 or equivalent and by placement examination for 201. Jennifer Milne

204+ First-Year Ear Training (1) VLPA
First quarter of core ear training sequence for majors. Diatonic melodies in major and minor, with sample and compound meter signatures, plus material coordinated with 201. To be taken concurrently with 201. Admission by placement examination only. Ryan Hare

205A First-Year Ear Training (1) VLPA
Second quarter of core ear training sequence for majors. Diatonic melodies in major and minor, with sample and compound meter signatures, plus material coordinated with 202. To be taken concurrently with 202. Admission by placement examination only. Ryan Hare

350A Choral Conducting (1) VLPA
Overview of choral conducting patterns. Score, voice warm-up, and intonation. Tempo fluctuation, left-hand, diction, discipline. Designed for music and music education majors. Prerequisite: 212 or permission of instructor. Jeffrey Cooper

379 Junior Recital (1) VLPA
479 Senior Recital (1) VLPA
551 Practicum in Music Instruction (3)
559 Master’s Recital (3)
580+ Advanced Conducting: Instrumental (3)
Timothy Salzman

590 Doctoral Recital (*)
Courses by special arrangement
Undergraduate Research, Independent Study or Research, Master’s Thesis, Doctoral Dissertation

Music History (MUHST)

500+ Seminar in Methods of Music Research (3)
Explores various approaches to research in music at the graduate level, examining specialized bibliographical resources, controversial arguments about musical issues, and other matters of musical criticism required to begin advanced study of music. This seminar serves as a prerequisite course for all graduate history courses except MUSIC 515. ESL students must complete their ESL program before enrolling in this class. Entry code required. JoAnn Taricani

503+ Readings in Medieval and Renaissance Music (5)
The history of musical style from circa 900 to 1600. Concepts and styles of medieval and Renaissance music. Prerequisite: permission of instructor. JoAnn Taricani

Ensemble Courses and Applied Music (MUSEN)

The following ensemble courses are offered for those possessing at least an intermediate level of musicianship. Contact the School of Music Advising Office or instructor for guidance. Entry codes are not required.

300/500 Summer Chamber Orchestra (1) VLPA
Robert Hau Morgan

302+ 502+ Symphonic Band (1) VLPA
Tim Salzman/Scott Higbee

350A 550+ University Chorale (1) VLPA
Jeffrey Cooper

368/568 Harp Ensemble (1) VLPA
Pamela Vokolek

Near Eastern Languages and Civilization

229 Denny Hall, Box 353120
Telephone: 543-6033
fax: (206) 685-7936

Near Eastern Languages and Civilization courses are offered in:
- Arabic
- Hebrew
- Kazakh
- Kirghiz
- Tajik
- Uzbek
- Near Eastern courses in English

The Department of Near Eastern Languages and Civilization is offering intensive language study in Arabic, Hebrew, Kazakh, Kirghiz, Tajik and Uzbek languages, enabling a student to complete one year of the language during Summer Quarter. Uzbek, Kazakh, Kirghiz and Tajik are partially funded by grants. Students interested in receiving information about fellowships for Uzbek, Kazakh, Kirghiz and Tajik should contact the department.

Courses designated with an asterisk (*) require 20 contact hours. Students enrolling in such courses must also register for five credits of NEAR E 490.

Arabic (ARAB)

401 Intensive Elementary Arabic (15)
Intensive study of grammar, with oral and written drill and reading of selected texts. Allows students to complete the first year of standard Arabic during Summer Quarter. No credit if 411, 412, 413 taken.
**Hebrew (HEBR)**

**401 Intensive Elementary Hebrew (15)**

Intensive study of grammar, with oral and written drill and reading of selected texts. Modern Israeli Hebrew. Core vocabulary, grammar, conversational text, and oral and written communication. Excerpts from modern Hebrew prose and poetry. Allows students to complete the first year of Hebrew during Summer Quarter. No credit if 411, 412, 413 taken.

**Kazakh (TKIC)**

**405 Intensive Intermediate Kazakh (15)**

Readings of selected texts in modern literary Kazakh with continuing emphasis on grammar and syntax. Allows undergraduate and graduate students to complete second year Kazakh during Summer Quarter. Prerequisite: 402 or 416.

**Kirghiz (TKIC)**

**403 Intensive Elementary Kirghiz (15)**

Intensive study of grammar, with oral and written drill and reading of selected texts. Allows undergraduate or graduate students to complete the first year of Kirghiz instruction during Summer Quarter.

**Tajik (PRSAN)**

**401 Intensive Elementary Tajik (15)**

Modern literary Tajik. Intensive study of grammar, with oral and written drill and reading of selected texts. Allows undergraduate or graduate students to complete the first year of Tajik during Summer Quarter.

**Uzbek (TKIC)**

**401 Intensive Elementary Uzbek (15)**

Intensive study of grammar, with oral and written drill and reading of selected texts. Allows student to complete the first year of modern literary Uzbek during Summer Quarter. No credit if 411, 412, 413 taken.

**404 Intensive Intermediate Uzbek (15)**

Readings of selected texts in modern literary Uzbek, with continuing emphasis on grammar and syntax. Allows undergraduate and graduate students to complete second year Uzbek during Summer Quarter. Prerequisite: 401 or 413. No credit if 421, 422, 423 taken.

**Near Eastern Courses in English (NEAR E)**

**490 Supervised Study (1-6, max. 18)**

Special work in Near Eastern studies for graduates and undergraduates. Prerequisite: permission of instructor.

**Courses by special arrangement**

*Independent Study or Research*

**Philosophy (PHIL)**

345 Savory Hall, Box 353350
 Telephone: 543-5855

The Department of Philosophy offers a wide range of courses designed to introduce students to various aspects of philosophical thought. This summer's courses are concerned with the clarification of philosophical issues that arise in considering reasoning, epistemology, morality, law, literature, art and religion.

**112 Philosophical Issues in Environmental Studies (5)**

VLPA/I&S

Focuses on some of the philosophical questions that arise in connection with environmental studies. Topics to be considered include: the ideological roots of current issues, values and the natural world, public policy and risk assessment, intergenerational justice, and social change.

**114 Philosophical Issues in the Law (5)**

VLPA/I&S, QSR

Analysis and critical assessment of various philosophical issues in law and legal reasoning. Material drawn from actual law cases, as well as writings by contemporary philosophers of law and lawyers. Topics include criminal responsibility, civil disobedience, abortion, reverse discrimination, enforcement of morals. Special legal or philosophical training not required.

**115 Practical Reasoning (5)**

VLPA/I&S, QSR

Elementary symbolic logic. The development, application and theoretical properties of an artificial symbolic language designed to provide a clear representation of the logical structure of deductive arguments.

**120 Introduction to Logic (5)**

VLPA/I&S/NW, QSR

Introduction to logic emphasizing concepts and methods useful for practical analysis of arguments in everyday contexts. Meaning; syllogisms; logical diagrams; inductive and statistical inference; informal fallacies; argument structure; perhaps some beginning symbolic logic. A wide variety of examples, including logical puzzles, are considered.

**160 A Historical Introduction to the Philosophy of Science (5)**

VLPA/I&S

Study of how scientific theories are justified and why they are accepted, using selected examples from the history of science.

**240 Introduction to Ethics (5)**

VLPA/I&S

Critical study of some typical views of the basis and presuppositions of morality and of moral knowledge. Critical introduction to various types of normative ethical theory, including utilitarian deontological and virtue theories.

**241 Topics in Ethics (5)**

VLPA/I&S

Examines some of the central ethical issues that confront people at work. While several of the issues are often confronted by managers, there are those that concern everyone: corporate social responsibility, product liability, environmental protection, honesty in negotiation, and the marketplace and social justice. Warning: this is an intensive short-term course covering a full-quarter's work in 4-1/2 weeks.
### courses by special arrangement

**Independent Study or Research, Doctoral Dissertation**

**Physics (PHYS)**
C139 Physics-Astronomy Building, Box 351560
Telephone: 543-2772

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>110</td>
<td>Liberal Arts Physics (5) NW, QSR</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>114</td>
<td>General Physics (4) NW, QSR</td>
<td>4</td>
<td>Mechanics and sound. Basic principles of physics presented without use of college-level mathematics. Suitable for students majoring in technically oriented fields other than engineering or the physical sciences. Concurrent registration in 114 strongly recommended. Prerequisites: working knowledge of algebra and trigonometry, and one year of high school physics.</td>
</tr>
<tr>
<td>115</td>
<td>General Physics (4) NW</td>
<td>4</td>
<td>Heat and electromagnetism. Concurrent registration in 118 strongly recommended. Prerequisite: 114.</td>
</tr>
<tr>
<td>116</td>
<td>General Physics (4) NW</td>
<td>4</td>
<td>Light and modern physics. Concurrent registration in 119 strongly recommended. Prerequisite: 115.</td>
</tr>
<tr>
<td>322</td>
<td>Modern Philosophy (5) I&amp;S</td>
<td></td>
<td>Examination of metaphysical and epistemological problems from the works of Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume and Kant.</td>
</tr>
<tr>
<td>347</td>
<td>Philosophy in Literature (5) VLP/A/I&amp;S</td>
<td></td>
<td>Study of philosophical ideas expressed in works of literature.</td>
</tr>
<tr>
<td>445</td>
<td>Philosophy of Art (5) VLP/A/I&amp;S</td>
<td></td>
<td>Critical examination of various accounts of the nature of art, artistic emotion of works of art.</td>
</tr>
<tr>
<td>456</td>
<td>Metaphysics (5) I&amp;S</td>
<td></td>
<td>Examination of issues and problems that arise in connection with such topics as freedom of the will, the nature of persons and personal identity, the existence of God, time, necessary truth and universals. The emphases vary from year to year. Recommended: 120 and 322 or equivalent.</td>
</tr>
<tr>
<td>334</td>
<td>Electric Circuits Laboratory (3) NW</td>
<td></td>
<td>Basic elements of DC, AC and transient circuits; electronic devices; electrical measurements. Prerequisites: 123, MATH 126 or 136 for 334; 334 for 335.</td>
</tr>
<tr>
<td>401</td>
<td>Special Problems (*)</td>
<td></td>
<td>Supervised individual study. Prerequisite: entry code.</td>
</tr>
<tr>
<td>405, 407</td>
<td>Physical Science for Teachers and Physics for Teachers (10) NW</td>
<td></td>
<td>June 26-August 3: The Physics Department offers a six-week, 10-credit summer program in physics and physical science for full-time inservice teachers. Directed by Dr. Lillian C. McDermott, professor of physics, and supported in part by an NSF grant, the program is tuition-free and stipends are offered. This course is designed to strengthen subject matter background in topics typically covered in physics and physical science curricula using a hands-on, inquiry-oriented method of instruction; emphasizes the development of fundamental concepts and reasoning skills through laboratory experience, and meets the needs of teachers with varying levels of preparation in science and mathematics. Although the application deadline was Feb. 15, 1997, spaces may still be available. For information and applications, contact Joan Valles, (206) 685-2046; fax, 685-0635.</td>
</tr>
</tbody>
</table>

**Courses by special arrangement**

**Independent Study or Research, Doctoral Dissertation**

**Physics (PHYS)**
C139 Physics-Astronomy Building, Box 351560
Telephone: 543-2772

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>117</td>
<td>General Physics Laboratory (1) NW</td>
<td>1</td>
<td>Mechanics laboratory, to be taken concurrently with 114. Credit/no credit only.</td>
</tr>
<tr>
<td>118</td>
<td>General Physics Laboratory (1) NW</td>
<td>1</td>
<td>Heat and electromagnetism laboratory, to be taken concurrently with 115. Credit/no credit only.</td>
</tr>
<tr>
<td>119</td>
<td>General Physics Laboratory (1) NW</td>
<td>1</td>
<td>Sound, light and modern physics laboratory, to be taken concurrently with 116. Credit/no credit only.</td>
</tr>
<tr>
<td>121</td>
<td>Mechanics (4) NW, QSR</td>
<td>4</td>
<td>Basic principles of mechanics. Concurrent registration in 131 required. Prerequisites: one year of high school physics or permission, concurrent or previous MATH 124 or 134.</td>
</tr>
<tr>
<td>122</td>
<td>Electromagnetism and Oscillatory Motion (4) NW</td>
<td>4</td>
<td>Basic principles of electromagnetism, the mechanics of oscillatory motion. Concurrent registration in 122 required. Prerequisites: 121, concurrent or previous MATH 125 or 135.</td>
</tr>
<tr>
<td>123</td>
<td>Waves (4) NW</td>
<td>4</td>
<td>Electromagnetic waves, optics and waves in matter. Concurrent registration in 133 required. Prerequisites: 122, concurrent or previous MATH 126 or 136.</td>
</tr>
<tr>
<td>131</td>
<td>Experimental Physics (1) NW</td>
<td>1</td>
<td>Experimental topics in physics for science and engineering majors. Concurrent registration in 121 required.</td>
</tr>
<tr>
<td>132</td>
<td>Experimental Physics (1) NW</td>
<td>1</td>
<td>Experimental topics in physics for science and engineering majors. Concurrent registration in 122 required.</td>
</tr>
<tr>
<td>133</td>
<td>Experimental Physics (1) NW</td>
<td>1</td>
<td>Experimental topics in physics for science and engineering majors. Concurrent registration in 123 required.</td>
</tr>
<tr>
<td>224</td>
<td>Thermal Physics (3) NW</td>
<td>3</td>
<td>Introduction to heat, thermodynamics, elementary kinetic theory and the physics of continuous media. Prerequisites: 122, which may be taken concurrently, and MATH 126.</td>
</tr>
<tr>
<td>225</td>
<td>Modern Physics (3) NW</td>
<td>3</td>
<td>Special theory of relativity: phenomena of modern physics with emphasis on photons, electrons and atoms; introduction to quantum physics. Prerequisites: 123, concurrent or previous MATH 126 or 136.</td>
</tr>
</tbody>
</table>

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* a term: June 23-July 23  
* b term: July 24-Aug. 22  
* No symbol: full term June 23-Aug. 22

See page 8 for key to symbols and abbreviations. Courses listed are subject to revision.
THE MEDIA AND FOREIGN POLICY
An American Politics Seminar

POL S 405A, 5 credits
June 23-July 29

This course introduces political communications students to the scholarly analysis of the relationship between mass communication and political processes. Institutions and actors, including individual citizens, will be focused on.

Attention will be focused on the structural and functional features of media, governmental and quasi-governmental institutions, and on the complex political relationships found between these entities.

A particular concern will be the development of a clear, useful conceptualization of political power, one that encompasses the consideration of the media.

Throughout the primary emphasis is on political communication in the United States; the general analytical perspective developed may also be applied to political communication in other countries.

Political Science (POL S)
101 Gowen Hall, Box 353530
Telephone: 543-1824, 543-2780

To meet the needs and interests of both continuing and visiting students, the Department of Political Science offers a varied selection of summer classes. Introductory and advanced courses are offered in political theory, American politics, international relations, and comparative politics.

This summer's offerings in international relations and comparative politics include American foreign policy, labor and democratization, and world electoral reforms and European politics. American politics topics include American constitutional law, environmental policy, American city politics, the media and foreign policy.

See page 78 for information about American Foreign Policy (POL S 321), Comparative Politics Seminar: Choosing Winners: Electoral Systems and Democracy (POL S 447YA), and the Politics of Criminal Justice (POL S 464) offered through the UW Evening Degree Program.

Through the department's affiliation with The Washington Center in Washington, D.C., continuing students can apply for a 15-credit summer internship program in the nation's capital. Information about the program is available in the Political Science Advising Offices, Gowen 115 and 107. The application closing date for summer participants in the internship program was March 15.

202 Introduction to American Politics (5) I&S
Institutions and policies in the American political system. Ways of thinking about how significant problems, crises and conflicts of American society are resolved politically.

203 Introduction to International Relations (5) I&S
The world community, its politics and government.

204 Introduction to Comparative Politics (5) I&S
Political systems in a comparative framework. Traditional and contemporary approaches to the study of governments and societies in different countries.

212 Philosophy of Feminism (5) I&S
Philosophical analysis of the concepts and assumptions central to feminism. Theoretical positions within the feminist movement; view of the ideal society, goals and strategies of the movement; its relation to racial liberation and ethical issues. Offered jointly with PHIL 206/WOMEN 206.

270 Introduction to Political Economy (5) I&S
Political economy as a tool for understanding and evaluating the political world. Combines theory, methods and insights derived from economics and political science and applies them to a range of substantive issues.

273 Concept of Power (5) I&S
How to understand and explain relationships of power. Readings from Marxism, Weberian sociology, anarchism, classical political philosophy and contemporary political sciences. May also include works of fiction.

303 Public Policy Formation in the United States (5) I&S
Policy decision-making with emphasis on: how issues arise, the way they become part of the policy agenda of the executive and the legislature, how these institutions organize to handle policy issues, and the roles of the legislature, the executive and the bureaucracy. Public policy literature and familiarization with key aspects of policy decision-making at the national, state and local levels.

305 The Politics of Mass Communication (5) I&S
Role of mass audiences in politics from the standpoint of the communication strategies used to shape their political involvement. Topics include social structure and political participation, political propaganda and persuasion, the political uses of public opinion, and the mass media and politics.

324 Europe in World Politics (5) I&S
Independent and coordinated efforts of Britain, France and West Germany to adapt to the post-World War II global system. Creation and development of the Atlantic alliance. Relations with the Soviet bloc. Decolonization and the evolution of relations with the Third World. The movement for European integration. Prerequisite: 203 or equivalent.

325 The Arab-Israeli Conflict (5) I&S
The politics of conflicting ideologies: Zionism and Arab nationalism; formation of the state of Israel; development of Palestinian nationalism; Arab-Israeli wars. Reemergence of Palestinian activism; domestic sources of foreign policy; the role of superpowers.

329 Global Communications (5) I&S
Introduces students to the history, purpose, channels, content, technologies, policy, and regulation of international communications systems. Issues covered include media development between post-industrial and developing nations; imbalances in international new and information flow, and the emergence of global communications. Offered jointly with CMU 320.
342 Government and Politics of Latin America (5) I&S
Analysis of the political dynamics of change in Latin America, comparing various national approaches to the political problems of modernization, economic development, and social change.

353 United States Congress (5) I&S

354 Elections and Voting in the United States (5) I&S
Electoral institutions and processes of the United States; the idea and practice of elections, the electoral system, individual voting behavior, collective voting behavior and the impact of elections on policy. Recommended: 101 or 202.

355 The American Presidency (5) I&S
The American presidency; its evolution, its occupants, and its place within the American system. Topics include the presidential character, war, elections, Watergate, the economy and the Constitution.

356 Society and Politics (5) I&S
Focus on the causes of political change in democratic countries, including public opinion, social movements, interest group activity, and party organization. Offered jointly with SOC 356.

360 Introduction to United States Constitutional Law (5) I&S
Growth and development of constitutionally guaranteed private rights, with particular reference to the period since 1937.

363 Law in Society (5) I&S
Inquiry into how law matters in social practice. Examines general theories of law, the workings of legal institutions, and the character of legally constituted practices and relationships in diverse terrains of social life. Offered jointly with SOC 363.

383 Environmental Politics and Policy in the United States (5) I&S
Interrelation between technological and environmental change and policy formation. Consideration of political behavior related to these phenomena and the capacity of urban public organizations to predict change and to formulate policies that can take future states into account.

405 American Politics Seminar (5, max. 10) I&S
Intensive reading and research in selected problems or fields of political analysis. Recommended: 202.

A. The Media and Foreign Policy (5)
This course introduces political communications students to the scholarly analysis of the relationship between mass communication and political processes, institutions and actors, including individual citizens. For complete details, see box on page 38.

428 A Military Intervention (5) I&S
Historical and theoretical analysis of military intervention in the post-World War II era. Considers how and why interventions occur and evaluates intervention as a foreign policy response.

441 Government and Politics of the Soviet Union (5) I&S
Ideological and historical bases of Soviet politics, Leninism-Stalinism, Communist Party structure and functions, administrative agencies, the police and military, law and the judiciary, Soviet federalism and nationality policy.

447 Comparative Politics Seminar (5, max. 10) I&S
Selected comparative political problems, political institutions, processes and issues in comparative perspective. Strongly recommended: 204.

A. Labor in the Historical and Comparative Perspective (5)
This course will focus on labor as a social movement in various parts of the world, with particular emphasis on Latin America.

481 Big City Politics (5) I&S
Contemporary big city politics, focusing on Seattle and the largest 25 cities. Social, economic and the political trends that have shaped characteristics of large American cities. Distribution and use of economic and political power among parties and groups. Future of large cities and politics of change. Recommended: 202.

Courses by special arrangement

Psychology (PSYCH)
119 Guthrie Hall, Box 351525
Telephone: 543-2640
See page 78 for information about Developmental Psychology (PSYCH 306) and History of Psychology (PSYCH 407) offered through the UW Evening Degree Program.

101 Psychology as a Social Science (5) I&S
Examines behavior from a social science viewpoint. Emphasizes human social behavior and influence, personality, learning, behavior disorders and treatment. Includes related aspects of cognition, states of consciousness, motivation and emotion, perception, development, biological influences and research.

102 Psychology as a Natural Science (5) NW
Behavior from a biological-science viewpoint. Emphasizes sensation and perception, brain and behavior, evolution and animal behavior. Includes related aspects of cognition, behavior disorders, states of awareness, motivation and emotion, learning, development and research methods.

200 Comparative Animal Behavior (5) NW
Research methods and findings of comparative animal behavior and their importance to an understanding of human behavior; rationale for study of behavioral differences and similarities between animal species; behavior viewed as part of the adaptation of each species to its natural habitat. Prerequisite: 102 or BIOL 201.

201 Human Performance Enhancement (3) I&S
Applications of psychological theories, research and intervention strategies to performance enhancement in a variety of life settings. Self-regulation models and techniques; stress and emotional control; attention control and time management; goal setting; memory enhancement; communication and interpersonal conflict resolution. Participation in various psychological training procedures. Prerequisite: 101 or 102.

205 Introduction to Personality and Individual Differences (4) I&S
Overview of the major theories, research findings, and applications in the scientific study of personality. Research methods and approaches to measuring personality variables also covered. Prerequisite: 101 or 102 or equivalent.

209 Fundamentals of Psychological Research (4)
Psychological research methodology and techniques. Topics include the logic of hypothesis testing, experimental design, research strategies and techniques, fundamentals of scientific writing, search and evaluation of research literature in psychology, and ethical issues in psychological research. Required for all psychology majors. Prerequisite: 101 or 102 or equivalent.

210 Human Sexuality (5) I&S
Broad survey of biological, psychological and social determinants of human sexuality and sexual behavior. Topics include cultural diversity, sexual development (physical and psychological), sexual health, reproduction (pregnancy, contraception, abortion), development of sex, gender and orientation, adult sexual bonding, sexual abuse and assault.

* a term: June 23-July 23  b term: July 24-Aug. 22  No symbol: full term June 23-Aug. 22
See page 8 for key to symbols and abbreviations. Courses listed are subject to revision.
213 Elementary Psychological Statistics (6) Q5R
Statistics for psychological research. Elementary probability theory, hypothesis testing and estimation. Satisfies the statistics requirement for majors registered in the Psychology Bachelor of Arts degree program. Prerequisites: MATH 111 or 120.

222 Survey of Physiological Psychology (3) NW
The nervous system and how it works. Learning, memory, sleep, the senses and the emotions. For students who do not intend to specialize in physiological psychology. Prerequisite: major standing in biological sciences or either 101 or 102.

231W Laboratory in Human Performance (3) I&S
Selected aspects of human learning, perception and performance. Prerequisites: 209, and 213 or 217.

232W Laboratory in Animal Learning (3) NW
Selected aspects of animal learning emphasizing operant techniques with the rat. Prerequisite: 209.

233W Laboratory in Animal Behavior (5) NW
Experience with a variety of animal species and experimental procedures and instrumentation. Prerequisites: 101 or 102, 209, 213 or 217, and 200 or BIOL 202, or equivalents.

257 Psychology of Gender (5) I&S
Major psychological theories of sex-role development; biological and environmental influences that determine and maintain sex differences in behavior; roles in children, sex differences in aggression, cognitive abilities, achievement motivation, affiliation and sexuality. Recommended: 101 or 102. Offered jointly with WOMEN 257.

305 Abnormal Psychology (5) I&S
An overview of major categories of psychopathology, including description and classification, theoretical models and recent research on etiology and treatment. Prerequisite: 10 credits in psychology including 101 or 102, or equivalent.

306 Developmental Psychology (5) I&S
Analysis of child development in relation to biological, physical and social interaction conditions from infancy to adolescence. Prerequisite: 101 or 102, or equivalent.

322 Introduction to Drugs and Behavior (3) NW
Basic concepts of drug action emphasizing the behavioral consequences of the intake of a variety of drugs. Prerequisite: 222.

345 Social Psychology (5) I&S
Effects of the social environment upon the formation of individual attitudes, values and beliefs, and upon individual and group behavior; major theoretical approaches; field and experimental research findings. Prerequisite: 101 or 102, or equivalent.

355 Survey of Cognitive Psychology (5) I&S
Current theory and research in perception, attention, memory and learning, attitudes, thinking and decision-making, and language. For student who wishes a survey or who intends additional work in any of the above content areas. Prerequisite: introductory psychology course.

357 Psychobiology of Women (5) NW
Physiological and psychological aspects of women's lives; determinants of biological sex; psychological and neurological events of puberty and menopause; sexuality; contraception, pregnancy, childbirth and lactation; role of culture in determining psychological response to physiological events. Prerequisite: 101 or 102 or 257, or WOMEN 200 or 257. Offered jointly with WOMEN 357.

417W Human Behavior as a Natural Science (5) I&S/NW
Evolution of human social behavior and the adaptive significance of communication systems from a sociobiological and anthropological perspective. Prerequisite: 102 or an introductory zoology or anthropology course.

419W Behavioral Studies of Zoo Animals (4, max. 8) NW
Observational studies of behavior of zoo animals to expand basic knowledge of animal behavior and research methodology, with discussions and tours focusing on zoo philosophy operations. Offered in cooperation with Woodland Park Zoo. Recommended: 200; or 231, 232, 233; or 361; or equivalent.

421 Neural Basis of Behavior (5) NW
Anatomical and physiological principles and resultant behavior involved in the integrative action of the nervous system. 431 recommended but not required to follow 421. Prerequisite: 101 or 102, and 10 credits in biology or zoology.

449 Organizational and Industrial Psychology (3) I&S
Examinations on human behavior in industrial and organizational environments. Topics include research methods, job analysis, the prediction of workplace performance, personnel selection and training, performance appraisal, group influences, job satisfaction, job motivation, leadership and human factors. Prerequisite: one course in elementary statistics or equivalent.

452 Psychology of the Self-Concept (4) I&S
Examinations on psychological theory and research on the role of the self-concept in regulating behavior. Topics include the development of the self-concept; self-awareness; and self-esteem maintenance. Prerequisites: 345; upper division or graduate standing.

462 Human Memory (5) I&S
Current theoretical and experimental literature. Prerequisite: 209.

See the Time Schedule section, pages 85-129, for class dates and times.
See the Quick Reference Guide to Quarter Deadlines, pages 130-131, for important dates and deadlines.
490 Stress Management (3) I&S/NW
Nature of stress. Physiological responses to stress and relaxation. Techniques of stress management with training in relaxation, biofeedback, meditation, cognitive restructuring, exercise, nutrition, interpersonal communication skills and time management. Prerequisites: 101 or 102 or equivalent. Credit/no credit only.

496 Undergraduate Teaching Experiences in Psychology (2-3, max. 6)
Students are trained as assistants in quiz sections or as supplemental tutors for undergraduate psychology courses. Designed especially for those students planning graduate work or education certification. An overall maximum of 18 credits in 496, 497, 498, and 499 may apply toward a baccalaureate degree. Prerequisites: upper division major standing and permission of instructor.

497 Field Work in Clinical Psychology (1-5, max. 36)
Section A is graded; section B is credit/no credit only.

498 Directed Reading in Psychology (1-3, max. 18)
Selected topics. Prerequisite: permission of a supervising psychology faculty member.

500 Directed Research in Psychology (1-5, max. 24)
Supervised participation in research. Prerequisite: permission of a supervising psychology faculty member.

515 Modeling Experimental and Observational Data (4)
An introduction to statistical modeling; interactive data analyses; use of regression, ANOVA, logistic regression and log-linear models in explanatory studies. Prerequisite: 514.

560 Seminar (*)

586 Clinical Personality Assessment (3)
Use of objective personality inventories in the description of normal and abnormal personality and use of such information in case conceptualization and treatment planning. Minnesota Multiphasic Personality Inventory, Million Clinical Multiaxial Inventory. Prerequisite: clinical psychology graduate standing.

589 Advanced Clinical Practicum (4)
Supervised psychotherapy involving several individuals. Separate consultations with instructor for intensive supervision of each case. Occasional meetings in small groups of instructors and students to discuss case material. Signed readings appropriate to each case with opportunities to discuss these with instructor. Prerequisites: clinical psychology graduate standing and permission of instructor. Credit/no credit only.

593 Clinic Practicum (1-6, max. 24)
Required of all clinical psychology graduate students seeking clients in the clinic. Clinical colloquium required of all second-year students, optional for others. Limited to clinical psychology graduate students.

597 Directed Reading in Psychology (1-3, max. 18)
Selected topics. Prerequisite: permission of a supervising psychology faculty member.

599 Directed Research in Psychology (1-5, max. 24)
Supervised participation in research. Prerequisite: permission of a supervising psychology faculty member. Credit/no credit only.

Courses by special arrangement
Undergraduate Research, Independent Study or Research, Master's Thesis, Doctoral Dissertation

Quantitative Science
See Interschool or Intercollege Programs, page 64.

Romance Languages and Literature
C104 Padelford Hall, Box 354360 Telephone: 543-2020

Romance Languages and Literature courses are offered in:
- Romance Literature
- French
- Italian
- Portuguese
- Spanish

Courses at the elementary, intermediate and advanced levels are offered in both French and Spanish, and at the elementary level in Italian.

Students who have high school language background only, including nonmatriculated students enrolling for summer only, should see an Arts and Sciences adviser or the department adviser prior to registration. Students who have taken French or Spanish language study at the college level may register for first- or second-year language courses subject to fulfillment of prerequisites.

Romance Literature (ROMAN)
Courses by special arrangement
Independent Study or Research, Master's Thesis, Doctoral Dissertation

French (FREN)

101 Elementary (5)
Methods and objectives are primarily oral-aural. Oral practice in the language laboratory required.

101 102A Elementary (5, 5)
Intensive. Methods and objectives are primarily oral-aural. Oral practice in the language laboratory is required. Students are advised not to register for more than three additional credits each term. Prerequisite for 102: 101 or college equivalent, or placement.

103 Elementary (5)
Methods and objectives are primarily oral-aural. Oral practice in the language laboratory is required. Prerequisite: 102 or equivalent, or placement.

134 Intensive Elementary French (15)
This course is the equivalent of 101, 102 and 103. The four skills—listening, speaking, reading and writing—are stressed in a primarily oral-aural method of presentation. The course covers all major elements of French grammar. Conducted in French; laboratory required in addition to daily class sessions. Required texts: Omaggio, et al, Rendez-vous Workbook/Laboratory Manual (McGraw Hill); Meyer/Frank, Supplemental Exercises for French 100 (McGraw Hill). Recommended: Morton, English Grammar for Students of French.

201-202A Intermediate (5, 5) VLPA
Intensive. Systematic review of French grammar. Intensive practice in writing and conversation. Readings in literature, culture and the sciences. Prerequisite: 103 or college equivalent, or placement for 201; 201 or college equivalent or placement for 202.

203 Intermediate (5) VLPA
Systematic review of French grammar. Intensive practice in writing and conversation. Readings in literature, culture and the sciences. Prerequisite: 202 or college equivalent or placement.

301W-302W Advanced French (5, 5) VLPA
Prerequisite: 203 or college equivalent, or placement for 301; 301 or college equivalent, or placement for 302.
INTENSIVE LANGUAGE PROGRAMS

Earn up to a year's worth of language credit in nine weeks

The University of Washington offers one of the nation's largest summer intensive language programs. Students in this program may earn up to a year's worth of language credit in nine weeks. Intensive summer language courses are offered in the following languages:

- Arabic
- Kirghiz (Turkic)
- Bengali (Indian)
- Korean
- Chinese
- Latin
- Czech
- Norwegian
- French
- Portuguese
- German
- Russian
- Greek
- Spanish
- Hebrew
- Swahili
- Hindi
- Swedish
- Italian
- Tajik (Persian)
- Japanese
- Uzbek (Turkic)
- Kazakh (Turkic)

305 Survey of French Literature: 1600-1789 (3) VLPA
Emphasis on literary movements and texts in relation to cultural background. Prerequisites: 301.

409 The Phonetics of French (5) VLPA
Scientific study of French sound system with special emphasis on "lower level" phonetic rules, with integral values. Focus on data from standard French as well as socioeconomic and geographic variations. Prerequisites: 323 or ROLING 401 or LING 200 or 400 and two years of college-level French.

470 Cinema (5) VLPA
Major films and figures of French cinema from the beginnings to the present. Prerequisites: 323 or ROLING 401 or LING 200 or 400 and two years of college-level French.

This "planned immersion" approach covers the equivalent of the first year of elementary Spanish (101, 102, 103) through an alternative method, essentially similar to the one developed by Yale University's Pierre Capretz for French. It is an approach in which students learn a foreign language in its cultural context. Through use of video as the central medium of presentation, students experience the language as it occurs in real-life situations and settings throughout the Spanish-speaking world. This inductive method follows the premise that the four language skills are most effectively developed when acquired in a specific order: listening, speaking, reading, writing.

201• 202A Intermediate (5, 5) VLPA
Intensive practice in speaking, reading and writing. Systematic review of Spanish grammar. Oral practice based on selected pieces of Spanish literature. Students are advised not to register for more than three additional credits each term. Prerequisite: for 201: 103 or college equivalent, or placement; for 202: 201 or college equivalent, or placement.

203• Intermediate (5) VLPA
Intensive practice in speaking, reading and writing. Review of Spanish grammar. Oral practice based on selected pieces of Spanish literature. Prerequisite: 202 or college equivalent, or placement for 203.

301• Grammar and Lexicon (5) VLPA
Prerequisite: 203 for 301.

302• Grammar and Lexicon (5) VLPA
Prerequisite: 301

303• Introduction to Stylistics Through Composition (5) VLPA
Prerequisite: 302.

322• Introduction to Hispanic Cultural Studies (3) VLPA
Introduces students to elite, mass, and folk cultures of Spain, Latin America, and Hispanic peoples of the United States. Readings vary according to the faculty member's expertise and interests. Prerequisite: 301, which may be taken concurrently.

323• Introduction to Spanish Linguistics (3) VLPA
Introduces students to elite, mass and folk cultures of Spain, Latin America and Hispanic peoples of the United States. Readings vary according to the faculty member's expertise and interests. Prerequisite: 301 or equivalent.

331• Themes in Mexican-American Studies (5) VLPA/18S
Examination of significant historical and cultural themes of the Mexican-American experience. Prerequisite: speaking knowledge of Spanish.
Scandinavian Languages and Literature
318 Raitt Hall, Box 353420
Telephone: 543-0645
Scandinavian Languages and Literature courses are classified as:
- Scandinavian courses in English
- Scandinavian
- Norwegian
- Swedish

The Scandinavian Summer Institute offers intensive Norwegian and intensive Swedish during a and b terms. One course in English is also offered during a term: Introduction to Folklore (SCAND 230).

Students interested in summer programs in Scandinavia may contact the Office of International Programs and Exchanges, 516 Schmitz Hall, Box 353580, 543-9272.

Scandinavian Courses in English (SCAND)
230+ Introduction to Folklore (5) VLPA/I&S
Comprehensive overview of the field of folkloristics, focusing on verbal genres, customs, belief and material culture. Particular attention to the issues of community, identity and ethnicity. Offered jointly with C LIT 230.

Scandinavian (SCAND) Courses by special arrangement
Independent Study or Research, Master's Thesis, Doctoral Dissertation

Norwegian (NORW)
150 Intensive First-Year Norwegian (15)

Swedish (SWED)
150 Intensive First-Year Swedish (15)

Slavic Languages and Literatures (SLAVC)
M253 Smith Hall, Box 353580
Telephone: 543-6848
E-mail: slavicll@u.washington.edu
Slavic Languages and Literatures courses are offered in:
- Czech
- Russian
- Slavic (Directed Study or Research)

The Department of Slavic Languages and Literatures offers intensive Russian at all levels (first-through fourth-year), and intensive elementary Czech. The department sponsors the Russian House, where students live in a Russian-speaking environment. Applications for the Russian House are available from the department.

For information on the Russian Language Program in St. Petersburg (for selected participants only), contact the Office of International Programs and Exchanges, 516 Schmitz Hall, Box 3535815, 543-9272.

Courses by special arrangement
Independent Study or Research, Doctoral Dissertation

Czech (CZECH)
401, 402, 403 Elementary Czech (5,5,5)
Emphasizes conversation and basics of Czech grammar and vocabulary. Students develop a certain fluency in expressing themselves in everyday situations.

Russian (RUS)
Placement policy: While students may enroll for whatever language level seems appropriate, final placement in a language course is determined by their score on a diagnostic test administered at the beginning of the quarter. The Russian Program reserves the right to place students in a higher or lower course, according to the test results.

Credit note: Credit is not allowed for overlapping courses in two sequences (e.g., a student may receive a maximum of 15 credits for 101, 102, 103 and 150). Credit is allowed for courses in different sequences, though, if the courses are taken in progressively more advanced order (e.g., 150 followed by 201).

150 Intensive First-Year Russian (15)
Equivalent to 101, 102, 103 in one quarter. Emphasis is on developing proficiency in all language skills. The intensive approach allows for rapid development of proficiency. See credit note above.

250 Intensive Second-Year Russian (15) VLPA
Equivalent to 201, 202, 203 in one quarter. Covers all the basic grammar of Russian. Extensive written and oral practice. Prerequisite: 101, 150, or permission of instructor. See credit note above.

350 Intensive Third-Year Russian (15) VLPA
Equivalent to 301, 302, 303 in one quarter. Recommended for those who want an intensive grammar review and to increase their facility in contemporary written and spoken Russian significantly. Prerequisite: 203, 250, or permission of instructor. See credit note above.

450 Intensive Fourth-Year Russian (15) VLPA
Equivalent to 401, 402, 403 in one quarter. Intensive practice in conversation, composition, grammar and reading. Prerequisite: 303, 350, or permission of instructor. See credit note at beginning of listing of Russian courses.

490 Special Topics (1-5, max. 15) VLPA/I&S
A. Russian Art and Cultural Identity, 1750-present (5)
An examination of the role played by art in establishing a Russian national cultural identity from the mid-18th century to the present. Format will be lecture/discussion with considerable use of slides, and some use of WWW images. Readings, covering both art history and relevant aspects of intellectual and cultural history, will be in English. Lectures will reflect a great deal of material available only in Russian, some of which will be made available to students with the appropriate language proficiency. Meets with ART H 309 and SISRE 490.

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* a term: June 23-July 22  ▲ b term: July 24-Aug. 22  No symbol: full term June 23-Aug. 22
See page 8 for key to symbols and abbreviations. Courses listed are subject to revision.
College of Arts and Sciences

Courses by special arrangement
Senior Honors Thesis, Directed Study or Research, Independent Study or Research

Slavic (SLAV)
Course by special arrangement
Directed Study or Research

Society and Justice (SO JU)
203 Smith Hall, Box 355330
Telephone: 543-6523

363 Law in Society (5) I&S
Inquiry into how law matters in social practice. Examines general theories of law, the workings of legal institutions, and the character of legally constituted practices and relationships in diverse terrains of social life. Joint with POL S 563.

Also see Society and Justice elective course offered in the Political Science curriculum: POL S 464YA, page 78.

Course by special arrangement
Research in Society and Justice

Sociology (SOC)
210 Savery Hall, Box 353340
Telephone: 543-5396

The Department of Sociology offers a full range of courses comparable in scope and variety to those taught in other quarters. Three of this summer’s courses may serve as an introduction to the field: 110, 240 and 271. Upper-division courses focus on specific topics of interest to students. The Family (SOC 352) and Women in the Social Structure (SOC 354) are offered through the UW Evening Degree Program. See page 78 for details.

110 Survey of Sociology (5) I&S
Human interaction, social institutions, social stratification, socialization, deviance, social control, social and cultural change. Course content may vary, depending upon instructor.

270 Social Problems (5) I&S
Processes of social and personal disorders and reorganization in relation to poverty, crime, suicide, family disorganization, mental disorder and similar social problems.

271 Introduction to the Sociology of Deviance (5) I&S
Examination of deviance, deviant behavior and social control. Deviance as a social process; types of deviant behavior (e.g. suicide, mental illness, drug use, crime, sexual deviance, delinquency); theories of deviance and deviant behavior; nature and social organization of societal reactions; and social and legal policy issues.

328 329A Methodology of Sociological Research (5, 5) I&S, GSR
Logic of formulating, testing and modifying hypotheses. Methods of producing social data (survey research, evaluation research, field observation) and utilizing stored data (census tapes, historical materials). Methods of quantitative data analysis techniques commonly used in contemporary sociological analysis. Not open for credit to students who have taken 320 or 323. Prerequisite: at least two prior courses in sociology.

352A The Family (5) I&S
The family as a social institution. Historical changes and societal variation in family patterns. Changes over the life cycle. Alternative family forms.

356 Society and Politics (5) I&S
Causes of political change in democratic countries, including public opinion, social movements, interest group activity, and party organization. Offered jointly with POL S 556.

362 Race Relations (5) I&S
Interracial contacts and conflicts.

366 Bureaucracy in Society (5) I&S
The coming of organizational societies; causes of bureaucracy; informal relations and work groups; ideologies; authority and the division of labor; social change in bureaucracies; the "faceless" bureaucrat in relationship to client needs; comparative organizations; complex organizations as settings for research.

371 Criminology (5) I&S

372 Introduction to Criminal Justice (5) I&S

450 Political Economy of Women and Family in the Third World (5) I&S
Theoretical and empirical aspects of the political economy of women and the family in the Third World during the process of development, with a focus on labor. Main theoretical approaches examined and applied to case studies from Asia and Latin America. Offered jointly with SIS 450.

461 Comparative Ethnic Race Relations in the Americas (5) I&S
Sketches the ethnoracial systems operating in American society. Studies these systems as systems and examines their institutional and interpersonal dynamics. Compares ethnoracial systems in order to arrive at empirical generalizations about race/ethnoracial relations in the Americas. Offered jointly with AES 461.

See the Time Schedule section, pages 85-129, for class dates and times.
See the Quick Reference Guide to Quarter Deadlines, pages 130-131, for important dates and deadlines.
This course examines the causes and consequences of poverty in the United States, and the costs to family members, particularly children, living in poverty. Discussion topics will include the history of public assistance and other poverty-related programs, recent explanations for contemporary American poverty, potential remedies, and implications of proposed changes in the current welfare system. The course will incorporate analysis of race and gender as well as socioeconomic status in order to better understand poverty in America.

A. Families, Poverty and Social Policy (5)

The content of this course begins with slavery and traverses the historical and sociological experiences of African Americans through their resistance to slavery, their emancipation, mobilization and organization and present socioeconomic situation. It examines various general issues related to African American political thought, such as accommodations, integration, separatism, emigrationism, Black liberation, Marxist Leninism, Black religion, Black Nationalism, the evaluation of Black liberation strategies and the psychological liberation of a people.

Courses by special arrangement

Independent Study or Research, Internship, Master's Thesis, Doctoral Dissertation

Speech Communication

205 Raft Hall, Box 359415
Telephone: 543-4860

The Department of Speech Communication offers courses at all levels, undergraduate and graduate, and provides a program of advanced and professional training for graduate students pursuing a degree program and for teachers and others seeking specialized work in the field.

474+ Juvenile Delinquency (5) I&S
Factors in delinquency, juvenile courts. Explanation of delinquent behavior and legal reaction to delinquency. Programs of treatment and prevention. Recommended: 371 or equivalent.

481 Issues in Analytic Sociology (5, max. 15) I&S

A. Families, Poverty and Social Policy (5)

This course examines the causes and consequences of poverty in the United States, and the costs to family members, particularly children, living in poverty. Discussion topics will include the history of public assistance and other poverty-related programs, recent explanations for contemporary American poverty, potential remedies, and implications of proposed changes in the current welfare system. The course will incorporate analysis of race and gender as well as socioeconomic status in order to better understand poverty in America.

B. African American Political Thought (5)

The content of this course begins with slavery and traverses the historical and sociological experiences of African Americans through their resistance to slavery, their emancipation, mobilization and organization and present socioeconomic situation. It examines various general issues related to African American political thought, such as accommodations, integration, separatism, emigrationism, Black liberation, Marxist Leninism, Black religion, Black Nationalism, the evaluation of Black liberation strategies and the psychological liberation of a people.

Courses by special arrangement

Independent Study or Research, Internship, Master's Thesis, Doctoral Dissertation

Speech Communication (SP CMU)

205 Raft Hall, Box 359415
Telephone: 543-4860

The Department of Speech Communication offers courses at all levels, undergraduate and graduate, and provides a program of advanced and professional training for graduate students pursuing a degree program and for teachers and others seeking specialized work in the field.

Of special interest to language arts teachers is Oral Interpretation of Children's Literature (341+). Persons interested in business-related topics may wish to consider 301 and 474.

402 Speech, the Individual and Society (5) VLPA/I&S
Provides a basic understanding of human speech communication. Covers three major areas: (1) the nature of human communication, including models, principles, settings; (2) elements of verbal and nonverbal communication; and (3) approaches to and functions of human communication, including persuasion, interpersonal communication, argument, propaganda, free speech.

103+ 103 Interpersonal Communication (5) VLPA/I&S
Emphasizes analyzing and understanding communication variables affecting human relationships, such as person perception, feedback, idea development, nonverbal cues. Focus on informal communication settings.

220+ 220 Introduction to Public Speaking (5) VLPA/I&S
Emphasizes choice and organization of material, sound reasoning, audience analysis, oral style and delivery. Overview of history of rhetoric. Classroom speeches followed by conferences with instructor. One section of SP CMU 220 is offered in the evening full term.

301 Interviewing (5) VLPA/I&S
Interviewing principles and practices, with emphasis on information gathering and persuasive interviews. Purposes and types of interviews, structure of interviews and influence of communication patterns on interview outcomes.

334 Essentials of Argument (5) VLPA/I&S
Argument as a technique in the investigation of social problems; evidence, proof, refutation, persuasion; training in argumentative speaking. This class is offered in the evening full term.

341+ Oral Interpretation of Children's Literature (3) VLPA

474 Communication, Conflict and Cooperation (5) VLPA/I&S
Role of communication in resolving informal conflicts and in facilitating interpersonal and intergroup cooperation. Review of empirical literature. In-class simulations and exercises.

482+ Interpersonal Communication in Virtual Relationships and Communities (5) VLPA/I&S
Examination of relationships and groups formed through computer-mediated interpersonal communication. Focus on how people manage interactions and identities, develop interpersonal relationships, engage in collaboration and conflict, and develop communities in virtual environments. Involves both the study and use of network-based computer-mediated systems.

498+ Special Topics in Speech Communication (5, max. 15)

A. Oral Interpretation of Comedy: Shel Silverstein (3)
Study of the theory of comedy. Theory will be illustrated by discussion and performance of Shel Silverstein's writings for children and adults, especially his verse. Major class activities include solo and group performances.

B. Our Goals and Communication (5)

This course addresses the question of how people use communication to pursue their goals. We will discuss a variety of communication goals (including persuasion, relational development and termination, and identity management), and explore the effectiveness of strategies people use to achieve these goals. Finally, the class will examine how people balance multiple goals in their communication.

Courses by special arrangement

Undergraduate Research, Media Internship, Independent Study or Research, Master's Thesis, Doctoral Dissertation

Speech and Hearing Sciences (SPHSC)

202 Eagleson Hall, Box 354875
Telephone: 685-7402
email: sphscaadv@u.washington.edu

The Department of Speech and Hearing Sciences provides opportunities for study to professionals in the community allied with the many helping professions, undergraduate B.S. students and graduate M.S. and Ph.D. students. This area of study explores the normal aspects of language, speech production and audition, as well as the nature and treatment of disorders of language, articulation, voice, fluency and hearing. Issues pertaining to both children and adults are covered.

Professionals from related fields as well as practicing speech-language pathologists and audiologists will find many of the offerings beneficial. In addition, some offerings are appropriate for consumers of speech-language pathology or audiology services, or for their friends and family members. Offerings include special courses not usually available during the academic year, as well as courses from the department's core curriculum.

The department is accredited in both speech-language pathology and audiology by the Educational Standards Board of the American Speech-Language-Hearing Association (ASHA).
**AUGMENTATIVE AND ALTERNATIVE COMMUNICATION**

An online course offered through UW Distance Learning

SPHSC 453, 3 credits
Begins June 23

Speech-language pathologists, therapists, and educators who work with people with severe speech communication disorders learn practical solutions in augmentative and alternative communication (AAC) as part of a group.

What You Will Learn
- To identify candidates for AAC intervention and recognize obstacles to participation
- To identify the pros and cons of various technology approaches in AAC
- To connect via e-mail and the World Wide Web to resources in AAC

Prerequisite: Ability to use e-mail

Register for this course using the Distance Learning registration form on page 164 of this bulletin.

Students do not apply to UW Summer Quarter and should not complete the application form on the inside back cover.

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**111, 111** The American English Sound System (2, max. 4)

For persons for whom English is not the primary language. Speech sounds of American English. Practice in listening and using American phonetic features. Prerequisite: college-level reading knowledge of English. Credit/no credit only.

**308W Social-Cultural Aspects of Communication (3) L&S**

Introduction to human communication in context. Exploration of ways communication is influenced by context, including situational variables, social/interpersonal relationships, and culture. Students gain skills in observing a variety of communication behaviors in different contexts. Required for majors; open to non-majors. Dr. Lesley Olswang

**391 Practicum in Audiology (2, max. 10)**

Guided experiences in audiological assessment and aural rehabilitation of children and adults. Credit/no credit only. Prerequisite: permission of instructor. Dr. Sue Sarnorn.

**406 Treatment of Speech and Language Disorders (3) NW**

Principles and procedures for planning, implementing, and evaluating treatment for speech and language disorders. Required for majors. Prerequisites: 405 or permission of instructor. Dr. Margaret Rogers.

**449 Special Studies in Speech Pathology and Audiology (*)**

A. Understanding Social-Communication and Social Knowledge in School-Age Children and Adolescents (4)

June 23-27 A growing number of school-age children and adolescents with seemingly intact linguistic abilities are unable to use their language for purposes of social-communication. These pragmatic constraints have had a debilitating effect on social problem-solving as well as contributing to anti-social behavior, personal injury, incarceration and, in some cases, a welfare state existence. This week-long course will examine how deficits in social communication disrupt young people's ability to understand both the intentions and interpretations that underlie successful interpersonal interactions. Assessment protocols and intervention programs for higher level language use will be presented. Special consideration will be given to individuals with Fetal Alcohol Syndrome (FAS) and Attention-Deficit-Hyperactivity-Disorder (ADHD). Dr. Truman Coggins and Dr. Lesley Olswang.

B. Neuroanatomy and Neurological Disorders Across the Lifespan (4)

June 23-August 22 This course covers basic neuroanatomy in the context of disseminating information about a variety of neurologic disorders affecting communication and cognition. Relevant information concerning the neuropathology, etiology and management of these disorders will be discussed. Information concerning both congenital and acquired disorders will be examined relative to the neural system impacted by the disease. Diffuse disorders such as traumatic brain injury and dementia will be discussed as well as more focal pathologies such as stroke-related disorders. Congenital disorders such as cerebral palsy, autism and pervasive developmental disorders will also be discussed. Students from a wide variety of health care and education professions should benefit from this survey course by gaining basic knowledge of neuroanatomy in the context of learning about a variety of neurologic disorders affecting individuals across the lifespan. Dr. Margaret Rogers

For speech and hearing undergraduate students, this course will satisfy neuroanatomy requirements for applications to graduate programs.

**C. An Overview of Communication Disorders for People in the Helping Profession (4)**

June 23-July 23 This broad overview will be especially useful for professionals working in the many helping/therapeutic occupations including, but not limited to, psychology, psychiatry, social work, education, medicine, nursing, gerontology and physical/occupational therapy. This course will provide a synopsis of human communication and its disorders across the life span. Normal processes of speech, language and hearing will be considered along with examples of disordered processes of communication in both children and adults. Treatment and assessment will be described. Dr. Robert Carpenter

Professionals, if you prefer, register for section CA, which is graded on a credit/no credit basis, or for section CB, which is graded on a numerical (4.0=A, 3.7=A-, etc.) basis. Undergraduate students who wish to use this course to fulfill graduation requirements and speech and hearing sciences majors should register for the graded section, CB, only.

**453 Augmentative and Alternative Communication: Implementation (3) NW**

Offered through UW Distance Learning, this course will provide an overview of augmentation communication approaches appropriate for children and adults with severe communication disorders. Selected case histories and videotapes will be utilized to illustrate the principles involved in evaluation, system selection and training. For more information, please call (206) 543-2320 or 1-800-543-2320 to request a Distance Learning Bulletin. Dr. Patricia Donahue
### Advanced Practicum in Speech Pathology Evaluation (1-9, max. 10)
- AA, AB. UW Speech and Hearing Clinic (4)

Prerequisites: 536 and permission.

### Preinternship (1-9)
Practicum in speech pathology or audiology designed to teach the clinical regimen of a participating professional center prior to assuming a clinical assignment. Prerequisite: 150 hours of supervised practicum and entry code.

### Assessment of Balance Function (4)
Examines normal anatomy and physiology of the peripheral and central vestibular system. Reviews peripheral and central vestibular disorders and treatment protocols. Major focus of assessment on electronystagmography with associated lab. Provides overview of rotational and posturography measures of balance function. Prerequisite: permission. Deborah Clark

### Management of Hearing-Impaired Children (3)
Management of hearing-impaired children, including identification of target behaviors and methods for modification such as individualized therapy programs and parent and teacher involvement. Dr. Connie Spayn.

### Hearing Aid Selection (4)
Consideration of strategies utilized in selecting acoustic amplification for hearing impaired persons, including review of pertinent research literature. Prerequisite: permission of instructor. Dr. Pam Souza

### Advanced Practicum in Audiology (1-9, max. 10)
- B. Pediatric Assessment-CHDD
- C. Management of Hearing Loss
- D. General Assessment

### High Risk Infant Follow-up

### Outside Practicum

### ABR Assessment-Child

### ABR Assessment-Adult

Prerequisites: 40 hours of practicum and permission for all sections.

### Research Practicum (*, max. 12)
Supervised laboratory experience in experimental approach to problems in speech and hearing sciences. Prerequisite: entry code.

### Courses by special arrangement
Undergraduate Research, Independent Study or Research, Internship, Master's Thesis, Doctoral Dissertation

### Statistics (STAT)
B313 Padelford Hall, Box 354322
Telephone: 543-7237

The Department of Statistics was established to coordinate teaching and research in statistics on the upper campus. During the summer, in addition to the instructional program, an active research program and seminar series are offered, featuring a number of eminent visiting professors as well as regular faculty. For further information, contact the department.

### Basic Statistics (5) NW, QSR
Objectives and pitfalls of statistical studies. Structure of data sets, histograms, means and standard deviations. Correlation and regression. Probability theory, binomial and normal. Interpretation of estimates, confidence intervals and significance tests. Prerequisite: one and one-half years of high school algebra.

### Elements of Statistical Methods (5) NW, QSR
Elementary concepts of probability and sampling, the binomial and normal distributions. Basic concepts of hypothesis testing, estimation and confidence intervals, t-tests and chi-square tests. Linear regression theory and the analysis of variance. (Students may receive credit for only one of 220 and 311.)

### Probability and Statistics in Engineering and Science (4) NW

### Probability I (3) NW
Sample spaces, basic axioms of probability; combinatorial probability; conditional probability and independence; binomial, Poisson and normal distributions. Offered jointly with MATH 394. Prerequisite: MATH 324.

### Probability II (3) NW
Random variables; expectation and variance; laws of large numbers; normal approximation and other limit theorems; multidimensional distributions and transformations. Prerequisite: 394. Offered jointly with MATH 395.

### Special Topics in Advanced Biostatistics (*, max. 3)

### Spatial Statistics (3)
Prerequisite: entry code. Credit/no credit only. Offered jointly with BIOST 578A.

### Drug Evaluation (3)
Prerequisite: entry code. Credit/no credit only. Offered jointly with BIOST 578B.

### Statistical Consulting (*, max. 12)
Consulting experience in data analysis, applied statistics, etc. The student is required to provide consulting services to students and faculty. Prerequisite: permission of graduate adviser, entry code. Credit/no credit only.

### Courses by special arrangement
Independent Study or Research, Master's Thesis, Doctoral Dissertation

### Women Studies (WOMEN)
B110K Padelford Hall, Box 354345
Telephone: 543-6900

Women Studies is an interdisciplinary department that offers the opportunity for critical and theoretical study of gender across national contexts. This summer, a variety of popular courses are being offered. All courses count toward the Bachelor of Arts degree in women studies.

### Introduction to Women Studies (5) I&S
Feminist analysis of the construction and enforcement of gender differences and gender inequalities in various contexts. Emphasis on the intersection of race, class, sexuality, and nationality in the lives of women. Topics include feminist theory, motherhood, popular culture, sexual autonomy, racism, and activism in the United States, Asia, Latin America.
205 Introduction to Global Perspectives (5) I&S
Introduction to basic concepts of gender, race-ethnicity, class, nation, and sexuality. Topics include international women's histories, comparative women's movements, activism and resistance, feminists' perspectives of global politics and economy, issues of violence, and consideration of women and human rights.

206 Philosophy of Feminism (5) I&S
Philosophical analysis of the concepts and assumptions central to feminism. Theoretical positions within the feminist movement; view of the ideal society, goals and strategies of the movement, intersections of the sex-gender system with other systems of oppression. Offered jointly with PHIL 206/POL 212.

257 Psychology of Gender (5) I&S
Major psychological theories of sex-role development; biological and environmental influences that determine and maintain sex differences in behavior; sex roles in children, sex differences in aggression, cognitive abilities, achievement motivation, affiliation, sexuality. Recommended: PSYCH 101 or 102. Offered jointly with PSYCH 257.

310 Women and the Law (5) I&S
Examines how law addresses women, how the courts have made attempts to address women of color, poor women, lesbians, and women with disabilities. Topics include constitutional construction of equality, employment discrimination, reproductive rights, regulation of sexuality, families and motherhood, sexual harassment, violence against women and international women and human rights.

357 Psychobiology of Women (5) NW
Physiological and psychological aspects of women's lives; determinants of biological sex; physiological and psychological events of puberty and menopause; sexuality; contraception; pregnancy, childbirth and lactation; role of culture in determining the psychological response to physiological events. Prerequisites: 200 or 257, or PSYCH 101, 102 or 257, or permission of instructor. Offered jointly with PSYCH 357.

383 Social History of American Women (5) I&S
A multi-racial, multicultural study of women in the U.S. from the 16th century to the present: an emphasis on women's unpaid work, participation in the paid labor force, charitable and reform activities, and feminist movements of the nineteenth and twentieth centuries. Use of primary materials such as diaries, letters, speeches and artifacts. Prerequisite: 200 or 283 or HISTAA 201 or permission of instructor. Offered jointly with HISTAA 373.

415 Gender Equity in Education (5) I&S
Gender bias, discrimination and gender equity efforts in K-12 and higher education. Includes material on the curriculum, instructional materials, testing, counseling, teaching, athletics, teacher education, educational employment issues and sexual harassment. Also addressed are relevant federal and state laws, court decisions, and strategies for promoting gender equity in education. Prerequisite: 200 or SOC 110 recommended.

423 Pueblo Women of the American Southwest Ethnohistorical and Contemporary Perspectives (5) I&S
Examination of historical, archaeological, and anthropological writings about the women of Pueblo homelands in New Mexico and Arizona. Emphasis on contemporary lives in modern upper Rio Grande Towa Pueblos. Prerequisites: 200; and AIS 201, 202, 240, 317 or WOMEN/ANTH 353; or permission of instructor. Offered jointly with AIS 423.

Courses by special arrangement
Undergraduate Research, Fieldwork in Women Studies

Zoology (ZOOL)
106 Kincaid Hall, Box 351800
Telephone: 543-1620

Courses offered for nonmajors include BIOL 100 and ZOOL 118 and 119. Opportunities for research and graduate instruction in marine biology are offered at Friday Harbor Laboratories in the San Juan Islands. For information and a bulletin, write: Director, Friday Harbor Laboratories, 620 University Road, Friday Harbor, WA 98250. Also see Biology, page 17.

118 Survey of Physiology (5) NW
Human physiology, for nonmajors and health sciences students.

119 Elementary Physiology Laboratory (1) NW
Optional laboratory experiments designed to accompany 118. Prerequisite: 118 (may be taken concurrently).

330 Natural History of Marine Invertebrates (5) NW
Field and laboratory course emphasizing the habits, habitats, adaptations and interrelationships of marine animals. Students may be required to share a portion of the transportation costs of field trips.

451 Vertebrate Zoology (5) NW
Integrated exploration of the biology of vertebrate animals, emphasizing their diversity, adaptations, life styles and evolutionary history. Introduces aspects of behavior, psychology, morphology and ecology that emerge from the comparative study of vertebrates. Laboratory includes local field trips, films and writing workshop. Students may be required to share a portion of the transportation costs of field trips. Prerequisites: BIOL 201, 202, 203.

498 Special Problems in Zoology (1-5, max. 15)
Prerequisite: entry code.

Courses by special arrangement
Independent Study or Research, Master's Thesis, Doctoral Dissertation

See the Time Schedule section, pages 85-129, for class dates and times.
See the Quick Reference Guide to Quarter Deadlines, pages 130-131, for important dates and deadlines.
School of Business Administration

Graduate Program Office
110 Mackenzie Hall, Box 353200
Telephone: 543-4661

Undergraduate Program Office
137 Mackenzie Hall, Box 353200
Telephone: 543-4350

Registration priority in business administration courses (200-level courses excepted) during Summer Quarter is given to University of Washington business majors. Other students can be accommodated on a space-available basis only. Consult the Graduate Program Office for courses numbered 300 and 400; consult the Graduate Program Office for courses numbered 500 and 600. Business courses offered through the Evening Degree Program are listed on page 79.

Accounting (ACCTG)
The notation “Accounting” will be included on the permanent record or transcript of a student who graduates with a Bachelor of Arts in Business Administration and completes the following courses with a cumulative GPA of at least 2.00: ACCTG 301, 302, 303, 311, 330, 411, 421, and six elective credits in 400-level accounting courses, except 401 and 499. Students who have completed ACCTG 505 may not apply to the accounting concentration.

Also see page 79 for details about Special Topics in Accounting (ACCTG 579), offered through the UW Evening Degree Program.

215 Introduction to Accounting and Financial Reporting (5)
Nature and social setting of accounting; uses of accounting information; introduction of basic accounting concepts and procedures; interpretation of financial statements. Prerequisite: sophomore standing.

225 Fundamentals of Managerial Accounting (4)
Analysis and evaluation of accounting information as part of the managerial process of planning, decision-making and control. Concentrates on information useful to enterprise managers. Prerequisite: 215.

301 Intermediate Accounting I (3)
Concepts and principles of financial accounting. Analysis of controversies and problems related to measurement of enterprise income. Prerequisites: 230 and admission to accounting major.

302 Intermediate Accounting II (3)
Continuation of 301. Prerequisites: 301 and admission to accounting major.

303 Intermediate Accounting III (3)
Continuation of 302. Prerequisites: 302 and admission to accounting major.

311 Cost Accounting (3)
Introduction to theory of cost accounting; job order, process and standard cost systems; overhead accounting; problems in accumulation and allocation of costs; decision-making with cost data. Prerequisite: 301.

330 Introduction to Accounting Information Systems (3)
Concepts of accounting information systems in organizations. Process of analyzing and designing accounting information systems, with emphasis on those using computer facilities. Internal controls and auditing considerations. Prerequisites: 302 and 1 S 300.

371 Auditing or Industrial Internship (2)
One quarter's internship with a certified public accounting firm, industrial organization, or government agency. Credit/no credit only. Prerequisite: prior departmental approval.

411 Auditing Standards and Principles (3)
Intensive introduction to the attest function in society today. The environment, the process and the report of the public auditor are analyzed. Potential extensions of the attest function are examined. Prerequisites: 303, 311 and 330.

421 Tax Effects of Business Decisions (3)
Issues in taxation, including tax considerations in business decision making, tax effects of business transactions, taxation of compensation, fringe benefits, capital gains, fixed asset transactions, disposition of business distribution from corporations. Prerequisites: 303 or permission of undergraduate office.

450 Business Taxation (3)
Issues of taxation for entities other than individuals, including corporations, sub-chapter S corporations, partnerships, estates and trusts. Includes corporate distributions, liquidations and reorganizations. Prerequisite: 421.

451 Individual Income Taxation (3)
Political, economic and social forces influencing federal income taxation, role of taxation in personal decisions. Coverage of individual income tax matters, including business and investment income, business and personal deductions, property transactions and tax issues of employees. Prerequisite: 421.

460 Advanced Cost Accounting (3)
Advanced analysis of cost and management accounting problems; special applications of cost accounting techniques for management planning and control; current developments in cost accounting. Prerequisite: 311.

480 Accounting for Not-for-Profit Organizations (3)
Fund and budgetary accounting as applied to public sector organizations, such as governments, foundations, hospitals and colleges. Prerequisite: 303.

Courses by special arrangement
Undergraduate Research, Independent Study or Research

Business Administration (BA)
Course by special arrangement
Doctoral Dissertation

Business Communications (B CMU)
Also see page 79 for details about Business Reports and Other Specialized Communications (B CMU 410) offered through the UW Evening Degree Program.

301 Basic Written Business Communications (4)
Broad analytical approach to written communications as a management tool. Analysis of the psychology, semantics, planning and principles of effective business writing. Practical application through messages that inform and persuade, grant and refuse, plus short business reports and applications for positions. Prerequisite: junior standing or above; BA and ACCTG majors only Period I; add code Period II.

Business Economics (B ECN)
300 Managerial Economics (3)
Analysis of economic factors affecting decisions made by business firms. Demand and cost analysis and alternative policies from the firm's point of view. Prerequisites: ECON 200 and admission to business administration or permission.

420 Financial Markets (4)
Analysis of the structure and functions of the money and capital markets; the saving-investment process and financial intermediaries; supply and demand for lendable funds and the level and structure of interest rates; role of the Federal Reserve and Treasury in money market developments. Prerequisites: 301 and admission to business administration or permission. Enrollment is open only to non-accounting seniors and above until May 27.

Courses by special arrangement
Undergraduate Research, Independent Study or Research

* a term: June 23-July 23  ▲ b term: July 24-Aug. 22  No symbol: full term June 23-Aug. 22
See page 8 for key to symbols and abbreviations. Courses listed are subject to revision.
Business Policy (B POL)

470 Business Policy (4)
Policy making and administration from a general management point of view. Emphasis on problem analysis, the decision making process, administration and control, and continuous reappraisal of policies and objectives; integrates and builds upon the work of the core curriculum. Prerequisites: admission to business administration, senior standing or above, and FIN 350, MKTG 301, OP MGT 301 and HRMOB 400, or permission of undergraduate office.

471 Small Business Management (4)
Policy formulation and implementation in smaller firms from the top manager’s point of view. Integrates and builds upon the work of the core curriculum. Includes analysis of cases and field projects related to small firms. Prerequisites: admission to business administration, senior standing or above, and FIN 350, MKTG 301, OPMGT 301 and HRMOB 400, or permission of undergraduate office.

480 Business Simulation (5)
Critical analysis of integrated business policy formulation in a complex and dynamic industrial environment by means of simulation (business gaming). Prerequisites: admission to business administration, senior standing or above, and FIN 350, MKTG 301, OPMGT 301 and HRMOB 400, or permission of undergraduate office.

Finance (FIN)

350 Business Finance (4)
Sources, uses, cost and control of funds in business enterprises. Internal management of working capital and income sources and cost of long-term funds; capital budgeting; financing of the growth and expansion of business enterprises; government regulation of the financial process. Prerequisites: BECN 300 and admission to business administration or permission of undergraduate office.

453 Financial Theory and Analysis (4)
Business financial strategic planning. Topics include business valuation and financing, performance evaluation, risk analysis, capital budgeting, and inflation and taxes. Emphasizes tools with real-world applications while incorporating modern finance concepts. Prerequisites: 350, QMETH 201 and admission to business administration. Enrollment is open only to non-accounting seniors and above until May 25.

460 Investments (4)
Introduction to the nature, problems and process of evaluating particular securities and portfolio construction and administration. Special attention to the risk and rate of return aspects of particular securities portfolios and total wealth. Prerequisites: 350 and admission to business administration. Enrollment is open only to non-accounting seniors and above until May 25.

560 Investments (4)
Introduction to the nature, problems and process of evaluating particular securities and portfolio construction and administration. Special attention is directed to the risk and rate of return aspects of particular securities, portfolios and total wealth. Prerequisite: BA 502 or permission and entry code for nonmajors.

Courses by special arrangement
Undergraduate Research, Independent Study or Research

Human Resources Management and Organizational Behavior (HRMOB)

400 The Management of Organizational Behavior (4)
Behavioral aspects of management in organizations with emphasis on leadership, motivation, communication, conflict resolution, group dynamics and organization development. Prerequisite: admission to business administration or permission of the undergraduate office.

410 Staffing (4)
Affirmative action, recruitment, testing, interviewing, placement, promotion and overall human resource planning. Prerequisite: junior standing or above. Enrollment is open only to UW business majors until May 27.

450 Leadership and Decision Making (4)
The manager as leader and decision maker. Various leadership theories, styles and behaviors. Decision-making models and techniques. Prerequisite: junior standing.

460 Negotiations (4)
The art and science of negotiations with the goal of making students more effective negotiators in a variety of business situations, such as budget negotiations, buying and selling, contracts, and merger negotiations. Concept and skill development. Prerequisite: junior standing.
### Information Systems (IS)

#### 300 Introduction to Information Systems (4)
Fundamentals of information systems, what they are, how they affect organizations. Technical and organizational foundations of information systems, building information systems, managing information system resources. Laboratory emphasis using computers to analyze, coordinate, solve organizational decision making problems. Prerequisites: ACCTG 210, 220, 230, ECON 200, MATH 111, 112 and QM 201.

#### 320 Fundamentals of Application Programming (4)
Fundamental programming concepts including data types, control structures, modularization and structured programming. Developing solutions for problems in interactive business applications. Introduction to data and file structures. Extensive use of an event-driven programming language. Prerequisites: 300 and junior standing or above.

#### 460 Systems Analysis and Design I (4)
First course of a two-course sequence in analysis and design of business information systems. This course concentrates on analysis phase of systems development. Topics include systems development life cycle, the feasibility study, analysis of user requirements and the development of a logical model for the system under study. Prerequisites: 320 and junior standing or above.

#### 480 Database Management (4)
Concepts of physical and logical database organization. Physical file structures used in data management. Logical data models, including hierarchical, network, relational. Database design, data dictionaries, data manipulation languages. Exercises in design, implementation and use of database systems. Survey of commercial database management systems. Prerequisites: 320 and junior standing.

### International Business

#### 300 The International Environment of Business (5)
Prepares students to understand the most important aspects of the international political economy. Emphasis on the important relationships among nations and business and economic institutions that influence students' performance as managers, consumers and citizens. Prerequisites: ECON 200, 201 and junior standing or above; BA and ACCTG majors only Periods I and II.

#### 495 Practical Experience in Information Systems (1-4, max. 4)
Information systems internships. Weekly status reports, internship value paper and project related to internship. Prerequisites: 300, 320, one 400-level course, and permission of the instructor.

#### 330 Business Environment in Developing Nations (4)
The international environment for transnational trade, investment and operations in the less-developed countries; survey of the economics of underdevelopment; analysis of foreign economic, cultural and political environments and their impact on international business; foreign investment in the development process; case studies. Prerequisites: 300 or equivalent and junior standing or above; BA, ACCTG and Jackson School majors Period I; add code Period III.

### Management of International Trade Operations (4)
Applicable for students interested in exporting and importing activities, but especially relevant to small companies. Emphasis on the management of import-export operations and the application of relevant functional tools. Cases and class projects are drawn from service companies, as well as from manufacturers. Prerequisites: 300 and senior standing or above; BA, ACCTG and Jackson School majors Period I; add code Period III.

#### 470 Management of International Business (4)
Students and faculty focus on current topics of concern. Offered when faculty, student interests and availability allow. Prerequisites: 300 or permission of instructor and junior standing or above; BA, ACCTG and Jackson School majors Period I; add code Period III.

#### 490 Special Topics in International Business (4)
Understanding the underlying economic, political and social forces in the international business environment and assessing impact of these forces on international trade and investment. Theories of international trade, foreign investment, international monetary relations and economic integration and national policy response to international market forces. Prerequisites: graduate standing; BA, ACCTG, Health Science concurrent; Law C concurrent; International Studies concurrent; Engineering concurrent (PEMM) Periods I and II; entry code Period III. Recommended: B ECN 500 and 501 or equivalent.

#### 550 Field Studies in International Business (4)
Undergraduate Research, Independent Study or Research

### Exercises

- **Negotiations (4)**: Strategy used in negotiations other than labor-management bargaining to develop skills necessary to devise a negotiating strategy appropriate to situation. Negotiation of contracts in simulated business settings, case studies, readings. Prerequisite: entry code for nonmajors.

### Course by special arrangement

- **Undergraduate Research, Independent Study or Research**

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*See page 5 for key to symbols and abbreviations. Courses listed are subject to revision.*
Marketing (MKTG)

Also see page 79 for details about Marketing Concepts (MKTG 301) and Special Topics and Issues in Marketing: Brand Management (MKTG 490) offered through the UW Evening Degree Program.

301 Marketing Concepts (4)
Tools, factors and concepts used by management in planning, establishing policies and solving marketing problems. Marketing concepts, consumer demand and behavior, location analysis, marketing functions, institutions, channels, prices and public policy. Prerequisites: ECON 200 and junior standing. Open to nonmajors Summer Quarter only. Business administration and accounting majors Period I; entry code Period III.

335 Principles of Selling (4)
Focuses on role of influence and persuasion in professional selling and organizational settings. In addition to formal theoretical coursework in such areas as consumer behavior, negotiation, and communication, students practice sales skills in role plays. Presentations, and other exercises requiring practical application of selling theory. Prerequisites: 301, junior standing, and admission to business administration or permission of undergraduate office.

340 Advertising (4)
Management of the advertising function and its integration with other forms of promotion. Planning the program, determining the most effective approach, evaluation of media and budget, advertising research, advertising institutions, economic and social aspects. Prerequisites: 301 and junior standing or above; BA and ACCGT majors Period I; entry code Period III.

370 Retailing (4)
Profit planning and business control; buying, stock control, pricing, promotion; store location, layout, organization, policies, systems; coordination of store activities. Prerequisites: 301 and junior standing or above; BA and ACCGT majors Period I; entry code Period III.

450 Consumer Behavior (4)
Theory and practice pertinent to marketing decisions of individuals and business firms; utilization of theories from behavioral sciences in marketing research; theories of fashion, characteristics of goods, shopping behavior, product differentiation, market segmentation and opinion leadership; application of concepts to management of advertising, personal selling, pricing and channels of distribution. Prerequisites: 301 and junior standing or above; BA and ACCGT majors Period I; entry code Period III. Recommended: Q METH 201.

Courses by special arrangement
Undergraduate Research, Independent Study or Research

Operations Management (OPMGT)

301 Principles of Operations Management (4)
Survey course which examines problems encountered in planning, operating and controlling the production of goods and services. Topics discussed include: waiting line management, quality assurance, production systems, project management and inventory management. Makes use of computer and quantitative models in formulating managerial problems. Prerequisites: Q METH 201; ACCGT 210, 220, 230, ECON 200, MATH 111, 112 or equivalent; admission to business administration or permission of undergraduate office.

450 Introduction to Project Management (4)
This course focuses on the management of complex projects and the tools and techniques which have been developed in the past 25 years to assist managers with such projects. The course covers all elements of project planning, scheduling and control as well as implementation and organizational issues. Prerequisite: 301.

Courses by special arrangement
Undergraduate Research, Independent Study or Research

Organization and Environment (OE)

200 Introduction to Law (5)
Legal institutions and processes; law as a system of social thought and behavior and a frame of order within which rival claims are resolved and compromised; legal reasoning; law as a process of protecting and facilitating voluntary arrangements in a business society. Prerequisite: sophomore standing or above. Taught with LAW 300.

302 Organization and Environment (4)
Political, social, legal environment of business. Critical managerial issues from historical, theoretical and ethical perspectives; their impact on the organization. Includes: corporate political power, boards of directors, capitalism, industrial policy, business ethics and social responsibility, alternative corporate roles in society. Prerequisite: admission to business administration or permission of undergraduate office.

403 Commercial Law (5)
Principles of the law of property, sales, negotiable instruments and security transactions. Prerequisites: 200, junior standing or above. Open only to UW business majors until June 18.

440 Organization Structure (3)
Concepts of formal organization structures, power, authority and influence; delegation and decentralization, strategic planning, decision making; philosophy and values in management, and the organization in the context of the environment and its impact on the organization's subsystems. Prerequisite: HRM 400, and admission to business administration or permission of undergraduate office.

Courses by special arrangement
Undergraduate Research, Independent Study or Research

Quantitative Methods (QMETHOD)

201 Introduction to Statistical Methods (4) NW, QSR
Survey of principles of data analysis and their applications for management problems. Elementary techniques of classification, summarization and visual display of data are discussed. Applications of probability models for inference and decision making are illustrated through examples. Prerequisites: MATH 112 or equivalent, and sophomore standing or above.

520 Managerial Applications of Regression Models (4)
Data exploration and inference using regression models for business forecasting and management. Models include simple, multiple, logistic and nonlinear regression; use of dummy variables, transformations, variable selection and diagnostics. Prerequisites: BA 500 or QMETHOD 500.

Courses by special arrangement
Undergraduate Research, Independent Study or Research

See the Time Schedule section, pages 85-129, for class dates and times. See the Quick Reference Guide to Quarter Deadlines, pages 130-131, for important dates and deadlines.
Courses for Educators

Many College of Education courses are short workshops that begin on or after June 23.

- Choose from subjects such as inclusion and special education, multicultural education and the use of technology in education.
- Courses are also scheduled in science and mathematics, the arts, foreign languages, English and social studies.
- Teachers and other educators can earn credits towards certification, endorsements and advanced degrees.

We've highlighted some areas you may find of interest:

Courses to Help Teachers Use Technology
- Science Technology and the Internet (EDC&I 473A), page 55
- Computers in the Middle/High School Science Class (EDC&I 473C), page 55
- The World Wide Web for Middle/High School Teachers (EDC&I 473D), page 55
- Introduction to Graduate Study in Educational Technology (EDC&I 480), page 56
- Integrating and Internet into Classroom Curriculum (EDC&I 494A), page 56
- Design and Authoring of Multimedia Instructional Programs for the Classroom (EDC&I 496U), page 57
- Microcomputers for Information Management (LIBR 598A), page 68
- Designing Curriculum in the Content Areas Using the New Tools of Technology (TEDUC 567), taught at UW Tacoma, page 83

Science and Math Related Courses for Teachers
- Environmental Education for Teachers, (EDC&I 472), page 55
- Constructivism and Science Teaching (EDC&I 473B), page 55
- Mathematics for Multicultural Mind (EDC&I 479A), page 56
- Seminar in Science Education: Elementary Emphasis (EDC&I 570), page 58
- Seminar in Science Education: Secondary Emphasis (EDC&I 571), page 58
- Earth Sciences for Teachers (GPHYS 480A), page 26
- Mathematics for Elementary School Teachers (MATH 170), page 31
- Introduction to Modern Algebra for Teachers (MATH 411, 412), page 32
- Geometry for Teachers (MATH 444, 445), page 32
- Physical Science for Teachers and Physics for Teachers (PHYS 405, 407), page 37

Other Content-area Courses for Educators
This is a partial list of individual departmental offerings of interest to educators. Some special courses include:

- Child and Adolescent Behavior Disorders (PSYCH 410), page 40
- Special Studies in Speech Pathology and Audiology: An Overview of Communication Disorders for People in the Helping Professions (SPHSC 495C), page 46
- Management of Hearing-Impaired Children (SPHSC 581), page 47
- Oral Interpretation of Children's Literature (SP CMU 541), page 45
- Interpersonal Communication in Virtual Relationships and Communities (SP CMU 482A), page 45
- Special Topics in Speech Communication: Oral Interpretation of Comedy: Shel Silverstein (SP CMU 498A), page 45
- Gender Equity in Education (WOMEN 415), page 48

Music Education Courses
For a complete listing, see page 33.

- Marching Band Techniques (MUSED 405), page 34
- Songs and Singing of American Children (MUSED 475C), page 34
- Removing the Fear of Improvisation (MUSED 496A), page 34
- Choral Conducting (MUSED 496D), page 34
- Introduction to Research in Music Education (MUSED 501), page 35
- Contemporary Issues in Music Education (MUSED 560), page 35

Summer Master's Program for Music Educators
The School of Music offers a master's degree program for music educators which may be completed entirely in the summer. For more information, call the School of Music, 543-2726.

• a term: June 23-July 23  ▲ b term: July 24-Aug. 22  No symbol: full term June 23-Aug. 22
See page 8 for key to symbols and abbreviations. Courses listed are subject to revision.
Courses for Educators continued

Multiethnic-Related Courses in Curriculum and Instruction

The area of Curriculum and Instruction in the College of Education offers a variety of multiethnic education courses this summer including:

- Multiethnic Curriculum and Instruction (EDCI 424), page 55
- Teaching the Bilingual/Bicultural Student (EDCI 453), page 55
- Mathematics for the Multicultural Mind (EDCI 479A), page 56
- Multiethnic Literature for K-12 Students (EDCI 505C), page 57
- Critical Perspectives on Multicultural Education (EDCI 505D), page 57
- Literary Instruction in Multicultural Settings (EDCI 505A), page 57
- Current Issues in Multicultural Education: Teaching Limited English Proficient Students Across the Curriculum (EDCI 505B, joint listed with the UW Bothell course BEDUC 520), page 57

For more information, please write to Curriculum and Instruction, University of Washington, 115 Miller Hall, Box 353660, Seattle, WA, 98195-3600; or call (206) 543-1847.

Puget Sound Writing Program

The Puget Sound Writing Program (PSWP) Institute, designed to help educators make a difference in how their students write, is a four-week, eight-credit collaborative learning experience. Scheduled July 7-Aug. 1, the program is for K-12 and community college educators who include writing in their curriculum for any content area and wish to be qualified as PSWP teacher consultants. For a brochure and application, please call 543-2320. The application form at the end of this bulletin is not applicable.

UW Distance Learning

Washington state educators can earn an unlimited number of credits toward continuing certification and endorsements through UW Distance Learning, a UW Educational Outreach program. With distance learning, these credits can be earned without coming to campus.

UW Distance Learning courses for educators include Using the Internet for Curriculum Development (EDCI 494/LIBR C498), Adaptive Computer Technology (EDCI 494), and Mathematics for Elementary School Teachers (MATH C170).

The new Certificate Program for the School Library Media Specialist begins this summer.

For a list of courses offered through distance learning, see pages 160-163, or call (206) 543-2320 for a UW Distance Learning catalog.

School Library Media Specialist Certificate Program

A program for educators in Washington and Alaska who wish to become school library media specialists for K-12 schools. This innovative new program will enable participants to establish and manage a successful library media program. You will learn to create active resource-based learning environments schoolwide that enable students to become effective creators, critical users and communicators of ideas and information. For a brochure and application for this program, offered through UW Extension, call (206) 543-2320.

Advanced Study Program for high school students

The Advanced Study Program allows qualified, high-achieving high school students to enroll in UW courses during the summer. Students must have completed their high school freshman year by June 30. Each student enrolling for credit establishes a UW transcript. For details, see page 136.

Admissions Information

Admission to the College of Education or to any of the programs within the College of Education assumes, and is dependent upon, the student's eligibility for admission, enrollment and registration at the University of Washington. This applies not only to regular programs, but also to special institutes, special projects, or programs, whether such courses are taught on or off campus. (See the "Admission" and "Registration" sections of this Bulletin.)

Additional Information for Graduate Students

Students who seek admission to graduate programs are encouraged to contact the Office of Student Services, 206 Miller Hall, (206) 543-7834, edinfo@u.washington.edu, for application deadlines and program materials.

All graduate students working toward advanced degrees in the College of Education must have their summer class schedules approved by their faculty supervisors.

For complete details concerning graduate study, please refer to the current University of Washington General Catalog.
College of Education

Full- and a-term classes begin on June 23 unless otherwise noted.

The College of Education is dedicated to the improvement of education through the research and study of problems of teaching, learning, and educational policies. The College offers master and doctoral degrees, and professional certification programs in five major areas to prepare future teachers and school policymakers. In addition, the College maintains formal relationships with local school districts to identify research and service needs and provide field experiences for students.

The Summer Quarter program offered by the College of Education provides an opportunity for students and other educators to continue their education by enrolling in regular summer courses and special workshops. Classes and workshops are taught by college faculty and guest scholars from around the country.

The summer program consists of courses designed to meet requirements for teachers in the State of Washington and elsewhere, to provide continuing academic training for teachers in the basic subject-matter fields, to serve prospective and practicing school administrators and other specialized school personnel, and to lead to various advanced degrees in the field of education.

Admission to the College of Education, or to any of the programs within the College of Education, assumes and is dependent upon the student's eligibility for admission, enrollment, and registration at the University of Washington. This applies not only to regular programs, but also to all special institutes, special projects or programs, whether such courses are taught on or off campus. (See the "Admission" and "Registration" sections of this bulletin.)

Curriculum and Instruction (EDC&I)

115 Miller Hall, Box 353600
Telephone: 543-1847

EDC&I offers courses required or appropriate for various graduate programs as well as a range of innovative and challenging courses and workshops for the new and veteran teacher.

424 Multietnic Curriculum and Instruction (3)

June 23-July 7 Primarily for preservice and inservice teachers who have little or no previous exposure to issues related to ethnicity and schooling. Designed to help teachers better understand the school's role in the ethnic education of students and to help them acquire the insights, understanding, and skills needed to design and implement strategies that will reflect ethnic diversity.

425 Instructional Strategies for Minority Students: Learning Variables of Minority Youth (3)

August 8-22 Designed to equip educators with appropriate skills in effective teaching of culturally and socioeconomically different students. Attention is directed to understanding how these students differ from mainstream youth and what the implications are for instructional strategies in the classroom. No credit is given for students who have completed EDPSY 513/536.

435 Methods in Teaching English as a Second Language (3)

June 23-July 23 Preparres preservice and inservice teachers to teach English as a second language and to meet the educational and linguistic needs of students who have little or no English language skills. Emphasis on survey of first- and second-language acquisition research and its educational implications, as well as instructional strategies consistent with the audiolingual, cognitive and creative construction approaches to second-language learning. Includes diagnostic-prescriptive strategies for classroom application.

457 Environmental Education for Teachers (3)

July 24-August 8 Students in the course will review the Washington State Essential Academic Learning Requirements as they pertain to environmental education and use the World Wide Web to locate EALR-appropriate science activities and resources for the K-12 classroom.

472 Workshop in Instructional Improvement: Science (1-6, max. 15)

A. Science Technology and the Internet (3)

June 30-July 23 Students in the course will review the Washington State Essential Academic Learning Requirements for Science (Elementary) and use the World Wide Web to locate EALR-appropriate science activities and resources for use at the elementary and middle school levels.

B. Constructivism and Science Teaching (3)

June 30-July 23 An investigation into constructivism as it applies to teaching and learning in the science classroom. How constructivism relates to discovery learning and inquiry will be discussed. Students will design their own lessons as a culminating activity.

C. Computers in the Middle/High School Science Class (3)

June 30-July 23 An overview of the powerful ways that technology can be used to facilitate teaching and learning. Students will learn what types of software are available and how they can be meaningfully integrated into instruction. A hands-on class that examines simulations, visual databases, multimedia, Web-based materials, tutorials, and more.

D. The World Wide Web for Middle/High School Teachers (3)

July 24-August 8 This class is an exploration of the uses of the World Wide Web for instruction. Finding stimulating materials, software, and information will be part of this class, as well as having discussions about the role of the Web in education. The overall emphasis will be on integrating the Web meaningfully into learning environments.

See page 8 for key to symbols and abbreviations. Courses listed are subject to revision.
479 Workshop in Instructional Improvement: Mathematics (1-6, max. 15)
   A. Mathematics for the Multicultural Mind (5)
   July 24-August 6 This is a workshop for practicing teachers and future teachers on how to view mathematics from a nontraditional perspective. A process-centered class, it will rely on hands-on activities, writing and detailed discussions on roots of mathematics in various cultures. The essential goals of this workshop are to be aware of and design world-centric curricula rather than the traditional Eurocentric kind. The projects generated will also describe how mathematics is an important and essential element in everyday thinking. The participants will also get a chance to learn about critical pedagogy.

480 Introduction to Graduate Study in Educational Technology (3)
   June 23-July 23 Introduction to the theoretical and practical aspects of educational technology. Introduces the history, conceptual orientation, and research of the field. The practical application of theory and research through the procedures of instructional design and development are also examined.

494 Workshop in Improvement of Curriculum (1-6, max. 15)
   A. Integrating the Internet into Classroom Curriculum (3)
   June 23-July 23 Students will learn to use the Internet mail, search and retrieval tools by jointly investigating research questions. Each will then design a classroom curriculum project incorporating telecommunications. Relevant ethical, legal, organizational and management issues will be discussed as students encounter them.

495 Workshop in Improvement of Teaching: Selected Topics, Issues or Problems (1-6, max 15)
   A. ESL Materials, Assessment and Instruction (3)
   July 24-August 7 Designed for teachers working with non- and limited-English-proficient students. Emphasis on the selection and adaptation of materials and resources, assessment techniques, and instructional methods for the bilingual/ESL classroom.

496 Workshop in Instructional Improvement (2-6, max. 6)
   A. Visual Literacy in the Context of Media (3)
   June 23-July 23 Images, from cave drawings to computer graphics, are used to convey information. Do you believe new technologies change the way we learn about our world? This class will investigate the answer by using media—from charcoal to computers—as we “look” at our perceptions.

See the Time Schedule section, pages 85-129, for class dates and times.
See the Quick Reference Guide to Quarter Deadlines, pages 130-131, for important dates and deadlines.
U. Design and Authoring of Multimedia Instructional Programs for the Classroom (5)

June 23-July 23 Introduces the conceptual and practical foundations for creating instructional multimedia programs. Ample time is provided for hands-on practice planning and creating simple programs utilizing the basic text, graphics, animation, and digitized audio capabilities of Authorware Professional for Macintosh, an icon-based multimedia authoring tool. Participants have an opportunity to build their own small interactive application using Authorware.

499 Undergraduate Research (2-5, max. 5)

Students developing studies under this rubric should be advised that a report or paper setting forth the results of their investigations should be regarded as a basic part of the program.

500 Field Study (3-6, max. 9)

Individual study of an educational problem in the field under the direction of a faculty member. Prerequisites: approved plan of study and permission of the instructor must be filed in the Office of Curriculum and Instruction in the College of Education.

505 Seminar in Curriculum and Instruction (1-3, max. 15)

A. Literacy Instruction in Multicultural Settings (3)

June 23-July 7 This course provides an overview of research on key issues related to the literacy achievement of students of diverse cultural and linguistic backgrounds. Topics covered include the literacy achievement gap, macro and micro perspectives in educational anthropology, constructivist views of teaching, and culturally responsive instruction. Course participants will explore the issues in terms of their own lives and the educational settings in which they work.

B. Teaching Limited English Proficient Students Across the Curriculum (3)

July 7-18 Teachers encounter many forms of diversity in their day-to-day interactions with students. One such form involves student language and culture. At least one in three teachers in the United States have students of limited English proficiency in their classrooms.

Course expectations will be based on the participants' individual programs of study and their career aspirations. Offered with BEDUC 520—Held at UW Seattle.

C. Multietnic Literature for K-12 Students (3)

July 23-August 8 Multietnic literature infused throughout the curriculum is an accessible approach to multietnic education. For teachers who use a literature-based curriculum, this course will help you build your repertoire of resources for teaching. For teachers who know little about multietnic literature, this course provides an excellent opportunity for you to read the books your students need to have in the classroom. Course participants develop their own criteria for selecting literature once the course is over. Participants contract for a final project that suits each individual's needs.

D. Critical Perspectives on Multicultural Education (3)

July 24-August 6 This 10-day course will emphasize critical perspectives on multiculturalism and multicultural education. The course will invite students to reconsider multiculturalism from the perspectives of current debates within cultural studies and post-colonial theory as these debates have been articulated by thinkers such as Stuart Hall, Homi Bhabha, Paul Gilroy, bell hooks, David Theo Goldberg, Robert Miles, David Roediger, and others. The course will also highlight current work being done on the social construction of whiteness. One of the key assumptions defining the course is that multiculturalism's focus on diversity is ineffective unless accompanied by a trenchant critique of "whiteness."

530 Seminar in Analysis of Approaches for Teaching Reading (3)

July 24-August 22 Designed to aid experienced teachers who possess background in the teaching of reading, this course presents a variety of approaches and actual analysis of approaches. Prerequisites: teaching experience and a basic course in the teaching of reading.

532 Seminar in Research in Reading (3)

June 23-July 23 Primary focus on those aspects of the reading process that are of concern in a developmental reading program. Emphasis is on research design, evaluation of research, and research findings dealing with factors influencing reading ability, problems in skill development and recreational reading. Course work includes group and individual analysis of studies with attention to research design and measurement. Prerequisite: permission of instructor.

Continued on the next page
533 Seminar in Conducting Research in Reading (3, max. 6)
A. Readings for Teachers: Adult Literature by Authors of Color (3)

July 9-July 22 Students design and conduct original research studies in the field of reading. Emphasis on research rationale, choice of productive research types and reporting of research results and implications.

556 Elementary School Curriculum (3)

558 Secondary School Curriculum (3)
June 23-July 23 Systematic analysis of current curriculum practices, with particular emphasis on the social and historical forces affecting secondary-school curriculum. Joint with 556.

559 Principles and Procedures of Curriculum Development (3)
June 23-July 23 Intensive study of basic principles and procedures utilized in development of curriculum. Participants have opportunities to apply such procedures in class activities. Attention given to curriculum foundations.

563 Current Issues in Language Arts Education (3)
June 23-July 7 Discussion of problems and issues of current interest and importance in language arts education. Prerequisite: 561.

570 Seminar in Science Education: Elementary Emphasis (3)
June 30-July 23 Investigation of curriculum and instruction in science at elementary-school level, with particular emphasis on current literature and research. Prerequisite: 470 or equivalent. Joint with 571.

571 Seminar in Science Education: Secondary Emphasis (3)
June 30-July 23 Investigation of curriculum and instruction in science at secondary-school levels, with particular emphasis on current literature and research. Prerequisite: 470 or equivalent. Joint with 570.

590 Seminar in Elementary Education (3)
July 24-August 7 Exploration of the philosophy, history, purpose, curriculum, methods, and school organizations of elementary education. Prerequisites: elementary-school teaching experience, 556. Joint with 592.

592 Seminar in Secondary Education (3)
July 24-August 7 Research and study of secondary education. Primary focus on factors involving change in secondary-school curriculum and organization. Prerequisite: 588. Joint with 590.

599 Independent Studies in Education (*)
Independent studies or readings of specialized aspects of education. Prerequisite: permission of instructor.

600 Independent Study or Research (*)
Prerequisite: permission of instructor.

601 Internship (3-9, max. 9)
Recommended for all doctoral candidates preparing for positions as curriculum directors in public school systems. Half-time work in a school district(s) in proximity to the University of Washington for one, two or three quarters, depending upon the student's previous experience. Supervision by staff members of the College of Education and the appropriate school staff member in charge of curriculum in the selected school district. Prerequisites: 599 and approved plan of study files in the Office of Curriculum and Instruction (122 Miller Hall), and entry code. Credit/no credit only.

Education (EDUC)
700 Masters Thesis
Prerequisites: permission of supervisory committee chairperson and graduate program coordinator.

800 Doctoral Dissertation
Prerequisites: permission of Supervisory Committee chairperson and graduate program coordinator.

Educational Leadership and Policy Studies (EDLPS)
M204 Miller Hall, Box 353600
Telephone: 543-4955
Provides graduate-level studies in social foundations, organizational and policy analysis, K-12 administration, and higher education. M.Ed., Ed.D., Ph.D., and/or K-12 administrative credential programs are offered.

519 Special Topics in Educational Leadership (3)
A. Stress in the Workplace and Anyplace (3)
June 23, 25, 27, 30, July 2 In this five-session course students will have the opportunity to gain an intuitive understanding of stress. We will study materials that utilize both western and eastern perspectives of stress. We will use popular films to deepen our insight into stressful situations. We will consider the value of quieting the mind, being non-judgemental, and becoming a careful observer of one's ego in action. All conscious forms of stress reduction begin with personal commitments. We will identify those commitments necessary to living a more stress-free life. Students who have taken this course report that they were surprised by the amount of insight they were able to achieve in five sessions.

B. Stress in the Workplace and Anyplace (3)
August 4, 6, 8, 11, 13 See description of Section A.

540 Sociology of Education (3)
June 23-July 23 Examination of education and educational institutions by using the major conceptual tools of sociology. Emphasis on sociological thought and findings that have particular bearing on the understandings and judgements of educators.

See the Time Schedule section, pages 85-129, for class dates and times. See the Quick Reference Guide to Quarter Deadlines, pages 130-131, for important dates and deadlines.
Special Topics in Organizational and Policy Analysis (1-3, max. 9)

A. Liberal and Conservative Perspectives in Education (3)

July 7, 9, 11, 14, 16, 18 (M, W, F), 21, 22, 23 (M, T, W) Most students who have taken this nine-session course believe it has helped them clarify their own ideological beliefs about education. The course does this by using a variety of materials from the conservative right to the Marxist left. Ideological beliefs are not merely abstractions, they in fact are used by each of us to interpret our social environments. In actuality, most of us are not exclusively conservative or liberal because we each have been socialized by a culture that has incorporated both ideologies. Nevertheless, we tend to use these political labels as representations of ourselves and others, often with considerable emotional attachment. Even though we may favor one label over the other as a self-reference, ideologies tend to create interpersonal barriers. These barriers are removed whenever we appreciate the usefulness of ideas from the broad spectrum of political thought. This course can help to do that.

B. Creating the Learning Community: Rethinking American Education (3)

June 23-July 3 Since its inception, American education has been compartmentalized and isolated (community colleges, four-year colleges, K-12, early childhood, special education, adult and continuing education, and vocational education). The result has been the creation of an educational system that is incapable of addressing the needs of society and unresponsive to the needs of students it is supposed to serve. In this seminar, participants explore what it means to be part of a "learning" community and explore strategies for overcoming the systemic obstacles, cultural, economic, political, and organizational, that limit the ability to think differently about what it means to be educated and about how to create conditions that make such an education possible. This course is appropriate for those who aspire to leadership positions and are interested in a new way of conceptualizing the purpose, role and structure of public education.

Special Topics in Higher Education (1-3, max. 9)

A. Using Large Education Surveys for Policy Studies (3)

August 1-8 This course will cover the many aspects of conducting secondary analysis of large-scale data sets in education, and using these data sets to inform education policy. In a workshop format, small teams of students will work on a large data set that contains data relevant to a research question in their field. Students will learn about national data sets, how to manage data, developing an analytical plan, conducting the study, and writing up the results. The culmination of the course will be the writing of a paper suitable for publication or for presentation at a conference. The teams will focus on data sets of their choice including: the National Longitudinal Study of 1988; the National Household Education Survey; and surveys available from the Higher Education Research Institute.

Registration must be accompanied by a study prospectus endorsed by the appropriate faculty adviser for the work proposed. This endorsement, with permission of the instructor, must be filed with the Office of Leadership and Policy Studies in the College of Education. Prerequisite: permission of instructor. Credit/no credit only.

601 Internship (1-9, max. 9)

Name of faculty member responsible for supervising the student should be indicated on program of studies. Prerequisite: permission of Supervisory Committee chairperson or graduate program adviser. Credit/no credit only.

Educational Psychology (EDP5)

312 Miller Hall, Box 353600
Telephone: 543-6347

When instructor permission is indicated, please call Jennifer Davis (EDP5) at 543-6347.

449 Laboratory in Educational Psychology (2-6, max. 6)

A. Trauma and Its Effects (2)

June 30-July 11 Traumatic experiences of children will be the primary focus of this course, which meets WAC continuing certification child abuse requirements for school counselors, school psychologists and school administrators. Students will study the effects of traumatic stress on the individuals experiencing it, paying particular attention to the role of social support in aiding healthy outcomes. Class material may be too burdensome for any student currently recovering from a traumatic event.

See page 8 for key to symbols and abbreviations. Courses listed are subject to revision.
490 Basic Educational Statistics (3)  
June 30-August 22 This is a common and required prerequisite for courses in the graduate program in educational psychology. Measures of central tendency and variability, point and interval estimation, linear correlation, hypothesis testing. Entry code required.

499A Undergraduate Research (3)  
Students developing studies under this rubric should be advised that a report or a paper setting forth the results of their investigations should be regarded as a basic part of the program. Credit/no credit only.

500 Field Study (*)  
Individual study of an educational problem in the field, under the direction of a faculty member. Prerequisites: approved plan of study and permission of instructor must be filed in the Office of Educational Psychology in the College of Education.

501 Human Learning and Educational Practice (3)  
June 30-August 22 This course is required and is a common prerequisite for courses in the graduate program in educational psychology. Systematic examination of current research about human learning and instructional psychology (including the study of motivation, human abilities and learning), the learning process and performance assessment. Prerequisite: permission of instructor and entry code.

566 Case Study Seminar  
A. Continuing Counseling Certification (1)  
June 30-July 11 Integrates theoretical concepts with practice/service issues. Cases selected for discussion represent a wide range of problems and agency settings, including school and child problems. Concurrent registration in EDPSY 566B and entry code is required. Credit/no credit only.

B. Continuing Counseling Certification (1)  
June 30-July 11 Continuing Certification for Counselors. Concurrent registration in EDPSY 566A and entry code is required. Credit/no credit only.

581 Seminar in Educational Psychology (1-3, max. 15)  
A. Creating Classroom Performance Assessments (3)  
June 30-July 11 This course will help teachers develop strategies for creating high quality performance-based assessments for their classrooms. Credit/no credit only.

591 Methods of Educational Research (3)  
July 7-August 22 Introduction to educational research. Primary focus on hypothesis development, experimental design, use of controls, data analysis and interpretation. Prerequisite: 490. Entry code required (312 Miller Hall).

593 Experimental Design and Analysis (5)  
July 7-August 22 Experimental design with emphasis on the analysis of variance. Prerequisite: 490 or equivalent.

599 Independent Studies in Education (*)  
Independent studies or readings of specialized aspects of education.

600 Independent Study or Research (*)  
Prerequisite: permission of instructor.

601 Internship  
Prerequisite: permission of instructor.

Special Education (EDSPE)  
102 Miller Hall, Box 353600  
Telephone: 543-1827 (V/TDD)

EDSPE courses are designed to meet the needs of both special education professionals and general education teachers who wish to better serve the students with disabilities in their classrooms.

404 Exceptional Children (3)  
June 23-July 23 Atypical children studied from the point of view of the classroom teacher.

419 Interventions for Families of Children with Disabilities (3)  
June 23-July 23 Upper-division course for professionals and paraprofessionals working with families of children with disabilities enrolled in special education or inclusive programs.

496 Workshop in Special Education (1-9, max. 15)  
A. Individual Topics (1-9)  
June 23-August 22 Demonstrations, observation and/or participation with groups of children with disabilities in laboratory or controlled classroom settings. Prerequisite: permission of instructor and entry code (102 Miller Hall). Credit/no credit only.

B. Inclusion (3)  
July 24-August 22 The goal of this class is to provide students with information regarding the philosophy, instructional strategies, and implementation resources of inclusive education. The questions addressed include: What is inclusive education? What are the implications of inclusive education for general and special education teachers? What are some effective instructional strategies for inclusive education? Students analyze and discuss current articles on inclusive education, participate in cooperative learning activities, multi-level teaching role playing and other instructional strategies.
C. Techniques of Consultation and Collaboration in Special Education (3)

June 23-July 23 Focuses on the role of the special educator as consultant or collaborator in inclusive classroom or resource settings. Course content will include specific strategies for providing appropriate services for children with disabilities in general education settings. Cases generated by the class and the instructor will be used to illustrate concepts.

D. Classroom Management (3)

July 24-August 22 Focuses on positive classroom management techniques and ways of effectively communicating with students, parents and school-site personnel. Teaching social skills and developing a classroom management style are also explored.

E. Cultural Diversity and Special Education (3)

July 24-August 22 Examines issues related to cultural diversity and special education. Overview of overrepresentation, possible explanations for overrepresentation, and court cases related to this situation are covered. Research and writing on learning styles, cultural discontinuity, racial identity and expectations are discussed as well as programs which have demonstrated success working with diverse student populations.

F. Workshop in Special Education: Principles of Clinical Appraisal for Teachers of Exceptions Children (3)

June 23-July 23 The focus of this course is on the appropriate selection of assessment instruments, the meaningful interpretation of the information for program decisions, and collaboration in using the data to design educational programs for students with special needs.

G. Techniques for Instruction: Social Behaviors for Elementary Students with Mild Disabilities (4)

June 23-July 23 The purpose of this course is to provide teachers with specific techniques to help them promote social competency in children. This course will also provide teachers with various ways they may manage social behavior in elementary classrooms. The course includes a study of the social, familial and school factors impacting behavior, and opportunities to develop and pilot individual and group instructional plans to promote positive social behaviors. Prospective teachers learn specific ways to analyze problem behaviors and develop plans for positive alternatives to these behaviors. They will acquire familiarity with the various curricular materials they may use to implement their social instruction plans and will be able to evaluate the effectiveness of their efforts.

500 Field Study (1-6, max. 6)

Individual study of an educational problem in the field, under the direction of a faculty member. Prerequisite: approved plan of study, permission of instructor and entry code.

514 Fundamentals of Reading for Children with Disabilities (3)

July 24-August 22 Emphasis on basic prereading and reading skills, such as phonics and structural analysis, specifically for students with special needs. Analysis of reading problems, published materials appropriate for children with disabilities, material modification, and emphasis on research findings about how students learn to read.

520 Seminar in Applied Special Education (1-12, max. 12)

A. Update: New Developments in State and Federal Special Education Rules and Regulation (3)

July 24-August 22 New rules and regulations will be discussed and direction will be provided about their implementation in school districts and individual classrooms. Monitoring procedures will also be described.

545 Instructional Modifications for Education of Children with Mild Disabilities (3)

June 23-July 23 In-depth analysis and application of several modifications of instructional techniques necessary for the education of students with mild disabilities.

599 Independent Studies in Education (*)

Independent studies or readings of specialized aspects of education. Registration must be accompanied by a study prospectus endorsed by the appropriate faculty adviser for the work proposed. Prerequisite: entry code.

600 Independent Study or Research (*)

Registration must be accompanied by a study prospectus endorsed by the appropriate faculty adviser for the work proposed. Prerequisite: entry code.

601 Internship (*)

Prerequisites: Graduate standing and permission based on prearrangement of internship placement, approval of adviser and entry code.

Courses by special arrangement

Master's Thesis, Doctoral Dissertation

See page 8 for key to symbols and abbreviations. Courses listed are subject to revision.
College of Engineering

With the exception of engineering college courses (ENGR), enrollment in College of Engineering courses during Summer Quarter usually consists of continuing University of Washington students who have been accepted into an engineering degree program. However, other students are encouraged to contact the departmental offices for possible registration on a space-available basis. Students seeking to enter an engineering degree program should consult the appropriate departmental office; each major program has its own admission policies, procedures and admission closing dates.

Aeronautics and Astronautics (AA)
206 Guggenheim Hall, Box 352400
Telephone: 543-1950

Courses by special arrangement
Special Projects, Independent Study or Research, Master’s Thesis, Doctoral Dissertation

Chemical Engineering (CHEM E)
105 Benson Hall, Box 351750
Telephone: 543-2250

Courses by special arrangement
Undergraduate Research, Independent Study or Research, Master’s Thesis, Doctoral Dissertation

Civil Engineering
201 More Hall, Box 352700
Telephone: 543-2390

Civil Engineering courses are classified as:
• Civil Engineering core courses
• Structural and Geotechnical Engineering and Mechanics
• Transportation, Surveying and Construction Engineering
• Environmental Engineering and Science

Civil Engineering Core Courses (CIVE)
380 Elementary Structures II (3)
Classification and idealization of structures. Theorem of virtual work. Unit load method of beams, frames and trusses. Matrix formulation of theorem of virtual work. Force method for statically determinate and indeterminate method. Moment distribution for beams and frames including sway analysis. Prerequisite: 379, civil engineering student status, or permission of instructor.

406+ Construction Engineering II (3)
Heavy construction equipment. Equipment economics, contractor equipment policies, equipment specifications, selection and performance of equipment, and engineering support for construction operating. Prerequisite: 306 or permission of instructor.

498+ Special Topics in Engineering (1-5, max. 6)
A. Construction Safety (3)
Introduction to construction site safety and the Occupational Safety and Health Administration safety regulations. Contractor, owner, and designer influence on and liability for jobsite safety. Developing a safety training program, performing jobsite safety inspections, and improving safety on the construction site.

499 Special Projects (1-5, max. 6)
Individual undergraduate research projects. Maximum of six credits allowed toward an undergraduate degree. Prerequisite: permission of instructor.

Courses by special arrangement
Master’s Thesis, Doctoral Dissertation

Environmental Engineering and Science (CEWA)
599 Special Topics: Water and Air Resources (2-5, max. 15)
Prerequisite: permission of instructor.

Course by special arrangement
Independent Study or Research

Computer Science and Engineering (CSE)
114 Sieg Hall, Box 352350
Telephone: 543-1659

142 Computer Programming for Engineers and Scientists I (4) NW, QSR
Computer programming in high-level language. Algorithms (variables, expressions, statements); abstraction (data types, subprograms, packages, generics); analysis (correctness, efficiency, numbers). Design and analysis: specification, coding, documentation, testing, debugging, evaluation. Using software tools. Not available for credit to those who have taken 210 or ENGR 141. Offered jointly with ENGR 142.

143 Computer Programming for Engineers and Scientists II (5) NW, QSR
Topics include analyzing algorithms; using/writing standard software components ( queues, stacks, tables) implemented by private types, generic packages, and dynamic data structures. During the last two weeks, students survey computer science topics. Not available for credit to students who have completed CSE 211. Prerequisite: ENGR/CSE 142.

461 Introduction to Computer Communication Networks (3)

Courses by special arrangement
Reading and Research, Independent Study or Research, Master’s Thesis, Doctoral Dissertation

See the Time Schedule section, pages 85-129, for class dates and times. See the Quick Reference Guide to Quarter Deadlines, pages 130-131, for important dates and deadlines.
### Electrical Engineering (EE)

**215 Electrical Engineering Building, Box 352500**
**Telephone: 543-2150**

#### 233 Circuit Theory (5)

#### 235 Continuous Time Linear Systems (4)
**Introduction to continuous time signal analysis. Basic signals including impulses, pulses and unit steps. Periodic signals. Convolution of signals. Fourier series and transforms in continuous time. Computer laboratory. Prerequisites: PHYS 122, 132 and concurrent registration in MATH 307.**

#### 332 Devices and Circuits II (5)
**Characteristics of bipolar transistors, large- and small-signal models for bipolar and field-effect transistors, linear circuit applications including low and high frequency analysis of differential amplifiers, current sources, gain stages and output stages, internal circuitry of op-amp, op-amp stability and compensation. Prerequisite: 331.**

#### 399 Special Projects in Electrical Engineering (1-5)
**New and experimental approaches to current electrical engineering problems. May include design and construction projects. Prerequisite:** permission of department.

#### 417 Introductory Communication Theory I (3)
**Techniques of analog and digital communications. Elementary concepts of probability, random variables and processes. Signals, spectra, random signals and noise. Base-band communication by digital and analog methods. Modulation techniques including AM, FM, PM, PAM, PCM. Information theory, channel capacity and error-control coding. Prerequisite: 341.**

#### 442 Digital Signals and Filtering (3)

#### 461 Introduction to Computer Networks (3)
**Computer network architecture, protocol layers. Transmission media, encoding systems, error detection, multiplexing, switching. Data link, multiple access channel protocols. Methods for network routing, congestion control, flow control. End-to-end transport services, protocols. Network security, privacy. Applications including electronic mail, virtual terminals, distributed operating systems. Prerequisite: senior standing. Offered jointly with CSE 461.**

#### 471 Computer Design and Organization (5)
**Introduction to computer architecture, algorithms, hardware design for various computer subsystems, CPU control unit design, hardwired and microprogrammed control, memory organization, cache design, virtual memory, I/O organization and I/O hardware design. Prerequisite: 371.**

#### 476 Digital Integrated Circuit Design (5)
**Comprehensive view of digital integrated circuit design. Topics to be covered include the design of inverters, static logic circuits, switch logic and synchronous logic. Students design, simulate and layout a complete digital IC using modern computer-aided design tools. Prerequisites: 351 and 371.**

#### 499 Special Projects (2-5, max. 10)
**Assigned construction or design projects carried out under the supervision of the instructor. Prerequisite:** permission of department.

#### 505 Introduction to Probability and Random Processes (4)
**Foundations for the engineering analysis of random processes; set theoretic fundamentals, basic axioms of probability models, conditional probabilities and independence, discrete and continuous random variables, multiple random variables, sequences of random variables, limit theorems, models of stochastic processes, noise, stationarity and ergodicity, Gaussian processes, power spectral densities. Prerequisite:** graduate standing.

#### 599 Selected Topics in Electrical Engineering (*)
**Prerequisite:** permission of instructor.

**Courses by special arrangement**

**Independent Study or Research, Master’s Thesis, Doctoral Dissertation**

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### Engineering (College Courses) (ENGR)

**356 Loew Hall, Box 352180**
**Telephone: 543-8590**

#### 100 Introduction to Engineering Design (5) I & S
**Introduction to design and communication principles through engineering project approach, stressing teamwork, design process, specialties and tools of engineering, creative and analytical thinking, professionalism and ethics, social, economic and political context, open-ended problems. Grading based on quality of engineering projects and presentation of design through written, oral, and graphical communication.**

#### 142 Computer Programming for Engineers and Scientists I (4) NW, QSR
**Basic programming-in-the-small abilities and concepts. Highlights include procedural and functional abstraction with simple built-in data type manipulation. Basic abilities of writing, executing and debugging programs. Offered jointly with CSE 142. Not available for credit to students who have completed CSE 210 or ENGR 141.**

#### 170 Fundamentals of Materials Science (4) NW
**Fundamental principles of structure and properties of materials utilized in the practice of engineering. Properties of materials are related to their molecular, crystalline structure. Metals, ceramics, multiphase systems and polymeric materials. Relationships between structure and electrical, mechanical, thermal, chemical properties. Weekly hands on laboratory session. For advanced freshman and sophomores. Prerequisite:** CHEM 150 or permission of instructor.

#### 199 Special Projects (1-3, max. 3)
**Students propose problems to solve to an engineering faculty member. The problems may be selected from the student’s own experiences and interests, from the interest of the faculty member, or from other sources, such as faculty or graduate students doing research projects, or from personnel in the physical medicine area, occupational therapy, hospital, industry, government, etc. Corroboration by an engineering faculty member is required. Project suggestions are available. Prerequisite:** entry code.

#### 210 Engineering Statics (4) NW
**Vector analysis applied to equilibrium of rigid body systems and subsystems. Force and moment resultants, free body diagrams, internal forces and friction. Analysis of basic structural and mechanical systems and components. Prerequisites:** MATH 126, PHYS 121; recommended: graphics background.
220  Introduction to Mechanics of Materials (4) NW
Introduction to the concepts of stress, deformation and strain in solid materials. Development of basic relationships between loads, stresses and deflections of structural and machine elements such as rods, shafts and beams. Load-carrying capacity of elements under tension, compression, torsion, bending and shear forces. Prerequisite: 210.

230  Kinematics and Dynamics (4) NW
Kinematics of particles, systems of particles and rigid bodies; moving reference frames; kinetics of particles, systems of particles and rigid bodies; equilibrium, energy, linear momentum, angular momentum. Prerequisite: 210.

231  Introduction to Technical Writing (3)
Principles of organizing, developing and writing technical information. Report forms and rhetorical patterns common to scientific and technical disciplines. Technical writing conventions such as headings, illustrations, style and tone. Numerous written assignments required. Required for all engineering majors. Prerequisite: one five-credit composition course; all ESL required courses.

260  Thermodynamics (4) NW
Introduction to the basic principles of thermodynamics from a macroscopic point of view. Emphasis on the First and Second Laws and their applications to engineering devices and thermodynamic cycles. Problem solving methodology. Prerequisites: MATH 126, PHYS 121, and CHEM 140.

315  Probability and Statistics for Engineers (3) NW
Application of probability theory and statistics to engineering problems, distribution theory and discussion of particular distributions of interest in engineering, statistical estimation and data analysis. Illustrative statistical applications may include quality control, linear regression, analysis of variance and experimental design. Prerequisite: MATH 307.

321  Engineering Cooperative Education (2-, max. 16)
Engineering practice; integration of classroom theory with on-the-job training. Periods of full-time work alternate with periods of full-time study. Open only to students who have been admitted to the Engineering Cooperative Education Program. Requires subsequent completion of ENGR 322 to obtain credit. Credit/no credit only. Prerequisite: entry code (Loew 353).

322  Engineering Cooperative Education Postwork Seminar (0)
Reporting and evaluation of co-op work experience, and discussion of current topics in engineering. To be taken during the first quarter in school following each work session. Prerequisite: entry code (Loew 353).

333  Advanced Technical Writing and Oral Presentation (4)
Emphasis on the presentation of technical information to various audiences. Style of writing required for proposals, reports and journal articles. Oral presentation principles, including use of visuals, as well as organizing and presenting an effective talk. Prerequisite: 231.

498  Special Topics in Engineering (1-5, max. 6)
Prerequisite: entry code (Loew 356).

499  Special Projects in Engineering (1-3, max. 6)
Prerequisite: entry code (Loew 356).

499HA Special Projects in Engineering/Honors (1-3, max. 6)
Prerequisite: entry code (Loew 356).

Materials Science and Engineering (MSE)
302 Roberts Hall, Box 352120
Telephone: 543-2600

599+ Special Topics in Materials Science (3)
A. Electronic Properties of Polymers (*)
Studies of special advanced topics in materials science. Prerequisite: permission of instructor.

Courses by special arrangement

Technical Communication (TC)
14 Loew Hall, Box 352195
Telephone: 543-2567

495  Mechanical Engineering Design (4)
Design laboratory involving the identification and synthesis of engineering factors to plan and achieve specific project goals. Current literature and prerequisite texts are used as reference sources. Prerequisites: 331, 356, 374 and 395.

Courses by special arrangement
Special Projects, Independent Study or Research, Master's Thesis, Doctoral Dissertation

Mechanical Engineering (ME)
143 Mechanical Engineering Building,
Box 352600
Telephone: 685-0908

304  Manufacturing Processes (3)
Study of manufacturing processes, including interrelationships between the properties of the material, the manufacturing process and the design of component parts. Prerequisite: 354.

333  Introduction to Fluid Mechanics (4)
Introduction to the basic fluid laws and their application. Conservation equations, dynamic similarity, potential flow, boundary layer concept, effects of friction, compressible flow, fluid machinery, measurement techniques. Prerequisites: ENGR 260, MATH 307.

352  Mechanics of Solids (3)
Development of relationships among loads, stresses and deformations in the elastic behavior of machine or structural elements in tension, compression, bending or torsion. Prerequisite: ENGR 220.

478  Finite Element Analysis (4)
Development of theory and concepts of finite element analysis. Applications in all areas of mechanical engineering, including mechanics of solids, heat transfer and design of dynamical systems. Weekly computer exercises. Prerequisites: 352, 374, and MATH 308 or AMATH 352.

495  Mechanical Engineering Design (4)
Design laboratory involving the identification and synthesis of engineering factors to plan and achieve specific project goals. Current literature and prerequisite texts are used as reference sources. Prerequisites: 331, 356, 374 and 395.

Courses by special arrangement
Special Projects, Independent Study or Research, Master's Thesis, Doctoral Dissertation

See the Time Schedule section, pages 85-129, for class dates and times.
See the Quick Reference Guide to Quarter Deadlines, pages 130-131, for important dates and deadlines.
College of Forest Resources

116 Anderson Hall, Box 352100
Telephone: 543-7081

The College of Forest Resources has expanded its offerings this summer, providing several courses of interest to summer-only students and to educators. A general introduction to the wide ranging field of forestry, including environmental issues, is presented in CFR 101 Forests and Society. UHF 470 Urban Forest Landscapes focuses on a range of factors that differentiate urban forest landscapes along the urban to wildland gradient. ESC 350 Wildlife Biology and Conservation focuses on wildlife aspects and the interrelationships between wild animals and humans.

UHF 331 Landscape Plant Recognition covers cultivated plant nomenclature and field recognition of important groups of woody and herbaceous landscape plants.

FE 340 Plane Surveying is a theory and practice course which covers the proper use of a variety of survey instruments and the appropriate techniques for data recording and presentation, including incorporation into GIS.

The Cascade Ecology Institute at Pack Forest was founded to provide field experience in three related areas of forest ecology. It is interdisciplinary in approach, with both formal and informal times to interact with the faculty and other students.

College of Forest Resources (CFR)

101 Forests and Society (5) NW

Survey course covering forest ecosystems of the world, history of forestry and forest conservation, how forest ecosystems function, wildlife in forests, environmental issues in forestry, forest management, economics and products, and new approaches to forest management. Open to majors and nonmajors.

Courses by special arrangement

Graduate Studies, Independent Study or Research, Master's Thesis, Doctoral Dissertation

Ecosystem Science and Conservation (ESC)

322+ Forest Ecosystems (3) NW

This course is part of the Cascade Ecology Institute at Pack Forest described on this page. Introduction to forest ecosystems, principles of forest ecology, vegetation classification, history of development of Pacific Northwest vegetation, succession, competition, nutrient cycling, ecology and classification of decomposers and insects, use of ecological information in forest management.

350 Wildlife Biology and Conservation (4) NW

Wildlife ecology and population biology and interrelationships between wild animals and humans, including encouragement of wildlife population growth and productivity, control of pest populations, and preservation of endangered species, with emphasis on forest environments and forest faunas. Open to nonmajors. Prerequisite: junior standing.

412 Field Survey of Wildland Soils (3) NW

Designed to give students experience in studying soils in remote areas where little information is available about the site. Class includes a field trip across the Cascade Mountains. The route crosses the Cascades just north of Glacier Peak. Prior to the field trip, students and faculty will discuss the hiking area, soil and ecosystem changes, willingness to higher topics of interest.

451 Biology and Conservation of Birds (3) NW

This course is part of the Cascade Ecology Institute at Pack Forest described on this page. Major principles of natural history, avian reproductive biology, population ecology, and natural and international conservation strategies for both hunted and unhunted birds. Emphasis on western United States. Prerequisite: introductory biology.

452 Field Ornithology (3) NW

This course is part of the Cascade Ecology Institute at Pack Forest described on this page. Students learn field identification skills and are introduced to field methodologies through required indoor labs, field trips and field exercises. Exercises include study of survey techniques, feeding ecology and behavior.

Courses by special arrangement


CASCAD ECOLOGY INSTITUTE AT PACK FOREST

June 23-July 23

The Cascade Ecology Institute was founded to provide field experience in three related areas of forest ecology. It is interdisciplinary in approach, with both formal and informal times to interact with the faculty and other students.

The Institute is located at the 4,300-acre Charles Lathrop Pack Experimental Forest in the midst of a Douglas fir and western hemlock forest that is typical of the Cascade Mountains of western Washington. Pack Forest is northeast of Mount Rainier National Park and 76 miles south of Seattle. Modern classrooms and laboratories are within easy walking distance of the summer cabins and dining hall.

It is recommended that all 14 credits be taken as a core program. The lecture lab schedule with interdisciplinary field trips make this the most fulfilling option. If you have already had one of the three core classes, contact Dr. David Manuwe for an exemption. The Cascade Ecology Institute provides students with a unique opportunity to interact with the faculty and other students in the classroom, on field trips and during informal seminars, as well as providing field experience in the Pacific Northwest.

Course options:

- Forest Ecosystems (ESC 322)
- Entomology (FM 435)
- Entomology Laboratory (FM 436)
- Biology and Conservation of Birds (ESC 451)
- Field Ornithology (ESC 452)

For more information, request the Cascade Ecology brochure by calling (206) 543-2320 or 1-800-543-2320.
Forest Engineering (F E)
340 Plane Surveying (4)
Surveying theory and practice with emphasis on plane surveying. Proper use of survey instruments including engineer’s tape, theodolite, level, and rods to measure and establish angles and distances. Appropriate techniques for data recording, reduction and written form presentation, drafting using CADD and COGO packages, and incorporation into GIS.

Courses by special arrangement
Undergraduate Studies, Graduate Studies in Forest Influences, Graduate Studies in Forest Engineering, Graduate Teaching Practicum, Current Topics in Wildland Hydrology

Forest Management (F M)
Courses by special arrangement
Undergraduate Studies, Internship, Senior Project, Graduate Studies in Forest Fire Control, Graduate Studies in Forest Entomology, Graduate Studies in Forest Measurements, Graduate Studies in Forest Management, Graduate Studies in Forest Photogrammetry, Graduate Studies in Forest Policy Analysis, Graduate Studies in Forest Resource Planning, Graduate Studies in Forest Sociology, Readings in Silviculture

435 Forest Entomology (3) NW
This course is part of the Cascade Ecology Institute at Pack Forest described on page 65. Introduction to general entomology, characteristics, life histories, ecological relations, prevention and control of forest insects.

436 Laboratory in Forest Entomology (2) NW
This course is part of the Cascade Ecology Institute at Pack Forest described on page 65. Introduction to the insect orders, identification of forest insects and their damage. Prerequisite: 435, which may be taken concurrently.

Interdisciplinary Graduate Degree Programs

Individual Ph.D. Program (IPHD)
201 Gerberding Hall, Box 351240
Telephone: 543-8720

Courses by special arrangement
Independent Study or Research, Doctoral Dissertation

Neurobiology and Behavior
K546 Health Sciences, Box 357750
Telephone: 685-1647

Course by special arrangement
Doctoral Dissertation

Interschool or Intercollege Programs

Bioengineering (BIOEN)
309 Harris Hydraulics Laboratory, Box 357962
Telephone: 685-2021

598 Special Topics in Bioengineering (1-6, max. 15)

Courses by special arrangement
Independent Study or Research, Master’s Thesis, Doctoral Dissertation

Quantitative Science (Q SCI)
246 Fisheries Center, Box 357981
Telephone: 543-1191

291 Analysis for Biologists (5)
NW, QSR
Calculus for biologists. Differentiation and integration of single- and multiple-parameter models are presented using examples from biology and ecology. Both numerical and analytic techniques in the analysis of problems are presented.

381 Introduction to Probability and Statistics (5) NW, QSR
An introduction to elementary probability and statistics with an emphasis on biological applications. Elementary concepts of probability include random variables, discrete and continuous distributions, expectation and variance. Inferential statistics include graphical methods, point and interval estimation, and basic concepts of hypothesis testing. Introduction to computers and the MINITAB statistical software package. Prerequisite: MATH 120 or equivalent.

482 Statistical Inference in Applied Research (5) NW
Statistics for biologists. Parametric and nonparametric methods for analyzing biological and ecological data are presented. Applications include one, two, and multiple sample comparisons using t-tests and analysis of variance procedures. Design of ecological studies and experiments is emphasized, including sample size and power calculations. Prerequisite: 381 or permission of instructor.

502 Statistical Consulting for the Life Sciences (1-4) NW
Consulting experience in data analysis, applied statistics, experimental design, parameter estimation, and sampling. For graduate students in Quantitative Ecology and Resource Management. Student provides consultation services to students and faculty. Students spend one classroom hour per week under faculty supervision discussing problems encountered. Prerequisites: 482, 483, STAT 421, 423, or BIOST 514, 515, or equivalents, and permission of instructor. Entry code required.

598 Special Topics in Quantitative Resource Management (1-3, max. 12)

599 Research in Quantitative Resource Management (, max. 12)
300 INTRODUCTION TO LAW (3-6 I&S)
Understanding the legal system, its functions in the socio-economic order, legal reasoning and the legal profession. This course considers materials and methods of law study, the anatomy of a legal dispute, analysis of judicial decisions, the criminal justice system, interpretation of statutes and the role of the courts. Students can take term a, term b, or both. Meets with O E 200. Open to non-law students only.

412/512 SECURED TRANSACTIONS (3) I&S
Covers all aspects of security in personal property under Article 9 of the Uniform Commercial Code. Topics include the creation of security interests, perfection, priorities (between competing security interests and between security interests and other property interests), default, realization procedures and redemption. Selected bankruptcy problems confronting the secured lender will be covered. Some emphasis will be placed on the drafting and planning aspects of secured transactions.

415/515 CRIMINAL PROCEDURE (3) I&S
This course will examine the pre-trial rights of persons suspected or accused of crime, primarily those rights from the Fourth, Fifth, Sixth and Fourteenth Amendments to the U.S. Constitution, but may include examples based on state and federal statutes and rules. The topics covered include arrest, search and seizure, interrogation, pretrial identification, guilty pleas and double jeopardy. Not open to students who have taken LAW 515. Open to law and non-law students.

442/542 LAND LAW AND THE URBAN ENVIRONMENT (3) I&S
Examination of the major tools available to shape the urban environment by controlling the use of the land. Considers zoning, subdivision controls, urban renewal, private land-use restrictions, and the rules of nuisance law. Credit/no credit. Open to law and non-law students.

447/547 CRITICAL PERSPECTIVES IN LAW (3) I&S
This course examines law and legal institutions from the perspectives of three relatively recent critical "schools" of American jurisprudence: critical legal studies, feminist legal theory and critical race theory. What do scholars writing from these perspectives have to say about the differences between law and society? Law and politics? Law and oppression? Law and non-law in general? The concept of "outsider jurisprudence" is explored, along with the application to legal studies of various traditional and nontraditional methods of social criticism. Open to law and non-law students, but a firm general background knowledge of the American political and constitutional system is presupposed. (Not available to students who have already taken Critical Legal Studies [Law A547].)

476/576 INTERNATIONAL ECONOMIC RELATIONS AND TRADE POLICY (3) I&S
Considers the international control of national trade policies and the permissible transnational reach of national trade or other regulation. The General Agreement on Tariffs and Trade and the international monetary system are examined both from a legal and an economic perspective. The effectiveness of other safeguards against unfair or retaliatory trade practices are also considered. Prescriptive jurisdiction is examined and compared to the parallel body of public international law. Open to law and non-law students.

481/581 LAND, AMERICAN CULTURE AND THE LAW: PERSPECTIVES ON THE USE AND OWNERSHIP OF THE NATURAL ENVIRONMENT (3) I&S
An examination of North American attitudes toward land, nature and natural resources, and the relationships between those attitudes and the creation of laws and policies affecting nature. Readings from varied sources will focus attention on the ways that culture and ideals shape attitudes toward use and ownership of the natural environment and define relationships of human societies to the land. Open to law and non-law students.
TS11 Taxation of Partners and Partnerships (3)
Tax treatment of partners and partnerships including problems associated with the formation, operation and dissolution of the partnership, the sale of partnership interests and the termination, retirement and death of a partner. Issues include definition of a partnership, income allocation problems, liability basis rules, application of at-risk and passive activity rules and approaches to the drafting of partnership agreements.

TS38 Estate Planning for Business Owners (3)
A course in estate planning that focuses on succession planning for the owner of the closely held business. Special lifetime and deathtime issues surround the ownership of sole proprietorships, partnership interests or stock in a closely-held corporation and planning for the transmission or sale of those interests to those who would succeed to the owner’s interests. This course will deal with the income tax and estate and gift tax problems and issues which arise in that context. Enrollment will be limited to no more than 20 students. Many of the assignments will involve the drafting of agreements or plans.

TS39B/TS39A Matrimonial Taxation (2)
A thorough review and analysis of the tax aspects of married relationships and the tax impact of the dissolution of a marriage. Specifically, regarding the marriage relationship, such matters as the effect of a joint return (and related filing status issues), the marriage tax penalty, the potential for innocent spouse relief from joint return liability and the tax ramifications of pre-nuptial agreements will be covered. Also analyzed will be the transfer tax effect of inter-spousal transfers (both lifetime and death). Respecting dissolution of a marriage, the course will cover the tax treatment of alimony and child support payments, the tax consequences of marital property transfers incident to divorce and the rules regarding assignment of tax benefits associated with dependent children. Prerequisite: A530 Basic Income Tax or the equivalent. Open to non-law students with permission of the director of the program.

E580 God, Caesar and the Constitution: The Jurisprudence of Law and Religion (3)
This course will examine issues of church and state from colonial times to the present. Beginning with the Salem Witch Trials, students will study actual conflicts that reveal the role of religion in the construction of American law and society. Particular emphasis will be devoted to the emergence and development of constitutional principles, with separate attention given to the evolution of free exercise and establishment clause jurisprudence. Distinctive to our approach will be an effort to understand religion not merely as an expression of individual belief, but also as an attribute of cultural identity. This perspective will require us to consider the relationship of religious liberty to other fundamental jurisprudential norms such as the equality principle. Where appropriate, comparative lessons will be drawn from other countries. Open to law and non-law students.

Courses by special arrangement
Independent Study or Research, Externships, Doctoral Dissertation

Graduate School of Library and Information Science
Career opportunities in the information profession are becoming more challenging and diverse as the uses of technology expand. Access to information is increasingly essential in all aspects of a person’s professional endeavors. The Master of Librarianship program is a 63-credit course of study which prepares professionals in library and information science. A number of courses are scheduled during Summer Quarter for students in the degree program. Courses also are planned for professional librarians to assist them in keeping up to date on developments in professional practice and informed about new ideas in the field.

Visiting faculty of special interest this summer include Dr. Herman Totten, Regents Professor, School of Library and Information Sciences, University of North Texas, Denton, Texas.

Students in other programs are encouraged to enroll in these courses offered by the Graduate School of Library and Information Science.

Library and Information Science (US)
133 Suzzallo Library, Box 352930
Telephone: 543-1794

501 Bibliographic Control (4)
July 24-August 22 Survey of the major types of instruments for the bibliographic control of the various kinds of library materials and of the conventions used in describing them. Basic concepts, historical background, and theoretical and practical aspects of bibliographic control; evaluation and methodology. Prerequisite: major standing or permission of instructor.

503 Bibliographic Data Bases (4)
June 23-July 23 Concepts and conventions of bibliographic record structure, file organization and search services. Elementary techniques in the use of bibliographic utilities and on-line search services. Prerequisite: major standing or permission of instructor.

577 Law Library Administration (4)
June 23-July 23 Study of administration in law libraries, including organization, personnel and management issues (interviewing, hiring, firing), communications, library planning and bookkeeping. Prerequisite: 544 or permission of instructor. Credit/no credit only.

590 Directed Field Work (4)
Professionally supervised field work in a library or professional information agency. Prerequisites: 33 credits in Master of Librarianship degree program. Credit/no credit only.

598 Special Topics in Librarianship
A. Microcomputers for Information Management (3)
June 23-July 3 This course will provide students with basic competency in using desktop tools required to work in various organizations to manage information. Students will obtain substantial understanding of: Windows95 operating system; basic and advanced features of word processing; a program to create professional quality overheads and live computer presentations; a database management system to create small storage and retrieval systems; an electronic spreadsheet program to manage numeric data; and object linking and embedding (OLE) technology.

B. Information Resources and Services in Culturally Diverse Communities (3)
July 7-18 Information resources, methods and services to meet access needs of ethnic cultural minorities. Issues in the provision of information services to ethnic cultural minority communities. Study of the needs and cultural milieu of these communities. Materials and methods for serving these groups.

598 Special Topics in Librarianship
C. Picture Books: Evaluation and Use (3)
July 28-August 8 An in-depth study of Mother Goose, poetry, concept, alphabet, counting, wordless, informational, contemporary realism, folktale and memorable animal picture books for children, with emphasis on their evaluation and use. Credit/no credit only.

Courses by special arrangement
Independent Study or Research, Master’s Thesis

See the Time Schedule section, pages 85-129, for class dates and times. See the Quick Reference Guide to Quarter Deadlines, pages 130-131, for important dates and deadlines.
School of Medicine

The School of Medicine provides instruction for medical students, interns and residents. Through various programs within the School of Medicine, some instruction is also provided for practicing physicians and qualified students in other schools and colleges. Further information can be obtained from the School of Medicine, (206) 543-5560.

In general, the following courses are open to all qualified students by arrangement with the department or the Office of the Dean for Academic Affairs.

Medical students and others needing a complete listing of School of Medicine summer courses should consult the Time Schedule section of this bulletin.

Medical History and Ethics (MHE)
A204 Health Sciences Center, Box 357120
Telephone: 543-5145
E-mail: edykstra@u.washington.edu

Courses by special arrangement
Undergraduate Thesis, Undergraduate Research, Clinical Ethics Practicum, Independent Study or Research, Master's Thesis

Microbiology
See course listings under College of Arts and Sciences, page 33.

Pathology (PATH)
C516 Health Sciences Center, Box 357470
Telephone: 543-1140

551 Experimental and Molecular Pathology (2-5, max. 20)
Prerequisite: entry code. May be repeated for credit. Credit/no credit only.

679P Pathology Summer Clerkship (*, max. 24)
Clerkship designed for the summer following students' first year. Several sites available. Prerequisites: completion of first year and permission.

680P Diagnostic Pathology Clerkship, UH (*, max. 24)
Clerkship offers equal time to autopsy and surgical pathology services. Students are intimately involved in working out diagnostic problems. Prerequisite: permission.

681P Diagnostic Pathology Clerkship, HMC (*, max. 24)
Clerkship offers both surgical and autopsy examinations and provides crytologic interpretations of specimens. Emphasis on gross autopsy observation and clinical pathologic correlation. Microscopic slides are reviewed and reports are completed by the clerk. Prerequisite: permission.

682P Diagnostic Pathology Clerkship, VA (*, max. 24)
Autopsy and surgical pathology experiences available, with emphasis on surgical pathology. Students also solve diagnostic problems in surgical pathology with frequent use of immunochemistry and electron microscopy. Prerequisite: permission.

687P Diagnostic Pathology Clerkship—Children's Hospital and Medical Center (*, max. 24)
For description and prerequisite, see 680P.

688P Diagnostic Pathology Clerkship—Madigan Army Medical Center (*, max. 24)
For description and prerequisite, see 680P.

689P Diagnostic Pathology Clerkship—Valley Medical Center (*, max. 24)
For description and prerequisite, see 680P.

690P Diagnostic Pathology Clerkship—Northwest Medical Center (*, max. 24)
For description and prerequisite, see 680P.

691P Diagnostic Pathology Clerkship—General Hospital of Everett (*, max. 24)
For description and prerequisite, see 680P.

692P Diagnostic Pathology Clerkship—Group Health Cooperative (*, max. 24)
For description and prerequisite, see 680P.

Courses by special arrangement
Undergraduate Thesis, Undergraduate Research, Independent Study or Research, Master's Thesis

Physiology and Biophysics (P BIO)
G424 Health Sciences Center, Box 357290
Telephone: 543-0950

508 Introduction to Laboratory Research in Physiology (2-5)
Students participate in the performance of ongoing projects in designated research laboratories. Emphasis is on experimental design, methodology, and techniques. For first- and second-year graduate students in physiology and biophysics to provide a basis for future independent research. Student presentations are given early in the next quarter. Prerequisite: entry code.

520 Physiology Seminar (*)
May be repeated for credit. Selected topics in physiology. Prerequisite: entry code.

521 Biophysics Seminar (*)
May be repeated for credit. Selected topics in biophysics. Prerequisite: entry code.

522 Selected Topics in Respiratory Physiology (1-3)
Advanced seminar on selected topics including pulmonary mechanics, gas exchange, lung fluid balance, regulation of breathing, pulmonary circulation, respiration in the neonate, liquid breathing, airway dynamics, lung structure and development, cardiopulmonary interactions, exercise physiology. Prerequisites: instructor permission and entry code.

527 Readings in Advanced Physiology and Biophysics (*)
May be repeated for credit. Guided study of the experimental literature of physiology and biophysics. Essays are written and discussed with staff. Emphasis on critical analysis, accuracy of expression, bibliographical technique and other factors of good scholarship. Prerequisite: entry code.

Courses by special arrangement

School of Nursing

T310 Health Sciences Center, Box 357260
Undergraduate Program, 543-5736
Graduate Programs, 543-4152

During summer, the School of Nursing offers independent study opportunities for undergraduate students, and graduate courses at the master's and doctorate levels.

For more information, write to the School of Nursing at T310 Health Sciences Center, Box 357260, or call (206) 543-8736 for information on undergraduate programs and (206) 543-4152 for information on graduate programs.

Nursing Science (NURS)

201 Growth and Development Through the Life Span (5)
Focuses on processes of human growth and development from prenatal life to old age. Emphasizes influence of growth and development on achievement of health and how awareness of growth and development theory and research helps guide health promotion efforts directed

* a term: June 23-July 23  ▲ b term: July 24-Aug. 22  ■ no symbol: full term June 23-Aug. 22
See page 8 for key to symbols and abbreviations. Courses listed are subject to revision.
School of Nursing

GROWTH AND DEVELOPMENT THROUGH THE LIFE SPAN

A prerequisite course for the Bachelor of Science in Nursing

- NURS 201, 5 credits
  June 23-August 22

Focuses on processes of human growth and development from prenatal life to old age. Emphasizes influence of growth and development on achievement of health and how awareness of growth and development theory and research helps guide health promotional efforts directed towards persons of various ages and life styles. Open to UW and non-UW students.

CURRICULUM DEVELOPMENT IN NURSING EDUCATION

Designed for faculty in nursing programs and those interested in curriculum development

- NURS 519, 3 credits
  June 27, July 11 and 25

Theoretical rationale for curriculum development, study of curricular problems in nursing in relation to the elements of the curriculum as described in a curricular design. Prerequisite: graduate standing.

towards persons of various ages and life styles. Prerequisite for the UW Bachelor of Science in Nursing. Open to UW and non-UW students, including nonmajors.

407 Cultural Variation and Nursing Practice (3)
Introduces knowledge and skills for culturally competent health care for all. Compare health related values, beliefs and customs among major cultural groups. Views family and social network as culturally variable health seeking behavior contexts. Examines Western biomedicine and alternative healing methods within broader environment, including government, other social institutions.

445 Topics in Nursing (1-10)
Guided survey and discussion of current literature on major topics in nursing. Seminar/lecture with analysis and discussion of selected topics and readings. May have clinical component. Implications for nursing practice and health care emphasized. Prerequisites: nursing major and permission of instructor.

A. 12 Lead ECG Interpretation (*)
June 23-July 23

B. Review of Nursing Topics (*)
June 23-July 23

C. Becoming Parents: Exploration of His, Her, Their Transition to Parenthood (*)
July 24-August 22

D. Summer Colloquium in Oncology Nursing (*)
July 28-August 8

F. Introduction to the Profession of Nursing (*)
June 23-August 22

488 Youth at High Risk for Drug Abuse, Suicide Behaviors, Aggression and Depression (3)
Study of adolescent problem behaviors: causes, connections and contexts. Two central themes are understanding vulnerability to drug abuse, suicide behaviors and other related behaviors within social network contexts and exploring implications for prevention and early intervention programming. Recommended: senior or graduate standing.

503 Human Responses in Health and Illness II (3)
Survey of selected human responses to environmental demands in health and illness at physiologic, pathophysiologic, experiential and behavioral levels. Such concepts as immune response, stress response, circadian rhythms, pain, sleep, cognition and consciousness. Prerequisite: graduate standing.

504 Clinical Nursing Therapeutics (1-6, max. 6)
Critical analysis of therapeutic modalities to assist patients with a variety of responses to health problems. Includes selected therapies such as suction/drainage, positioning to address responses in critical, life threatening, and chronic/continuing health states. Varying credits assigned for modules covering particular therapies. Prerequisites: 502, 503 or permission of instructor.

B. Clinical Decision Making (*)
C. Management of Neurovascular Problems (*)
D. Management of Pain (*)
E. Fluids and Electrolytes (*)

505 Selected Topics in Psychosocial Nursing (2-10, max. 10)
In-depth exploration of the major theoretical issues in psychosocial nursing. Seminar with analysis and discussion of selected topics and readings and implications for research and health care.

509 Issues in Violence and Aggression for Health Professionals (3)
Focuses on research and theory of violent/aggressive behavior. Perspectives of victim, offender, family, community and society examined. Focus is recognition of violence against women. Course is designed to challenge students to clarify beliefs and values related to topics such as rape, homicide, domestic violence. Prerequisite: graduate nursing student or permission of instructor.

511 Seminar in Neonatal Nursing (3)
Neonatal neurobehavioral and physiologic adaptation within context of physical and social environment. Neonatal responses to alterations in growth and illness. Assessment modalities and therapeutic strategies used during the neonatal period. Prerequisite: 514 or permission of instructor.

513 Women's Health: A Nursing Perspective (3)
Critical analysis of contemporary and historical works relevant to nursing care for women across the life span. Synthesis of a holistic view of women's health to guide nursing practice and research. Prerequisite: graduate and senior undergraduate students.

519 Curriculum Development in Nursing Education (3)
June 27, July 11, 25 Theoretical rationale for curriculum development, study of curricular problems in nursing in relation to the elements of the curriculum as described in a curricular design. Prerequisite: graduate standing.
527 Managing Effective Access and Utilization Within Care Systems (3)
In-depth inquiry into health care access and resource utilization patterns among diverse populations, with emphasis on management strategies for establishing effective population-system fit.

534 Seminar in Nursing Gerontology (3)
Gerontological research findings applied to complex nursing problems in maintenance of health and maximum functioning in the aged.

535 Seminar in Neuroscience (3)
Guided survey of clinical and experimental literature regarding selected concepts of human functioning mediated by the nervous system: consciousness, mentation, movement, sensation, integrated regulation and coping with disability. Clinical and research measurement, current research and implications for further research and clinical applications.

537 Pain Management: Pharmacological and Nonpharmacological Therapeutics (3)
Course focuses on nursing management of pain as a multidimensional phenomenon. Pharmacologic and nonpharmacologic therapies are critically reviewed for appropriateness in treatment of acute, chronic and cancer pain. Nursing actions to initiate and maintain optimal therapy, based on individual responses, are reviewed and evaluated. Research-based clinical decisions are practiced.

539A Seminar in Critical Care Nursing (3, max. 9)
Systematic inquiry into pathophysiology, initial nursing management, and systems of care for the critically ill adult or child.

542 Care During Childbearing I (4)
Advanced nursing/midwifery care and management of low risk childbearing woman and fetus throughout the preconception, prenatal, intrapartum and postpartum periods. Prerequisite: 514.

551 Theoretical Foundations of Primary Care (1-3)
Presentation and interpretation of theoretical basis of advanced nursing practice in primary care. Provides students with conceptual foundation upon which to base their development as nurse practitioners. Prerequisites: graduate standing, permission of instructor.

561 Selected Topics in Comparative Nursing Care Systems (3, max. 10)
In-depth examination of the literature pertinent to major theoretical issues in cross-cultural nursing and health-care systems. Seminar with analysis and discussion of selected topics and reading. Implications for research and health care stressed.

565 Self-Management Strategies and Techniques in Patient Care (3)
Theories underlying cognitive/behavioral self-management strategies and techniques in patient care. Evaluation of the clinical appropriateness and utility for nursing. Application to such clinical problems as abstinence in the recovering alcoholic, depression and eating disorders. Prerequisite: graduate standing or permission of faculty.

579 Transcultural Nursing Practices (3)
Nursing practices in different cultures. Seminar focus is on theoretical formulations and comparative analysis of values, patterns, techniques and practices of nursing care in many societies. Rituals, myths, taboos and beliefs studied in relation to the subculture(s) of caring and nursing practices.

591 Advanced Seminar in Nursing Science (3, max. 15)
In-depth analysis and evaluation of literature in focused areas of research. Synthesis of literature related to selected fields of nursing science. Oral analysis of assigned papers and topics. Prerequisite: graduate standing or permission of instructor.

A. Progression (3)

599 Selected Readings in Nursing Science: Professional Role Development (1-3, max. 18)
Analysis or synthesis of selected readings with faculty mentor. Prerequisite: permission of instructor. Credit/no credit only. Prerequisite: permission of instructor.

Courses by special arrangement
Undergraduate Research, Doctoral Dissertation

Nursing Methods (NMETH)

403 Introduction to Research in Nursing (3)
Organization of the structure of nursing knowledge through research. Concepts and processes of research utilized in the investigation of nursing science. Prerequisite: one introductory statistics course.

499 Undergraduate Research (1-5, max. 12)
Supervised individual scholarly inquiry on a specific nursing problem. Nursing students only. Permission of academic programs office.

520 Methods of Research in Nursing (3)
Research process as it applies to nursing. Use of the literature in building theoretical rationale. Selection of appropriate methods. Presentation of findings. Minimum of 2 laboratory hours weekly. Prerequisite: course in statistics.

521A Methods of Research in Nursing (2)
Continuation of 520, with emphasis on methods of research applied to the solution of problems in all fields of nursing.

590 Special Topics in Nursing Research (2-3, max. 9)
Examination of specific research method with evaluation of appropriateness, efficiency, rigor of measurement, and potential for inference for nursing research methodology at graduate level and permission of instructor.

A. Nursing Intervention Research Design and Methods (*)
B. Qualitative Methods (*)
C. Time Series Analysis I (*)
   June 23-July 23
D. Time Series Analysis II (*)
   July 24-August 22

598 Special Projects (1-12, max. 12)
Fulfills the requirements of the non-thesis option for master's students in nursing. Projects involve scholarly inquiry with in-depth focused analysis, culminating in a written product/report for dissemination. Credit/no credit only. Prerequisites: NMETH 520 and 521 or permission of instructor.

Courses by special arrangement
Independent Study or Research, Masters Thesis, Doctoral Dissertation

Nursing Clinical (NCLIN)

302 Practicum: The Nature of Health and Caring (5)
Emphasizes beginning nursing skills in communication, interviewing and health assessment and maintenance. Predominant themes include: personal health beliefs, values clarification, basic communication skills, and beginning physical and psychosocial assessment of the individual across the age span.

◆ a term: June 23-July 23  ▲ b term: July 24-Aug, 22  No symbol: full term June 23-Aug, 22
See page 8 for key to symbols and abbreviations. Courses listed are subject to revision.
503 Advanced Fieldwork in Community Health Nursing (2-6, max. 12)
Guided experience in delineating nursing roles in community settings. Development of a philosophy of community health nursing. Application of core concepts pertaining to health, ethics, care and community. A minimum of 4 hours of guided experience weekly. Prerequisites: graduate standing and permission of instructor.

512 Advanced Practicum in Parent and Child Nursing (2-12, max. 25)
Clinical seminar and practicum provide opportunities to develop advanced nursing practice competencies in the care of women, parents, children and/or adolescents. Application of theory and principles to direct care, consultation, education and/or care coordinator roles with individuals and/or groups.

A. Perinatal and Neonatal NP's (*)
B. Pediatric Nurse Practitioner (*)
C. Women's Health (*)
D. Midwifery (*)

527 Managing Effective Access and Utilization Within Care Systems—Field Work (1)
In-depth inquiry into health care access and resource utilization patterns among diverse populations, with emphasis on management strategies for establishing effective population-system fit.

544 Clinical Physiological Nursing Seminar II (1-10, max. 20)
Continuation of 541. Guided experiences in selected situations in area of clinical interest. Minimum of 7 hours guided experience weekly. Prerequisites: 541.

A. Adult Older Adult (*)
B. Clinical Specialist (*)
C. Adult/Acute Care Nurse Practitioner (*)

566 Advanced Clinical Practicum in Psychological Nursing (3-6, max. 12)
Advanced clinical judgment emphasizing an inferential process proceeding from the observed to the conceptual. Students use a theoretic basic knowledge base that provides multiple explanations for behaviors. Research is applied to practice with selected clinical populations in varied psychosocial settings in concert with a student's subspecialty interests. Prerequisites: NURS 556, 559, 567.

College of Ocean and Fishery Sciences

School of Marine Affairs (SMA)
3707 Brooklyn Ave. NE, Box 355685
Telephone: 543-4326

Courses by special arrangement
Undergraduate Research, Independent Study or Research, Master's Thesis

School of Fisheries
211 Fisheries Center, Box 357980
Telephone: 543-7457

The School's basic course Introduction to Fisheries Science (FISH 101) provides background on an important Northwest industry. Applications of science to a field of wide interest are also covered.

Fisheries (FISH)

101 Introduction to Fisheries Science (5) NW
Identification, distribution and life histories of selected fish and shellfish; commercial and recreational fishing; utilization of fisheries products; problems faced in fisheries conservation and management. Recommended for both majors and nonmajors.

543A Molecular Techniques (4)
Laboratory on DNA methods. Experiments analyzing genetic variation at the intra- and interspecific level, including one experiment of student's own design. Techniques include DNA extraction and quantification, PCR, DNA sequencing, RFLP analysis and cloning. Prerequisite: 542 or permission of instructor. Offered jointly with OCEAN 575.

Courses by special arrangement
Undergraduate Research, Independent Study or Research, Internship/Experiential Learning, Master’s Thesis, Doctoral Dissertation

School of Oceanography (OCEAN)
108 Oceanography Teaching Building, Box 357940
Telephone: 543-5039

Oceanography, an environmental science that attempts to explain all processes in the ocean and the interrelation of the ocean with the earth and the atmosphere, includes studies of chemical composition of sea water; sea water in motion; interactions between sea and atmosphere and between sea and solid earth; sediments and rocks beneath the sea; physics of the sea and sea floor; and life in the sea.

101 Survey of Oceanography (5) NW
Origin and extent of the oceans; nature of the sea bottom; causes and effects of currents and tides; animal and plant life in the sea. Intended for nonmajors.

351 Quantitative Methods I (3) NW
Applications of mathematical techniques to problems in the sciences and engineering. Emphasis on formulation, solution, and interpretation of results. Introductory survey of differential equations. Prerequisites: MATH 126. Offered jointly with AMATH/MATH 351.

352 Quantitative Methods II (3) NW
Development and application of numerical methods and algorithms to problems in the applied sciences and engineering. Applied linear algebra and introduction to numerical methods. Emphasis on use of conceptual problems in engineering, mathematics, and science. Prerequisites: MATH 126 and any programming language. Offered jointly with AMATH/MATH 352.

353 Quantitative Methods III (3) NW
Applications of mathematical techniques to problems in the sciences and engineering. Emphasis on formulation, solution, and interpretation of results. Introductory survey of partial differential equations. Examples in physical and biological sciences and engineering. Prerequisites: AMATH 351 or MATH 307. Offered jointly with AMATH/MATH 353.

575A Molecular Techniques (4)
Laboratory on DNA methods. Experiments analyzing genetic variation at the intra- and interspecific level, including one experiment of student's own design. Techniques include DNA extraction and quantification, PCR, DNA sequencing, RFLP analysis and cloning. Prerequisite: 542 or permission of instructor. Offered jointly with FISH 543.

Courses by special arrangement
Undergraduate Research, Independent Study or Research, Master’s Thesis, Doctoral Dissertation

See the Time Schedule section, pages 85-129, for class dates and times.
See the Quick Reference Guide to Quarter Deadlines, pages 130-131, for important dates and deadlines.
School of Pharmacy

T341 Health Sciences Center, Box 357630
Telephone: 543-2030

Medicinal Chemistry (MEDCH)

550 Mechanistic Studies in Medicinal Chemistry (1)
Discussion of research strategies and methods used to carry out studies of mechanism of drug action, metabolism and toxicities. Emphasis is on problem solving through theoretical and experimental approaches and on data analysis and interpretation. Credit/no credit only. Prerequisite: permission of instructor.

551 Flavin and Heme-Containing Monooxygenases (1)
Discussion of research strategies and methodologies concerning the structure, function and polymorphic expression of human monooxygenases, especially the cytochrome P450s and flavin-containing monooxygenases. Emphasis placed on experimental problem solving, data analysis and presentation. Credit/no credit only. Prerequisite: permission of instructor.

552 Medicinal Chemistry Aspects of Drug Action and Drug Metabolism (1)
Discussion of research strategies, methodologies and literature concerning the mechanisms of drug action and drug metabolism, particularly as these apply to opiate drugs and beta-blockers. Emphasis placed on problem solving, data analysis and presentation. Credit/no credit only. Prerequisite: permission of instructor.

553 Structure and Function of Macromolecular Protein Assemblies (1)
Discussion of research strategies, methods and current literature concerning the macromolecular self-assembly process and protein-protein interactions as they relate to biological specificity. Emphasis on experimental approaches used in current literature. Credit/no credit only. Prerequisite: permission of instructor.

554 The Mechanism of Action and Pharmacokinetics of Biotherapeutic Agents and Other Natural Products (1)
Discussion of the literature, research possibilities and questions that need to be addressed in the area of the application of microorganisms and their natural products for therapeutic purposes. Emphasis on problem solving, research strategies, literature evaluation and data analyses. Credit/no credit only. Prerequisite: permission of instructor.

555 Current Topics in Biological Mass Spectrometry (1)
Emphasis on applications in the area of protein toxins, bioactive peptides and microbial diseases and on current developments in the use of small scale separations with mass spectrometry. Credit/no credit only.

556 Mechanistic Aspects of Drug Metabolism (1)
Discussion of research strategies, methodologies and new approaches with regard to elucidating the chemical mechanisms and enzymology of metabolic reactions catalyzed by cytochrome P450. Emphasis is on trying to develop in vitro techniques which are predictive of in vivo drug behavior. Credit/no credit only.

557 Molecular Modeling Studies of Mechanical Chemistry (1)
Discussion of research strategies, simulation methodologies and literature concerning protein and peptide structure, function, dynamics and folding. Credit/no credit only. Prerequisite: permission of instructor.

558 Human Cytochrome P450 Biochemistry (1)
Presentation and discussion of research strategies and methodologies related to current problems in human drug metabolism by cytochrome P450 enzymes. Emphasis on hypothesis testing and experimental problem solving in the areas of enzyme kinetics and mechanism. Prerequisite: permission of instructor.

Courses by special arrangement
Undergraduate Research, Independent Study or Research, Master's Thesis, Doctoral Dissertation

Pharmaceutics (PCEUT)

Courses by special arrangement
Undergraduate Research, Independent Study or Research, Master's Thesis, Doctoral Dissertation

Pharmacy (PHARM)

305 Clinical Dispensing Pharmacy (3)
Preparation and dispensing of prescriptions at Rubenstein Memorial Pharmacy in Hall Health Center and University of Washington Medical Center outpatient pharmacy. For students with little or no experience in pharmacy wishing experience prior to internship, externship, or didactic course work. Under direct supervision of Student Health Service pharmacist and University Hospital pharmacists. Prerequisites: pharmacy major and entry code. Credit/no credit only.

335 Dispensing Practicum (2-4)
Under preceptor supervision, students will master competencies necessary for distributional responsibilities in institutional and ambulatory care pharmacy practice settings. Credit/no credit only.

470 Community Practicum (8)
Closely supervised study-experience periods in community pharmacies. Students participate in active community pharmacy under the supervision of clinical preceptor. Conferences on selected topics supplement work experience. Prerequisite: pharmacy major. Credit/no credit only.

471 Institutional Distributive Practicum (4)
Closely supervised study-experience periods in hospital or other institutional pharmacies. Students participate in active institutional pharmacy under supervision of clinical preceptor. Conferences on selected topics supplement work experience. Prerequisite: pharmacy major. Credit/no credit only.

486 Institutional Clinical Practicum (4)
Supervised experience in the clinical roles of pharmacy practice. Students participate in rounds in institutional patient-care facilities and take drug-use histories, monitor drug therapy of patients, instruct patients about medications, and provide consultation to other health care professionals in ambulatory or institutional patient care facilities. Prerequisites: 334, 484 and pharmacy major. Credit/no credit only.

487 Advanced Clinical Practicum (4)
Supervised experience in the clinical roles of pharmacy practice. Students participate in daily rounds, take drug-use histories, monitor drug therapy of patients, instruct patients about discharge medications, and provide drug therapy consultation to other health care professionals. Prerequisites: 334, 484 and pharmacy major. Credit/no credit only.

\* a term: June 23-July 23 \* b term: July 24-Aug. 22 \* No symbol: full term June 23-Aug. 22

See page 8 for key to symbols and abbreviations. Courses listed are subject to revision.
488 Elective Advanced Practicum (*, max. 40)
Advanced level clinical pharmacy experience in institutional (hospital, nursing home, long-term care facility) and ambulatory patient-care facilities under direct supervision of a clinical preceptor. Prerequisite: 487 and entry code. Credit/no credit only.

493 Medical Literature Evaluation (2)
Introduction to steps involved in the assessment of primary and other literature sources. Students required to read and critique medical literature. Classes conducted in journal club format. Prerequisite: 309

495 Special Studies in Pharmacy (*, max. 6)
Special studies of professional topics in pharmacy. An opportunity to expand the breadth and depth of understanding in specific pharmaceutical areas. Students usually take independent study under the individual direction of a faculty member. Prerequisites: permission of instructor and entry code.

Courses by special arrangement
Undergraduate Research, Independent Study/Research

Graduate School of Public Affairs
109 Parrington Hall, Box 353055
Telephone: 543-4900

Public Affairs (PB AF)
For details about Economics and Public Policy (PB AF 499) offered through the UW Evening Degree Program, please see page 79.

505 The Law of Public Administration (3)
Legal framework of public administrative action in the United States, emphasizing constitutional requirements; operation of the administrative process; management of personnel, funds and contracts; and judicial review of administrative activity. Joint with LAW 599.

Instructor: Victor B. Flatt, J.D., is the head of the environmental law program at Georgia State University College of Law and former professor in environmental policy and administrative law at the University of Washington Graduate School of Public Affairs. He is widely known for his interdisciplinary work in law and policy and was selected as a Judicial Fellow for the United States Supreme Court in 1995.

550 Arts Administration (3)
Nonprofit arts organizations function as "community trusts"—service institutions that must respond to community needs while, at the same time, pursuing artistic excellence. This course takes a "situation analysis" approach to examining challenges faced by arts managers as they reach out to an ever expanding roster of community stakeholders in order to succeed in an increasingly volatile economic, political and artistic marketplace.

Instructor: Christine Fielder, Director of Development at Seattle Repertory Theatre. Fielder has 18 years of arts management experience with large and small arts organizations throughout the West Coast.

555 I enjoyed my summer course a great deal. I gained a large amount of new information that is useful in my professional and private life."

Shannon Heckschmiller
1986 UW Summer Student

558 Administrative Skills Workshops (1-3)

A. Oral Communication for Public Administrators (1)
June 25, July 2, 9, 16, and 23 only. Public sector administrators speak to diverse and sometimes hostile audiences. This workshop focuses on skills critical to presenting your message effectively. Skills include: analyzing your audience, organizing a persuasive message, focusing listeners' attention, answering hostile questions. In class videotaping with playback and discussion.

Instructor: Michael Shadow, Ph.D., prepares public sector leaders for presentations, public appearances and media interviews. His international clients include leaders of government, judges, directors of agencies and heads of non-profits who must be effective when explaining, defending or proposing their policies, budgets or decisions.

B. Skills Workshop: Personal and Career Development Strategies (1)
July 11 and 12 only. This skills workshop will focus on how individuals can come to a reflective awareness of their own professional and personal integrity. It will discuss how this integrity based leadership improves their ability to manage the personal development and competence of others.

Instructor: David Johnson is the Executive Director for United Way-sponsored community mental health center. He has had extensive experience as an administrator, a psychotherapist, an instructor and an organization development consultant. He has been selected as the 1996 recipient of Washington State's "Warren Featherstone Reid Award for Excellence in Health Care."

U. Skills Workshop: Contracting Out Public Services (1)
June 25, July 2, 9 and 16 only. Contracting for services with a private business, not-for-profit agency or fellow government is an important option for the provision of services to the public sectors' customers. Public managers are being asked to consider contracting to increase the quality and effectiveness of services and/or to control costs. This course will provide each student the opportunity to experience and practice the manager's role in the process of contracting out public services. Case oriented class.

Instructor: Anne Pfug, MBA, is a city manager who has served in several Northwest cities as the chief executive or chief operating officer. She has experience as a contract service provider and with contracting out for a wide range of public services in nonprofits, established and new cities.

End: Transportation and Land Use Choices for Communities (Island Press, 1995) and the recent studies, Transportation Corridor Management: Are We Linking Transportation and Land Use Yet?, and Urban Goods and Intercity Freight Movement.

See the Time Schedule section, pages 85-129, for class dates and times.
See the Quick Reference Guide to Quarter Deadlines, pages 130-131, for important dates and deadlines.
599 Special Topics (2-6)
A. Qualitative Methods in Policy Research (3)

Public managers and policy analysts often need to integrate information from research and evaluation studies that use qualitative methods including comparative, case study, historical, intensive interview and interpretive approaches. In this course, students will learn to assess qualitative research and design to aid decision-making in public and nonprofit settings. Course open to students from any social science discipline.

Instructor: Leslie Eliason is Assistant Professor at the Graduate School of Public Affairs and adjunct in Political Science, Scandinavian Studies, Women Studies, and a member of the program faculties in International, European, Russian, East Europe and Central Asian Studies. Her research focuses on comparative public policy and comparative administration in Europe.

Courses by special arrangement
Independent Study or Research, Master’s Degree Project

School of Public Health and Community Medicine

Special six-week sessions are offered in biostatistics, epidemiology and health services. The sessions are designed primarily for Master of Public Health students or others at the postdoctoral level in the University (persons in clinical training programs on campus).

The Extended M.P.H. Degree Program is a three-year, part-time program delivered through a combination of intensive four-week summer sessions on the University campus, independent/directed study and intensive weekend (Friday-Saturday) seminars during the academic year. The program is designed for mid-career public and community health professionals with three or more years of experience in the health care field. Individuals seeking knowledge and skills required for mid- and upper-level practice and management positions in health care professions will benefit from the program. The prescribed course work includes a broad exposure to the health care system plus specific management training in accounting, finance, personnel management, economics, organization theory and program evaluation. Information is available by calling the Extended M.P.H. Degree Program office at 685-7580.

Biostatistics (BIOST)
F600 Health Sciences Center, Box 357232
Telephone: 543-1044

511 Medical Biometry I (4)
July 1-August 8  Presentation of the principles and methods of data description and elementary parametric and nonparametric statistical analysis. Examples are drawn from biomedical literature, and real data sets are analyzed by the students after a brief introduction to the use of standard statistical computer program packages (e.g., SPSS, BMDF, MINITAB). Statistical techniques covered include description of samples, comparison of two sample means and proportions, simple linear regression and correlation.

578 Special Topics in Advanced Biostatistics (*, max. 3)
A. Spatial Statistics (3)
Prerequisite: entry code. Credit/no credit only. Offered jointly with STAT 578A.
B. Drug Evaluation (3)
Prerequisite: entry code. Credit/no credit only. Offered jointly with STAT 578B.

590 Biostatistical Consulting (3)
Training in consulting on the biostatistical aspect of research problems arising in the biomedical field. Students, initially under the close supervision of a faculty member, participate in discussions with investigators leading to the design and/or the analysis of a quantitative investigation of a problem. With experience, independent associations of student and research worker are encouraged, with subsequent review by faculty of resulting design and analysis. Prerequisite: permission of instructor.

593 Cancer Prevention Lab (3)
Laboratory experience for pre- and post-doctoral students working on cancer prevention projects at the Fred Hutchinson Cancer Research Center. Offered jointly with EPI 593.

Courses by special arrangement
Independent Study or Research, Master's Thesis, Doctoral Dissertation

Environmental Health

480 Environmental Health Problems (*, max. 6)
Individual projects involving library, laboratory or field study of a specific environmental health problem. Prerequisite: environmental health major or permission of instructor.

Epidemiology

482 Environmental Health Internship (3-15)
Assignment to an environmental health or environmental protection agency for supervised observation and experience in environmental health technology, program planning and utilization of community resources. Prerequisite: environmental health major or permission of departmental adviser. Credit/no credit only.

512 Hazardous Waste Management Technology (3)
Lecture and field study covering the role, design concepts and capabilities of environmental technologies used in waste management, industrial, and related facilities. Lecture sessions, field site visits with site visit technical reports, and class paper addressing relevant topic in detail. Recommended: 446.

545 Drinking Water and Health (3)
Principles and requirements of public water supply for protection of public health. Includes essential characteristics of water quality and sources, water treatment and distribution systems with associated health hazards; public health engineering, epidemiology, risk assessment; surveillance, regulatory needs to assure safe public water supplies. Prerequisite: 440 or CIVE 351 or permission of instructor.

590 Selected Topics (1-6)
In-depth study of a current environmental health topic. For more information and permission, consult department program adviser.

Courses by special arrangement

Environmental Health (ENV H)
F461 Health Sciences Center, Box 357234
Telephone: 543-3199

75
527 Practical Issues in the Conduct of Epidemiological Medicine (2)
Seminar format focusing on practical aspects of conducting epidemiological studies. Topics include selection of a research topic, data sources and collection tools, selection of study subjects, human subjects review, grant writing, and the peer review process. Credit/no credit only. Prerequisite: graduate standing or permission of instructor.

531 Problems in International Health (3)
Survey of the relationship of sociocultural, political, economic and demographic characteristics of developing countries to disease occurrence and to the solution of health problems. Offered jointly with EPI 531.

542 Clinical Epidemiology (2)
Principles and methods involved in studying the outcome of illness.

543 Cancer Prevention Lab (3)
Provides laboratory experience for pre- and post-doctoral students working on cancer prevention projects at the Fred Hutchinson Cancer Research Center. Offered jointly with BOST 593.

592 Program Seminars (1-6, max. 6)
Topics to be arranged.

597 International Health Projects (6-12)
Credit/no credit only. 

Courses by special arrangement
Independent Study or Research, Fieldwork in Community Medicine, MHA Field Project, Master's Thesis

Health Services (HSERV)
F346 Health Sciences Center, Box 357660
Telephone: 543-8866

475+ Perspectives in Medical Anthropology (S)
Medical anthropology. Ways in which and extent to which "health" and "sickness" are culturally constituted. Epistemological, as well as pragmatic, limitations of the organism-centered cartesian, biomedical approach to sickness, medicine and health. Offered jointly with ANTH 475+.

505 Topics in Preventive Medicine (2)
Examine current scientific knowledge and state of the art of preventive medicine interventions. Discuss and consider options for current practice. Prerequisite: M.D., O.D., or permission of instructor. Credit/no credit only. Offered jointly with EPI 525.

531 Problems in International Health (3)
Explores social, political, economic and environmental determinants of health in developing countries and traces the development of societal responses to health problems. Topics include the origins of primary health care, child survival, traditional health systems, population, water and sanitation, international agencies and the effects of economic policies. Students participate in a case study formulating a pharmaceutical policy in a developing country. Prerequisite: graduate or medical student standing. Offered jointly with EPI 531.

592 Program Seminars (1-6, max. 6)
Topics to be arranged.

597 International Health Projects (6-12)
Credit/no credit only. 

Courses by special arrangement
Independent Study or Research, Fieldwork in Community Medicine, MHA Field Project, Master's Thesis

Pathobiology (PABIO)
F143 Health Sciences Center, Box 357238
Telephone: 543-1045

511 Pathobiological Frontiers (2)
Examines the biological and immunological concepts of infectious and non-infectious diseases with emphasis on newly recognized agents of infectious diseases. Allergy, immune responses, nature of agents and prevention are considered in a format suitable for persons knowledgeable in health-related areas but who are not necessarily in biological oriented programs. Prerequisite: entry code. Credit/no credit only.

Courses by special arrangement

School of Social Work
23 Social Work/Speech and Hearing Sciences Building, Box 354900
Telephone: 543-8617

The School of Social Work offers elective courses for upper-division or graduate students.

Seminars, workshops and institutes are planned for professionally employed social work practitioners. Inquiries should be addressed to Social Work Continuing Education, 4101 15th Ave. NE, Box 354900, Seattle, WA 98195-4900; or call 543-5795.

Social Welfare (SOCWF)
B.A. program

409 Readings in Social Welfare (1-5, max. 15)
Prerequisite: entry code.

Social Work (SOC W)
M.S.W. program

515 Foundation Practicum (1-8, max. 12)
Credit/no credit only.

525 Advanced Practicum (2-10, max. 24)
Agency-based advanced practicum. Prerequisite: 515, foundation courses and social work major. Credit/no credit only.

599 Readings in Social Work (*)
Credit/no credit only. Prerequisite: permission of instructor.

Courses by special arrangement
Independent Study or Research, Master's Thesis

Social Welfare (SOCWL)
Ph.D. program

582-583 Research Practicum (1-3, max. 3 each)
Development of specific methodological skills in social welfare research through participation in an ongoing research project. Prerequisite: entry code. Credit/no credit only.

Courses by special arrangement
Tutorial or Dissertation
Evening Degree Program

Evening Degree Programs are available at the University of Washington in Seattle and at UW Bothell and UW Tacoma. Students who wish to complete their bachelor's degree in the evening can earn a B.A. through these programs, which consist of junior- and senior-level courses. Evening bachelor's degrees in anthropology, business, communications, English, history, humanities, political science, psychology, social sciences and sociology may be earned through the Seattle program. Graduate degree programs in business administration, computer science and engineering, construction management, education, librarianship, professional accounting in taxation, public administration and social work are also offered. UW Bothell and UW Tacoma offer evening programs leading to B.A. degrees in business and liberal studies, a B.S. degree in nursing and a master's degree in education.

The Summer Quarter evening degree classes described on pages 77-79 are offered in Seattle. Evening degree students have priority in registering for these classes. Other individuals can register for these classes beginning June 23, 1997. Please see pages 79-84 for summer evening degree classes at UW Bothell and UW Tacoma. Continuing UW students who enrolled for Spring Quarter 1997 in Seattle or at UW Bothell or UW Tacoma do not need to apply for Summer Quarter. Use the Time Schedule section in this catalog and register by STAR the same way as for any quarter. For a catalog and an application to the Evening Degree Program in Seattle, call (206) 543-2326. For information about the evening program at UW Bothell, call (206) 689-5300; the number for the UW Tacoma evening program is (253) 552-4400.

Russian Language Program, St. Petersburg
Mid-June to mid-August

Uppsala University Summer Session, Sweden
Mid-June to mid-August

Office of International Programs and Exchanges

516 Schmitz Hall, Box 355815
Telephone: 543-9272
e-mail: oipe@u.washington.edu
http://weber.u.washington.edu/oipe

The University of Washington Office of International Programs and Exchanges coordinates foreign study and exchange programs around the world. Summer Quarter options are listed below. Deadlines for some of the summer programs have passed, but many are still open. Plan now to take advantage of the wide network of programs and exchanges coordinated by the Office of International Programs and Exchanges throughout the year. For more specific information, contact the office at the above address (Seattle, WA 98195-5815).

Chinese Language Program, Beijing
Mid-June to mid-August

Council Study Center at Khon Kaen University, Thailand
Mid-June to early August

Courses in Finnish Language and Culture: Kuopio, Jyväskylä, Helsinki
Intensive courses during the month of July

Danish Language Course for Foreign Students, University of Copenhagen
Mid-June to late August

Denmark International Study Program in Architecture, Copenhagen
Early June to mid-August

El Colegio, Mexico City
Mid-June to late July

Foreign Student Studies Center, University of Guadalajara, Mexico
Two five-week sessions during the summer

German Language Summer Programs: Germany-Munich, Regensburg; Austria-Salzburg, Vienna
Six- to eight-week sessions during the summer

Hebrew University, Jerusalem, Israel
Late July to mid-September

International Summer School, Oslo, Norway
Late June to early August

College of Architecture and Urban Planning

Construction Management (CM)

500 Design and Construction Law (3)
Legal issues arising from design and construction services, focusing on risk management and liability awareness. Topical areas include basic legal doctrines, the design professional/client relationship, contractor selection, the construction process, and professional practice problems. Emphasis on Washington state law.

505 Advanced Integrated Computer Applications (3)
The study of management information systems used in the construction industry, their unique characteristics and how best to examine, select and use them effectively. Emphasizes the use of current state-of-the-art computer hardware and software to solve complex problems as well as the integration of computer-aided design (CAD), scheduling (including advanced concepts such as resource leveling, schedule compression and cash flow projections) and estimating techniques in effective project, facility and construction management.

600 Independent Study or Research (*)
An in-depth independent investigation of some facet of construction management.

700 Master's Thesis (*)
An in-depth research into some aspect of construction management.

College of Arts and Sciences

Anthropology (ANTH)

305 Anthropology of the Body (5)
I&S
Biosociocultural approach to the human body as universal object-and agency-for human minds. How cross-cultural contrasts in ways of constructing the body affect self-regard and social interaction. Body shapes, sizes, colors, exudia, signals, symbolism, esthetics, metaphysics, rituals, love and politics.

431 Oral Traditions (5) V/LPA
Oral traditions and verbal expression, examined anthropologically and in relation to student interests. Critical examination of relevant theories and methods of analysis. Prerequisite: 100.
### Art History (ART H)

#### 232 Photography; Theory and Criticism (3) VLPA/I&S
Art traditions of photography from its origin in the nineteenth century to the present. Emphasis on photographic traditions and photographers of the twentieth century.

#### 321 Arts of Japan (5) VLPA/I&S
The spectrum of Japanese art from prehistory to the nineteenth century; woodblock technique from the Heian period through the early Edo period. Emphasis on the changing styles and subject matter in Ukiyo-e Hangas from Moronobu through Kuniyoshi.

### Communications (CMU)

#### 200 Introduction to Mass Communication (5) I&S
Examines the role mass communication systems play in our society, including their history, structure, processes and effects. Strong emphasis on major issues in the media today such as violence, stereotyping of images, political campaigns and other ethical issues.

### English (ENGL)

#### 323 Shakespeare to 1603 (5) VLPA
Shakespeare's career as a dramatist before 1603 (including Hamlet). Study of history plays, comedies and tragedies.

#### 331 Romantic Poetry I (5) VLPA
Blake, Wordsworth, Coleridge and their contemporaries.

#### 352 American Literature: The Early Nation (5) VLPA
Conflicting visions of the national destiny and the individual identity in the early years of America's nationhood. Works by Emerson, Thoreau, Hawthorne, Melville and such other writers as Poe, Cooper, Irving, Whitman, Dickinson and Douglass.

### Geography (GEOG)

#### 371 World Hunger and Resource Development (5) I&S
Addresses issues of hunger and poverty in their relationship to resource development, population, and environmental change in Africa, Asia, and Latin America. Examines various approaches to the problem of world hunger such as population growth, agricultural development and modernization, and issues in sustainable resource development.

### Political Science (POL 5)

#### 321 American Foreign Policy (5) I&S
Constitutional framework, major factors in formulation and execution of policy; policies as modified by recent developments; the principal policymakers—President, Congress, political parties; pressure groups, and public opinion. Recommended 101 or 202.

#### 447 Comparative Politics Seminar (5, max. 10) I&S
YA: Choosing Winners: Electoral Systems and Democracy (5)
Designed as an undergraduate seminar involving extensive reading, student discussion and preparation of a term paper. Explores the variety of electoral systems and patterns of electoral behavior in a broad array of political systems, where elections are a critical aspect of the political process. Students will select two countries for intensive study. Recommended: 204 or 354.

### Psychology (PSYCH)

#### 306 Developmental Psychology (5) I&S
Analysis of child development in relation to biological, physical and social interaction conditions from infancy to adolescence. Prerequisite: 101 or 102, or equivalent.

#### 407 History of Psychology (5) I&S
Historical and theoretical background of the basic assumptions of modern psychology, including such doctrines as behaviorism, determinism and associationism and the scientists who developed them. Prerequisite: 400 or equivalent.

### Sociology (SOC)

#### 352 The Family (5) I&S
The family as a social institution. Historical changes and social variation in family patterns. Changes over the life cycle. Alternative family forms.
Women in the Social Structure (5) I&S
Gender and social institutions; the family politics, education, medicine, law, the labor force, intersection of gender with other minority statuses such as race, age, socioeconomic status, and sexual orientation. Structure, ideological and historical determinations of gender relations.

School of Business Administration

Accounting (ACCTG)

Special Topics in Accounting (4, max. 12)
Accounting topics of current concern to faculty and students. Offered only when faculty are available and sufficient student interest exists. Seminar content announced in advance of scheduled offering. Prerequisite: permission of instructor.

A. International Tax (4)
B. Employee Issues (4)
C. State and Local Tax (4)

Business Communications (BCMU)

410 Business Reports and Other Specialized Communications (4)
Covers both internal and external communications that businessmen and businesswomen write on the job. Emphasis on various types of internal reports, ranging from short informal memos to the more complex formal reports. Also covered are specialized external types of communications directed to customers. Prerequisite: 301 or equivalent and junior standing.

International Business (BUS)

International Environment of Business (5)
Prepares students to understand the most important aspects of the international political economy. Emphasis on the important relationships among nations and business and economic institutions that influence students' performances as managers, consumers and citizens. Prerequisites: ECON 200, 201, junior standing, admission to business administration or permission of undergraduate office.

Marketing (MKTG)

301 Marketing Concepts (4)
Tools, factors and concepts used by management in planning, establishing policies and solving marketing problems. Marketing concepts, consumer demand and behavior, location analysis, marketing functions, institutions, channels, prices and public policy. Prerequisites: ECON 200, junior standing, and admission to business administration or permission of undergraduate office.

490 Special Topics and Issues in Marketing (1-6, max. 8)
A. Brand Management (4)
Contemporary topics and issues in marketing: marketing in nonprofit organizations, marketing of services, marketing in the public sector, and marketing in an economy of scarcity. Course content reflects contemporary developments and the current interests of instructors and students. Prerequisites: 301 and junior standing.

Organization and Environment (OE)

302 Organization and Environment (4)
Political, social and legal environment of business. Critical managerial issues from historical, theoretical, ethical perspectives; their impact on organization. Corporate political power, boards of directors, capitalism, industrial policy, business ethics and social responsibility, alternative corporate roles in society. Prerequisite: admission to business administration or permission of undergraduate office.

Graduate School of Public Affairs

109 Parrington Hall, Box 353055
Telephone: 543-4900

Public Affairs (PB AF)

499 Economics and Public Policy (3) I&S
This course will introduce basic microeconomic concepts and explore their importance in public policy and management.

School of Social Work

23 Social Work/Speech and Hearing Sciences Building, Box 354900
Telephone: 543-8617

M.S.W. Evening Program

514 Foundation Practice Skills (3)
Focus on the teaching of practice skills (micro, mezzo, and/or macro) associated with key contemporary themes in social work. Possible topics include social work with American Indian communities, adult interpersonal violence, and assessment and brief intervention in substance abuse and dependence.

YA. Assessment of Mental Disorders
YB. Social Work with Groups: Clinical and Task Application

515 Foundation Practicum (1-8, max. 12)
Agency-based practicum with emphasis on development of knowledge, perspectives, and skills needed for practice with individuals, families, groups, organizations, and communities. Credit/no credit only. Prerequisite: social work major.

525 Advanced Practicum (2-10, max. 24)
Agency-based advanced practicum. Prerequisites: 515 and foundation courses. Credit/no credit only. Prerequisite: social work major.

546 Multi-Ethnic Practice Methods: Working with Families of Color (3)
Focuses on specialized knowledge and skills necessary for effective social work with American Indian, African American, Asian American and Latino or Hispanic individuals, groups and communities and for work in a variety of settings and fields of practice.

* a term: June 23-July 23  ▲ b term: July 24-Aug. 22  No symbol: full term June 23-Aug. 22
See page 8 for key to symbols and abbreviations. Courses listed are subject to revision.
To apply for summer-only admission at UW Bothell or UW Tacoma, please complete the application on the inside back cover of this bulletin. For additional information, refer to the admission and registration sections of this bulletin.

For information about the UW Tacoma Bachelor of Science in Nursing Program and the Master's in Nursing Program starting in Autumn Quarter, call (253) 552-4470.

### UW Bothell Campus

**Business Program (BBUS)**

All business courses meet June 23-August 22.

**320 Introduction to Marketing Management (5)**

Focuses on designing tools, concepts and strategies for problem solving in marketing management. This core class is a prerequisite for all other 400-level marketing classes. Majors only.

**421 Consumer Marketing (5)**

Examines the process by which consumer goods and services are brought to the market. Analyzing existing markets to identify problems and opportunities, developing and modifying products, establishing and managing distribution, setting prices and undertaking promotional efforts, especially advertising. The emphasis is on mass marketing and end users. Concentration: MKT. Prerequisite: 320. Majors only.

**429 Special Topics in Marketing: Artificial Intelligence (5)**

Artificial intelligence and expert systems are changing the way that marketing professionals do their jobs. A major focus of this course will be to provide students with a "hands-on" opportunity to design, develop, and demonstrate their own expert system by addressing a specific marketing decision problem in a knowledge domain of their choosing, such as advertising, promotions, price or negotiations. Additionally, this course will provide you with an exposure to state-of-the-art models for marketing decision making. Concentration: MKT, MGT, TIM. Prerequisite: BUS 320. Non-majors may seek permission of program.

### UW Tacoma Campus

**472 Managing Employees (5)**

Companies of all sizes and types have improved their performance by enhancing the productivity of their employees. Old-style hierarchies are giving way to new visions of leadership, trust, and participation. This course focuses on how companies are succeeding through innovative human resource practices, and the steps managers can take to overcome barriers to change in order to meet the challenges of today and the future. Concentration: MGT. Prerequisites: BUS 300, 301. Open to all majors during registration period 2 and 3.

**475 Management of Technology (5)**

Overview of the issues and challenges facing firms which compete both in high technology and in technology-impacted industries. Investigation of "best business practice" in the management of technology from two complementary perspectives: (a) achieving and sustaining competitive advantage, and (b) identifying and developing organizational capabilities. Concentration: TIM, MGT. Prerequisite: BUS 300, 301. Majors only.

**490 Special Topic in Business: Negotiations and Conflict Management (5)**

This workshop uses bargaining games, role-plays and case discussions to examine issues in conflict management and interpersonal influence processes. After participating in this workshop, students should be more effective negotiators and be motivated to see creative "win-win" solutions to challenging bargaining problems. In addition, they should appreciate the ethical implications of bargaining problems and better understand their personal negotiating styles. Credit/no-credit only. Counts toward Upper Division Electives. Open to all majors during registration period 2 and 3.

**B. Environmental Management (5)**

Concern for the natural environment is an increasingly important issue for the business community. This course addresses issues, concepts, and techniques by which organizations integrate the natural environment into their strategy and operations. Topics include measuring environmental performance, the challenges of environmental entrepreneurship, environmental issues and marketing/business strategy, the relationship between technology strategy and environmental strategy, and perspectives from international business. Concentration: MGT, MGT, TIM, IE. Prerequisites: BUS 300, 301. Majors only.

### Mathematical Principles of Computing II (5)

This sequenced course integrates mathematical principles with detailed instruction in computer programming. This will be accomplished by developing a modular, mathematical software application (e.g., a statistics application with input, analysis, decision trees, 2D and 3D graphics, probability tables) as well as number of individuals programming/mathematics assignments.

### Hardware Architecture and Operating Systems (5)

This course will provide students with the fundamental theories and concepts of how hardware and operating systems interact. Hardware fundamentals such as processor and instruction set; I/O; and memory management will be examined in the context of operating systems fundamentals including process management; memory management, and file systems.

### Cooperative Education (1-10)

During the senior year, students will complete cooperative projects with local industry partners. The scope and nature of each project require students to integrate and apply their knowledge in a "real world" setting. Results will be presented to an audience of industry partners, faculty, and students at the UW Bothell Annual Computing Colloquium.

### Special Topics: Women and Computing (5)

Crosslisted with BHLTH 497B, page 82.

### Education Program (BEDUC)

**520+ Current Issues in Multicultural Education: Teaching Limited English Proficient Students Across the Curriculum (3)**

July 7-18, held at UW Seattle. Teachers encounter many forms of diversity in their day-to-day interactions with students. One such form involves student language and culture. At least one in three teachers in the United States have students of limited English proficiency in their classrooms. Participants in this short course will read the research on how children learn a second language and on how students reason in various subjects. Also drawing from readings in bilingual education, teaching of English as a second language, and sheltered instruction, participants who have taught, are teaching, or are planning to teach in mainstream classroom settings will study how to adapt their own practices for multicultural, bilingual students. This course will mix theory, research and practice. Course expectations will be based on the participants' individual programs of study and their career aspirations. Offered with EDC&I 505B.

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See the Time Schedule section, pages 85-129, for class dates and times. See the Quick Reference Guide to Quarter Deadlines, pages 130-131, for important dates and deadlines.
530A  Current Issues in Curriculum Integration: Communicating Through the Arts: Social Studies Applications (S)

530B  Current Issues in Curriculum Integration: Communicating Through the Arts (3)

A hands-on course in using the arts along with social studies to build an integrated curriculum that actually works. The course will apply techniques of looking at and doing research in the real world that make it easy and exciting to bring reality into the classroom. Investigating the specifics of a case study, students will learn general approaches and skills for developing meaningful learning across subject areas. This course will include field trips and guest presentations. (Sections A and B are linked courses and students must register for both sections.)

551A  Educational Change and School Reform (3)

July 28-August 8 Massive changes, from content standards, to assessment strategies, to how decisions are made within schools, are occurring with the entire K-16 educational system. What are the implications of these changes and school reform efforts? What role will you play given the new and multiple demands generated by these changes? This seminar explores these issues and will give you strategies for effectively working with educational change and school reform.

591A  Special Topics in Education (1-5, max. 10)

F. Reading and Writing Across the Curriculum (3)

Research has shown that reading and writing activities structured to engage students creatively and critically with varied topics enhance knowledge acquisition, strategy, and critical thinking. Since we must all be teachers of reading and writing, in this course we will explore a variety of ways to integrate reading and writing across the curriculum.

Courses by special arrangement

Independent Study, Practicum

Elementary Teacher Certification Courses

401A Learners (S)

Surveys major theories and research in contemporary child psychology and learning. Focuses on issues with implications for learning. Attempts to relate theories and issues throughout the course to educational and counseling practices. Ethical issues related to serving children’s needs will be raised, as well as issues related to moral and ethical development of children. Consideration of diverse learning styles and of the impact of ethnic and cultural influences on the development of children of color will prepare students to address the needs of diverse populations whom they serve.

403A Theories of Learning (5)

Examines theories of learning, with emphasis on constructivism, multiple intelligences, classroom applications and developmentally appropriate instruction. Field experiences will offer opportunities to apply theory and practices. Case studies will be integrated with the readings. Both field experiences and readings are designed to provide structured opportunities for students to understand the similarities, differences, interdependencies, and special needs of students with particular emphasis on those from varying racial, cultural, linguistic, intellectual abilities and socioeconomic backgrounds.

405A Contexts of Learning and Schooling (3)

Surveys major themes of historical, legal, philosophical, political, ethical and social contexts of learning and schooling in American society. Learning and schooling integrates several disciplines as the foundation from which to view the instructional process. Case studies will be emphasized as a way to examine the complexity of professional practice.

425A Reflections of Professional Practice Seminar: Becoming a Professional Educator (2)

This introductory seminar provides the prospective teacher with a foundation for understanding schools and schooling within American society. The four quarters will focus on various themes: understanding the demographic trends toward an increasingly global and pluralistic American society in the 21st century; understanding the social, political and cultural nature of schooling; considering the ethical dimensions of teaching; relating technology to the schooling process; identifying and appreciating individual differences among learners; and focusing on teaching as moral leadership.

Liberal Studies (BLS)

All liberal studies courses meet June 23-August 22.

313 Advanced Composition for the Liberal Arts (3)

This course provides an opportunity for students to continue developing their writing skills as they explore a wide range of writing styles and formats germane to liberal arts. The course will emphasize the role of the writing process in composing effective argumentative and analytical papers—as well as other, less traditional types of academic prose. Special interest will be devoted to writing of an interdisciplinary nature.

315 Understanding Statistics (5)

Prepares students for the critical reading of reports and articles that contain statistical material in their field of study. Course covers basic probability concepts, statistical calculations, data
analysis and statistical tests. The personal computer is an integral part of the course, used both to develop statistical concepts and show students how to do statistical analysis on the computer. Students will be expected to do hands-on work on the PC. Prerequisite: knowledge of algebra.

325 American Political Process (5)  
Explores key issues in contemporary American political processes, including public policy formation, the distribution and use of political power, the role of key government institutions, and the relationship between citizens and government.

335 Human Rights in America (5)  
Covers literature that deals with civil liberties, civil rights and human rights in the U.S., focusing on the way individuals and groups of persons have come to enjoy or still be denied these rights.

339 The Computer: History, Theory and Uses (5)  
Three aspects of the computer will be investigated. First, its history will be traced from Pascal to today. Second, its theory will be explored by studying logic, Boolean Algebra, and the concept of computability. Third, students will discover its uses with hands-on, real-life applications. The personal computer will be an integral part of the course.

343 History of Indian and White Relations (5)  
Historical and critical examination of the laws, institutions and individuals which have shaped Indian and white relations in the United States. Special emphasis given to economic, political, educational, and religious policies which have been instrumental in the creation of contemporary Indian reservation and urban societies.

362 Contemporary Political Ideas and Ideologies (5)  
Explores some of the major political ideologies of our world, how they developed, and especially, how they have shaped and been shaped by the political experiences of peoples and groups in different times and places. Learning to think critically about fundamental political questions is emphasized. Students will be encouraged to develop their own "political thinking" abilities.

376 Circa 15000: Arts of East and West (5)  
Cultural history through the arts concentrating on world history at about 1500 A.D., during the era of early European expansion into Africa, the Americas, and Asia. Focuses on parts of the Mediterranean, the Islamic spheres of the ancient Near East and Africa, the Inca and Aztec cultures, Ming China, and Muramachi Japan.

404 20th Century Russia (5)  
History of Russia from the reign of Nicholas II to the present. Covers the main cultural, political, social, and economic events from the end of the Imperial period through the founding of the Soviet Union to the dismantling of Soviet institutions by Mikhail Gorbachev in the present.

461 Special Topics in American Intellectual History: The Culture of the Cold War in America (5)  
Explores the history of America between 1945 and 1974 through the use of film, literature and music. Studies the values, assumptions and ideologies that Americans held between the dropping of the first atomic bomb and the first resignation of a sitting president.

475 Chicano Literature and Culture (5)  
Explores Mexican-American cultural expression in literary works in connection with significant nonliterary influences on this expression, such as history, political and mythical. The course encourages students to develop a broad view conducive to an academically sound study of the subject and recognition of the plurality in American culture.

477 Abnormal Psychology Through Film and Literature (5)  
This course uses an interdisciplinary approach to explore topics in abnormal psychology. Common mental illnesses will be studied through the use of film and literature.

478 Art, Patronage and Markets (5)  
Examines a range of issues related to patronage of art and artists, and the formation of art institutions including the mechanisms of the art market in Europe from the Renaissance on, and then in nineteenth and twentieth-century America.

480 International Study Abroad: Japanese Political Economy (10)  
Offers a broad introduction to business management and the challenges managers face. Variety of managerial tasks are introduced including planning, leading, motivating, setting goals and making decisions. Designed to build skills in communication, teamwork, strategic thinking, problem solving and flexibility. Prerequisite for all business courses.

487 Women and American Literature: Novels of Awakening and Bildungsroman (5)  
Focuses on fictional texts written primarily by twentieth century American women writers in which female protagonists undergo significant development and change.

Nursing Program

BHLMH 497A Special Topics in Health: Aging in Modern Society: Contemporary Issues (5)  
Introduces the array of issues affecting older adults in contemporary society. Issues related to gender, race, ethnicity and culture; work and retirement; health and long-term care; kinship and intergenerational relationships; spirituality, grief and loss; and implications for aging in the future will be considered.

BHLMH 497B Special Topics in Health: Health Care Informatics (5)  
The computerized medical record holds the potential for improving the quality of care by compiling all patient information in a central location, easily accessible to all care providers. This course will focus on issues central to the creation of computerized records, methods for integrating health care data systems, human interface design, automated outcomes measures and benchmarking, risk management and effective techniques for managing technological change within a variety of health care settings. Class projects and discussions will emphasize the social, organizational, cultural, ethical and technical implications of health care information systems. Crosslisted with CSSSA 490B.

BNURS 511 Curriculum Development in Nursing Education (3)  
Theoretical rationale for curriculum development and study of curricular problems in nursing. All students taking the course will complete an instructional package for a specific population incorporating the principles of curriculum design presented in class and in the literature.

UW Tacoma Campus

Business Program

T ACCT 330 Introduction to Accounting Information Systems (3)  
Entry code required.

T BUS 300 Managing in Organizations (5)  
Offers a broad introduction to business management and the challenges managers face. A variety of managerial tasks are introduced including planning, leading, motivating, setting goals and making decisions. Designed to build skills in communication, teamwork, strategic thinking, problem solving and flexibility. Prerequisite for all business courses.

T BUS 490 Special Topics (5, max. 25)  
Topics vary depending on faculty members interests.

Teacher Certification Program (TEDUC)

451 Topics in Literacy Instruction: Beginning and Remedial Reading (3)  
Designed to provide students with both the theoretical and empirical foundations for designing and delivering beginning and remedial instruction. Content includes assumptions underlying the two major approaches to beginning reading instruction, evaluation and modification of curriculum materials, and methods for monitoring student progress toward literacy.

See the Time Schedule section, pages 85-129, for class dates and times.  
See the Quick Reference Guide to Quarter Deadlines, pages 130-131, for important dates and deadlines.
464 Topics in Content Instruction: Integrated Instruction for Science (3)
This course is intended to help prospective teachers understand the nature of science and design instructional strategies to facilitate students' learning of the scientific process.

471 Diversity and Equity in Schools and Curriculum (3)
Designed to help prospective teachers acquire instructional methods and multicultural understanding necessary to address the learning needs of a diverse student population.

472 Theories of Child Development and Learning (3)
Designed to give preservice teachers the theoretical, conceptual and empirical bases to examine learners, learning and teaching. The translation of theory into practice using classroom examples is also emphasized.

473 Classroom Assessment (3)
Helps teachers explore various forms of assessment and understand their effects on students.

474 Social Dynamics of Schools (1)
Helps prepare teachers for full participation in school. Provides insights into the nature of group dynamics by developing a commitment to group decision-making, and by teaching modes of conflict resolution.

Master of Education Program (TEDUC)

503 Education in Society: Institutional Perspectives (3)
An examination of schools from an "internal" perspective, focusing particularly on student cultures, pedagogical modes, organizational dynamics, and other factors that mediate the teaching and learning context. A central objective of the course is to nurture critical reflection on schooling that results in ethically grounded teaching that is sensitive to ambiguities and contradictions in the schooling process. Prerequisite: 501.

533 Self-Esteem, Self-Concept, and Self-Efficacy: Curricular and Instructional Issues (3)
This course will provide information on research and theory in the psychological constructs related to self. Students will explore how to translate research into classroom practice in various content areas, especially for the gifted and at-risk student populations.

534 Process Writing Across the Curriculum (3)
This theory-into-practice course will study research and theories on writing development in school children, examine the relationships among reading, writing and content knowledge acquisition, and experiment with writing methods for classroom teachers.

535 Integrated Curriculum: Exploring Critical Issues in Health and Society Through Children's and Young Adult Literature (3)
Health issues have become of personal and societal concerns. The purpose of this course is to provide relevant information on current health issues, to create conceptual framework on health education, and to explore ways to integrate health issues with reading, writing, literature, social studies and health sciences in the K-12 curriculum.

538 Classroom Assessment: Critical Issues (3)
Drawing on history, sociology, critical theory and other academic traditions, this course seeks to nurture critical perspective on contemporary classroom and student processes. The goal is classroom assessment that is equitable, authentic and publicly accountable. Prerequisites: 501 and 505; preferably taken after 536 and 537.

547 School Law (3)
A broad introduction to the laws, regulations and court decisions that directly affect the actions and decisions made by teachers and administrators, with a special emphasis on the education of students with disabilities. Offered jointly with TEDSP 547.

567 Designing Curriculum in the Content Areas Using the New Tools of Educational Technology (3)
This course will provide advanced study in the use of new tools of educational technology: laser disk, CD-ROM, computer software, multimedia, the Internet, etc. The course methods will include reading and discussion, research and evaluation, the study of curriculum theory and design, and hands-on use of the new tools of educational technology. Students will design, for classroom use, units that use these tools. Prerequisite: 566 or permission of instructor.

591 Special Topics in Education: A. Contemporary Literary Images of the Black Experience and Education (3)

Special Education (TEDP)

547 Special Education and the Law (3)
A broad introduction to the laws, regulations and court decisions that directly affect the actions and decisions made by teachers and administrators, with a special emphasis on the education of students with disabilities. Offered jointly with TEDSP 547.

Courses by special arrangement
Independent Study, Practicum, Culminating Project

ABOUT THE UNIVERSITY OF WASHINGTON, TACOMA

The Tacoma campus of the University of Washington was founded in 1980 in response to the educational needs of the South Puget Sound region: primarily Pierce, King, Thurston and Kitsap counties.

Our academic programs are designed to serve a diverse population of students who have completed some college study and are seeking to complete a bachelor's degree or pursue a master's degree. Programs maintain traditional University of Washington standards of quality and were selected in response to regional needs as defined by employers, citizens and prospective students.

UW Tacoma is an innovative community of active scholars and teachers, a diverse student body and a committed staff.

Campus facilities are located in downtown Tacoma. Groundbreaking was held in May, 1996 for the permanent campus site, which is located in the Historic Warehouse District of Tacoma.

For more information about UW Tacoma, call (253) 535-4400, TDD (253) 535-4419 or visit our Web site at http://www.uwt.washington.edu

* a term: June 23-July 23  b term: July 24-Aug. 22  No symbol: full term June 23-Aug. 22
See page 8 for key to symbols and abbreviations. Courses listed are subject to revision.
Liberal Studies (TLS)

453 Health, Illness and Culture (5)
This course will explore meanings of health and illness in contemporary American culture. We will also consider historical, cross-cultural and literary examples. Conversely, health, illness and therapeutic and preventive practices provide crucial insights into aspects of American culture and society.

490 Special Topics
XA. The Art Scene (5)
XB. Fundamentals of Fiction (5)

490A Special Topics
X. The History of Jazz (5)

Liberal Studies: Comparative U.S. Studies (TLSUS)

322 American Labor Since the Civil War (5)
A history of workers and labor institutions from the era of industrialization to the post-industrial era, focusing on labor-management conflict, the rise and fall of unions, and on the role of government, the media, an other forces in determining events. The course will conclude with an assessment of labor today.

485 Media Genres: Film Comedy (5)
Study of genre, the thematic classification of films and television programming. What are the "rules" of a genre and how may a particular movie or TV program bend them? How does a genre evolve over time, and how is its social and historical relevance? How has the industry used genres? Specific topics will vary, but might include comedy, news/documentary, musical and social-problem melodramas. May be repeated for credit with instructor's approval.

Liberal Studies: Comparative International Study (TLISIN)

315A Europe in the 20th Century (5)
An interdisciplinary examination of the major political, social and cultural developments in Europe during the 20th century. The course will look at two world wars, at fascism and communism and at alternatives to parliamentary democracy, at Europe's remarkable revival in the era since 1945, and conclude with an examination of the new integration of Europe and its prospects for reestablishing its former world prominence in the future.

324B Modern Latin America (5)
A multidisciplinary examination of Latin America with a social science emphasis. The course includes a brief history of the region, a sociological analysis of various Latin American institutions (the church, the military, the labor movement, etc.), a consideration of migration issues and development economics, and a brief section on culture. The course concludes with an examination of contemporary Latin American political and social issues.

335 Religion in the Modern World (5)
Intellectual questions raised by thinkers such as Darwin, Marx and Freud were complemented by social and political movements to privatize religion, effectively removing it from public life. We will consider both the intellectual and social transformations of religion in the modern western milieu, and also examine the contrasting situation in less secular non-western societies.

384B Arts and Culture of Japan (5)
This course combines history, anthropology, religion and art history to seek insights into Japanese civilization. Ethnographic texts and class discussions will be used to explore aspects of daily life in twentieth century Japan. Japanese representations of reality: nature, society, history, persons, morality, aesthetics, time, space and meaning will be explored through readings and slide lectures that will consider how the Japanese themselves have historically expressed their distinctive, cultural realities in the visual forms of painting, sculpture and architecture.

429A Topics in States and Markets: Vietnam (5)

435A Popular Movements in Latin America (5)
An examination of popular movements in Latin America. This course will include historical background of modern popular organizations, an analysis of the evolution of the term "popular movement," and discussions of contemporary trade unionism, grass-roots peoples' initiatives, cooperative movements, guerilla organizations, human rights groups and feminist movements.

466A Modernity and Its Critics (5)
A consideration of various attempts to specify and critique the contours of Western modernity in culture philosophy and political economy. Some of the selected themes for this seminar will include the impact of Cartesian philosophy, science and rationality on our concepts of the world, ourselves, our bodies, time, and human relations; how the market economy, industrialization and the modern state have changed a similar range of understandings and experience; and how new forms of power and knowledge have shaped everyday life. May be repeated for credit with instructor's approval.

489A Topics in Cultural Expression: Russian History Through Soviet Film (5)

Courses by special arrangement
Internship, Senior Thesis, Directed Readings, Undergraduate Research

Nursing Program (TNURS)

340 Clinical Nursing Phenomena (3)
Selected clinical phenomena examined from the perspective of physiologic, pathophysiologic, experiential and behavioral responses to life events and alterations in states of health and illness. Relationship of nursing therapies to each perspective and influence of life span and sociocultural factors are identified.

350 Decision Making and Therapeutics in Nursing (3)
Focuses on types of thinking and writing germane to learning and practice in nursing including self assessment, understanding and producing written communication, abstract thinking, group dialogue, evaluating points of view, problem solving, clinical decision-making. Provides opportunity for application in discipline-related issues and frameworks.

450 Connected Learning (1)
An opportunity and three-quarter requirement for nursing students to participate in a learning community in small groups with a faculty member. Focus is on dialogue, understanding others' perspectives, building community and integration of concurrent learning in other courses.
The information published in this bulletin is subject to change. The instructor for a particular course may change, or the instructor may use assistants to teach the course and courses may not meet each day listed. Additionally, courses listed may be cancelled due to insufficient enrollment. Departmental phone numbers and course descriptions are included in the course listing section, pages 8-84. For information about STAR registration, see How to Register Using STAR, pages 140-142. See pages 156-157 for a list of department, major, and college codes which may appear on your registration confirmation. See page 165 for a guide to classroom locations.

Abbreviations and symbols used to indicate course requirements
Some courses have special requirements for registration. These requirements, listed below the course title in the Time Schedule section, are indicated by the following abbreviations and symbols:

> Entry code or faculty number required to enroll.

**Class Location**
If followed by **"**, the location is to be arranged.

**CR/NC ONLY**
Course is offered for credit/no credit grading only. See page 147 for more grade information.

**ARR**
Days and times to be arranged.

**Offered jointly with**
Classes taught in the same room at the same time: students register and receive credit for one course only.

### Special program codes
(H) = Honors (%)= New course

### Comment and registration restrictions
PD.1 = Period I EC = Add or Drop Code *
PD.2 = Period II or DC followed by the
PD.3 = Period III location where they
PERM = Permission are available to be
INSTR = Instructor picked up.
* = To be arranged

**PD.1, PD.2, PD.3**
Registration period for which the indicated restriction applies. If no period is indicated, the restriction applies to all registration periods. See page 138 for registration period dates.

**Credit**
2.5 means 2 1/2 credit
(\/) means "or"
(-) means "to"
VAR means variable credit and any number of credits may be elected (however, fractional credit registration-e.g., 1/2 credit is not allowed in variable-credit courses).

### General education requirements
VLPA = Visual, literary and performing arts
I&S = Individual and society
NW = Natural world
GE = Nonspecified general education
QSR = Quantitative, symbolic or formal reasoning
C = English composition

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**Sample of a Time Schedule listing**

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<tr>
<th>Department</th>
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<td>NOVEL WRITING (VLPA)</td>
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**Comments and registration restrictions**
### ARCHITECTURE & URBAN PLANNING

#### ARCHITECTURE

**Entry Codes Available in GLO 208**

**ARCH 151 APPRECIATION OF ARCH I (VLPA)**
100 U 1 JV 630-900P GLD 147 DEINES,K

**ARCH 304 PEOPLE ENVIR INTER (ISE)**
1090 A 1 TTH 1050-1200 ARCH 282 SASHOFF,R T

**ARCH 370 COMPUTERS IN ARCH**
1091 A 1 TTH 135-150 GLD 240

**ARCH 403 ARCH PROBLEMS**
1091 A 1 MWF 110-140 P 218 OFFERED JOINTLY WITH ARCH 504 A CREDIT/NO CREDIT ONLY

**ARCH 410 ARCH SKETCHING**
1093 A 1 TTH 1130-1230 GLD 407 BARTC, C NO FRESHMEN, SOPHOMORS

**ARCH 420 STRUCTURAL DSGN I**
1094 U 4 TTH 1540-900P GLD 436 LEBERT,E

**ARCH 452 PUGET SND ARCHITOWNS (ISE)**
1095 U 3 TTH 1530-930P ARCH 102 HILDEBRAND,G T

**ARCH 460 DESIGN THIN & ANALYSIS (VLPA)**
1096 U 3 MWF 1050-1230 GLD 284 SEE,J MEETS WRITING COURSE REQUIREMENT NO FRESHMEN, SOPHOMORS

**ARCH 470 ARCH CAD SYSTEMS**
1097 A 4 MWF 1030-1100 GLD 240 OPEN TO OUTSIDE PROFESSIONALS BASIC COMPUTER LITERACY HIGHLY RECOMMENDED

**ARCH 490 SPECIAL PROJECTS**
1099 A 6 MWF 1030-1130 GLD 124 CREDIT/NO CREDIT ONLY

**ARCH 508 ADV ARCH STUDIES**
1100 B 2 TTH 0940-1130 GLD 240 CREDIT/NO CREDIT ONLY

**ARCH 560 LANDSCAPING**
1102 A 3 W 600-830P ARC 101 PALADINO,T

**ARCH 495 UNDERGRAD RESEARCH**
1103 A 1-6 TO BE ARRANGED

**ARCH 506 ADV ARCH STUDIES**
1104 A 6 MWF 110-140 GLD 218 OFFERED JOINTLY WITH ARCH 403 A CREDIT/NO CREDIT ONLY

**ARCH 520 ARCH THEORIES**
1106 B 3 TTH 600-900P GLD 203

**ARCH 855 PROF FIELD WORK**
1120 A VAR TO BE ARRANGED

**ARCH 800 INDEPENDENT STUDY/RECH**
1130 A VAR TO BE ARRANGED

**ARCH 700 MASTERS THESIS**
1131 A VAR TO BE ARRANGED

#### URBAN PLANNING

**Entry Codes Available in GLO 410**

**URSPD 480 SPECIAL TOPICS**
1330 A 3 MWF 1000-1550 GLD 137 SAKISNO,M

**URSPD 490 SPECIAL TOPICS**
1370 I 3 MWF 1000-1550 GLD 117 KASPERIS,R

**URSPD 547 PROFESSIONAL PROJECT**
1370 A 6 TO BE ARRANGED

**URSPD 600 INDEPENDENT STUDY/RECH**
1372 A 1-9 TO BE ARRANGED

**URSPD 700 MASTERS THESIS**
1374 A 1-9 TO BE ARRANGED

**URSPD 800 DOCTORAL DISSERTATION**
1376 A 1-9 TO BE ARRANGED

#### CONSTRUCTION MANAGEMENT

**CM 310 BLDG CONST INTRO**
1404 U 1 TTH 1030-1150 GLD 240 SCHAPENBERG NO FRESHMEN, SOPHOMORS

**CM 313 CONSTR MATH & MATT**
1405 U 1 TTH 1010-1130 GLD 201 KILEY,D

**CM 320 CONSTR CONST DCCS**
1406 U 3 MWF 1330-1500 GLD 201 VBAREL,S

**CM 493 UNDERGRAD RESEARCH**
1407 A VAR TO BE ARRANGED

**CM MAJORS ONLY**

#### LANDSCAPE ARCHITECTURE

**Entry Codes Are Available in GLD 346**

**LARCH 300 INTRO LA DESIGN (VLPA)**
1329 A 6 MWF 110-150 GLD 312 MAC ELROD,W SMITH,L

**LARCH 408 INDO LA DESIGN STUDIO**
1323 A 6 MWF 100-1550 GLD 137 ROBERTSON,E

**LARCH 475 PROFESSIONAL PROJECT**
1321 A 1-6 TO BE ARRANGED

**LARCH 498 SPECIAL PROJECTS**
1322 A 6 MWF 110-150 GLD 137

**LARCH 698 SPECIAL TOPICS**
1338 A 6 MWF 110-150 GLD 442

**LARCH 855 PROF FIELD WORK**
1365 A VAR TO BE ARRANGED

**LARCH 800 INDEPENDENT STUDY/RECH**
1373 A VAR TO BE ARRANGED

**LARCH 700 MASTERS THESIS**
1371 A VAR TO BE ARRANGED

**LARCH 908 SPECIAL TOPICS**
1388 A 6 MWF 110-150 GLD 442

**LARCH 899 UNDERGRAD RESEARCH**
1390 A 1-6 TO BE ARRANGED

**LARCH MAJORS ONLY**

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See pages 9-94 for course descriptions, page 85 on how to read time schedule, and pages 130-131 for important dates and deadlines.

VLF = Visual, literary and performing arts  
H = Honors course  
I&S = Individuals and societies  
NW = Natural world  
QSR = Quantitative, symbolic or formal reasoning  
C = English composition

PD1 = Period I (April 28-May 26)  
PD2 = Period II (May 27-June 22)  
PD3 = Period III (June 23-July 3)  
PD4 = Period IV (July 4-Aug. 6)  

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**ASIAN LANGUAGES & LITERATURE**

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See pages 9-84 for course descriptions, page 85 on how to read time schedule, and pages 130-131 for important dates and deadlines.

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**CHINESE CONT'D**

**Hindi**

**Japanese**

**Korean**

**Astronomy**

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**Indian Languages**

**Japanese**

**Korean**

**Indian Languages**

**Japanese**

**Korean**

**Chinese**

**Indian Languages**

**Japanese**

**Korean**
### Summer Quarter Time Schedule

#### CHEMISTRY CONT'D

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#### CHEMISTRY 200

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See pages 9-44 for course descriptions, page 85 on how to read time schedule, and pages 120-121 for important dates and deadlines.

**VLP A** = Visual, literary and performing arts

**H** = Honors course

**I&S** = Individuals and societies

**N** = Natural world

**QSR** = Quantitative, symbolic or formal reasoning

**C** = English composition

**PD1** = Period I (April 28-May 26)

**PD2** = Period II (May 27-June 22)

**PD3** = Period III (June 23-July 3)

**PD4** = Period IV (July 6-Aug 6)
### COMPARATIVE HISTORY OF IDEAS

A complete list of Chid Core Courses is available at the Chid Office, PDL 8102, or call 543-7333.

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### COMPARATIVE LITERATURE

Entry codes for all classes available from instructors only; independent study and special seminars available in PDL 8-131.

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SUMMER QUARTER TIME SCHEDULE

ECONOMICS

ECON 200 INTRO MICROECON (I&S,GENR) 1643 A 5 MTWThF 9:30-10:00 SLN 206
1644 B 5 MTWThF 9:30-10:00 GCG 108
1645 C 5 MTWThF 10:10-11:00 SAV 407
1646 D 5 MTWThF 11:10-12:00 GCG 127

ECON 201 INTRO MACROECON (I&S,GENR) 1641 A 5 MTWTh 8:30-9:30 SAV 349
1642 B 5 MTWTh 9:40-10:30 SAV 349
1643 C 5 MTWTh 10:10-11:00 SAV 407
1644 D 5 MTWTh 11:10-12:00 CUN 326

ECON 300 INTERMEDIATE MICRO-ECON (I&S) 1611 A 5 MTWThF 9:40-10:30 THU 124
PREVIEW: 200 AND MAT 122 ON 124 OR EQUITY

ECON 301 INTERMEDIATE MACRO-ECON (I&S) 1612 A 8 TTh 10:50-11:50 SAV 21B ZIVOT,E
PREVIEW: ECON 300

ECON 311 INTRO TO ECON STAT (I&W,GENR) 1617 A 4 MTWThF 10:10-11:00 GCG 108
1618 B 4 MTWThF 10:10-11:00 SAV 349
OFFERED JOINTLY WITH STAT 311A
1619 B 4 MTWThF 10:10-11:00 SAV 349
OFFERED JOINTLY WITH STAT 311A

ECON 404 IND ORGRAPH ANALYS (I&S) 1615 B 5 MTWThF 10:30-11:30 SAV 211 KNALL,F
PREVIEW: ECON 300

ECON 422 INVEST CAPT FINANC (I&S) 1616 A 4 MTWThF 9:40-10:30 SAV 411 KOCHEMIE,I
ADD CODE REQUIRED (PR) 3
PREVIEW: ECON 300, 311 OR EQUITY

ECON 431 GOVT & BUSINESS (I&S) 1617 A 5 MTWThF 9:30-10:00 GCG 108 LAMARR,E
PREVIEW: ECON 300 OR EQUIVALENT

ECON 450 NATURAL RESOURCE ECON (I&S) 1618 A 5 TTh 10:50-11:50 LOW 202 ELLIS,K
PREVIEW: ECON 300 OR PERM OF INTR

ECON 450 PUB FIN: EXPEND POL (I&S) 1619 A 5 MTWThF 10:40-11:40 DEN 209 HALVORSEN,A
PREVIEW: ECON 300

ECON 451 PUB FIN: TAX POLICY (I&S) 1620 A 5 MTWThF 10:30-11:30 DEN 209 BRUCE,N
PREVIEW: ECON 300

ECON 460 ECON HIST EUROPE (I&S) 1621 A 4 MTWThF 10:10-11:00 SAV 315 THOMAS,R
OFFERED JOINTLY WITH HIST 414 A
ADD CODE REQUIRED (PR) 3
PREVIEW: ECON 200 AND 211

ECON 499 UNDERGRD RESEARCH (I&S) 1602 A 1-5 TO BE ARRANGED
PREVIEW: ECON 200 AND 211

ECON 600 INDEPENDENT STDY/RECN 1603 A 1-4 TO BE ARRANGED
CREDIT/NO CREDIT ONLY
PREVIEW: ECON 200 AND 211

ECON 601 INTERNSHIP 1604 A 3-5 CREDIT/NO CREDIT ONLY
INSTRUCTOR D.D. SAV 304

ECON 605 DOCTORAL DISSERTATN 1606 A 1-5 TO BE ARRANGED
PREVIEW: ECON 200 AND 211

ENGLISH

ENGL 100 INTERMEDIATE ESL 1776 A 5 MTWThF 11:00-12:00 SAV 313
ADD CODE REQUIRED
INSTRUCTOR D.D. SAV 304

ENGL 101 HI-INTERMEDIATE ESL 1779 A 5 MTWThF 11:00-12:00 SAV 313
ADD CODE REQUIRED
INSTRUCTOR D.D. SAV 304

ENGL 101 MED INTERMEDIATE ESL 1781 A 5 MTWThF 11:00-12:00 SAV 313
ADD CODE REQUIRED
INSTRUCTOR D.D. SAV 304

ENGL 101 HI-INTERMEDIATE ESL 1783 A 5 MTWThF 11:00-12:00 SAV 313
ADD CODE REQUIRED
INSTRUCTOR D.D. SAV 304

ENGL 101 HI-INTERMEDIATE ESL 1785 A 5 MTWThF 11:00-12:00 SAV 313
ADD CODE REQUIRED
INSTRUCTOR D.D. SAV 304

ENGL 102 ADVANCED ESL 1793 A 5 MTWThF 11:00-12:00 SAV 313
ADD CODE REQUIRED
INSTRUCTOR D.D. SAV 304

See pages 9-84 for course descriptions, page 85 on how to read time schedule, and pages 130-131 for important dates and deadlines.
### ENGLISH CONT'D

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See pages 9-06 for course descriptions, page 85 on how to read time schedule, and pages 130-131 for important dates and deadlines.
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### THE UNIVERSITY OF WASHINGTON
**Summer Quarter Time Schedule**

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</table>

See pages 9-84 for course descriptions, page 85 on how to read time schedule, and pages 130-131 for important dates and deadlines.

- **VLPA**: Visual, literary, and performing arts
- **H**: Honors course
- **ID**: Individual study
- **NW**: Natural world
- **CR**: Quantitative, symbolic or formal reasoning
- **C**: English composition
### MATH 101 ALGEBRA
- **Mathematics:**
- **Meeting Time:** MWThF 7:00-11:50
- **Location:** SMTH 405

### MATH 120 PRECALCULUS
- **Mathematics:**
- **Meeting Time:** MWThF 7:00-11:50
- **Location:** SMTH 405

### MATH 126 CALCULUS I
- **Mathematics:**
- **Meeting Time:** MWThF 7:00-11:50
- **Location:** SMTH 405

### MATH 127 CALCULUS II
- **Mathematics:**
- **Meeting Time:** MWThF 7:00-11:50
- **Location:** SMTH 405

### MATH 128 CALCULUS III
- **Mathematics:**
- **Meeting Time:** MWThF 7:00-11:50
- **Location:** SMTH 405

### MATH 130 LINEAR ALGEBRA
- **Mathematics:**
- **Meeting Time:** MWThF 7:00-11:50
- **Location:** SMTH 405

### MATH 205 LINEAR ALGEBRA
- **Mathematics:**
- **Meeting Time:** MWThF 7:00-11:50
- **Location:** SMTH 405

### MATH 201 ALGEBRA
- **Mathematics:**
- **Meeting Time:** MWThF 7:00-11:50
- **Location:** SMTH 405

### MATH 207 INTRODUCTION TO DIFF EQ
- **Mathematics:**
- **Meeting Time:** MWThF 7:00-11:50
- **Location:** SMTH 405

### MATH 208 LINEAR ALGEBRA
- **Mathematics:**
- **Meeting Time:** MWThF 7:00-11:50
- **Location:** SMTH 405

### MATH 209 LINEAR ALGEBRA
- **Mathematics:**
- **Meeting Time:** MWThF 7:00-11:50
- **Location:** SMTH 405

### MATH 221 ADVANCED CALC I
- **Mathematics:**
- **Meeting Time:** MWThF 7:00-11:50
- **Location:** SMTH 405

### MATH 327 INTRODUCTION TO REAL ANALYSIS I
- **Mathematics:**
- **Meeting Time:** MWThF 7:00-11:50
- **Location:** SMTH 405

### MATH 328 INTRODUCTION TO REAL ANALYSIS II
- **Mathematics:**
- **Meeting Time:** MWThF 7:00-11:50
- **Location:** SMTH 405

### MATH 401 DIFFERENTIAL EQUATIONS
- **Mathematics:**
- **Meeting Time:** MWThF 7:00-11:50
- **Location:** SMTH 405

### MATH 402 INTRODUCTION TO MODERN ALGEBRA
- **Mathematics:**
- **Meeting Time:** MWThF 7:00-11:50
- **Location:** SMTH 405

### MATH 410 CONTRIBUTIONS TO THE ORAL LITERATURE
- **Mathematics:**
- **Meeting Time:** MWThF 7:00-11:50
- **Location:** SMTH 405

### MATH 413 INTRODUCTION TO NUMBER THEORY
- **Mathematics:**
- **Meeting Time:** MWThF 7:00-11:50
- **Location:** SMTH 405

### MATH 420 HISTORY OF MATHEMATICS
- **Mathematics:**
- **Meeting Time:** MWThF 7:00-11:50
- **Location:** SMTH 405

### MATH 427 TOPICS IN APPLIED ANALYSIS
- **Mathematics:**
- **Meeting Time:** MWThF 7:00-11:50
- **Location:** SMTH 405

### MATH 428 TOPICS IN APPLIED ANALYSIS
- **Mathematics:**
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- **Location:** SMTH 405

### MATH 430 TOPOLOGY
- **Mathematics:**
- **Meeting Time:** MWThF 7:00-11:50
- **Location:** SMTH 405

### MATH 440 REAL ANALYSIS
- **Mathematics:**
- **Meeting Time:** MWThF 7:00-11:50
- **Location:** SMTH 405

### MATH 450 ADVANCED TOPICS IN MATH
- **Mathematics:**
- **Meeting Time:** MWThF 7:00-11:50
- **Location:** SMTH 405

### MATH 460 HONORS SEMINAR
- **Mathematics:**
- **Meeting Time:** MWThF 7:00-11:50
- **Location:** SMTH 405

### MATH 470 COMPUTER SCIENCE
- **Mathematics:**
- **Meeting Time:** MWThF 7:00-11:50
- **Location:** SMTH 405

### MATH 480 INTRODUCTION TO THEORETICAL COMPUTER SCIENCE
- **Mathematics:**
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- **Location:** SMTH 405

### MATH 497 RESEARCH IN MATHEMATICS
- **Mathematics:**
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- **Location:** SMTH 405

### MATH 498 SPECIAL TOPICS IN MATHEMATICS
- **Mathematics:**
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- **Location:** SMTH 405
### Summer Quarter Time Schedule

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**MUSIC**

**APPLIED MUSIC**

**ENTRIES ARE AVAILABLE IN MUS 136**

**MUSAP 133** BASIC KEYBOARD (VLPA)  
**MUSAP 134** BASIC KEYBOARD (VLPA)  
**MUSAP 136** BASIC KEYBOARD (VLPA)  
**MUSAP 205** STRING TECHNIQUES (VLPA)  
**MUSAP 217** PERCUSSION TECHNIQUES (VLPA)  
**MUSAP 220** MIDI SYSTEMS TECH (VLPA)  
**MUSAP 231** SECONDARY MIDI TECH (VLPA)  
**MUSAP 233** SECONDARY PIANO (VLPA)  
**MUSAP 234** SECONDARY PIANO (VLPA)  
**MUSAP 235** SECONDARY PIANO (VLPA)  
**MUSAP 239** SECONDARY PIANO (VLPA)  
**MUSAP 300** VIOLIN-VIOLA (VLPA)  
**MUSAP 305** VIOLINCELLO (VLPA)  
**MUSAP 309** CLARINET (VLPA)  
**MUSAP 312** HORN (VLPA)  
**MUSAP 313** TRUMPET (VLPA)  
**MUSAP 315** VIOLINCELLO (VLPA)  
**MUSAP 318** VIOLINCELLO (VLPA)  
**MUSAP 319** VIOLINCELLO (VLPA)  
**MUSAP 321** VIOLINCELLO (VLPA)  

**MATH 600 DOCTORAL DISSERTATION**

**MATH 600** DOCTORAL DISSERTATION  
**TERM A**  
**TERM B**  
**TERM C**  
**TERM D**  
**TERM E**  

**ENGINEERING**

**MUSAP 324** VIOLIN-VIOLA (VLPA)  
**MUSAP 325** VIOLINCELLO (VLPA)  
**MUSAP 329** CLARINET (VLPA)  
**MUSAP 333** TRUMPET (VLPA)  
**MUSAP 337** PERCUSSION (VLPA)  
**MUSAP 388** VIOLINCELLO (VLPA)  
**MUSAP 398** VIOLINCELLO (VLPA)  
**MUSAP 421** PIANO (VLPA)  
**MUSAP 424** VIOLIN-VIOLA (VLPA)  
**MUSAP 425** VIOLINCELLO (VLPA)  
**MUSAP 428** CLARINET (VLPA)  
**MUSAP 432** HORN (VLPA)  
**MUSAP 433** TRUMPET (VLPA)  
**MUSAP 435** VIOLINCELLO (VLPA)  
**MUSAP 451** PIANO (VLPA)  
**MUSAP 465** VIOLIN-VIOLA (VLPA)  
**MUSAP 468** VIOLINCELLO (VLPA)  
**MUSAP 469** VIOLINCELLO (VLPA)  
**MUSAP 470** VIOLINCELLO (VLPA)  
**MUSAP 471** VIOLINCELLO (VLPA)  
**MUSAP 472** VIOLINCELLO (VLPA)  

**MUSAP 818** GUITAR  
**MUSAP 820** VIOLIN  
**MUSAP 824** VIOLIN-VIOLA  
**MUSAP 825** VIOLINCELLO  
**MUSAP 828** CLARINET  
**MUSAP 832** HORN  
**MUSAP 833** TRUMPET  
**MUSAP 838** GUITAR  

**STUDENTS, MAJORS AND NON-MAJORS, MUST MEET ALL PREREQUISITIES, PERMISSION AND ATTENDANCE REQUIREMENTS OR BE DROPPED FROM THE 3RD DAY OF THE QUARTER. ADD CODES AVAILABLE IN MUS 136. OVERLOADS ARE ISSUED FROM INSTRUCTORS DURING THE FIRST WEEK OF THE QUARTER FOR COURSES THAT ALLOW OVERLOADS.**

**MUSIC 110 ELEM MUSIC THEORY (VLPA)**  
**MUSAP 120** SURVEY OF MUSIC (VLPA)  
**MUSAP 121** THE ORCHESTRA (VLPA)  
**MUSAP 123** THE OPERA (VLPA)  
**MUSAP 192** AMERICAN BAND (VLPA)  
**MUSAP 200** MUSIC CHILD FAMILY (VLPA)  

**MUSIC**

**TRAJECTORY**

**MUSAP 837** PERCUSSION  
**MUSAP 838** GUITAR  
**MUSAP 870** VIOLIN  
**MUSAP 890** VIOLIN-VIOLA  
**MUSAP 893** VIOLINCELLO  
**MUSAP 897** CLARINET  
**MUSAP 898** TRUMPET  
**MUSAP 899** VIOLINCELLO  
**MUSAP 900** VIOLINCELLO  

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### MUSIC CONT'D

**MUSIC 201 1ST YEAR THEORY I (VLPA)**

+275 A 3 MTHF 100-1040 MUS 219

**TERM A**

**PREQ:** MUS 125; PLACEMENT EXAM

**TAKE CONCURRENT W/MUSIC 204A**

**MUSIC 202 1ST YEAR THEORY II (VLPA)**

+276 A 3 MTHF 100-1040 MUS 219

**TERM B**

**PREQ:** MUS 125; PLACEMENT EXAM

**TAKE CONCURRENT W/MUSIC 205A**

**MUSIC 204 1ST YR EARM TRAIN I (VLPA)**

+277 A 1 MTHF 1200-100 MUS 219

**TERM A**

**PLACE EXAM; TAKE CONCURRENT W/MUSIC 204A**

**MUSIC 205 1ST YR EARM TRAIN II (VLPA)**

+278 A 1 MTHF 1200-100 MUS 219

**TERM B**

**PLACE EXAM; TAKE CONCURRENT W/MUSIC 204A**

**MUSIC 317 MUSIC CLTR OF WRLD (VLPA)R**

+279 A 1 MTHF 1030-1215 MUS 213 ELLINGDON,T

**TERM A**

**MUSIC 331 HISTORY OF JAZZ (VLPA)**

+280 A 3 MTHF 830-1000 MUS 213 COLLIER,T

**TERM A**

**MUSIC 350 CORAL CONDUCTING (VLPA)**

+281 A 1 MTHF 1030-1120 MUS 124 COOPER,J

**TERM B**

**ADD CODE REQUIRED (PD.3)**

**PREQ:** MUS 212 OR PERM OF INSTR

**MUSIC 353 CORAL CONDUCTING (VLPA)**

+282 A 1 MTHF 1030-1130 MUS 124 COOPER,J

**TERM B**

**ADD CODE REQUIRED (PD.3)**

**PREQ:** MUS 212 OR PERM OF INSTR

**MUSIC 379 JUNI CORAL RECITAL (VLPA)**

+283 A 1 TO BE ARRANGED 

**MUSIC 479 SENIOR CORAL RECITAL (VLPA)**

+284 A 1 TO BE ARRANGED 

**MUSIC 408 COMPUTE APPS TO MUS (VLPA)**

+285 A 1 MV 1030-1040 MUS 021 KAPPEN,R

**MUSIC 498 UNDERGRAD RESEARCH**

+286 A 1 VAR TO BE ARRANGED 

**MUSIC 555 MASTERS RECITAL**

+287 A 1 TO BE ARRANGED 

**MUSIC 556 ADVANCED CORAL RECITAL**

+272 A 3 MTHF 830-1015 MUS 031 SALZMAN,T

**TERM A**

**INSTRUMENTAL**

**MUSIC 590 DOCTORAL RECITAL**

+273 A 2-6 TO BE ARRANGED 

**MUSIC 595 ADV SELECTED TOPICS**

+274 A 1 TO BE ARRANGED 

**MUSIC 600 INDEPENDENT STUY/DIS**

+275 A VAR TO BE ARRANGED 

**MUSIC 700 MASTERS THESIS**

+276 A VAR TO BE ARRANGED 

**MUSIC 800 DOCTORAL DISSERTNT**

+277 A VAR TO BE ARRANGED 

**MUSIC EDUCATION**

ENTRY CODES ARE AVAILABLE IN MUS 118

**MUSED 423 CURRIC IN MUS ED (VLPA)**

+275 A 3 MTH 110-320 MUS 027 DEGRAFENBREI T

**TERM A**

**MUSED 479 TCHS MUSIC OF CULTHS (VLPA)**

+276 A 1 MTH 110-320 MUS 213 KLINGER,D

**TERM A**

**MUSIC HISTORY**

**MUSEH 500 SEM MUS MATH RESEARCH**

+284 A 1 MV 1030-1120 MUS 212 TARCZAN,T

**TERM A**

**NEAR EASTERN LANGUAGES & CIVILIZATION**

### ARABIC

**ARAB 401 INTENSIVE ELEM ARAB**

+288 A 1 MTHF 830-1130 MUS 112

**NEED PRERED: OPEN TO ALL CLASS LEVELS**

**HEBREW**

**HEBR 401 INTENS ELEM HEBREW**

+289 A 1 MTHF 830-1130 MUS 102

**NEED PRERED: OPEN TO ALL CLASS LEVELS**

### NEAR EASTERN LANGUAGES & CIVILIZATION

**NEAR E 490 SUPERVISED STUDY**

+290 A 1-6 TO BE ARRANGED 

**INSTRUCTOR 1.0. D. 229**

**NEAR E 499 UNDERGRAD RESEARCH**

+291 A 1 TO BE ARRANGED 

**NEAR E 500 INDEPENDENT STUDY/RSCH**

+292 A 1-9 TO BE ARRANGED 

**GRADS ONLY**

**HD FRESHM, SOPHOM, JUNIORS, SENIORS**

**INSTRUCTOR 1.0. D. 229**

### PERSIAN

**PERS 401 INTENS ELEM TAJK**

+293 A 1 MV 1030-1130 MUS 313

**NEED PREQ: OPEN TO ALL CLASS LEVELS**

**THIS COURSE REQUIRES 20 CONTACT HOURS; STUDENTS MUST ALSO REGISTER FOR 1 CREDITS OF NEAR E 490**

### TURKISH

**TURKIC 401 INTENSIVE ELEM UZBEK**

+294 A 1 MV 1030-1130 MUS 236 CIRTAUTAS,T

**NO PREQ: OPEN TO ALL CLASS LEVELS**

**THIS COURSE REQUIRES 20 CONTACT HOURS; STUDENTS MUST ALSO REGISTER FOR 1 CREDITS OF NEAR E 490**

**TURKIC 403 INTENS ELEM KIRGHIZ**

+295 A 1 MTHF 830-1130 MUS 211 CIRTAUTAS,T

**NO PREQ: OPEN TO ALL CLASS LEVELS**

**NO PREQ: OPEN TO ALL CLASS LEVELS**

**CLASSKOECHKIPOLA**

**LEVELS: THIS COURSE REQUIRES 20 CONTACT HOURS; STUDENTS MUST ALSO REGISTER FOR 1 CREDITS OF NEAR E 490**

**TURKIC 404 INTENS INTERM UZBEK**

+296 A 1 MTHF 830-1130 MUS 310 AKHMEDOV,M

**PREQ: TURK 413 OR TURK 403 OR EQU**

**EQUIV: THIS COURSE REQUIRES 20 CONTACT HOURS; STUDENTS MUST ALSO REGISTER FOR 1 CREDITS OF NEAR E 490**

**TURKIC 405 INTENS INTERM KAZAKH**

+297 A 1 MTHF 830-1130 MUS 304 KHAMANAEVA,A

**EQUIV: TURK 416 OR TURK 402 OR EQU**

**NO OVERLOADS IN ANY PHILSOPHY COURSES**

**PHIL 100 INTRO TO PHILOSOPHY (B&S)**

+301 A 5 MTHF 1030-1155 MUS 216

**SIL 91**

**PHIL 102 CONTEMP MORAL PROS (VLPA/GS)**

+301 A 5 MTHF 1130-1150 THOMPSON,A

**PHIL 112 PHIL & ENV STUDIES**

+302 A 5 MTHF 1030-1150 THOMPSON,A

**PHIL 114 PHIL ISSUES IN LAW (B&S)**

+303 A 5 MTHF 1030-1130 CHU 226
### Summer Quarter Time Schedule

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<td>MODERN PHILOSOPHY (GS)</td>
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<td>PHI IN LITERATURE (VLPAA&amp;S)</td>
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See pages 9-36 for course descriptions, page 85 on how to read time schedule, and pages 101-131 for important dates and deadlines.

VLPAA = Visual, literary and performing arts
HAC = Individual and societies
NAT = Natural world
QSR = Quantitative, symbolic or formal reasoning
ENG = English composition
University of Washington

DEPT COURSE TITLE
PHYS 224 THERMAL PHYSICS (NW)
PHYS 225 MODERN PHYSICS (NW)
PHYS 234 ELECT CIRCUITS LAB (NW)
PHYS 335 ELECT CIRCUITS LAB (NW)
PHYS 401 SPECIAL PROBLEMS
PHYS 408 PHYS SCI FOR TEACHRS (NW)
PHYS 427 3TH2U2 A VAR TO BE ARRANGED
PHYS 431 MODERN PHYSICS LAB (NW)
PHYS 437 APPL PHYSICS (NW)
PHYS 438 MODERN PHYSICS (LAB)
PHYS 450 PHYS SCI FOR TEACHRS (NW)
PHYS 477 SCIENCE OF THE ENVIRONMENT
PHYS 588 SMNR COSMIC RAY PHY
PHYS 800 INDEPENDENT STUDY/RESEARCH
PHYS 800 DOCTORAL DISSERTATION

DEPT COURSE TITLE
POLITICAL SCIENCE, DEPT. OF
POLITICAL SCIENCE
ENTRY CODES FOR UGRADS AVAILABLE IN GW 115 A 107.
ENTRY CODES FOR GRADS AVAILABLE IN GW 115
POL S 5 CHANGE OF REGISTRATION PROCEDURE DURING
ENROLLMENT PERIOD 111. STUDENTS ADDING UGRAD
POL S COURSES SHOULD OBTAIN ENTRY CODES FROM
FACULTY/TAF'S. SUPERVISED STUDY OR INTERNSHIP
COURSE ENTRY CODE AVAILABLE IN GW 115 & 107.
POL S 202 INTRO TO AMER POL (GS)
POL S 203 INTRO INTERNATL REL (GS)
POL S 204 INTRO TO COMPAR POL (GS)
POL S 208 RESEARCH METHODS (GS)
POL S 212 PHILOSOPHY OF SCIENCE (GS)
POL S 270 INTRO TO POL ECON (GS)
POL S 273 CONCEPT OF POWER (GS)
POL S 303 AM PUBLIC POLICY (GS)
POL S 304 AM MEDIA AND POLITICAL SCIENCE (GS)
POL S 308 AM POLITICAL PARTIES, PRESS & MEDIA (GS)
POL S 312 AM POLITICAL CONFLICT (GS)
POL S 315 AM POLITICAL INSTITUTIONS (GS)
POL S 324 AM POLITICAL IDEOLOGIES (GS)
POL S 325 AM POLITICAL IDEOLOGIES (GS)
POL S 326 AM POLITICAL IDEOLOGIES (GS)
POL S 327 AM POLITICAL IDEOLOGIES (GS)
POL S 329 GLOBAL COMMUNICATIONS (GS)
POL S 330 AM POLITICAL SCIENCE (GS)
POL S 347 AM POLITICAL SCIENCE (GS)
POL S 349 AM POLITICAL SCIENCE (GS)
POL S 353 AM POLITICAL SCIENCE (GS)
POL S 356 AM POLITICAL SCIENCE (GS)
POL S 358 AM POLITICAL SCIENCE (GS)
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POL S 396 AM POLITICAL SCIENCE (GS)
POL S 397 AM POLITICAL SCIENCE (GS)
POL S 398 AM POLITICAL SCIENCE (GS)
POL S 399 AM POLITICAL SCIENCE (GS)

DEPT COURSE TITLE
SOCIETY & JUSTICE
SO JU 310 RESEARCH IN SOJU (GS)
SO JU 353 LAW IN SOCIETY
SO JU 459 READING IN SO JU

DEPT COURSE TITLE
PSYCHOLOGY
PSYCH 101 PSYCH AS SOC SCI (GS)
PSYCH 102 PSYCH - NATURAL SCI (NW)
PSYCH 200 COMP ANIM BEHAV (NW)
PSYCH 201 HUMAN PERFORM DYNAMIC (GS)
PSYCH 205 PERS & INDIV DUFFS (GS)
PSYCH 209 FDMDTLS PSYCH RESCH

DEPT COURSE TITLE
SOCIAL SCIENCE, DEPT. OF
POL S 447 COMP POLITICAL SEM (GS)
POL S 481 BIG CITY POLITICAL (GS)
POL S 483 H-MONORS BR THESES (GS)
POL S 489 H-MONORS BR THESES (GS)
POL S 496 INTERNSHIP (GS)
POL S 500 INDEPENDENT STUDY (GS)
POL S 580 DEGREE IN WRITING (GS)
POL S 589 DEGREE IN WRITING (GS)
POL S 600 RESEARCH/WRITING (GS)
POL S 607 H-MONORS THESIS (GS)
POL S 608 DOCTORAL DISSERTATION

DEPT COURSE TITLE
SOCIETY & JUSTICE
SO JU 310 RESEARCH IN SOJU (GS)
SO JU 350 LAW IN SOCIETY
SO JU 350 RESEARCH IN SOJU (GS)

DEPT COURSE TITLE
PSYCHOLOGY
PSYCH 101 PSYCH AS SOC SCI (GS)
PSYCH 102 PSYCH - NATURAL SCI (NW)
PSYCH 200 COMP ANIM BEHAV (NW)
PSYCH 201 HUMAN PERFORM DYNAMIC (GS)
PSYCH 205 PERS & INDIV DUFFS (GS)
PSYCH 209 FDMDTLS PSYCH RESCH

102
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See pages 384 for course descriptions, page 85 on how to read time schedule, and pages 130-131 for important dates and deadlines.

VFA = Visual, literary and performing arts
H = Honors College
IAG = Individual Agencies
NW = Natural world
CSR = Quantitative, symbolic or formal reasoning
C = English composition

Limited enrollment in this section. Students must obtain entry code or faculty number.

New course: 209

Period I (April 25-May 26)
Period II (May 27-June 22)
Period III (June 23-July 3)
Period IV (July 4-Aug 6)
ROMANCE LANGUAGES & LITERATURE

FRENCH

PLACEMENT BY EXAM OR PREREQUISITES FOR 102 AND 103. ENTRY BY PLACEMENT EXAM REQUIRES ENTRY CODES POL C-212 PERIOD I ONLY. ATTENDANCE REQUIRED TO MAINTAIN REGISTRATION. NO OVERLOADS.

FRENCH 101 ELEMENTARY
2004 A 5 MTWThF 830-930 SAV 341
ADD CODE REQUIRED (PD.3)
DROP CODE REQUIRED (PD.34)
2004 B 5 MTWThF 1050-1150 SAV 8030
ADD CODE REQUIRED (PD.3)
DROP CODE REQUIRED (PD.34)
2004 C 5 MTWThF 1050-1100 LOW 112
TERM A
ADD CODE REQUIRED (PD.3)
DROP CODE REQUIRED (PD.34)
2004 D 5 MTWThF 940-1150 LOW 118
TERM A
ADD CODE REQUIRED (PD.3)
DROP CODE REQUIRED (PD.34)

ITALIAN

PLACEMENT BY EXAM OR PREREQUISITES FOR 102 AND 103. ENTRY BY PLACEMENT EXAM REQUIRES ENTRY CODES POL C-212 PERIOD I ONLY. ATTENDANCE REQUIRED TO MAINTAIN REGISTRATION. NO OVERLOADS.

ITAL 134 FIRST YEAR INTENSIVE
2011 A 15 MTWThF 930-1130 ART 204
ADD CODE REQUIRED (PD.3)
DROP CODE REQUIRED (PD.34)
2011 B 15 MTWThF 1200-1300 ART 114
ADD CODE REQUIRED (PD.3)
DROP CODE REQUIRED (PD.34)
2011 C 15 MTWThF 930-1130 DEN 205
ADD CODE REQUIRED (PD.3)
DROP CODE REQUIRED (PD.34)

PORTUGUESE

PLACEMENT BY EXAM OR PREREQUISITES FOR 102 AND 103. ENTRY BY PLACEMENT EXAM REQUIRES ENTRY CODES POL C-212 PERIOD I ONLY. ATTENDANCE REQUIRED TO MAINTAIN REGISTRATION. NO OVERLOADS.

PORT 105 INTENSIVE PORT
3172 A 8 MTWThF 1050-1130 PAR 120
TERM B
PREREQUISITE: 102 OR EQUIVALENT

PORT 350 SUPERVISED STUDY
3172 A 2-5 5 TO BE ARRANGED

ROMAN LANGUAGES & LITERATURE

SPANISH

PLACEMENT BY EXAM OR PREREQUISITES FOR 102 AND 103. ENTRY BY PLACEMENT EXAM REQUIRES ENTRY CODES POL C-212 PERIOD I ONLY. ATTENDANCE REQUIRED TO MAINTAIN REGISTRATION. NO OVERLOADS.

SPAN 101 ELEMENTARY
3157 A 5 MTWThF 810-1040 LOW 111
TERM A
PREREQUISITE: 101 OR EQUIVALENT
3157 B 5 MTWThF 810-1040 LOW 112
TERM A
PREREQUISITE: 101 OR EQUIVALENT
3157 C 5 MTWThF 940-1100 LOW 113
Term A
PREREQUISITE: 101 OR EQUIVALENT
3158 D 5 MTWThF 940-1150 ARC 102
TERM B
PREREQUISITE: 101 OR EQUIVALENT

SPAN 102 ELEMENTARY
3157 A 5 MTWThF 810-1040 LOW 110
TERM A
PREREQUISITE: 102 OR EQUIVALENT
3158 B 5 MTWThF 1050-1100 LOW 111
TERM A
PREREQUISITE: 102 OR EQUIVALENT

SPAN 134 INTENSIVE 1st YR SPAN
3158 A 5 MTWThF 810-1140 LOW 105
ADD CODE REQUIRED (PD.3)
3158 B 15 MTWThF 930-1130 LOW 113
ADD CODE REQUIRED (PD.3)
3158 C 15 MTWThF 1050-1100 LOW 116
ADD CODE REQUIRED (PD.3)
3158 D 15 MTWThF 1140-1150 LOW 114
ADD CODE REQUIRED (PD.3)
3158 E 15 MTWThF 1050-1100 LOW 112
ADD CODE REQUIRED (PD.3)
3158 F 15 MTWThF 1140-1150 LOW 113
ADD CODE REQUIRED (PD.3)

SPAN 201 INTERMEDIATE (VLP)
3159 A 5 MTWThF 940-1150 HIS 273
TERM A
PREREQUISITE: 101 OR EQUIVALENT

SPAN 202 INTERMEDIATE (VLP)
3159 A 5 MTWThF 940-1150 HER 248
TERM B
PREREQUISITE: 201 OR EQUIVALENT

SPAN 203 INTERMEDIATE (VLP)
3159 A 5 MTWThF 1050-1100 DEN 213
TERM A
PREREQUISITE: 201 OR EQUIVALENT

SPAN 301 GRAMMAR & LEXICON (VLP)
3552 A 5 MTWThF 830-1040 LOW 206
ADD CODE REQUIRED (PD.3)
TERM A
PREREQUISITE: 203 OR EQUIVALENT

SPAN 302 GRAMMAR & LEXICON (VLP)
3552 A 5 MTWThF 1050-1150 DEN 211
ADD CODE REQUIRED (PD.3)
TERM A
PREREQUISITE: 203 OR EQUIVALENT

SPAN 303 SYLLSTICS & COMP (VLP)
3554 A 5 MTWThF 830-1040 CRU 212
TERM A
PREREQUISITE: 301 OR CONCURRENT ENROLLMENT IN 301

SPAN 322 HISPANIC CLTR STDS (VLP)
3553 A 3 MTWThF 1050-1100 LOW 116
TERM A
PREREQUISITE: 101 OR CONCURRENT ENROLLMENT IN 301

SPAN 323 INTRO SPAN LINGUIST (VLP)
3554 A 3 MTWThF 830-1040 PAS 814
ADD CODE REQUIRED (PD.3)
TERM A
PREREQUISITE: 101 OR CONCURRENT ENROLLMENT IN 301
### Summer Quarter Time Schedule

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## SCANDINAVIAN LANGUAGES & LITERATURES

### NORWEGIAN

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See pages 9-94 for course descriptions, page 85 on how to read time schedule, and page 130-131 for important dates and deadlines.

- VLPA: Visual, literary, and performing arts
- IND: Individuals and societies
- NAT: Natural world
- QSR: Quantitative, symbolic or formal reasoning
- ENG: English composition
- H: Honors course
- P: Period
- L: Limited enrollment in this section. Students must obtain entry code or faculty number.
- N: New course
- S: Summer
- F: Fall
- W: Winter
- SS: Spring

---

**Instructor:**

- T: Teaching
- R: Research
- S: Service

---

**Course Details:**

- **CREDITS:**
  - CRD: Credit
  - NCRD: Non-credit
- **PERIODS:**
  - P: Period
- **OPENINGS:**
  - O: Open
  - F: Full
- **LIMITS:**
  - LMT: Limit
- **REQUIREMENTS:**
  - REQ': Required
  - OPT': Optional
- **PREREQUISITES:**
  - PRI: Prerequisite
- **COURSE INFORMATION:**
  - INF: Information

---

**Schedule Availability:**

- **DESCRIPTIONS:**
  - DES: Description
- **TIMETABLE:**
  - TAM: Timetable
- **INSTRUCTOR:**
  - INS: Instructor
- **ADDRESS:**
  - ADD: Address
- **CONTACT:**
  - CON: Contact
- **COMMENTS:**
  - COM: Comments

---

**Course Resources:**

- **BOOKS:**
  - BRO: Book
- **SUPPLIES:**
  - SUP: Supply
- **OUTLINE:**
  - OLT: Outline
- **SCHEDULE:**
  - SCL: Schedule
- **EXAMINATION:**
  - EXA: Examination
- **FEES:**
  - FEE: Fee
- **PROJECT:**
  - PRO: Project
- **APPENDIX:**
  - APP: Appendix
- **PARTIAL:**
  - PAT: Partial
- **FINAL:**
  - FNL: Final
- **MULTI:**
  - MLT: Multi
- **SUMMARY:**
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### SPEECH COMMUNICATION

DEPARTMENT RESERVES THE RIGHT TO DROP STUDENTS WHO DO NOT ATTEND CLASS DURING FIRST WEEK OF CLASSES. MOST CLASSES REQUIRE PERMISSION TO ADD DURING REGISTRATION PERIOD III. PERMISSION REQUIRED TO ADD DURING ALL REGISTRATION PERIODS: SEE INDIVIDUAL COURSE LISTING FOR ADDITIONAL PERMISSION INSTRUCTIONS.

**SP CMU 102 SPCH INDIVDL SOCIETY (VLPAPAS)**

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### QUANTITATIVE METHODS

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See pages 9-46 for course descriptions, page 85 on how to read time schedule, and pages 130-131 for important dates and deadlines.
DENTAL PUBLIC HEALTH SCIENCES

ENTRY CODES ARE AVAILABLE IN HSD 3213

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ORAL SURGERY

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DENTAL HYGIENE

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SCHOOL OF DENTISTRY

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### College of Education

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**Notes:**
- All courses are available in the HSD 0323.
- RCS 649D is offered jointly with EDCI 625 and EDCI 626.
- RCS 654P is offered jointly with EDCI 625 and EDCI 626.
- RCS 860 is offered jointly with EDCI 625 and EDCI 626.
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**EDUCATION**

The College of Education will begin "A" Term courses on June 24th (unless otherwise noted).

**EDPS 600 INDEPENDENT STUDY/SCH**

**EDPS 601 INTERNSHIP**

**EDUCATIONAL LEADERSHIP & POLICY STUDIES**

The College of Education will begin "A" Term courses on June 24th (unless otherwise noted).

**EDPS 400 CRED IN SPEC EDUC**

**EDPS 800 WKEP IN SPEC EDUC**

**EDPS 900 DEPARTMENT STUDIES**

**SPECIAL EDUCATION**

The College of Education will begin "A" Term courses on June 24th (unless otherwise noted).

**EDPS 401 EXCEPTIONAL CHILDREN**

**EDPS 402 CRED IN SPEC EDUC**

**EDPS 403 CRED IN SPEC EDUC**

**EDPS 404 CRED IN SPEC EDUC**

**EDPS 405 CRED IN SPEC EDUC**

See pages 9-44 for course descriptions, page 85 on how to read time schedule, and pages 150-151 for important dates and deadlines.

**VLP** = Visual, literary and performing arts

**H5** = Individuals and societies

**NW** = Natural world

**QSR** = Quantitative, symbolic or formal reasoning

**C** = English composition

**HOURS**

**FDI** = Period I (April 28-May 26)

**FD2** = Period II (May 27-June 22)

**FD3** = Period III (June 23-July 3)

**NEW**

**FD4** = Period IV (July 6-Aug. 6)
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<td>8:30-10:00</td>
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| CIV 408 | SPECIAL TOPICS | 1473 A | MTW | 10:00-11:15 | MOR 230 | CAMARA,
        |        |        |       |      | | TEACH |
| CIV 459 | SPECIAL PROJECTS | 1476 A | VAR | TO BE ARRANGED | | |
| CIV 700 | MASTERS THESIS | 1478 A | VAR | TO BE ARRANGED | | |
| CIV 800 | DOCTORAL DISSERTATN | 1479 A | VAR | TO BE ARRANGED | | |
| CSE 380 | ELEM STRUCT II | 1473 A | MTW | 10:00-11:15 | MOR 230 | CIYE E, ENGR MAJORS ONLY |
| CSE 406 | CONSTRUCTN ENGR II | 1474 A | MTW | 8:30-10:00 | MOR 230 | DISSERTATN, P |
| CSE 408 | SPECIAL TOPICS | 1473 A | MTW | 10:00-11:15 | MOR 230 | CAMARA,
        |        |        |       |      | | TEACH |
| CSE 459 | SPECIAL PROJECTS | 1476 A | VAR | TO BE ARRANGED | | |
| CSE 700 | MASTERS THESIS | 1478 A | VAR | TO BE ARRANGED | | |
| CSE 800 | DOCTORAL DISSERTATN | 1479 A | VAR | TO BE ARRANGED | | |
| CSE 163 | COMPUTER PROG II | 1534 A | S | 110-120 | JHN 101 | |
| CSE 165 | COMPUTER PROG I | 1526 A | MWF | 12:00-12:50 | JHN 101 | |
| ENGR 142 | COMPUTER PROG I (MW,GSR) | 1526 A | 1-5 | TO BE ARRANGED | | |
| ENGR 489 | SPECIAL TOPICS | 1539 A | VAR | TO BE ARRANGED | | |
| EEE 420 | DIG SIG & FILTERING | 1620 A | 1-5 | TO BE ARRANGED | | |
| EEE 451 | INTRO CMP NETWORKS | 1624 A | 1-5 | TO BE ARRANGED | | |
| EEE 509 | SPECIAL PROJECTS | 1668 A | 1-5 | TO BE ARRANGED | | |
| EEE 905 | PROB & RANDOM PROC | 1617 A | 4 | MW | 210-420 | EEB 101 |
### Engineering, Dept. of

The College of Engineering reserves the right to drop preregistered students in all engineering courses who do not attend one or more scheduled class meetings during the first week of the quarter.

**Courses for Questions Regarding Enrollment:** Call 543-8590 or visit 356 Low Hall.

#### ENGR 100 Intro Engin Design (EAS)
1899 A 5 MW 1040-1050 MSE 153
F 1040-1050 MSE 234
Th 230-250 MSE 234
Freshmen Only (PD.1)
Freshmen Sophomores Only (PD.2)
ADD CODE REQUIRED (PD.3)
EC FROM INSTR (PD.1)

1899 B 5 MW 1240-1250 MSE 234
F 1240-1250 MSE 234
T 230-250 MSE 234
Freshmen Only (PD.1)
Freshmen Sophomores Only (PD.2)
ADD CODE REQUIRED (PD.3)
EC FROM INSTR (PD.1)

#### ENGR 142 Computer Program I (NWK/CS)
1900 A 4 MF 1200-1210 JHN 101
W 1140-1150 JHN 101
Th 1400-1410 BAC 111A
Offered Jointly with CSE 142 AA
ADD CODE REQUIRED (PD.3)
EC FROM INSTR (PD.1)

1900 B 4 MF 1200-1210 JHN 101
W 1200-1210 JHN 101
Th 1500-1510 JHN 101
Offered Jointly with CSE 142 AB
ADD CODE REQUIRED (PD.3)
EC FROM INSTR (PD.1)

1900 C 4 MF 1200-1210 JHN 101
W 1400-1410 JHN 101
Th 1500-1510 JHN 101
Offered Jointly with CSE 142 AC
ADD CODE REQUIRED (PD.3)
EC FROM INSTR (PD.1)

1900 D 4 MF 1200-1210 JHN 101
W 1200-1210 JHN 101
Th 1500-1510 JHN 101
Offered Jointly with CSE 142 AD
ADD CODE REQUIRED (PD.3)
EC FROM INSTR (PD.1)

1900 E 4 MF 1200-1210 JHN 101
W 1400-1410 JHN 101
Th 1500-1510 JHN 101
Offered Jointly with CSE 142 AE
ADD CODE REQUIRED (PD.3)
EC FROM INSTR (PD.1)

1900 F 4 MF 1200-1210 JHN 101
W 1400-1410 JHN 101
Th 1500-1510 JHN 101
Offered Jointly with CSE 142 AF
ADD CODE REQUIRED (PD.3)
EC FROM INSTR (PD.1)

1900 G 4 MF 1200-1210 JHN 101
W 1400-1410 JHN 101
Th 1500-1510 JHN 101
Offered Jointly with CSE 142 AG
ADD CODE REQUIRED (PD.3)
EC FROM INSTR (PD.1)

1900 H 4 MF 1200-1210 JHN 101
W 1400-1410 JHN 101
Th 1500-1510 JHN 101
Offered Jointly with CSE 142 AH
ADD CODE REQUIRED (PD.3)
EC FROM INSTR (PD.1)

#### ENGR 170 Fundamentals of Materials (NWK)
1900 AA 4 MTh 830-930 MUE 133
T 830-930 MUE 168
ADD CODE REQUIRED (PD.3)
EC FROM INSTR (PERIOD 1)

1900 AB 4 MTh 830-930 MUE 133
W 1030-1130 MUE 168
ADD CODE REQUIRED (PD.3)
EC FROM INSTR (PERIOD 2)

1900 AC 4 MTh 830-930 MUE 133
M 1030-1130 MUE 168
ADD CODE REQUIRED (PD.3)
EC FROM INSTR (PERIOD 3)

1900 AD 4 MTh 830-930 MUE 133
T 1140-1240 MUE 168
ADD CODE REQUIRED (PD.3)
EC FROM INSTR (PERIOD 4)

1900 AE 4 MTh 830-930 MUE 133
W 1030-1130 MUE 168
ADD CODE REQUIRED (PD.3)
EC FROM INSTR (PERIOD 1)

#### ENGR 199 Special Projects
1900 A 1-1 TO BE ARRANGED
ADD CODE REQUIRED (PD.3)
EC FROM INSTR (PERIOD 1)

1900 B 1-1 TO BE ARRANGED
ADD CODE REQUIRED (PD.3)
EC FROM INSTR (PERIOD 2)

#### ENGR 200 Thermodynamics (NWK)
1900 AA 4 MTh 1150-1160 MUE 133
W 1210-1220 MUE 133
ADD CODE REQUIRED (PD.3)
EC FROM INSTR (PERIOD 1)

#### ENGR 315 Prob & Stat for Eng (NWK)
1900 A 3 MTh 1040-1050 MUE 133
ADD CODE REQUIRED (PD.3)
EC FROM INSTR (PERIOD 1)

#### ENGR 333 Adv Tec Mgt & Oral
1900 A 3 MTh 1040-1050 MUE 133
ADD CODE REQUIRED (PD.3)
EC FROM INSTR (PERIOD 1)

#### Summer Quarter Time Schedule

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The Department of Mechanical Engineering reserves the option of dropping a student from a M.E. course if they do not attend one or more scheduled class meetings during the first week of the quarter.

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Summer Quarter Time Schedule

SCHOOL OF MEDICINE

COURSES NUMBERED WITH A P SUFFIX ARE NOT CRADERSHIP COURSES BUT ARE INTENDED FOR MEDICAL STUDENTS ONLY

ANESTHESIOLOGY

ANEST 498 UNDERGRAD THESIS  
1064 A 1 TO BE ARRANGED  
FACULTY I.D. HSB 881421

ANEST 499 UNDERGRAD RESEARCH  
1063 A VAR TO BE ARRANGED  
FACULTY I.D. HSB 881421

ANEST 501 P-PRCPEP ANESTHESIA  
1064 A 1 TO BE ARRANGED  
FACULTY I.D. HSB 881421

BIOCHEMISTRY

BIOL 499 UNDERGRAD RESEARCH  
1244 A 1 TO BE ARRANGED  
CREDIT/NO CREDIT ONLY INSTRUCTOR I.D. HSJ 3405

BIOL 517 PROTEIN STRUCTURE  
1211 A 1 TO BE ARRANGED  
CREDIT/NO CREDIT ONLY CRADS ONLY BIOC MAJORS ONLY

BIOL 518 SIGNALING IN DEVEL  
1217 A 1 TO BE ARRANGED  
CREDIT/NO CREDIT ONLY CRADS ONLY BIOC MAJORS ONLY

BIOL 525 PHOTORECEPTION  
1217 A 1 TO BE ARRANGED  
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BIOL 526 GROWTH & DEVLP DFF  
1224 A 1 TO BE ARRANGED  
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BIOL 529 MOL BIO EARLY DEVEL  
1219 A 1 TO BE ARRANGED  
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BIOL 530 CONTROL CELL GROWTH  
1230 A 1 TO BE ARRANGED  
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BIOL 537 REGENE EXPRESSION  
1211 A 1 TO BE ARRANGED  
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BIOL 539 IMMUNOLOGIC  
1213 A 1 TO BE ARRANGED  
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BIOL 549 BIOC CONNECT TISSUES  
1213 A 1 TO BE ARRANGED  
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BIOL 557 CALCIUM BIND PROTEIN  
1214 A 1 TO BE ARRANGED  
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BIOL 559 PROTEIN PHOSPHORYL  
1211 A 1 TO BE ARRANGED  
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BIOL 559 MEMBRONE BIOCHEM  
1214 A 1 TO BE ARRANGED  
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BIOL 560 PROTEIN FOLDING  
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BIOL 561 ORIGINS OF POLARITY  
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BIOL 566 PLANT MOLEC GENET  
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BIOL 568 MUSCLE GROWTH  
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BIOL 568 G PRO SIGNAL TRNS  
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BIOL 569 INDuctive EARLY DEV  
1242 A 1 TO BE ARRANGED  
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BIOL 570 SEC ANALYS GROW REG  
1124 A 1 TO BE ARRANGED  
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BIOL 577 GENE REG TRANS MICE  
1244 A 1 TO BE ARRANGED  
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BIOL 591 INTRO TO RESEARCH  
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BIOL 592 STRUCT EVOL REG PRO  
1126 A 1 TO BE ARRANGED  
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BIOL 596 MOL BIO YEAST GENE  
1217 A 1 TO BE ARRANGED  
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BIOL 600 INDEPEND STUDY/RESCH  
1244 A 1 TO BE ARRANGED  
PERM BY INSTR

BIOL 700 MASTERS THESIS  
1244 A 1 TO BE ARRANGED  
PERM BY INSTR

BIOL 800 DOCTORAL DISSERTATN  
1244 A 1 TO BE ARRANGED  
PERM BY INSTR

COMPARATIVE MEDICINE

C MED 512 ANAT ANYLS ANM DSES  
1127 A 1 TO BE ARRANGED  
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C MED 514 COMP PATH CONFS  
1130 A 1 TO BE ARRANGED  
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C MED 516 CURN LPF LAB AN MED  
1131 A 1 TO BE ARRANGED  
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C MED 521 BIOL OF LAB ANMALS  
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C MED 520 BIOL OF LAB ANMALS  
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C MED 530 LAB ANM DISEASES  
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C MED 540 ANIMAL MODELS  
1137 A 1 TO BE ARRANGED  
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C MED 550 SEL TOPICS ANM MED  
1138 A 2 TO BE ARRANGED  
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C MED 600 RESEARCH  
1139 A 1 TO BE ARRANGED  
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C MED 601 INTERNSHIP ROTATION  
1139 A 1 TO BE ARRANGED  
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C MED 700 MASTERS THESIS  
1144 A 1 TO BE ARRANGED  
CREDIT/NO CREDIT ONLY CRADS ONLY BIOC MAJORS ONLY

BIOLOGICAL STRUCTURE

B STR 458 IN-UNDERGRAD THESIS  
1122 A 1 TO BE ARRANGED  
INSTRUCTOR I.D. HSJ 3405

B STR 499 UNDERGRAD RESEARCH  
1122 A 1 TO BE ARRANGED  
INSTRUCTOR I.D. HSJ 3405

B STR 500 SPEC PROB IN ANAT  
1123 A 1 TO BE ARRANGED  
INSTRUCTOR I.D. HSJ 3405

B STR 505 LAB ROTATION IN BST  
1124 A 5 TO BE ARRANGED  
INSTRUCTOR I.D. HSJ 3405

See pages 9-84 for course descriptions, page 85 on how to read time schedule, and pages 130-131 for important dates and deadlines.
### FAMILY MEDICINE

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See pages 9-44 for course descriptions, page 85 on how to read time schedule, and pages 130-131 for important dates and deadlines.

VFLA = Visual, literary and performing arts
H = Honor's Course
IQ = Individuals and societies
NW = Natural world
QSR = Quantitative, symbolic or formal reasoning
E = English composition

Limited enrollment in this section. Students must obtain entry code or faculty number.
New course

 chicagolinguistics.org/
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**PHYSIOLOGY & BIOPHYSICS**

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### SCHOOL OF PUBLIC HEALTH & COMMUNITY MED

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See pages 9-84 for course descriptions, page 85 on how to read time schedule, and pages 130-131 for important dates and deadlines.
### Pathobiology

**ENTRY CODES ARE AVAILABLE IN HSD F107**

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<td>PAB 500</td>
<td>Intro Resch Pabio</td>
<td>1-2</td>
<td>TO BE ARRANGED</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PAB 511</td>
<td>Pathog Bel Frontiers</td>
<td>1</td>
<td>TTH 1100-1120</td>
<td>HST T635</td>
<td>KENNY,J</td>
</tr>
<tr>
<td>PAB AF</td>
<td></td>
<td></td>
<td>CREDIT/NO CREDIT ONLY</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### School of Social Work

**STUDENTS MUST OBTAIN PERMISSION FROM INSTRUCTOR FOR AN OVERLOAD, THEN PROCEED TO SWS 233 FOR AN ENTRY CODE**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>CRD</th>
<th>DAY TIME</th>
<th>BLDG ROOM</th>
<th>INSTRUCTOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWS 233</td>
<td>Soc Work Readings</td>
<td>1-2</td>
<td>TO BE ARRANGED</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SWS 233</td>
<td>Research Practicum</td>
<td>1-2</td>
<td>TO BE ARRANGED</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SWS 233</td>
<td>Teaching Practicum</td>
<td>1-2</td>
<td>TO BE ARRANGED</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SWS 233</td>
<td>Independent Study</td>
<td>1-2</td>
<td>TO BE ARRANGED</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Social Welfare

**ENTRY CODES ARE AVAILABLE IN SWS 023**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>CRD</th>
<th>DAY TIME</th>
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<th>INSTRUCTOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWS 475</td>
<td>Foundation Practicum</td>
<td>1-2</td>
<td>TO BE ARRANGED</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SWS 525</td>
<td>Advanced Practicum</td>
<td>1-2</td>
<td>TO BE ARRANGED</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SWS 559</td>
<td>Integrative Seminar</td>
<td>1-2</td>
<td>TO BE ARRANGED</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SWS 600</td>
<td>Independent Study</td>
<td>1-2</td>
<td>TO BE ARRANGED</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### School of Public Affairs

**PUBLIC AFFAIRS**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>CRD</th>
<th>DAY TIME</th>
<th>BLDG ROOM</th>
<th>INSTRUCTOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>PB 650</td>
<td>Law Pub Admin</td>
<td>3</td>
<td>W M 130-350</td>
<td>PAR 150</td>
<td>PLATT,V.</td>
</tr>
</tbody>
</table>

### Zoology

**ZOO 406 Marine Invert Zool**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>CRD</th>
<th>DAY TIME</th>
<th>BLDG ROOM</th>
<th>INSTRUCTOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZOO 406</td>
<td>Marine Invert Zoology</td>
<td>1-2</td>
<td>TO BE ARRANGED</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Botany

**BOT 600 Independent Study**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>CRD</th>
<th>DAY TIME</th>
<th>BLDG ROOM</th>
<th>INSTRUCTOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOT 600</td>
<td>Independent Study</td>
<td>1-2</td>
<td>TO BE ARRANGED</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Friday Harbor Laboratories

**COLLEGE OF ARTS & SCIENCES**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>CRD</th>
<th>DAY TIME</th>
<th>BLDG ROOM</th>
<th>INSTRUCTOR</th>
</tr>
</thead>
</table>
| BOT 405 | Degree Project | 1-2 | TO BE ARRANGED | | :
| BOT AF | | | CREDIT/NO CREDIT ONLY | | |

**COLLEGE OF OCEAN AND FISHERY SCIENCES**

### Fisheries

**FISH 505 Marine Fish Biology**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>CRD</th>
<th>DAY TIME</th>
<th>BLDG ROOM</th>
<th>INSTRUCTOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>FISH 505</td>
<td>Marine Fish Biology</td>
<td>1-2</td>
<td>TO BE ARRANGED</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Summer Quarter Time Schedule

#### DEPT COURSE TITLE CODE DAY TIME EMAIL ROOM INSTRUCTOR COMMENTS

#### OCEANOGRAPHY

**Ocean 600 Independent Study**
- 3917 1 - MW 800-1000 CLM 110 MORRIS, D
- Credit/no credit only
- Friday: 9-10 AM

**Ocean 700 Masters Thesis**
- 2906 1 - TTH 800-1000 CLM 110 MORRIS, D
- Credit/no credit only
- Friday: 9-10 AM

**Ocean 800 Doctoral Dissertation**
- 8000 1 - TTH 800-1000 CLM 110 MORRIS, D
- Credit/no credit only
- Friday: 9-10 AM

#### RESERVE OFFICERS TRAINING PROGRAM

**Military Science**
- MSCI 305 Tech Military Instr
- 2411 A 1 - WTH 800-1000 CLM 120 MORRIS, D
- Credit required
- No freshmen, sophomores
- 2416 B 1 - WTH 800-1000 CLM 120 MORRIS, D
- Credit required
- No freshmen, sophomores
- 2419 C 1 - WTH 110-200 CLM 120 MORRIS, D
- Credit required

#### EVENING DEGREE

**The following course is for students admitted to the evening degree program. Evening degree students may enroll in these courses during the regular term periods 1,2, and 3. Academic advising should be completed prior to registration (Call 943-6100).**

**Construction Management**
- CM 500 Design & Const Law
- 3937 1 - 1100-2200 PAR 1100 COLEBRAZ, L
- Only majors from ev dc college (PD.142)
- No freshmen (PD.3)

**CM 505 Adv Comp Applic**
- 3938 1 - 1100-2200 CDL 105 FREDLEV, J
- Only majors from ev dc college (PD.142)
- No freshmen (PD.3)

**CM 600 Independent Study**
- 3939 1 - VAR TO BE ARRANGED
- Only majors from ev dc college (PD.142)
- No freshmen (PD.3)

**CM 700 Masters Thesis**
- 3940 1 - VAR TO BE ARRANGED
- Only majors from ev dc college (PD.142)
- No freshmen (PD.3)

#### COLLEGE OF ARTS & SCIENCES

**Anthropology**
- ANTH 308 Anthrop of the Body (Lab)
- 3931 1 - TTH 600-800 DEM 318 SPEED, C
- Only majors from ev dc college (PD.142)
- No freshmen (PD.3)

**Anthropology**
- ANTH 431 Oral Traditions (Lab)
- 3932 1 - MW 600-800 DON 105 SEABURG, W
- Only majors from ev dc college (PD.142)
- No freshmen (PD.3)

**Art History**
- ART H 232 Photo Theory & Crit (VLPA/IES)
- 3933 1 - TTH 700-900 PM 301 SHWIN, R
- Only majors from ev dc college (PD.142)
- No freshmen (PD.3)

**Art History**
- ART H 321 Arts of Japan
- 3934 1 - MW 700-900 PM 301 DAVIS, J
- Only majors from ev dc college (PD.142)
- No freshmen (PD.3)

**Art History**
- ART H 420 Art Japanese Print
- 3935 1 - TTH 400-600 PM 301 DAVIS, J
- Only majors from ev dc college (PD.142)
- No freshmen (PD.3)

**Communications**
- CMU 200 Intro to Mass CMU (Lab)
- 3941 1 - TTH 630-800 CMU 228
- Only majors from ev dc college (PD.142)
- No freshmen (PD.3)

**English**
- ENG 223 Shakespeare to 1600 (VLPA)
- 3942 1 - TTH 700-900 PM 301 WESTER, J
- Only majors from ev dc college (PD.142)
- Add code required (PD.3)
- No freshmen (PD.3)

**English**
- ENGL 363 Romantic Poetry 1 (VLPA)
- 3943 1 - TTH 700-900 PM 301 FELSYN, M
- Only majors from ev dc college (PD.142)
- Add code required (PD.3)
- No freshmen (PD.3)

**English**
- ENGL 352 Early Amer Lit (VLPA)
- 3944 1 - TTH 700-900 PM 301 PATTISON, M
- Only majors from ev dc college (PD.142)
- Add code required (PD.3)
- No freshmen (PD.3)

**Geography**
- GEOG 371 Hunger & Rel Dev (Lab)
- 3945 1 - TTH 430-600 PM 405 DAVES, J
- Only majors from ev dc college (PD.142)
- No freshmen (PD.3)

**History of the Americas**
- MSTA 203 American Presidents (Lab)
- 3946 1 - TTH 700-900 PM 301 FOHLER, W
- Only majors from ev dc college (PD.142)
- No freshmen (PD.3)

**History of the Americas**
- MSTA 421 Amer Environ Hist (Lab)
- 3947 1 - TTH 700-900 PM 301 LOUIER, B
- Only majors from ev dc college (PD.142)
- No freshmen (PD.3)

**Political Science**
- POL S 231 Amer Foreign Policy (Lab)
- 3951 1 - TTH 700-900 PM 301 KEEFER, J
- Only majors from ev dc college (PD.142)
- No freshmen (PD.3)

**Political Science**
- POL S 447 Comp Politics Sem (Lab)
- 3952 1 - TTH 700-900 PM 301 CRONE, D
- Students writing course requirement
- Only majors from ev dc college (PD.142)
- Choosing winners: electoral systems & democracy
- No freshmen (PD.3)

**Political Science**
- POL 546 POL Of Crim Justice (Lab)
- 3954 1 - TTH 600-800 PM 301 SEABURG, W
- Only majors from ev dc college (PD.142)
- No freshmen (PD.3)

**Psychology**
- PSYCH 306 Developmental Psych (Lab)
- 3957 1 - TTH 600-800 CMU 228 SEIDNAGM, G
- Period: 101 or 102 or equivalent

**Psychology**
- PSYCH 407 Hist of Psychology (Lab)
- 3958 1 - MW 600-800 CMU 228 LEONEISD, R
- Period: 400 or equivalent

**Sociology**
- SOC 352 The Family (Lab)
- 3959 1 - MW 600-800 STK 109 TUCKER, A
- Only majors from ev dc college (PD.142)
- No freshmen (PD.3)

**Sociology**
- SOC 304 Women in Soc Struct (Lab)
- 3960 1 - TTH 600-800 STK 109 LEXON, R
- Only majors from ev dc college (PD.142)
- No freshmen (PD.3)

#### SCHOOL OF BUSINESS ADMINISTRATION

**Accounting**
- ACCCT 670 Spec Topics ACCTNG
- 3961 1 - TTH 710-920 BLM 301 COLEIL, C
- No freshmen, sophomores
- BUS E Majors only (PD.142)
- Add code required (PD.3)
- PD: 1 OPEN to day & evening business students with EC MZ 137

**International Business**
- BUS 200 Intl Envir Busns
- 3964 1 - TTH 710-920 BLM 314 CLASSMAN, D
- No freshmen, sophomores
- BUS E Majors only (PD.142)
- Add code required (PD.3)
- PD: 1 OPEN to day & evening business students with EC MZ 137

**Marketing**
- MKTO 301 Marketing Concepts
- 3965 1 - TTH 710-920 BLM 302 WILLIAMS, T
- No freshmen, sophomores
- BUS E Majors only (PD.142)
- Add code required (PD.3)
- PD: 1 OPEN to day & evening business students with EC MZ 137

**Marketing**
- MKTO 490 Spec Topics & Int MKTO
- 3966 1 - TTH 710-920 BLM 213 HELLOWS, L
- No freshmen, sophomores
- BUS E Majors only (PD.142)
- Add code required (PD.3)
- PD: 1 OPEN to day & evening business students with EC MZ 137

**Organizational & Environment**
- O E 302 Org & Environment
- 3967 1 - TTH 710-920 BLM 101 BRANDT, M
- BUS E Majors only (PD.142)
- Add code required (PD.3)
- PD: 1 OPEN to day & evening business students with EC MZ 137

#### See pages 9-84 for course descriptions, page 85 on how to read time schedule, and pages 130-131 for important dates and deadlines.

**VLPA** = Visual, literary and performing arts
**H=** Honor courses
**IC=** Individual and societies
**NW=** Natural world
**QR=** Quantitative, symbolic or formal reasoning
**C=** English composition

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## Quick Reference Guide to Quarter Deadlines

<table>
<thead>
<tr>
<th>Application deadlines</th>
<th>Full term</th>
<th>a term</th>
<th>b term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application deadline for summer-only and returning students.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Apply in person after this date.)</td>
<td>June 1</td>
<td>June 1</td>
<td>June 1</td>
</tr>
<tr>
<td>Application deadline for freshmen applying for summer/autumn</td>
<td>Feb. 1</td>
<td>Feb. 1</td>
<td>Feb. 1</td>
</tr>
<tr>
<td>Application deadline for prospective Evening Degree Program</td>
<td>May 15</td>
<td>May 15</td>
<td>May 15</td>
</tr>
<tr>
<td>students applying for summer/autumn</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Application deadline for international students applying for</td>
<td>Feb. 1</td>
<td>Feb. 1</td>
<td>Feb. 1</td>
</tr>
<tr>
<td>summer/autumn or autumn (a preliminary application must</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>be submitted by Nov. 1. See page 135 for details.)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Application deadline for transfers and postbaccalaureates</td>
<td>April 15</td>
<td>April 15</td>
<td>April 15</td>
</tr>
<tr>
<td>applying for summer/autumn</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UW faculty/staff, Washington state employees,</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>and members of the Washington State National Guard</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tuition Exemption Forms due</td>
<td>May 30</td>
<td>May 30</td>
<td>May 30</td>
</tr>
<tr>
<td>Last day to return approved applications for credit by</td>
<td>July 3</td>
<td>July 3</td>
<td>Aug. 1</td>
</tr>
<tr>
<td>examination to 264 Schmitz</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Application deadline for baccalaureate degrees and certificates for</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>all schools and colleges to be conferred for the quarter must be submitted</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>to Graduation and Academic Records Office, 264 Schmitz</td>
<td>July 11</td>
<td>July 11</td>
<td>July 11</td>
</tr>
<tr>
<td>Credit by examination</td>
<td>4th week</td>
<td>4th week</td>
<td>4th week</td>
</tr>
<tr>
<td>(examinations must be taken by)</td>
<td></td>
<td></td>
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</tr>
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</table>

## Registration deadlines

<table>
<thead>
<tr>
<th>Registration deadlines</th>
<th>Full term</th>
<th>a term</th>
<th>b term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration Period I (see page 138 for details)</td>
<td>April 28-May 26</td>
<td>April 28-May 26</td>
<td>April 28-May 26</td>
</tr>
<tr>
<td>Registration Period II (see page 138 for details)</td>
<td>May 27-June 22</td>
<td>May 27-June 22</td>
<td>May 27-June 22</td>
</tr>
<tr>
<td>First mailing of registration confirmations and quarterly validation/U-PASS stickers</td>
<td>June 10</td>
<td>June 10</td>
<td>June 10</td>
</tr>
<tr>
<td>Registration confirmations mailed daily beginning this date</td>
<td>June 11</td>
<td>June 11</td>
<td>June 11</td>
</tr>
<tr>
<td>STAR closes at 6 p.m. for preparation of instructors' class lists</td>
<td>June 19</td>
<td>June 19</td>
<td>June 19</td>
</tr>
<tr>
<td>Registration Period III</td>
<td>June 23-July 3</td>
<td>June 23-July 3</td>
<td>June 23-July 3</td>
</tr>
<tr>
<td>$25 late fee assessment to register late</td>
<td>June 23-July 3</td>
<td>June 23-July 3</td>
<td>July 24-30</td>
</tr>
<tr>
<td>Registration for UW faculty/staff</td>
<td>June 25-July 3</td>
<td>June 25-July 3</td>
<td>June 25-July 30</td>
</tr>
<tr>
<td>Registration for UW ACCESS program</td>
<td>June 25-July 3</td>
<td>June 25-July 3</td>
<td>June 25-July 30</td>
</tr>
<tr>
<td>Registration for Washington state classified employees</td>
<td>June 26-July 3</td>
<td>June 26-July 3</td>
<td>June 26-July 30</td>
</tr>
<tr>
<td>Registration for members of the Washington State National Guard</td>
<td>June 26-July 3</td>
<td>June 26-July 3</td>
<td>June 26-July 30</td>
</tr>
<tr>
<td>Last day entry codes are valid to add a course on STAR</td>
<td>July 3</td>
<td>July 3</td>
<td>July 3</td>
</tr>
<tr>
<td>Last day to register</td>
<td>July 3</td>
<td>July 3</td>
<td>July 3</td>
</tr>
<tr>
<td>$75 late registration fee assessment begins. (Registration is by petition and will only be allowed in rare circumstances.)</td>
<td>July 7</td>
<td>July 7</td>
<td>July 31</td>
</tr>
</tbody>
</table>

## Adding/dropping courses or University withdrawal

<table>
<thead>
<tr>
<th>Adding/dropping courses or University withdrawal</th>
<th>Full term</th>
<th>a term</th>
<th>b term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Last day for graduate students to apply for on-leave status</td>
<td>June 27</td>
<td>June 27</td>
<td>June 27</td>
</tr>
<tr>
<td>Last day to add or change a non-STAR transaction in Registration Office without being assessed a $20 change fee and possible tuition forfeiture</td>
<td>June 27</td>
<td>June 27</td>
<td>July 30</td>
</tr>
<tr>
<td>Last day for complete withdrawal without owing tuition</td>
<td>June 29</td>
<td>June 29</td>
<td>July 30</td>
</tr>
<tr>
<td>Last day to add, drop or change a course through STAR without being assessed a $20 change fee and possible tuition forfeiture</td>
<td>June 29</td>
<td>June 29</td>
<td>(see below)</td>
</tr>
<tr>
<td>$20 change fee is assessed to add, drop or change a course.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Additional tuition or tuition forfeiture may also be charged</td>
<td>June 30</td>
<td>June 30</td>
<td>July 31</td>
</tr>
<tr>
<td>$b term courses may be added at the Registration Office, 225 Schmitz. Students adding courses that require</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>entry codes should obtain code before coming to register</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Entry codes required to add all courses</td>
<td>June 30-July 3</td>
<td>June 30-July 3</td>
<td>June 30-July 30</td>
</tr>
<tr>
<td>One-half tuition due if withdrawing from the quarter</td>
<td>June 30-July 13</td>
<td>June 30-July 13</td>
<td>July 31-Aug. 13</td>
</tr>
<tr>
<td>Last day to drop a course without entry on transcript</td>
<td>July 6</td>
<td>June 29</td>
<td>July 30</td>
</tr>
<tr>
<td>Last day to add a course</td>
<td>July 3</td>
<td>July 3</td>
<td>July 30</td>
</tr>
<tr>
<td>Last day to change from audit to numeric grade option</td>
<td>July 3</td>
<td>July 3</td>
<td>July 30</td>
</tr>
</tbody>
</table>

---

| Entry codes required to add all courses | June 30-July 3 | June 30-July 3 | June 30-July 30 |
| One-half tuition due if withdrawing from the quarter | June 30-July 13 | June 30-July 13 | July 31-Aug. 13 |
| Last day to drop a course without entry on transcript | July 6 | June 29 | July 30 |
| Last day to add a course | July 3 | July 3 | July 30 |
| Last day to change from audit to numeric grade option | July 3 | July 3 | July 30 |
### Tuition/fee assessment and deadlines

<table>
<thead>
<tr>
<th>Event</th>
<th>Full term</th>
<th>a term</th>
<th>b term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Last day to make change to or from S/NS grade option</td>
<td>July 3</td>
<td>July 3</td>
<td>July 30</td>
</tr>
<tr>
<td>Last day entry code is valid to add a course</td>
<td>July 3</td>
<td>July 3</td>
<td>July 30</td>
</tr>
<tr>
<td>Period IV - drops only on STAR</td>
<td>July 6-Aug. 10</td>
<td>July 6-Aug. 10</td>
<td>July 6-Aug. 10</td>
</tr>
<tr>
<td>Tuition/fee assessment and First day tuition balance is available on</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$75 late fee assessment begins (additional $75 fee assessed)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$25 late fee assessment to register late</td>
<td>June 23-July 3</td>
<td>June 23-July 3</td>
<td>July 24-Aug. 30</td>
</tr>
<tr>
<td>Tuition statements mailed to all registered students</td>
<td>June 23</td>
<td>June 23</td>
<td>June 23</td>
</tr>
<tr>
<td>$20 change fee is assessed to add, drop or change a course.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Additional tuition or tuition forfeiture may also be charged</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$10 fee assessment for replacement of U-PASS begins</td>
<td>June 30</td>
<td>June 30</td>
<td>June 30</td>
</tr>
<tr>
<td>One-half tuition due if withdrawing completely from the quarter</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$75 late registration fee assessment begins. (Registration is by</td>
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<tr>
<td>petition and will only be allowed in rare circumstances.)</td>
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<tr>
<td>Tuition payment deadline for all registered students</td>
<td>July 11</td>
<td>July 11</td>
<td>July 11</td>
</tr>
<tr>
<td>Last day to return U-PASS for cancellation of $27 charge</td>
<td>July 11</td>
<td>July 11</td>
<td>July 11</td>
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<tr>
<td>Student insurance payment deadline. Payments are not accepted after</td>
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<td>this date</td>
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<tr>
<td>Late tuition payment period begins (requires a late-payment fee)</td>
<td>July 14</td>
<td>July 14</td>
<td>July 14</td>
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<tr>
<td>Full tuition due if withdrawing completely from the quarter starting</td>
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<tr>
<td>(additional $75 fee assessed)</td>
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</tbody>
</table>

### Grades

- **W** grade for dropped courses begins: July 7 | June 30 | July 31
- Grades due from faculty (10 a.m.): Aug. 25 | July 28 | Aug. 25
- First day grades and GPAs available on STAR: Aug. 26 | Aug. 26 | Aug. 26

### Final examinations

There is no separate final examination week during Summer Quarter. Finals are given during the scheduled term unless all students, their instructor and the Time Schedule Office agree on another time.

### Commencement information

Undergraduates who plan to graduate in August and want to participate in the June 1997 commencement must have a graduation application on file by April 14, 1997.

### Special-date courses

In general, the registration, fee payment, and grading requirements of special-date courses will depend on whether the course is identified as an a-, b- or full-term course. For courses that begin or end on dates other than the standard dates of a, b or full term, observe the following:

- **Late registration fees:** A $25 late registration fee will be charged when registering on the first day of the course or later.
- **Drop/add fee:** A $20 drop/add change fee will be assessed for either dropping or adding a special-date course beginning the second day of the course.
- **Tuition refunds:** Full refund is possible if course is dropped no later than the first day of course instruction. One-half refund is possible if course is dropped during the first 40 percent of class. After 40 percent of class is completed, no refund is possible.
- **Grading:** No grade and no entry on record if course is dropped by first day. Free drops permitted with "W" grade through first 40 percent of course. No drop permitted after 40 percent of course is completed except complete withdrawal from the quarter. No drops of any kind are permitted on last day of course.
Admission Information

Summer Quarter Admission

Continuing UW undergraduate students

If you are enrolled as a matriculated student at the UW Spring Quarter 1997 or completed Winter Quarter 1997 and took Spring Quarter off, do not submit an application for Summer Quarter. Simply register using STAR just as you would for any other quarter.

Applying for admission

Individuals who have not been enrolled as matriculated, continuing students at the UW in either Spring or Winter Quarter 1997 need to apply for admission to Summer Quarter 1997. Which application you use depends on your goals and current student classification. Select the student classification that applies to you. It's important that you read the detailed information below regarding each classification. Also see the What application form to use chart on the next page. If you have questions after reading the appropriate sections, please call UW Undergraduate Admissions, (206) 543-9686, or Summer Quarter Academic Advising, (206) 543-6160.

Student classifications

Summer Quarter students are either: new or continuing matriculated students; or new or returning nonmatriculated students attending UW classes only during Summer Quarter 1997.

Incoming freshmen

New incoming UW freshmen who want to begin their college careers during the summer may register for courses frequently taken by incoming freshmen in the arts, humanities, social sciences and sciences. Freshmen will be able to register for Summer Quarter beginning April 30. For questions about how the Freshmen Summer Start courses fit into the UW curriculum, contact Undergraduate Advising at (206) 543-2551. Freshmen Summer Start participants should not complete the application form included in this bulletin.

Summer-only nonmatriculated

The nonmatriculated (not degree-seeking) status allows you to enroll even though you are not pursuing a degree at the UW. The credits you earn usually can be transferred to other institutions. These credits also may apply to the requirements for a UW baccalaureate degree if you are later admitted to an undergraduate degree program. Admission as a nonmatriculated student does not guarantee later acceptance into a degree program or enable you to continue in this status in Autumn Quarter.

A nonmatriculated student may enroll in a graduate-level course with the permission of the instructor and the departmental chair. Credits earned as a nonmatriculated student do not apply to UW graduate programs.

A nonmatriculated student may be:

• A student at another college attending the UW only during Summer Quarter;

• Anyone wishing to obtain credit who is not pursuing a degree;

• A teacher or administrator taking courses for special interest (but if you are pursuing your continuing certification, you should contact the Teacher Education Program Office at (206) 543-1754);

• A high school student participating in the Advanced Study Program (see page 136);

• A person who has already earned a bachelor's degree (including those who earned baccalaureate degrees at the UW) and is taking a few courses, but is not interested in formal admission to a graduate or second undergraduate program; or

• An auditor, a person who wants to attend courses but not receive a grade. Auditors pay standard tuition and fees and must be officially admitted and registered. Attendance in a course as an auditor is by consent of the instructor and is on a space-available basis. Permission to audit is ordinarily granted only for lecture classes. Auditors do not participate in class discussions or take examinations; registration may be canceled at the discretion of the instructor. No transcript record of audited courses is kept. To receive credit for an audited course, you must register for the class for credit in a subsequent quarter.

Continuing Teaching Certificate students

For information about working toward a Continuing Teaching Certificate, please contact the Teacher Education Program Office at (206) 543-1794 or your Educational Service District.

If you have previously attended the UW as a postbaccalaureate student in a teaching certificate program, you can be admitted as a returning student in this same status. To apply, use the form on the inside back cover of this bulletin, or request a returning student reenrollment application from the Registration Office, Box 355850, 225 Schmitz, University of Washington, Seattle, WA 98195-5850. Forms must be postmarked by June 1; later applications are accepted in-person only.

Graduate nonmatriculated students

Nonmatriculated and graduate nonmatriculated students are two different categories at the UW. Under certain limited conditions, departments, schools or colleges may offer graduate credit to students not presently seeking a graduate degree who have applied and have been accepted as a graduate nonmatriculated student. A graduate nonmatriculated student may take a maximum of 12 credits which may be applied to degree requirements should he or she be accepted into a graduate program.

Freshmen Summer Start Program

New incoming UW freshmen who want to begin their college careers during the summer may register for courses frequently taken by incoming freshmen in the arts, humanities, social sciences and sciences. Freshmen will be able to register for Summer Quarter beginning April 30. For questions about how the Freshmen Summer Start courses fit into the UW curriculum, contact Undergraduate Advising at (206) 543-2551.

Freshmen Summer Start participants should not complete the application form included in this bulletin. For questions about the Freshmen Summer Start Program and how courses fit into the UW curriculum, contact Undergraduate Advising at (206) 543-2551.
For detailed information regarding admission requirements, contact the graduate program coordinator in your area of interest. The deadline for the submission of all GNM application materials to the GNM office is May 15 for Summer Quarter. Acceptance as a graduate nonmatriculated student confers no priority for later admission into the Graduate School for pursuit of a degree. Graduate nonmatriculated students must register through UW Extension, except for UW staff or state employees. Call (206) 543-2310 for details. Do not use the summer-only application in this bulletin.

**Visiting graduate students**
A visiting graduate student is a person who plans to transfer graduate credit taken at the University of Washington to another institution where he or she is actively pursuing a graduate degree. Admission is on a space-available basis by recommendation of the appropriate department.

**Returning UW students**
The following information applies to those who are not currently enrolled at the UW:
- If you have previously attended the UW as a nonmatriculated student, you may apply for that status again provided you are still in good standing at the University.
- If you have completed a degree at the UW, you may take Summer Quarter courses as a nonmatriculated student. Please see the introductory information on nonmatriculated students.
- If you were pursuing an undergraduate or professional degree when you last attended the UW, and were not awarded that degree or certificate, or have not completed your degree at another school, you will be readmitted in this same status. This also applies to graduate students returning from "on leave." Graduate students who are not officially "on leave" must be accepted by the Graduate Admissions Office before they can return in that same status.

The University will accept but not process a returning student reenrollment application for any student who has either a financial or academic hold on their transcript or registration. Once the hold has been cleared, the application will be processed.

Returning students who are accepted as matriculated (into a degree or teaching certificate program) for Summer Quarter may register for Autumn Quarter without reapplying for admission, provided they attend classes in the summer.

**International students**

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### What application form to use *

<table>
<thead>
<tr>
<th>Type of student</th>
<th>Summer-only student</th>
<th>Returning UW student</th>
<th>New undergraduate student</th>
<th>New graduate student</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer-only nonmatriculated (non-degree seeking) students wishing to attend any UW campus, Bothell, Seattle or Tacoma.</td>
<td>- Students who previously attended the UW as matriculated students may be admitted in the same status (if eligible) or as nonmatriculated students.</td>
<td>- New students seeking an undergraduate degree (except international students).</td>
<td>- Students applying for admission as graduate students, including:</td>
<td></td>
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<tr>
<td>Former UW students who have graduated.</td>
<td>- Students previously enrolled in a postbaccalaureate in a teaching certificate program.</td>
<td>- Former UW students who are changing to a new undergraduate status (including postbaccalaureate).</td>
<td>- Those seeking administrator's credentials.</td>
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</tr>
<tr>
<td>Students formerly enrolled in an undergraduate or graduate program.</td>
<td>- Graduate students who have official &quot;on leave&quot; status.</td>
<td>- Former graduate students who did not request &quot;on leave&quot; status.</td>
<td>- Visiting graduate students.</td>
<td></td>
</tr>
<tr>
<td>- Returning UW students enrolled for Spring Quarter 1997, or who completed Winter Quarter 1997 and took Spring Quarter off, do not submit applications for Summer Quarter. Incoming freshmen, see Freshmen Summer Start Program on facing page.</td>
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</tbody>
</table>

**Where to get form**
- Summer-only application: Registration Office, 1410 NE Campus Parkway, 228 Schmitz Hall, Box 353500, Seattle, WA 98195-3500; telephone: (206) 543-6826; email: regoff@u.washington.edu
- Registration application (or Summer-only application in the back of this bulletin): Office of Undergraduate Admissions, 320 Schmitz Hall, Box 353400, Seattle, WA 98195-3500; telephone: (206) 543-6826; email: underadmit@washington.edu
- Undergraduate application: Request forms from the appropriate academic department.
- Graduate nonmatriculated (non-degree seeking) students should contact UW Extension, (206) 548-2310; extinfo@uw.washington.edu

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*Continuing UW students enrolled for Spring Quarter 1997, or who completed Winter Quarter 1997 and took Spring Quarter off, do not submit applications for Summer Quarter. Incoming freshmen, see Freshmen Summer Start Program on facing page.*
Summer/Autumn Quarter Admission

If you would like to begin pursuing a UW undergraduate degree in Summer Quarter and continue in Autumn Quarter, you should apply for matriculated status as a freshman, transfer or postbaccalaureate student as described on this page. For more information, contact the Admissions Office or the unit listed. Please read What application form to use, page 133.

Students who are accepted for summer/autumn must register and enroll for Summer Quarter if they wish to enroll in Autumn Quarter. Summer/autumn students who officially withdraw from Summer Quarter classes on or after June 23 may register for Autumn Quarter without submitting a new application. Withdrawal from Summer Quarter prior to June 23, however, invalidates your status as a continuing student and you must be readmitted to the University; you must submit a new admission application for autumn by the closing dates noted in the Quick Reference Guide to Quarter Deadlines, pages 130-131.

Freshman
This admission classification is for high school seniors (including Washington state Running Start students) intending to enroll at the UW as freshmen and other applicants who have never attended college since leaving high school (regardless of age or whether they ever graduated). The application priority date for Summer/Autumn Quarter was February 1; however, Running Start students with 40 or more college credits completed before February 1 are eligible to apply through April 15. Admission is competitive. Not all qualified applicants can be admitted.

Transfer
This admission classification is for applicants who are seeking their first bachelor's degree and have attempted college credits since leaving high school (regardless of age or whether they ever graduated). The application closing date was April 15 (Feb. 1 for international students). Admission is competitive. Not all qualified applicants can be admitted.

Postbaccalaureate
Postbaccalaureate is a matriculated, undergraduate status at the UW, reserved for students who are working toward a second bachelor's degree or preparing for entrance to graduate or professional school. A postbaccalaureate is an applicant who has completed or will complete a bachelor's degree from a regionally accredited college or university before enrolling at the UW. This status includes UW undergraduates who anticipate earning their first bachelor's degree and wish to pursue a second degree at the UW. The application closing date was April 15 (Feb. 1 for international students). If you are interested in obtaining a teaching certificate, contact the College of Education, Office of Student Services, 206 Miller, (206) 543-7833.

Graduate
This status applies to the student who is seeking a master's degree, a doctoral degree, or a school administrator's credential. Application deadlines vary by department. More information about requirements can be obtained from the appropriate academic unit or the Office of Graduate Admissions, (206) 543-5929.

Visiting graduate student
A visiting graduate student is a person who plans to transfer graduate credit taken at the University of Washington to another institution where he or she is actively pursuing a graduate degree. Admission is on a space-available basis by recommendation of the appropriate department.

Autumn Quarter Admission

Summer-only nonmatriculated students who wish to attend Autumn Quarter must apply and be accepted as matriculated (degree-seeking) students. Autumn admission is competitive because space is limited. Some admission categories close before Summer Quarter begins (for dates, see Quick Reference Guide to Quarter Deadlines, pages 130-131). Therefore, you may not be eligible to apply. For more information, contact the appropriate admission office. You'll find the addresses in the chart on page 133. If your intention is to seek a degree at the Uni-
versity of Washington and you wish to begin enrollment during the summer, it is recommended that you apply for matriculated status for the term called “Summer/Autumn” on the matriculated application form, if you can do so by the appropriate deadline. This will eliminate the need to submit two separate application forms and fees. See Summer/Autumn Quarter admission, page 134.

International Students

International students are welcome to apply to the University in any admission classification with the exception of graduate nonmatriculated status. International students are those who are not U.S. citizens and are not refugees or immigrants to the United States.

Summer-only admission

An international student who is not seeking a degree from the UW and who wishes to enroll in courses only during Summer Quarter may use the application in this bulletin. He or she will be admitted as a nonmatriculated student for Summer Quarter only and may not continue in Autumn Quarter.

The University cannot provide I-20 forms or give other assistance in obtaining F-1 (student) status for attendance in Summer Quarter only. Summer-only students must have F-1 (student) status already through enrollment at another U.S. college or university, or be able to enter the United States on a visitor’s visa or other nonstudent visa. Additional information will be sent with your offer of admission to Summer Quarter only.

Summer/Autumn Quarter Admission

International students wishing to begin their studies in Summer Quarter and continue in Autumn Quarter must be matriculated. An undergraduate preliminary application form must be completed and returned by Nov. 1 before the year of admission. If the University’s minimum requirements for consideration are met, an undergraduate admissions application will be sent. All applications, required documents and test scores must be filed with the Office of Admissions by Feb. 1 (includes freshmen, transfer and postbacalaureates).

Admission is granted only for Summer/Autumn or Autumn Quarter. Information is available from the Office of Admissions, Box 355840, Seattle, WA 98195-5840. Telephone: (206) 543-9686. email: askuwadm@u.washington.edu.

International students who seek admission as graduate students must contact the office of Graduate Admissions for application materials. For information write the UW Office of Graduate Admissions, 98 Gerberding Hall, Box 351280, Seattle, WA 98195-1280. Telephone: (206) 543-3929.

Student insurance

Matriculated international students must subscribe to the University’s medical insurance or obtain insurance waivers by presenting proof of other medical coverage to the University’s International Services Office prior to the tuition due date. Questions regarding student insurance may be directed to the UW International Services Office, 459B Schmitz Hall, Box 388832, Seattle, WA 98195-5832. Telephone: (206) 543-0841.

English for international students

Students granted Summer/Autumn Quarter admission in matriculated status may be required to take English As A Second Language (ESL) courses, and should contact the Office of Special Services, 460 Schmitz Hall, (206) 543-6122, for information about this requirement. Students admitted in nonmatriculated status for Summer Quarter only, however, have no ESL requirement; the following information applies to these nonmatriculated students only.

If your native language is not English, you may wish to seek academic counseling before you enroll. An advisor can help you determine the level of English language competence needed to successfully complete the courses you plan to take. Academic counseling is strongly recommended for international students whose scores are less than 580 on the Test of English as a Foreign Language (TOEFL) or below 90 on the Michigan Language Test. Please note: Students not previously admitted to the University of Washington (nonmatriculated status) may enroll in English 111, 121 and 131 only if they have met the following ESL requirements: score of at least 580 on the TOEFL or one of these equivalent scores: 90 on the MTELP, 410 on the SAT-Verbal, 450 on the SAT-Verbal (recentered), or 20 on the ACT English. For more information or to obtain entry codes, please contact the English Advising Office, Padelford A2B, (206) 543-2634. Advising is available from English As A Second Language, (206) 543-6242, or from departments offering the courses you plan to take.

Students seeking to improve their English skills are encouraged to take noncredit English As A Second Language (ESL) courses offered each quarter by UW Extension. These students should not submit an application to the Office of Undergraduate Admissions or the Office of Graduate Admissions to take ESL courses, but should apply directly to the English As A Second Language Program. Information about ESL courses and ESL can be obtained by writing to the English As A Second Language Program, UW Educational Outreach, Box 354232, Seattle, WA 98195-4232; telephone: (206) 543-6242.

For students who are not native speakers of English, two programs are offered. The Academic English Program offers courses for matriculated (degree-pursuing) students. Successful completion of these courses is one way to satisfy the University’s English language requirement. See departmental listing under English (ENGL) and contact the Office of Special Services, 460 Schmitz, (206) 543-6122.

Foundation for International Understanding Through Students

The Foundation for International Understanding Through Students (FIUTS), located in 3028 Student Union Building (HUB), (206) 543-0735, is a nonprofit community organization. FIUTS administers a host family program, an international speakers bureau, group discussions and cultural and educational activities for students.

Admission Information

International Services Office

The International Services Office (ISO), located in 459B Schmitz Hall, (206) 543-0841, provides technical and advising support services to international students. All students are encouraged to contact this office for obtaining authoritative advice on any matters pertaining to their studies at the University of Washington and their authorized stays in the United States.
Middle and High School Students

During the summer, the UW offers two special programs for middle and high school students interested in challenging, fast-paced courses.

For middle school students

Each summer the Halbert Robinson Center for the Study of Capable Youth offers a five-week program of high school-level courses for students who have completed the seventh, eighth, or ninth grades. In 1997, from June 30 through August 1, students will work to complete the equivalent of a full academic year of study in one of the following courses: argument and debate, biology, chemistry, geography, literature, and math. Classes are limited to 16 students each.

Besides vigorous academic challenge, the program provides students with the opportunity to complete high school requirements early or to give themselves more room in their high school programs for electives and activities.

Admission is based on the student’s performance on the Scholastic Aptitude Test (SAT) or Washington Precollege Test (WPCT). Some students have taken the SAT through the Johns Hopkins Talent Search; the WPCT can be taken at the center. The cost of Summer Stretch is $475 per student; scholarships and payment plans are available.

An additional program for fifth- and sixth-grade students will run from June 30 through July 18. These classes are challenging, but they are not designed to take the place of regular school classes. Students become eligible based on their scores in the Johns Hopkins Talent Search for Young Students. Cost for this program is $365.

The center also offers the Transition School/Early Entrance Program for bright young people who are ready for college-level work before they enter high school. The program is for the few students, age 14 or younger, with the outstanding ability and high motivation that are best matched by a university academic setting.

The Transition School, the first phase, is an intensive, self-contained program which provides a bridge between the junior high or middle school and enrollment in the University. Limited to 16 students a year, the Transition School prepares participants for full-time university work in the second phase, the Early Entrance Program (EEP).

The EEP provides a support system for young undergraduates and ensures that their personal, social, and academic needs are met appropriately.

For more information and application procedures, call the center at (206) 543-4160.

Advanced Study Program for high school students

Through the Advanced Study Program, high school students can enroll in UW courses during the summer. Students can take regular UW courses—for example, mathematics, science, architecture, or one of the UW’s popular intensive language programs.

Each student enrolling for credit establishes a UW transcript. The grades earned in the Advanced Study Program are calculated into the overall grade-point average if a student later applies for and is accepted by the UW as a matriculated student. The credits can also be transferred to other colleges and universities.

Some school districts grant students credit toward high school diplomas for the UW courses taken. For more information, a student or his or her parents should consult the student’s guidance counselor regarding the district policy.

The Advanced Study Program is designed for high-achieving students who have completed their high school freshman year by June 30. Applicants should have grade-point averages of at least 3.3 (B+).

To apply, a student should send the following materials to the UW Office of Undergraduate Admissions, Box 355840, Seattle, WA 98195-5840:

- a completed copy of the summer application on the inside back cover of this bulletin;
- a letter of recommendation from the student’s high school principal or guidance counselor;
- a copy of the student’s high school transcript; and
- the nonrefundable $35 application fee.

Students who will graduate from high school in 1997 can use the application on the inside back cover of this catalog and do not need to send a letter of recommendation or a copy of their high school transcript.

Advanced Study Program participants pay undergradate course fees (page 145).

Students should also review the information on pages 132-134 and 138-155. It is in each student’s interest to review course descriptions and prerequisites in this bulletin or the University of Washington General Bulletin or to contact an academic adviser in the department offering the course, the Undergraduate Advising Center, (206) 543-2551, or the Summer Quarter Academic Advising Office, (206) 543-6160, for additional information.

For more information about the Advanced Study Program, students, parents and teachers can call the Summer Quarter Academic Advising Office at (206) 543-6160.

Other programs for middle and high school students

UW Extension offers a new UW Academy for Middle School Students. Students in grades 6 through 8 can choose from computer, writing, art or math and science academies. High school students can also supplement their high school coursework and earn college-level credit by taking evening credit and UW Distance Learning courses through UW Extension. UW Distance Learning courses are listed on pages 160-163.

For more information, refer to the quarterly UW Extension catalog, available by calling (206) 543-2320.

ACCESS and Faculty/Staff Programs

ACCESS program for older adults

The University of Washington waives tuition for Washington residents 60 years or older who wish to attend classes as auditing students. If you are enrolling as an ACCESS student, you may attend class with the permission of the instructor beginning the first class day if space is available. Courses marked with a greater than sign (>) require an entry code to register. Contact the department offering the course to obtain entry codes prior to coming to the Registration Office, 225 Schmitz Hall. The fee is $5 plus a technology fee based on the number of credits for which you enroll (see page 145) whether one or two
Eligible students must hold this status on the day the exemption form is approved, and must be in the status on the first day of the quarter for which the tuition-exemption is granted. The University tuition-exemption program does not cover English 100, 101, 102, Math 906, UW Extension or Distance Learning courses, graduate-level independent study courses numbered 600, 700, and 800, or any self-sustaining courses. Nonmatriculated students admitted to enroll on a space-available, tuition-exempted basis, may register for classes only when the exemption and only after the exemption request form has been submitted. Matriculated students are permitted to register without the exemption, but full tuition and fees will be charged.

With the instructor's permission, students planning to register on a space-available basis may begin attending classes the first day of the quarter if space is available. Registration, however, will not be permitted until the assigned space-available registration day.

Students must apply for admission by the published application deadlines and be accepted to a University program. Applications may be filed with the Office of Undergraduate Admissions, 320 Schmitz Hall, or the Office of Graduate Admissions, 98 Gerberding Hall. Former UW students returning in the same classifications or as nonmatriculated students may apply at the Registration Office, 225 Schmitz Hall.

Registration and Fees

Students may submit their tuition-exemption forms at the Registration Office, 225 Schmitz Hall, any time after Registration Period I begins for a quarter. A separate tuition-exemption form must be submitted each quarter.

Course enrollment is not permitted prior to the appropriate space-availability eligibility date. For Summer Quarter 1997, a $25 late registration fee will be assessed if the student initially registers for the quarter on or after Monday, June 30. Also, a $20 fee will be charged for all registration changes made on a single day. Students will be billed these fees, and other applicable fees, plus a $30 registration fee if they have registered for a course. The registration fee is nonrefundable even if they withdraw during the first week of the quarter. Students registering before the assigned tuition-exemption registration date will not be permitted to convert to the tuition-exemption program and will be required to pay regular tuition for all registered credits.

Tuition-exemption students must pay the quarterly Technology Fee and are not entitled to Student services funded by the Services and Activities Fee, such as those available from the Hall Health Center and the Intramural Activities Building. Additionally, they are not eligible to purchase tickets to athletic events at student rates. UW faculty/staff identification cards may be used for library services. Participating Washington State employees and members of the National Guard may obtain ID cards for library services from the Student ID Center, 229 Schmitz Hall, and a U-PASS sticker for $27 from the Registration Office, room 225 Schmitz Hall. Deadlines and registration dates are listed on pages 130-131 for Summer Quarter 1997.

NOTE: Employees should contact their departmental office, the Registration Office, (206) 543-8580, 225 Schmitz Hall, or UW Training and Development, (206) 543-1957, for tuition-exemption forms.
Registration for Summer 1997

Registration for Summer 1997

See pages 140-142 for instructions on how to register by phone using STAR.

If you register for courses and find that you cannot attend, you must completely withdraw from the University or you will be committed to pay tuition.

**STAR registration**

Registration is easy using the University of Washington’s STAR (Student Telephone Assisted Registration) touchtone telephone registration system. You may register as soon as you receive notification of acceptance, but not before April 30. Early registration is recommended.

Through STAR, students may add and drop courses. STAR lists alternative sections available if the requested sections are closed or canceled, reports the open/closed status of specified course sections, provides a spoken listing of the confirmed registration schedule, tuition balance, financial aid status, date and amount of last payment, optional charges and previous quarters’ grades.

STAR is available for registration Monday through Friday, 6 a.m. to midnight, Saturday, 9 a.m. to midnight, and Sunday, 10 a.m. to midnight.

Weekend hours not specifically scheduled are not guaranteed and may be subject to equipment and software maintenance requirements. Touchtone phones are located on the UW campus in the Registration lobby, 225 Schmitz Hall, the T-Wing lobby in Health Sciences, 9 Communications, and the ground floor level of the HUB.

For instructions on how to register, please see How to Register Using STAR, pages 140-142. The four Summer Quarter registration periods are described below.

Students enrolled in Spring Quarter at the Seattle, Bothell, or Tacoma campuses are eligible to enroll at any campus without applying for separate admission. This applies to Summer Quarter registration only.

**Registration eligibility**

All students at the University who remain in good standing and in compliance with other rules and regulations, with no outstanding financial obligations, are guaranteed the opportunity to register each quarter as long as they maintain continuous registration eligibility. Undergraduate and professional students who have completed a quarter at the University of Washington may take the following quarter off and remain eligible to register in Registration Period I for the subsequent quarter without reapplication as returning students. For example, a student completing Winter Quarter may, without registering for or completing Spring Quarter, register during Registration Period I for Autumn Quarter without reapplying. Any quarter from which a student has completely withdrawn, or from which he/she is canceled, does not constitute a completed quarter. Summer Quarter enrollment is not required to maintain continuous registration eligibility.

Returning students who do not meet the criteria described in the above paragraph must submit a Returning Student Reenrollment Application by the published deadline.

**Graduate students**

The quarter-off eligibility policy is not available to graduate students. Graduate students who do not maintain continuous enrollment (Summer Quarter excepted) must file a Petition for On-Leave Status with the Graduate School. Students who are registered for any portion of a quarter may not go on-leave for that quarter unless they officially withdraw at the Registration Office, 225 Schmitz Hall, prior to the first day of the quarter. On-leave graduate students returning to the University on or before the termination of their authorized periods of leave must apply as returning former students (through the Registration Office by the published deadlines). Students who withdraw after the quarter begins may register for the next quarter during Registration Period I (see Grade, Withdrawal and On-Leave Information, page 147, for more information).

**Register early**

You may call STAR during Registration Periods I or II before your registration eligibility date and complete sections I and II of the STAR Work Sheet. A $25 late registration fee is charged students who have not completed sections I and II of the STAR Work Sheet by the first day of the quarter (June 23).

**Registration Period I via STAR**

April 28-May 26

April 28 and 29 are reserved for graduate, professional, postbaccalaureate and Graduating Senior Priority (GSP) registration.

This period is open to continuing students currently enrolled in Spring Quarter 1997 or undergraduate or professional students who completed Winter Quarter 1997, matriculated and nonmatriculated, and to new and returning students applying early enough to be notified of registration eligibility.
Graduating senior priority
If you are a graduating senior or postbaccalaureate student with a degree application on file in the Graduation and Academic Records Office, you may register on the first day of Period I for your final two quarters. If you must postpone your graduation, you may save your priority quarters by not registering until your regular senior priority day. When you have used your Graduating Senior Priority for two quarters, you will revert to regular senior priority.

Registration Period II via STAR
May 27–June 22

STAR closes at 6 p.m. on June 19 to produce class lists. This period is open to continuing students who were enrolled in Spring Quarter 1997 and to newly admitted students and returning former students who did not apply early enough to be eligible for Registration Period I, or who missed that period.

Registration Period III via STAR
June 23–July 3

STAR closes at 6 p.m. on July 3. The Registration Office, 225 Schmitz, is open for non-STaR transactions Monday–Friday, 8 a.m.–5 p.m.

This period is open to all students for late registration and for course adds and drops. A $25 late registration fee is assessed and billed to students registering for the first time for full-term and special-date courses, except faculty/staff tuition exempt, state exempt and ACCESS students. A $20 fee is charged for all changes made on or after June 30. Only partial tuition reductions are made for courses dropped after June 30.

An entry code is required to add all courses after June 29. Students may add courses on STAR through July 3 only. No adds are permitted after July 3 for full-quarter or special-date courses. Term b courses may be added in person at the Registration Office between July 7 and 30.

Students are encouraged to register and complete changes to registration prior to this period since many course sections will be closed and completing a schedule will be difficult.

Courses audited may not be changed to credit registration after July 3 for full-quarter or special-date courses, and after July 30 for b term courses.

Registration Period IV via STAR
July 6–Aug. 10

Term b courses may be added in person at the Registration Office between July 7 and 30.

This period is open for dropping courses on STAR and to elect the audit grade option only. During this period, a $20 fee is assessed for all changes of registration. Only partial tuition reductions are made for b term courses dropped after July 30.

No course drops for full-quarter courses after Aug. 10 or for a term courses after July 13. Term b courses only can be dropped between Aug. 11 and 13 in person at the Registration Office. If you drop all courses, a complete withdrawal date is recorded on your transcript. Official withdrawals may be made at the Registration Office, 225 Schmitz, on STAR or by mail. Some courses require drop codes which are available through the departments.

Changing to audit is only available at the Registration Office, 225 Schmitz Hall. Courses audited full quarter and term a may not be changed to credit registration after July 3, and courses audited term b may not be changed after July 30. See page 148 for details.

Registration confirmation
Registration confirmations for students who registered by June 6 will be mailed on June 10. If you register after June 6, your registration confirmation will be mailed in two working days. Call 543-3868 or send an email to address@u.washington.edu to record your correct address. Confirmations will not be mailed to addresses outside the United States for students who register after June 6 during Registration Period II and III, and will not be mailed to addresses outside the State of Washington during the last week of Period II and during Period III. If you are using an out-of-state address, you may claim your confirmation at the Registration Office, 225 Schmitz Hall, within two working days. You may also confirm your registration schedule by calling STAR and using the list schedule transaction (LST). This listing includes building and class locations. Or, you may print a copy of your schedule using STAR online once you register for Summer Quarter. Log onto the UW home page at http://www.washington.edu and click on the student guide. You will see a list of “most frequently selected.” Star Online is the first choice. Click on Star Online. You will need your student ID number and private access code (PAC).

Special-date courses
In general, the registration, fee payment, and grading requirements of special-date courses will depend on whether the course is identified as an a, b or full-quarter course.

For courses that begin or end on dates other than the standard dates of a term, b term, or full-quarter, observe the following:

- Late registration fees: A $25 late registration fee will be charged when registering on the first day of the course or later.
- Drop/add fee: A $20 drop/add change fee will be assessed for either dropping or adding a special-date course beginning the second day of the course.
- Tuition refunds: Full refund is possible if course is dropped no later than the first day of course instruction. One-half refund is possible if course is dropped during the first 40 percent of course. After 40 percent of the course is completed, no refund is possible.
- Grading: No grade and no entry on record if course is dropped by first day. Free drops permitted with "W" grade through first 40 percent of course. No drop permitted after 40 percent of course is completed except complete withdrawal for the quarter. No drops of any kind are permitted on last day of course.

Late registration fees
Students whose initial registration occurs beginning June 23 (July 24 for a term courses), will be charged a late registration fee. Late registration dates and fees are listed below.

Full-quarter late registration:
June 23–July 3: $25

A term late registration:
June 23–July 3: $25

B term late registration:
July 24–30: $25
Registration for Summer 1997

How to Register Using STAR

STAR features

Adding courses
Courses may be added during Periods I, II and III. An add code is required to add a course and a $20 change fee is charged beginning June 30 for full-quarter or a term course; July 31 for b term courses. This is in addition to any tuition. Always check your balance after adding a course. July 3 at 6 p.m. is the last day to add a full-quarter or a term course for Summer Quarter 1997. Term b courses may be added at the Registration Office between June 30 and July 30. See Changes in registration, next page, for additional information on adding courses.

Add codes
Some courses require add codes or faculty numbers which are only available through the department offering the course. See Entry codes, next page, for more information on add codes.

Dropping courses
Courses may be dropped during Periods I, II, III and IV. The last day to drop a course and receive no entry on your transcript is July 3 for full-quarter courses, June 29 for a term and July 30 for b term. A $20 change fee is charged to drop a course beginning June 30 for full-quarter and a term courses and July 31 for b term courses. This is in addition to any tuition forfeiture. Always check your tuition balance after dropping a course. Aug. 10 is the last day to drop full-quarter courses and July 13 for a term courses. Term b courses only, can be dropped between Aug. 11 and 13 in person at the Registration Office. See Changes in registration, next page, for additional information on dropping courses.

Drop codes
Some courses require drop codes which are only available through the department offering the course. See Entry codes, next page, for more information on dropping courses.

Course availability
Beginning Period I, you may call STAR at any time to complete section II of the STAR Worksheet and check course availability.

Alternate sections
STAR lists alternative sections if the requested sections are closed or canceled.

Confirmed registration
You may confirm your registration schedule by calling STAR and using the List Schedule Transaction (L8). This listing includes building and classroom locations.

Student account and loan status
Call STAR to list current student account balance; list a summary of disbursed financial aid and aid check availability; list the latest recorded student account payment; and list the quarter's selected optional charges. Review the STAR worksheet for transaction codes.

Grades on STAR
STAR lists all officially recorded grades for the most recently completed quarter. Summer Quarter 1997 grades and GPAs become available on STAR beginning Aug. 26.

Changing your insurance plan and optional charges
If you wish to change your insurance plan or optional charges for WashPIRG and WSL after your initial selections, you may do so on STAR by the tuition due date. Please refer to the STAR worksheet in this bulletin for instructions.

Private Access Code (PAC)
When you call STAR for the first time, enter your date of birth when STAR asks you to enter a Private Access Code. STAR will prompt you to select a Private Access Code (PAC) of four to six digits that you can easily remember. Enter the PAC that you selected when prompted by STAR. You will then use your PAC for all future calls to STAR. If you wish to change your PAC, you may do so at any time using transaction code 9. Please refer to the STAR Work Sheet, page 143, for instructions. If you forget your PAC, you will need to contact the Registration Office, 225 Schmitz Hall, or call (206) 543-8580 to obtain your code. Your PAC cannot start with zero.

If you make a mistake
If you make a mistake before finishing an entry, press the star key and the pound sign key (#), and your entry will be discarded.

Merlin telephone
If you are using an AT&T Merlin telephone to call STAR, press the pound sign (#) key twice to send transactions.

Time and call limits when calling STAR
Time limits are built into the system, so if you are holding on the STAR line for an extended period of time, you will be disconnected. Error limits are also a part of the STAR system, so if you do not enter the correct information after the second try, STAR will disconnect. If you get disconnected, you may immediately call back to STAR. You may call up to 100 times a day. No transactions will be permitted when your calls exceed 100 on that day.

Closed sections
If the section requested is closed, you will be informed by STAR of open section alternates (including new sections added after the publication of this bulletin). You may then select an alternate section to be added to your schedule. To overload a closed section see Overload guidelines, next page.

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Call STAR to list current student account balance; list a summary of disbursed financial aid and aid check availability; list the latest recorded student account payment; and list the quarter's selected optional charges. Review the STAR worksheet for transaction codes.

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Closed sections
If the section requested is closed, you will be informed by STAR of open section alternates (including new sections added after the publication of this bulletin). You may then select an alternate section to be added to your schedule. To overload a closed section see Overload guidelines, next page.
Additional registration information

Address change telephone service
You may call (206) 543-3868 at any time to change your address information. See page 152 for more information.

Changes in registration
A $20 change-of-registration fee is assessed for any number of add, drop, or change transactions (including change of grading option) processed during a given day beginning June 30 for full-quarter and a term courses, and July 31 for b term courses. The $20 fee is a service charge and is in addition to any change in tuition or forfeiture as a result of adds, drops or changes.

There is no charge for changes made in Registration Periods I, II and the first week of Period III.

Fee waivers are rarely approved. If you think your change is necessitated by a University error or is at the University’s request, you must pay the fee and submit a petition for a refund to the Registration Office, 225 Schmitz. You will be notified of the decision by the Office of the Registrar. The fee will be waived only if the change is necessitated by a University error or is at the University’s request.

Class attendance guidelines
If you do not attend regularly scheduled class meetings during the first week of the quarter, you are subject to being dropped at the discretion of the teaching department to allow enrollment space for other students. Affected courses should be identified in the Time Schedule and/or posted in departmental offices. Please do not assume that departments will automatically initiate a drop for non-class attendees. If you are not going to go to class, you should drop the course through STAR to avoid having the instructor assign a failing grade. You may not attend a University course in which you have not been officially registered. An instructor may allow you to attend his or her class only if your name appears on the official class list from the Office of the Registrar. A faculty member may attend informally with the approval of the instructor.

Credit limitations
Undergraduates will be limited to 19 credits during Registration Periods I and II to allow all students a chance to develop a basic schedule. Additional credits may be added during Registration Period III. Thirty credits is the limit per quarter.

Entry codes
Entry codes are five-digit random numbers issued to you by academic departments as authorization to add or drop restricted course sections. Entry codes are not transferable. All courses require add codes to add beginning June 30.

Courses requiring entry codes are designated with the symbol > to the left of the schedule line number (SLN) in the Time Schedule section of this bulletin. Please note that departments reserve the right to require entry codes whether the course is so designated in the Time Schedule or not. Usually information on where to obtain entry codes is found in the body of the Time Schedule, either as a comment before the course listing or just after the title of the course. Contact the department offering the course if STAR advises you an entry code is required and the location for obtaining one is not identified in the Time Schedule. Instructors may issue entry codes to students when a class is full. (See Overload Guidelines, this page, for additional information on using add codes to overload closed courses.)

Once you have used an entry code, the computer removes it from the list of viable codes and will not accept it again. If you drop a section that required an entry code to add, then you must obtain another entry code from the department if you wish to re-add the section.

Some courses require a drop code to drop. Obtain the code from the department offering the course. Perform the drop transaction on STAR and enter the drop code when prompted by STAR.

Faculty numbers
If you are enrolling in independent study courses such as 499, 600, 700 or 800, you will first need to obtain a faculty number from the instructor or department. The faculty number is used instead of the entry code to register for the courses on STAR.

Full-time student requirement
You should register for 12 or more credits to be considered full-time if you are an undergraduate or professional student. If you are a graduate student, it is recommended that you register for 10 or more credits.

It is important to note that differing criteria and standards for full-time enrollment exist for eligibility in certain programs. Consult the Financial Aid Office at 105 Schmitz, or by calling (206) 543-6101, for its requirements on satisfactory student progress. The tuition schedule does not reflect full-time credit requirements for loan deferments, teaching assistantships or other programs.

Overload guidelines
For reasons of public safety and instructional quality, course enrollment in each section will be limited to the approved classroom capacity. The Office of the Registrar monitors course enrollments throughout the quarter according to the following guidelines:

- Prior to June 30, a student may add a section unless the class is full or requires permission; then an entry code is required. Beginning June 30, add codes are required to add any course. STAR will accept course enrollments only up to 115% of classroom capacity to compensate for expected course drops.

- No course adds are accepted after July 3 for full-quarter and a term courses. STAR closes at 6 p.m. on that day. B term course adds are in person only July 7-30 in the Registration Office, 225 Schmitz, 8 a.m. to 5 p.m. weekdays.

Registration assistance
If you work during the day or are incapacitated and need assistance with non-STaR transactions, please call the supervisor of the Registration Office at 685-7874 to make arrangements for assistance. If you are having problems using STAR, call the Registration Office at 543-8880 and a staff member will assist you.

Students with disabilities which limit their ability to use STAR may contact Disabled Student Services at 543-8925 (voice/TDD) for assistance with registration.

Questions?
If you have questions regarding registration, please call the Registration Office, (206) 543-4000. The audiolibrary system has complete recorded instructions. If you need additional assistance, press "0" and a staff member will help you during business hours, Monday through Friday, 8 a.m.-5 p.m.
Registration holds
If you have a hold on your registration, you will not be permitted to register or add courses until the hold has been released by the initiating office. If you attempt to register on STAR before your hold has been released, the voice response will indicate which office has placed the hold, and where to go to get it released. You may drop courses or make other transactions on STAR.

Registration in sequence courses
Departments may establish a registration priority for students enrolled in sequence courses. For example, students enrolled in a foreign language 101 course would have priority to register in the next course sequence (102) for the succeeding quarter.

Registration tampering
A student who tampers or attempts to tamper with the registration records of another student, including but not limited to dropping and adding courses, may be subject to disciplinary sanction as defined in the Student Conduct Code (WAC 478-120).

Time conflict
You may not register on STAR for two courses that meet at the same time or for courses with overlapping meeting times. If you want the second course instead of the one you are registered for, you must drop the first one before adding the second course on STAR. If you want to add a course that conflicts with another, you must add the second course, in person, at the Registration Office, 225 Schmitz. Students must obtain the approval of both instructors to add a course that conflicts one hour a week or less; instructor signatures on an Authorization for Non-STaR Transactions form are required for courses that conflict more than one hour per week. The form is available in the Registration Office lobby.

Undergraduate satisfactory progress
If you are pursuing a baccalaureate degree, you are expected to make satisfactory progress toward the attainment of that degree, and are expected to enter a major and graduate after completion of a reasonable number of credits. Refer to the UW General Catalog for additional information.

Variable credits
Some courses are offered for a variable number of credits. See the department to obtain the appropriate number of credits for a variable credit course and be prepared to enter the number of credits when requested to do so by the voice response on STAR. Changes in variable credits are made at the Registration Office, 225 Schmitz.

Beginning Registration Period IV, all changes to variable credits require the signature of the instructor on departmental stationary or the Authorization for Non-STaR Transactions form (available in 225 Schmitz). A $20 change-of-registration fee will be assessed.

Follow these steps before calling STAR

Step 1: Read Registration for Summer 1997 pages 138-139, How to Register Using STAR, and the STAR Work Sheet, next page, carefully.
Step 2: Academic advising is highly recommended; and it is suggested that you make an appointment with your adviser before selecting your courses.
Step 3: Obtain entry codes or faculty numbers from departments for courses requiring entry codes. All courses require entry codes beginning June 30.
Step 4: Organize your registration materials. Use the Time Schedule listing in this bulletin, pages 85-129, to obtain the schedule line number (SLN) for each course section. SLNs change every quarter. Prepare an alternate course section list because some sections may be full.
Step 5: Take care of all University financial obligations before calling STAR, since STAR will not permit you to register if there is a "hold" on your registration.
Step 6: Call STAR from a touchtone telephone and begin with Section I on the STAR Work Sheet. You will be asked to provide information in Section II during your first telephone call to STAR each quarter. Always exit STAR using the "T" transaction followed by the number sign key (0), so that you can find out how to obtain your registration confirmation.
Step 7: Beginning with Registration Period I, you may call STAR as often as you want to check the status of sections, have your confirmed schedule listed, add/drop courses, check your account balance, etc.
University of Washington
Student Telephone Assisted Registration (STAR)
Summer Quarter 1997 STAR Work Sheet

I. Always access STAR with these four steps:

1. Call STAR 548-STAR (If calling long distance, precede STAR number with 1-206)
2. Enter Quarter Code 3 (1 = winter, 2 = spring, 3 = summer, 4 = autumn)
3. Enter your Student ID number: ____________________________
4. Enter your four to six digit Private Access Code, followed by 2 For security of your record, do not write your Private Access Code on this work sheet.

II. You will only be asked to provide this information during your first call each quarter. Make your entry after the STAR voice asks for each selection.

1. Student Health Insurance
   INSURANCE OPTIONS For descriptions, refer to Student Insurance section of the Time Schedule.
   Press zero for no insurance
   0 (zero) = No Insurance
   1 = Student Quarterly Insurance
   2 = Student and Spouse Quarterly Insurance
   3 = Student, Spouse and Children Quarterly Insurance
   4 = Student and Children Quarterly Insurance
   5 = Student Annual Insurance
   6 = Student and Spouse Annual Insurance
   7 = Student, Spouse and Children Annual Insurance
   8 = Student, Spouse and Children Annual Insurance
   9 = Student and Children Annual Insurance

2. ASUW membership Y = Yes N = No

IIIa. To add courses NOT requiring Entry Codes:

Schedule Line Number
A _______ P You will be prompted to enter credits if course has variable credits.

IIIb. To add closed courses or courses requiring Entry Codes:

Schedule Line Number
Entry Code or Faculty Number
A _______ P______ P

Entry Codes and Faculty Numbers do not guarantee a space in the course. STAR will not accept a course add if the enrollment in the course is 116% or more of room capacity. You will be prompted to enter credits, if course has variable credits.

IV. To drop courses:

Schedule Line Number
D _______ P You will be prompted to enter an Entry Code, if required to drop.

V. To list your schedule:

Includes meeting days and times, building and room.

VI. To check course status (Open/Closed):

Schedule Line Number
A _______ P Includes available alternate sections, if requested section is closed.

VII. To list your grades:

G _______ # Includes officially recorded grades for the most recently completed quarter.

Or Code Year
Example G291# (Grades for spring 1991).

VIII. Student Account and Loan Status Inquiries:

11 #
To list current student account balance.

12 #
To list summary of disbursed financial aid and aid check availability.
To list the latest recorded student account payment.
To list this quarter’s selected optional charges (WashPIRG, WSL, Insurance.)

IX. To change optional charges for this quarter:

C1 H #
Student Health Insurance - see Insurance Options in Section II (above).

C1 Y #
Washington Student Lobby.
Y=Yes, add $2 for WSL to my bill
N=No, drop WSL charge from my bill.

C1 Y #
WashPIRG
Y=Yes, add $3 for WashPIRG to my bill
N=No, drop WashPIRG charge from my bill

X. To change your Private Access Code:

9 New P.A.C. #
Enter your new four to six digit Private Access Code. For Security of your record, do not write your PAC on this work sheet.

XI. To discard any partial entry and repeat previous message:

# #

XII. To exit STAR (terminate call) and receive information on registration Confirmation:

# #
Tuition, Fees, Billing and Student Insurance

Tuition forfeitures or refunds
Students will be billed for the number of credits, including audit hours, on their course schedule at the beginning of the quarter. Only partial tuition reductions will result for courses dropped after June 29 for full and a term, and July 30 for b term courses.

Students are expected to pay one-half of the tuition associated with courses dropped during the half-payment period shown below:

<table>
<thead>
<tr>
<th>Type of course</th>
<th>Half-payment period:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full-term</td>
<td>June 30-July 13</td>
</tr>
<tr>
<td>a term</td>
<td>June 30-July 13</td>
</tr>
<tr>
<td>b term</td>
<td>July 31-Aug. 13</td>
</tr>
</tbody>
</table>

Courses dropped after these half-payment period dates receive no refund.

The University's forfeiture schedule is as follows:

For policies regarding special-date course that begin or end on dates other than the standard dates of a, b or full term, see page 131.

- Students withdrawing by June 29 for full and a term, or July 30 for b term, do not pay tuition. Students withdrawing before the seventh calendar day of the quarter without returning their U-PASS sticker owe $75 for the U-PASS. No replacements are allowed for students who pay the $75 fee and then lose their U-PASS sticker.

- Students withdrawing between June 30 and July 13 for full and a term, or between July 31 and Aug. 13 for b term, continue to owe one-half of their tuition. Students withdrawing after June 29 for full and a term, or July 30 for b term, will be charged the applicable forfeiture and may retain their U-PASS by paying the quarterly fee or return it no later than the tuition due date to have the fee waived. There will be no U-PASS refunds after the tuition payment deadline.

- Students withdrawing after July 13 for full and a term, or Aug. 13 for b term, continue to owe full tuition.

- Students whose registrations are canceled for nonpayment of fees will continue to owe the University one-half their tuition and fees.

- International students who are registered for an English as a Second Language course must make a separate request for a refund for that course by contacting the ESL Office, 4909 25th Ave. NE, on the second floor of the King Building, at the same time they withdraw from the University.

- Students who drop classes between June 30 and July 13 for full and a term, or between July 31 and Aug. 13 for b term that result in lower tuition, will owe one-half of the tuition associated with the reduced credit hours.

- If you are a Title IV financial aid recipient attending your first quarter at the University and withdraw after June 29 for full and a term, or July 30 for b term, you must pay a prorated portion of the University charges. Charges are prorated based on the portion of the quarter for which you are enrolled. If you withdraw on or after July 14 for full or a term, or Aug. 14 for b term, you must pay full tuition.

The pro rata refund provision applies to tuition, fees, room and board and other charges which would otherwise be assessed by the University.

Course drops become effective the date received and processed on STAR, in the Registration Office, 225 Schmitz, or through the departmental registration screen used in academic departments.

Students may petition forfeitures for extenuating circumstances (death, disability, etc.) through the Student Accounts office.

Important information
- Drops or withdrawals after June 29 for full and a term courses, or July 30 for b term courses will cost you $20 plus at least half of tuition reduction (or forfeitures). See tuition for refunds; this page.
- Tuition for all terms is due July 1.
- Charges incurred after tuition due date must be paid in one to three days (see Tuition fee assessments and deadlines; this page).
- Students who fail to pay by the deadline will be charged a late fee.
- If payment has not been received in the Student Accounts Office by Aug. 13, students' registration for the current quarter will be canceled.
- If registration cancellation for nonpayment requires a $75 fee, in addition to tuition.

Tuition and fees incurred after the tuition due date (July 11) must be paid within three business days to avoid registration cancellation. Exception: As of the last week of instruction, charges must be paid by the next business day. Always check your account status and balance on STAR when completing a registration transaction.

If registering, all classes on a student's schedule at the time of registration cancellation must be re-added. Fees will include appropriate charges for classes dropped during the forfeiture period.) Please note: Even if registration is canceled, students will continue to owe one-half of their tuition.

Credit cards are not accepted.

Tuition and fees not paid by the end of the academic quarter (Aug. 22) will be subject to an interest charge of one percent per month, or fraction of a month (12 percent APR), beginning with the month following the end of the quarter. Delinquent unpaid accounts may be referred to a collection agency and reported to a credit bureau.

The controller is authorized to place holds on the record of any student who fails to pay amounts due the University.
Until the hold is cleared, the University: (1) does not release the students' records; (2) does not release transcripts or certified records; (3) denies registration or reapplication.

**Application of payments to a student's account**

As a rule, payments received for a student's account are applied in order of their due dates. For charges with the same due date, payments are applied first to tuition and related University fees and then to other charges on the account. A payment may be applied to a specific charge by contacting the Students Accounts Office at 129 Schmitz Hall. Financial aid from Federal Title IV programs is applied only to required tuition and fees and to loan and aid repayment obligations. The University may not apply such aid to pay insurance and some other optional charges.

**Student insurance**

The University offers a voluntary accident and sickness insurance plan to supplement the services available at the Hall Health Center. Seattle campus UW students who remain registered through June 29 are eligible to enroll in the plan. Not eligible are UW Seattle campus nonmatriculated students and those enrolled in programs administered by UW Extension and UW faculty/staff or Washington state classified employees or Washington National Guard members attending classes under the tuition exemption programs.

Students may sign up for the plan when they register for classes. The insurance premium will be included on the quarterly tuition statements and must be paid by the quarterly tuition due date (July 11). Students may add, cancel, or change their insurance selection on STAR, and remit the correct balance by the tuition due date (July 11). Students holding insurance policies that expire during the academic year are responsible for obtaining new waivers, as necessary.

For those graduate students who are eligible for Graduate Appointee Insurance, please choose the option, “no insurance” when registering on STAR. If you have questions regarding your eligibility for this plan, please contact your department.

International graduate appointees, however, must still choose the quarterly student insurance option when registering. If you are an international RA/TA/SA, the system will automatically make adjustments so that you will not have double coverage. If you are an international fellow or trainee, please contact your department for further instructions.

Brochures describing the plan in more detail are available at the Hall Health Primary Care Center, the HUB, and at the Registration Office, 225 Schmitz Hall. Plan benefits may change each academic year, so students are encouraged to review the brochure carefully.

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**Summer tuition schedule (1996 tuition)**

Tuition for 1997 had not been determined at press time and is expected to increase. The fee shown is subject to change.

<table>
<thead>
<tr>
<th>Undergraduate</th>
<th>Resident</th>
<th>Nonresident</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 credits (minimum)</td>
<td>$80</td>
<td>$126</td>
</tr>
<tr>
<td>3 credits</td>
<td>12</td>
<td>237</td>
</tr>
<tr>
<td>4 credits</td>
<td>16</td>
<td>448</td>
</tr>
<tr>
<td>5 credits</td>
<td>20</td>
<td>599</td>
</tr>
<tr>
<td>6 credits</td>
<td>24</td>
<td>700</td>
</tr>
<tr>
<td>7 credits</td>
<td>28</td>
<td>881</td>
</tr>
<tr>
<td>8 credits</td>
<td>32</td>
<td>993</td>
</tr>
<tr>
<td>9 credits</td>
<td>36</td>
<td>1,044</td>
</tr>
<tr>
<td>10 or more credits</td>
<td>40</td>
<td>1,114</td>
</tr>
</tbody>
</table>

**Graduate and Law**

<table>
<thead>
<tr>
<th>Undergraduate</th>
<th>Resident</th>
<th>Nonresident</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 credits (minimum)</td>
<td>$10</td>
<td>$343</td>
</tr>
<tr>
<td>3 credits</td>
<td>16</td>
<td>515</td>
</tr>
<tr>
<td>4 credits</td>
<td>22</td>
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<tr>
<td>5 credits</td>
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<td>859</td>
</tr>
<tr>
<td>6 credits</td>
<td>34</td>
<td>1,031</td>
</tr>
<tr>
<td>7 or more credits</td>
<td>40</td>
<td>1,203</td>
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**Medical and Dental**

<table>
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<th>Nonresident</th>
</tr>
</thead>
<tbody>
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<td>2 credits (minimum)</td>
<td>$7</td>
<td>$431</td>
</tr>
<tr>
<td>3 credits</td>
<td>10</td>
<td>647</td>
</tr>
<tr>
<td>4 credits</td>
<td>13</td>
<td>889</td>
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</tr>
<tr>
<td>7 credits</td>
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<tr>
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<tr>
<td>9 credits</td>
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</tr>
<tr>
<td>10 credits</td>
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</tr>
<tr>
<td>11 credits</td>
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<tr>
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</tr>
<tr>
<td>13 or more credits</td>
<td>40</td>
<td>2,895</td>
</tr>
</tbody>
</table>

*Includes the quarterly technology fee.

The additional fee per credit hour for more than 18 credits does not apply to summer Quarter. For details about full-time student requirements, see page 141.

Tuition charges are based on your student classification, e.g., undergraduate, graduate or professional, and not on course level.

This tuition schedule does not reflect full-time load requirements for loan deferrals, teaching assistantships or other programs.

**Special course and laboratory fees**

The amounts charged for tuition and fees normally cover University charges for course registration. Some courses, however, have extraordinary expenses associated with them and in such cases the University may charge additional fees in amounts approximating the actual instructional or laboratory costs.
Insurance effective dates and rates
The voluntary accident and sickness insurance plan, if purchased for Summer Quarter, will be effective June 23-Sept. 21, 1997. Rates are as follows for summer: student only, $133.70; student and spouse, $335.70; student, spouse and children, $493.10; student and children, $300.10. A student must be registered during Summer Quarter to qualify for coverage. To be covered during a quarter you will not be registered, you must sign up and pay for the annual option during Autumn, Winter or Spring Quarter. See insurance plan coverage brochure for details.

Special fees
Quarterly technology fee
This fee is to recover, in whole or in part, the costs of providing and maintaining services to students that include, but need not be limited to the following: Access to Internet and World Wide Web, email, computer and multimedia work stations and laboratories, computer software and dial-up telephone services. Part-time students (those paying less than full-time tuition) are charged on a pro rata basis. The fee will be included on the Quarterly Tuition billing.

Services and activities fees
As part of tuition, students pay the Services and Activities Fee which funds a variety of student services, including: ASUW and GPSS, the Daily, Hall Health Center, Recreational Sports (IMA), Student Legal Services, Childcare Assistance Program, and Ethnic Cultural Center/Theater.

UW ID card
The UW student ID card is a permanent, laminated card, and once obtained, should not be discarded. New students are eligible for a student ID card once they have been admitted. If an Enrollment Confirmation Deposit is required, it must be paid before an ID card can be issued. Students must bring a piece of official photo identification (mandatory) to the Student ID Card Center at 229 Schmitz Hall between 8 a.m. and 5 p.m., Monday through Friday.

The standard UW student ID card is a non-photo card; however, students living in the dormitories (except for Stevens Court residents) will be issued a photo student ID card, since it serves also as their meal card.

A quarterly validation sticker is mailed to students with their registration confirmation. The sticker should be affixed to the front of the ID card in the location provided; without this sticker, the card is usually not honored on campus.

Students should carry their student ID card whenever they come to campus. Many administrative transactions and campus services and facilities are not available without it. In some situations, students may also be asked to provide an additional piece of photo identification.

Students may not let anyone else use their student ID card. Misuse will subject the student to disciplinary action as described in the Student Conduct Code.

Students who lose their UW ID card, should immediately make two phone calls, one to the ID Card Center at 685-4121 to report it as lost, and also to the UW library system at 543-2553. To replace the card, students should go to the Student ID Card Center with photo identification; a non-refundable $5 fee is charged for replacement of non-photo cards, $10 for photo cards.

U-PASS
A U-PASS validation sticker is mailed with students’ registration confirmation each quarter. The U-PASS is valid on all regular Metro and Community Transit routes at all times and provides parking privileges to carpoolers, riding privileges to vanpool passengers, and merchant discounts. The quarterly fee of $27 will be included on the tuition bill. Students who do not wish to participate in the U-PASS program must return the validation sticker to the University by the tuition payment deadline. The sticker can be returned by mail in the return envelope provided, or mailed with the tuition payment, or returned in person at the Student Accounts and Cashiers Office or the Registration Office.

Students who withdraw through June 29 without returning the U-PASS sticker will owe $75 for the U-PASS. Students who withdraw after June 29 will be charged the applicable tuition and may retain the pass for $27 or return it no later than the tuition due date (July 11) to have the $27 fee waived. There will be no U-PASS refunds after the tuition payment deadline, even for h term students, and no replacement of a lost U-PASS sticker for students who have withdrawn.

Students who did not receive their U-PASS in the mail will be asked to sign a certifying statement and will be issued a replacement sticker at no charge through June 27. Replacement stickers issued for any reason after June 27 will cost $10. Lost ID cards bearing a U-PASS sticker will be replaced for a $15 fee ($20 fee for photo ID), which includes a new U-PASS sticker. Replacement fees are nonrefundable. Students issued replacement stickers will not be permitted to cancel the $27 U-PASS fee by returning a sticker.

Eligible students who have not already purchased a U-PASS sticker may do so at the Registration Office, 225 Schmitz, any time during the quarter. The fee will remain $27 throughout the quarter.

The U-PASS is the property of the University of Washington and is not transferable. The U-PASS program, replacement policies and quarterly fee are subject to change without notice.

Washington Student Lobby (WSL)
The Washington Student Lobby (WSL) is a voluntary, independent organization of university students whose purpose is to influence the Washington State Legislature and other decision makers on higher education matters of special interest to students. Students may choose to support the WSL by contributing $2 each quarter. Support for the WSL may be indicated during registration and the voluntary contribution will be included on the tuition billing statement for payment with tuition.

Washington Public Interest Research Group (WashPIRG)
The Washington Public Interest Research Group (WashPIRG) is a student-directed, non-profit and non-partisan organization which works on issues affecting the quality of life in Washington state. Students participate in WashPIRG as decision makers, volunteers and credit interns producing research reports, lobbying the legislature, and organizing students and citizens around consumer, environmental, and governmental issues. Students may choose to support WashPIRG by contributing $3 each quarter. Support for WashPIRG may be indicated during registration and the voluntary contribution will be included on the tuition billing statement for payment with tuition.
Grade, Withdrawal and On-leave Information

Withdrawal

Quarter Off Eligibility Policy
Undergraduate and professional students (dental, law or medical) who have completed the preceding quarter at the UW may take a quarter off under the Quarter Off Eligibility Policy. Review the Registration eligibility, page 138, section for complete details.

Withdrawal for the quarter (dropping all courses)
It is the student’s responsibility to withdraw completely if unable to attend for the quarter. Students who drop their last course on STAR and do not add a course will be considered withdrawn for the quarter. Students who drop their last course on STAR will be charged the $20 change fee beginning June 30 for a and full term, July 31 for b term.

Students may write to or withdraw in person at the Registration Office, 225 Schmitz Hall, 355850, University of Washington, Seattle, WA 98195-5850. Withdrawals by mail are effective on the date of the postmark. No withdrawals are accepted after July 16 for a term courses, or Aug. 15 for full and b term courses.

Tuition owed will be based upon the date the complete withdrawal is recorded at the Registration Office, the date that the last class is dropped on STAR, or the postmark date for withdrawals received by mail. Students who withdraw prior to June 30 for full and a term courses and July 31 for b term courses, will owe a $75 U-PASS fee unless it is returned to the Student Accounts and Cashiers Office by the tuition due date. Students who pay the $75 fee and then lose their U-PASS are not eligible to purchase a replacement U-PASS sticker.

Students withdrawing before the first day of the quarter should review the Registration eligibility section, page 138. New students must reapply through the Admissions Office.

Courses dropped as part of a complete withdrawal from the University during the first two weeks of a quarter through June 29 for a term, July 6 for full term and July 30 for b term, are not recorded on your UW transcript; however, the date of the complete withdrawal is recorded.

Students who withdraw during the first week of two consecutive quarters (Summer Quarter excepted) will not be eligible to register as a continuing student for the third quarter. Such students must reapply as a former student returning to the University and will be required to pay the $35 application fee and $100 enrollment deposit. For example, a student who withdraws during the first week of Winter Quarter and Spring Quarter must reapply as a returning former student for Autumn Quarter.

Hardship withdrawal
You may petition the Office of the Registrar for a hardship withdrawal if the deadline to drop a course has passed and the conditions listed below apply. A $20 change of registration fee will be charged. (1) You are unable to complete the course in question because of a severe mental or physical disability; and (2) there are unusual or extenuating circumstances beyond your control which prevented you from dropping the course by the drop deadline. A hardship withdrawal will not be granted for course work in which you have earned a degree. Petitions must be sub-

mitted promptly after the event that caused the need for withdrawal.

Withdrawal for military service
Students conscripted into the Armed Forces or called to active military duty may withdraw through the end of the seventh week of instruction and receive a full refund but no academic credit. Students withdrawing after that date receive either a full refund or credit and no refund. Please consult with the Office of the Registrar for complete details.

Graduate students on leave
To go on leave, have your department graduate program coordinator sign a petition for an on-leave status card. Take it to the Registration Office through June 27. The Registration Office staff will issue you an on-leave graduate student card upon payment of a $35 nonrefundable fee. This card will give you access to the libraries. If you have preregistered for Summer Quarter, you must officially withdraw prior to June 23 before the on-leave status will be granted.

Grade Reports
Final course grades are available on STAR (the University’s touchtone registration system). See page 140 for details. To request grades for the just completed quarter, enter G#. To request grades for any past quarter, enter G then the code for the quarter and the last two digits of the year. For example, G 3 93 # is the request for grades for Summer Quarter 1993. The quarter codes are the same as those used for registration: 1, winter; 2, spring; 3, summer; 4, autumn.

You may also view your grades on a secure Web site and print a copy if you need a paper record. You may print a copy of your Summer Quarter grades using STAR Online beginning Aug. 26. Log onto the UW's home page at http://www.washington.edu, click on the Student Guide, and then on STAR Online. You will need your student ID number and private access code (PAC).

STAR will refer you to the Web site or the Transcript Office if you need an unofficial transcript or a confirmation of your enrollment status for financial aid, loan deferment or insurance. If you need a copy of your grades mailed, STAR will give you a selection menu for ordering. Copies requested through STAR will be printed and mailed Wednesday of the third week following the close of the quarter. The mailing of these grade requests is done at the completion of the grade recording process in order to have as many grades as possible on your record.

Transcripts
An official UW transcript is established when the first credit course is taken, and all future credit course activity is recorded on this permanent record of academic work at the UW. For a copy of your transcript, write the Transcript Office, 260 Schmitz Hall, Box 355850, Seattle, WA 98195-5850. Include $4 per transcript copy, and note your student identification number or Social Security number, the most recent quarter in attendance and all former names. Transcripts for current quarters courses will be available approximately three weeks after the end of the quarter.
Grading

**Numeric**
The University of Washington uses a numerical grading system. Instructors may report grades from 4.0-0.7 in 0.1 increments and the grade 0.0. Grades reported in the range of 0.6-0.0 will be converted to 0.0. A grade of at least 2.7 is required for courses used to meet Graduate School requirements.

Numerical grades may be considered equivalent to letter grades as follows:

- **A**: 4.0-3.9
- **B+**: 3.4-3.2
- **A-**: 3.8-3.5
- **B**: 3.1-2.9
- **C+**: 2.4-2.2
- **B-**: 2.8-2.5
- **C**: 2.1-1.9
- **D+**: 1.4-1.2
- **C-**: 1.8-1.5
- **D**: 0.8-0.7*
- **F**: 0.0

*Lowest passing grade for undergraduates

**Failure or unofficial withdrawal. No credit earned.**

An undergraduate student whose grade-point average falls below a 2.0 will be warned about low scholarship. Failure to maintain a 2.0 will result in probation. Refer to the UW General Catalog for details.

**Auditors**
Students must first register on STAR and then go in person to the Registration Office, 225 Schmitz Hall, to select the audit grade option. The audit option may be selected through July 3 for a term, Aug. 8 for full term, and Aug. 13 for b term. A $20 change fee is charged beginning June 30 for full and a term courses, and July 31 for b term courses. Attendance in courses as an auditor is by consent of the instructor involved and is conditional on space availability. Permission to audit is ordinarily granted for lecture classes only. An auditor may not participate in class discussion or laboratory work, and his or her registration may be canceled at the discretion of the instructor. No entry is made on the permanent record for courses audited. However, a “W” grade will be recorded on academic transcripts for courses changed to audit beginning July 7 through Aug. 8 for full term courses, June 30 through July 11 for a term courses, or July 31 through Aug. 13 for b term courses. To receive credit for an audited course, the student must register for the class for credit in a subsequent quarter.

Auditors, except ACCESS program students, pay standard tuition and fees and must be regularly admitted and registered in the course. Although credits for audited courses are not listed on transcripts, they are included in the billing on fee statements. Such credits count in the calculation of fees.

Courses audited may not be changed to credit registrations after July 3 for full and a term courses and July 30 for b term.

**Credit/no credit**
Some courses are offered on a credit/no credit (CR/NC) basis. It is not possible to register S/NS to take these courses. Neither CR nor NC is included in the grade-point average. In cases of withdrawal, a "W" is recorded.

**Grade appeals**
See the UW General Catalog for appeal procedure.

Incomplete grades
Incomplete grades may only be awarded if the student is doing satisfactory work up until the last two weeks of the quarter. Undergraduate students must not reregister for courses in which they have received an Incomplete since a grade earned in a repeat course will not be recorded as an incomplete conversion grade. To obtain credit for the course, an undergraduate student must convert an Incomplete into a passing grade no later than the last day of the next quarter. An Incomplete not made up by the end of the next quarter (summer excluded) will be converted to the grade of 0.0 by the Registrar unless the instructor has indicated, when assigning the incomplete grade, that a grade other than 0.0 should be recorded if the incomplete work is not completed. The original Incomplete grade is not removed from the transcript.

**Satisfactory/not satisfactory**
Students may elect to take certain courses on a satisfactory/not satisfactory (S/NS) basis. Advisers should be consulted, and in no case are undergraduate students allowed to register for more than six credits (or for one course, if that course is offered for more than six credits) on a satisfactory/not satisfactory basis in a given quarter.

Students must register for the course on STAR, and then go in person to the Registration Office, 225 Schmitz Hall, to elect the S/NS grade option. The S/NS grade option cannot be selected on STAR.

The S/NS grade option can be elected only through July 3 (July 30 for b term). A $20 fee is charged beginning June 30 (July 31 for b term).

For undergraduates, a course in which an “S” is earned may not be used to satisfy any department, college, or University requirement, except that the credits may be applied to the minimum of 180 credits required for graduation. Each instructor will report conventional grades to the Registrar, who will convert satisfactory grades (2.0 or greater) to “S,” and unsatisfactory grades (less than 2.0) to “NS” for the student’s transcript. No more than 25 S/NS credits will apply to an undergraduate degree.

Graduate students earning grades of 2.7 or above receive a grade of S (satisfactory), while 2.6 or below is recorded as NS (not satisfactory). With the approval of his or her graduate program adviser or supervisory committee chairperson, a graduate student may elect to take any course for which he or she is eligible outside of his or her major academic unit on an S/NS basis.

In cases of withdrawal, a "W" is recorded. Neither S nor NS is included in the grade-point average.

"W" grades
If you are an undergraduate student and drop a full-term course during the first two weeks of the quarter, there is no entry on your permanent academic transcript. If all courses are dropped, a complete withdrawal date is recorded on the transcript. A single course drop made June 30 through July 13 for a term courses, July 31-Aug.13 for b term courses, or July 7 through Aug. 10 for full term courses, is recorded on a student's transcript with a "W" grade.
Student Services and General Information

Burke Museum of Natural History and Culture
The Burke Museum, the only major natural history museum in the Northwestern United States, features collections with well over four million specimens. Closed this summer, the museum is scheduled to reopen in November 1997 with all new exhibits focusing on the natural history of the Pacific Northwest and the cultural heritage of the Pacific Rim.

The Boiserie Cafe in the museum, near the 17th Ave. NE and NE 45th St. entrance to the campus, will remain open this summer, Monday–Friday, 7 a.m.–8 p.m., Saturday and Sunday, 9 a.m.–5 p.m.

Computing services
As a UW student, faculty, or staff member, you can easily create a computer account to access tools for teaching, learning and research. You can use Internet resources and the World Wide Web, including a Web server where you can create your own Web pages. You can browse the UW course catalog and time schedule; use electronic mail to communicate with classmates and colleagues; and use software for statistics, graphics, programming, and text formatting. You can use your own computer and modem to dial in to your account from off campus, or you can connect from your networked computer in a campus dormitory.

Campus computing needs are served by various schools, colleges and departments, as well as by Computing & Communications (C&C), the central UW organization for computing and networking. The C&C drop-in computer labs are ideal places to explore computer resources. Lab staff can answer your questions, and you can find documents such as the Student Introduction to Campus Computing that are designed to help you get started. C&C labs are located in Suzzallo Library and in the ACC Building at 3737 Brooklyn Ave. NE. These labs offer PC and Macintosh computers and X terminals (terminals using a graphical windowing system) connected to the campus network. Some computers have special adaptive equipment to assist people with motor, visual, hearing, or learning impairments.

For details about the computing resources available on campus through C&C (including how to get started and find free or low-cost training), see the Computing and Networking Web page at http://www.washington.edu/tech_home/ or look in UWIN (the UW Information Navigator) under Computing and Networking. Other questions can be answered by visiting a lab, sending email to help@cac.washington.edu or by calling C&C information at 543-5970.

Friday Harbor Laboratories
Friday Harbor Laboratories in the San Juan Islands provide year-round facilities for research in various areas of marine science.

The schedule for Summer Quarter extends over a 10-week period, June 16-Aug. 23, and is divided into two terms of five weeks each. Each five-week course consists of laboratory studies and field work and is an intense full-time endeavor running five days a week and half-days on Saturday. Courses may be taken sequentially, but not concurrently. Although courses are structured with the graduate student in mind, a very qualified undergraduate may be admitted to a course with the consent of the director and the instructors. Preference is given to students who qualify for both sessions.

The schedule for this summer includes coursework in marine botany, marine invertebrate zoology, functional morphology and marine ecology of fishes, comparative invertebrate embryology and molluscan paleobiology. Graduate research may be available through academic departments during both terms. Students may be admitted to the Friday Harbor Laboratories course program only if they meet regular entrance requirements of the University of Washington. Non-UW students apply for admission to the University of Washington after they have been accepted to Friday Harbor Laboratories.

Application for summer admission to the Friday Harbor Laboratories must have been made to the director before March 1. Additional information may be found on email at info@fhl.washington.edu and on the Web at http://www.fhl.washington.edu/. You may direct questions to admin@fhl.washington.edu or call the labs at (206) 543-1484.

Henry Art Gallery
The nationally acclaimed Henry Art Gallery, the University of Washington art museum, recently reopened after a major expansion that quadrupled its size. Designed by world-renowned architect Charles Gwathmey, the new Henry lets you experience art, not just look at it.

Hours: Tuesday, Friday, Saturday and Sunday, 11 a.m.–5 p.m.; and Wednesday and Thursday, 11 a.m.–8 p.m. Closed Mondays.

Location: The gallery is located near the 15th Ave. NE and NE 41st St. entrance to campus.

Telephone: (206) 543-2280

Admission: Free for UW students, faculty and staff, children ages 13 and under, and Henry Gallery Association members; $3.50 senior citizens; $5 general admission. Admission to gallery is free on Thursdays from 5-8 p.m.
Language Learning Center

The Language Learning Center (LLC) provides technological and pedagogical resources for faculty and students to teach, learn, and research languages and cultures. LLC develops and acquires software, audio, and video materials for coursework, reading and aural/oral testing, and assignments. LLC offers audio and video, satellite, and cable-TV facilities and services; multi-standard video and videodisc equipment are available upon reservation. A laminator protects large poster-sized visuals used in classrooms. The recording studio allows native speakers to make voice recordings. Audio cassette materials for sale to large language classes augment the audio cassette duplication service. Computer-assisted language materials integrating interactive digitized audio, video and graphics/animation are developed for student use in the center and other campus computing facilities. The Language and Cultural Corner is a general purpose facility used for informal language practice, moderated conversation groups, and special events, such as cultural activities, feature and documentary video and film viewing, and technology and pedagogy seminars. Staff associates serve as liaisons between the LLC and the language departments, and are available to assist instructors with special projects, or provide appropriate resource referrals.

The LLC is located in the daylight basement of Denny Hall, 113 Denny provides access to student computing, a free-study audio lab, satellite/cable/video viewing, and access to two electronic classrooms. Open during regular academic sessions. Summer Quarter hours are Mondays through Thursdays, 9 a.m.-8 p.m.; Fridays, 9 a.m.-4 p.m.; closed Saturdays; Sundays, 5-10 p.m.; closed on University holidays. Call 685-9403 for general information, or 543-0536 for personal assistance, or visit the Web site at http://www.llc.washington.edu/

Libraries

The University of Washington Libraries is composed of the Suzzallo and Allen Libraries which include the primary social sciences and humanities collections; the Odegaard Undergraduate Library; the Health Sciences Library and Information Center; the East Asia Library; 15 specialized branch libraries; and libraries at the UW Bothell and UW Tacoma campuses. Two on-campus libraries, the Marian G. Gallagher Law Library and the Elisabeth C. Miller Horticulture Library, are administered separately from the University of Washington Libraries system.

All students, staff and faculty with valid University identification cards may borrow from these libraries. Student cards must have the correct validation sticker for the current quarter. Information on the card, loan periods and other circulation policies are available at all circulation desks.

Reference and research services are available in all library units for users needing information about library facilities, services and collections. Classes in the use of the libraries, electronic resources and online systems are scheduled throughout the year. Group tours of individual libraries and self-guided audio tours of the Suzzallo and Allen Libraries and the Odegaard Undergraduate Library are available on a regular basis.

The Summer Quarter hours for libraries are available at all circulation desks; telephone: (206) 543-0140; World Wide Web: http://www.lib.washington.edu/

Recreational sports programs

The Department of Recreational Sports Programs manages several recreation facilities on campus, including the Intramural Activities Building (IMA), (206) 543-4590; the Golf Driving Range, (206) 543-8759; and the Waterfront Activities Center (WAC), (206) 543-9433. For information about operational hours and activities offered, call the telephone numbers indicated above or visit the Web site at http://weber.u.washington.edu/-ima/

The IMA has a fitness center (weight and cardiovascular machines), free weight room, facilities for aerobics, basketball, volleyball, racquetball, squash and badminton, saunas, locker rooms, swimming pool, outdoor tennis courts, sports fields and multi-purpose activity space. Intramurals provide an opportunity for students and faculty/staff to participate in leagues, and tournaments such as soccer, softball, tennis, and volleyball. For further information, call the IMA Sports Line, (206) 543-8558, daily between noon and 8:30 p.m.

Instruction in a variety of sports is available at the Intramural Activities Building (IMA) on a noncredit basis. Class time schedules will be available at the IMA after May 27, 1997. Contact the Sports Skills Office at (206) 543-2571 for more information.

Club sports are student organizations that provide a program of instruction, recreation, and competition. For further information, stop by the IMA Sports Club Office or call (206) 543-9499.

Note to UW matriculated students: Spring Quarter students not attending Summer Quarter may purchase a Summer IMA Facility Use Card for $19.25, beginning Tuesday, May 27, 1997. The card is valid from the date of purchase through the beginning of Autumn Quarter. The card may be purchased in the IMA Administration Office, Monday through Friday, 8 a.m.-4:30 p.m. or in the Intramural Sports Office, 4:30-8:30 p.m. Monday through Friday, and all operational hours on Saturday and Sunday. Spring Quarter students who do not wish to purchase quarterly privileges may purchase a Single Use Ticket (on each occasion of use) for $2.25 beginning Saturday, June 28, 1997. Remember, you must retain your Spring Quarter validation sticker on your Student ID Card to purchase summer facility use privileges.

Student Union Buildings

The HUB, located in the center of campus, is a popular place to meet friends, eat, relax or study. There is a dining area, a branch of the University Book Store, a self-service postal center, a barber and style shop, a bank and three cash machines. A newsstand/candy counter, a ticket sales office, a lost-and-found center, a music/study lounge, and a number of free and low-cost meeting rooms are also available. Register to vote at the HUB Information Center. Check the rider board on the ground level for carpooling information or rides home during the quarter breaks. There is also a games area which includes a 12-lane bowling center and facilities for billiards, table tennis and darts, as well as video and pinball games. The HUB is also home to the undergraduate and graduate student governments and the many programs and activities they sponsor, and houses offices for many registered student organizations. For more information, call (206) 543-1447.
Located on the shores of Portage Bay, the South Campus Center (SCC) serves as the central meeting place for students on the southern end of campus. Facilities and services similar to those of the HUB include meeting and conference rooms, display cases, a style shop, amusement games, a cash machine, a newsstand/candy counter, an espresso bar, and lounges with views of Portage Bay. A branch of the University Book Store is also available in this facility. The Portage Bay Galley offers indoor and outdoor dining with a spectacular view, and Cafe By the Bay provides late afternoon and evening espresso, snacks and food items. For more information, call (206) 543-0530.

Campus housing

If you are planning to spend the summer in Seattle and register for Summer Quarter classes at the UW, consider the convenience of living on campus close to classrooms, libraries and recreational facilities. Summer students receive accommodations in Lander Hall (or Stevens Court Apartments, see below), located on the southwest area of campus (coordinates B9-11 on the campus map, page 166). Housing is available for single students staying for the full term or a or b term only (if you are taking a short course or workshop, see Workshop and short course accommodations, on this page). All rooms have beds, closets, drawer space and desks with study lamps, and are either single or double occupancy. Students provide their own towels, sheets, blankets and pillows. Parking spaces are available for an additional fee. Bathrooms are shared.

To request a housing application for Summer Quarter, contact the UW Housing and Food Student Services Office, University of Washington, Box 355842, Seattle, WA 98195-5842; telephone: (206) 543-4059; email: hfsinfo@uwashington.edu If you plan to continue your UW studies Autumn Quarter and would like residence hall accommodations for the academic year, request a separate application for this purpose.

After you apply, you will receive your room assignment and additional information in early June. Your roommate preference will be honored if you and your roommate list each other on your applications, if you both apply by May 15, and a double room is available.

Payment is due in full when you check into the residence hall, or before you arrive, and may be made by cash or check (credit cards cannot be accepted).

Your full term housing payment includes a $532 ($261 for a or b term) deposit for your A La Carte Plus dining account—a dining debit card used to purchase meals at any University Food Services location. The amount of your purchase will be automatically deducted from your A La Carte Plus account. Any unused portion of your A La Carte Plus deposit over the minimum ($300 for full term or $150 for a or b term) is refundable at the end of the summer session. Refer to your Summer Quarter residence hall contract for more details regarding your meal plan. Page 165 lists places on campus that accept A La Carte Plus.

Stevens Court Apartments

The Stevens Court Apartments are for students 20 years of age or older registered for at least 12 undergraduate credits or 10 graduate credits. Four to six students share a living room, kitchen, dining room and bathroom, and have their own bedroom. No meal plan is included and rental is on a month-to-month basis. Cost was not available at preset time. Please contact the Housing and Food Student Services Office for details.

Workshop and short course accommodations

If you will be attending a UW summer program that does not follow the full, a or b term schedule, you can obtain on-campus housing on a space-available basis through the Coriference Housing and Special Services Office, McCarty Hall, Box 354471, University of Washington, Seattle, WA 98195-4471; telephone: (206) 543-7636. Rooms are available June 22-Sept. 13.

Accommodations are double or single rooms furnished with twin beds. Linen is provided. Bathrooms are shared. Rates vary, but an overnight stay in a single room and breakfast will cost approximately $44. Special rates apply for those sharing rooms and for those staying longer than two weeks.

For more information about the on-campus accommodations available for short programs, contact the Conference Housing Office at least 30 days prior to the workshop or class you will be attending.

Privately owned accommodations

Listings of off-campus rental properties, such as rooming and boarding houses, housekeeping rooms, apartments, and houses, are maintained at the Student Union Building (HUB), Room 105; telephone: 543-8997. The University does not inspect these accommodations, and, therefore, students and parents must accept full responsibility for making a selection. Because these listings change frequently, they cannot be mailed out and must be consulted in person.

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<th>Campus housing summer rates for 1997</th>
<th>Full term</th>
<th>a or b term only</th>
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<td>$300</td>
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<tr>
<td>Total payment</td>
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Applications for campus housing

To request an application for Summer Quarter housing, visit our Web site at http://www.washington.edu/students/hfs/hfsintro.html. Or, contact the Housing and Food Student Services Office, University of Washington, Box 355842, Seattle, WA 98195-5842; telephone: (206) 543-4059; email: hfsinfo@uwashington.edu

*A double room occupied by only one student.
Parking for students

The University encourages alternate forms of transportation. Carpools of two or more in which all members have a U-PASS can park free in Montlake lot E1 by entering at the south gate between 7 and 10 a.m., and after 4 p.m. in some main campus lots. Carpools of three or more U-PASS holders may park free on a space-available basis on the main campus in the Central Plaza Garage, Padelford Garage and the NS lot.

If driving alone is your only option, student parking is available on a daily-pay basis in lots E1, E2, E3, E4 and E5 on the east side of the campus. The parking fee is payable in quarters only upon exit from E1, and upon entry to E2, E3, E4 and E5. The E1 lot will be under construction this summer and space could be significantly reduced at times.

Summer Quarter parking permits may be purchased beginning the first day of the quarter at Parking Services, 3901 University Way NE, Monday-Friday, 7:30 a.m.-5 p.m. Student ID validated for the Summer Quarter is required to purchase a permit. Limited permit parking adjacent to the residence halls is available for students living in the halls, and may be purchased for a term, b term or the full quarter. A Student Parking Guide is available at all campus Commuter Centers. For more information, call (206) 685-1543 or contact parking@uw.washington.edu or http://www.washington.edu/upass/stpark.html/

Parking accommodations for students with temporary disabilities are issued for limited time periods upon request to Parking Services. Students with longer-term disabilities must first contact the Disabled Student Services Office at (206) 543-8929 to initiate a review for reasonable accommodation. If you already have a state disability placard, be sure to present it and the accompanying confirmation letter when making your request.

Transit services

Students may use their U-PASS on over 50 bus routes serving the University District; many include the UW campus. The U-PASS is valid on all regular Metro and Community Transit routes at all times. For complete details about the U-PASS, see page 146. Pierce Transit is not part of the U-PASS program. Timetables are available at nine Commuter Centers around campus, including the HUB, Parking Services, and Health Sciences T-466A. Information can be obtained by calling Metro, (206) 553-3000; Community Transit (Snohomish County), (206) 778-2185; or the UW Transportation Office, (206) 543-0450.

Student Services

Academic advising

Students who have been admitted for Summer/Autumn Quarter and beyond are encouraged to see an academic adviser to discuss educational objectives and assess progress toward completion of degree requirements. Summer-only students, or those who plan to complete degrees elsewhere, do not need to see an academic adviser. If they have questions, however, they are free to call any of the numbers listed below. For information regarding registration, course restrictions, requirements, etc., see an adviser or staff member in the Undergraduate Advising Center, 9 Communications, (206) 543-2551; call UW Educational Outreach Client Relations and Advising at (206) 543-6160; or, if you are a declared major, see your departmental advising office. It is the student's responsibility to make and maintain contact with advising resources.

Address change service

Call 543-3868 or send email to address@uw.washington.edu

Students are responsible for notifying the Registration Office when their addresses change. The Address Change Telephone Service is available 24 hours a day, seven days a week, for changes of local and permanent addresses, telephone numbers, restriction release of directory information, and where to mail registration confirmations and tuition billing statements. Address changes can also be sent by email to address@uw.washington.edu. The offices of Student Financial Aid and Housing and Food Services maintain separate address listings. Therefore, if you have applied for or are receiving financial aid, or if you live in University housing, you should also report any address changes to these offices.

Bookstore

Textbooks and supplies for all courses may be purchased at the University Book Store, 4326 University Way NE. Hours: Monday through Friday, 9 a.m.-9 p.m.; Saturday, 9 a.m.-6 p.m.; Sunday, noon-5 p.m.; telephone: (206) 634-3400.

The University Book Store also operates two small branches on campus (hours as posted). The HUB (Student Union Building) Branch stocks many classroom and personal supply items. The South Campus Center Branch stocks all books for courses in the health sciences as well.
as general books and supplies. Required textbooks for courses taught at the branch campuses are available at the bookstores on those campuses: Bothell, (206) 485-4725, or Tacoma, (206) 272-8900. A Bellevue branch of the University Book Store, which does not stock textbooks but carries general books and supplies, is located at 990 102nd Ave. NE, just north of Bellevue Square; telephone: (206) 632-9500.

Center for Career Services

The Center for Career Services educates University of Washington students and alumni in job search techniques and career management by acting as a liaison between the students, alumni, employers, faculty and staff. Services are available to UW students and alumni who are registered with the office. Registration is free for students; alumni must pay applicable fees for the period of time during which services are desired.

Services include individual career counseling, job search seminars, a career information library, Minority Career Services, campus interviews, job opportunity bulletins, re-canning and dependents workshops, credential file service, graduate school file service, 24-hour joblines, and career and degree-related summer jobs/ internships. To participate in the campus interview program, students must attend an orientation session and register via the World Wide Web at http://weber.u.washington.edu/~careers/. For more information, please come to the Center for Career Services at 301 Loew Hall, Box 352190, or call (206) 543-0535.

Childcare program

For students who are parents, a childcare locator directory is designed to help students find licensed childcare facilities. This resource is available in the Office of the Vice President for Student Affairs. For more information, visit the Childcare Coordinating Office, 466 Schmitz; telephone: (206) 543-1041.

Financial aid

In order to be eligible for any type of need-based aid, a student must be a regularly admitted, matriculated student. Summer-only nonmatriculated students are not eligible for financial aid. Students who wish to apply for Summer Quarter financial aid should file the Free Application for Federal Student Aid as soon as possible and request a Summer Aid application from the Office of Student Financial Aid, 105 Schmitz; telephone: (206) 543-6101.

Medical care

The University provides outpatient health and medical care for students through the Hall Health Primary Care Center. All undergraduate and graduate students, registered for full- or part-time courses and paying student fees, are eligible for health service upon presentation of a current University student identification card. Students must pay for pharmacy prescriptions, mental health services, physical examinations, and some other services as well as for outside laboratory work. Services provided through the Hall Health Primary Care Center should not be confused with the student health insurance, available through the University and purchased at the time of registration (see page 145). A student may use Hall Health Primary Care Center services without having student insurance. For details, consult the Hall Health Primary Care Center brochure; telephone: (206) 685-1011.

The University Hospital emergency room handles emergencies when the Hall Health Primary Care Center is not open. University police assistance may be obtained for first aid at the scene of an accident or for emergency ambulance transportation from any University building or on-campus location by dialing the emergency call number, 9-911. University Hospital services are not covered by regular student fees. If you have accident and sickness insurance, you most likely will have to pay for a portion of the charges for University Hospital emergency room care.

Minority affairs

The Office of Minority Affairs administers many different programs providing services for underrepresented minority and educationally/economically disadvantaged students. The Educational Opportunity Program, administered by the Office of Minority Affairs, provides a variety of services to students from minority and economically/ educationally disadvantaged backgrounds. These services include recruitment, academic advising, tutoring, personal and career counseling, housing and financial aid advising, and other assistance. For more information, call (206) 543-6598.

The Recruitment Outreach Office, located on the third floor of Schmitz Hall, is open Monday through Friday, 8 a.m.-5 p.m. Those who would like to discuss the possibility of enrolling at the University, whether for Summer Quarter or some other quarter, are welcome. For more information, call (206) 543-5715.

The Office of Minority Affairs also operates the Instructional Center, which provides instructional support for courses offered at the University and special programs in reading, composition, mathematics, sciences, and basic study skills. The center is located at 1307 NE 40th. Summer hours are Monday through Friday, 8 a.m.-5 p.m.; telephone: (206) 543-4240.

The Ethnic Cultural Center and Theatre offer a variety of educational, cultural, and performing arts programs for student and community participation.

The Office of Minority Affairs also administers outreach programs ranging from middle school through high school as well as graduate school preparation.

Student affairs

The Division of Student Affairs assists the University in fulfilling its academic mission by providing a broad range of services and programs designed to further the educational and personal development of students. The division consists of 10 units: Admissions and Records, Center for Career Services, Student Counseling Center, Disabled Student Services, Housing and Food Services, International Services Office, Recreational Sports Programs, Student Financial Aid, Student Publications, and Student Activities and Union Facilities.

Students are encouraged to contact the Office of the Vice President for Student Affairs, (206) 543-4972, 476 Schmitz, for information concerning various aspects of extra-class life at the University.
### Student Services and General Information

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<th>Student associations</th>
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<td>Washington Public Interest Research Group (WashPIRG)</td>
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**Associated Students of the University of Washington (ASUW)**

The Associated Students of the University of Washington is a voluntary association of students designated by the University Regents to carry out a variety of student activities. In order to vote in ASUW elections or hold ASUW office, students must be members. Membership choice will not affect tuition payment in any way. Information about the ASUW can be obtained from the ASUW Office in Room 204L of the Student Union Building. Students may join ASUW when registering on STAR.

### Student Counseling Center

All currently enrolled students at the University may use the services of the Student Counseling Center and its staff of psychologists and counselors. Typical issues discussed include: relationships, family of origin, adjustment to the University, career choice, choice of major and academic skills. Choice of classes/class schedule are handled by Undergraduate Advising.

A free intake appointment is available to determine if the Counseling Center’s services are appropriate. Individual appointments after the intake cost $16 per session; group appointments cost $6 per session. If a student is financially unable to pay the fee, alternative arrangements may be made. The center is located at 401 Schmitz Hall; telephone: (206) 543-1240.

### Student employment

The Center for Career Services lists career related full-time jobs and part-time, temporary, summer and internship opportunities. Part-time student employment jobs, internships and summer jobs can be accessed through a 24-hour jobline by dialing (206) 543-1840. Hard copies of listings are also available on the first floor of Loew Hall or in 301 Loew Hall. See page 153 for more information about the Center for Career Services.

### Student insurance

For details, please see page 145.

### Students with disabilities

If you are a student with a documented temporary or permanent disability, various support services and academic accommodations may be available. Contact Disabled Student Services (DSS), 448 Schmitz, (206) 543-8925 voice/TDD, uwdss@uw.washington.edu, or visit the Web site at http://www.washington.edu/students/gencat/front/Disabled_Students.html/ for information on academic accommodations designed to meet individual needs.

Students with disabilities which limit their ability to use STAR may contact DSS for assistance with registration.

### Veterans information

Veterans, as well as the dependents of deceased or totally disabled veterans, may contact the Office of Special Services for information regarding VA educational benefits.

Tuition reductions may be available for Washington residents who served in the Southeast Asian or Persian Gulf combat zones; children of POWs or MIAs; and nonresident active duty military personnel and their dependents stationed in Washington. You may obtain specific information from the Office of Special Services, 460 Schmitz, Box 355835, Seattle, WA 98195-5835; (206) 543-6122, email uwvets@uw.washington.edu

### UW ID card

For details, please see page 146.

### University Notices

The University and its colleges and schools reserve the right to change fees, rules, and the calendar regulating admission and registration; instruction in and graduation from the University and its various divisions; and any other rules affecting the student. The University also reserves the right to withdraw courses and programs at any time.

### Disclosure of student records

As a general rule the University will not release a student’s education records to a third party without written consent of the student. This includes tuition account information. The complete University policy on student education records and the location of such records may be found in the Washington Administrative Code under WAC 478-140. Manuals containing the code are available at reference stations on campus and at the Visitor’s Information Center, 4014 University Way NE. The policy covers such items as accessibility, review and expunging of inaccurate records, and costs to be charged for copies of student records. Information release forms for tuition accounts information only may be obtained from the Student Accounts and Cashiers Office, 129 Schmitz Hall.

### Equal opportunity

The University of Washington, as a standing policy, does not discriminate on the basis of race, color, creed, religion, national origin, sex, sexual orientation, age, marital status, disability, or status as a disabled veteran or Vietnam era veteran. Any discriminatory action can be a cause for disciplinary action. This policy applies to all programs and facilities including, but not limited to, admissions, educational programs, employment, and patient and hospital services. Such discrimination is prohibited by Titles VI and VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Sections 503 and 504 of the Rehabilitation Act of 1973, Age Discrimination in Employment Act Amendments of 1967 as amended, and Age Discrimination Act of 1975, Vietnam Era Veteran’s Readjustment Assistance Act of 1972, Americans with Disabilities Act of 1990, State of Washington Gender Equity in Higher Education Act of 1989, and other federal and state statutes and regulations, and University policy. Coordination of the compliance efforts of the University office of equal opportunity is under the direction of Dr. Helen Remick, Assistant Provost for Equal Opportunity; University of Washington, Equal Employment Office, Box 354560, 4045 Brooklyn Ave. NE, Seattle, WA 98195-4560; telephone: (206) 543-2624; TTY: (206) 543-6452.
Graduation rates
The graduation rates of full-time freshmen beginning their studies at the University in either Summer or Autumn Quarter 1989 are 62% in five years and 70% in six years.

Immunization
All new and returning former students, and all students living in the University of Washington residence halls or single-student apartments, are required either to provide proof of measles (rubeola) immunity or request that the requirement be waived for religious, personal or medical reasons. Such students will not be allowed to register for any classes until the Hall Health Primary Care Center (the student health center on campus) confirms that they have satisfied this requirement.

Students must complete the student health center’s Measles Immunity Verification form and provide either certifications by their health-care providers or copies of original immunization records as proof of 1) two live virus measles (rubeola) vaccinations, both given after 1967 with at least one given after 1980; or 2) positive measles (rubeola) titer (blood test for antibodies against measles); or 3) a history from a health-care provider of measles (rubeola) disease. Students born before 1957 are considered immune to measles.

While continuing students are not required to provide Hall Health Primary Care Center with proof of measles immunity, they are encouraged to do so. In the event of an outbreak on the campus, all students lacking acceptable documentation of measles immunity, including students with waivers, will be barred from classes, living groups and other campus activities until health officials determine that there is no risk of them transmitting the disease to others. Measles Immunity Verification forms are available at the Hall Health Primary Care Center and the Registration Office at 225 Schmitz Hall. For more information, students should contact the Hall Health Primary Care Center at (206) 616-4672 and leave voice-mail messages to which members of the nursing staff will respond.

Sexual harassment grievance procedure
Students, as well as members of the faculty and staff, who wish to file a complaint regarding sexual harassment may contact any of the offices listed below:

Ombudsman for Sexual Harassment, 301 Student Union Building, (206) 543-0283
University Complaint, Investigation and Resolution Office, 1415 NE 45th St., Room 405, (206) 616-2028
Office of the Vice President for Student Affairs, 476 Schmitz Hall, (206) 543-4972

Personnel in these offices will be available to discuss and provide assistance in resolving the complaint.

Release of student directory information
The Family Educational Rights and Privacy Act (FERPA) of 1974 protects the privacy of your education records. However, the following information is considered public or “directory” information and may be released to anyone unless you inform the Office of the Registrar that you do not wish any information released: name, address, telephone number, email address, major field of studies, dates of attendance, full or part-time enrollment status, most recent previous educational institution attended, degrees and awards received, and for athletes, date-of-birth, weight and height.

If you do not wish to authorize directory release and do not want your directory information to appear in the published and electronic Student Directory, you may call the address change service at 543-3868 or email address@uwashington.edu to restrict access to this information. No information will be released on students or to students who have restricted release of directory information including degrees awarded, dates of attendance and notices of awards or academic honors to home town newspapers. If you wish to change your authorization and allow release, you must go to the Registration Office, 225 Schmitz Hall, and present photo identification.

Under the provisions of the Family Educational Rights and Privacy Act (FERPA), you have the right to: 1) inspect and review information contained in your education records, 2) challenge the contents of your education records, 3) request a hearing if the outcome of the challenge is unsatisfactory, 4) submit an explanatory statement for inclusion in the education record if the outcome of the hearing is unsatisfactory, 5) prevent disclosure, with certain exceptions, of personally identifiable information, 6) secure a copy of the institution policy, and 7) file complaints with the Department of Education concerning alleged failures by institutions to comply with the Act. Written complaints should be directed to FERPA, Department of Education, Room 4074, Switzer Building, Washington, D.C. 20202.
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<tr>
<th>College code</th>
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</table>
Complete Your B.A. or Graduate Degree in the Evening

Choose from ten undergraduate majors

You can complete your bachelor's degree by taking UW Evening Degree Program classes on the UW campus in Seattle. A wide variety of junior- and senior-level courses are scheduled for the convenience of evening students. Students may choose to major in one of the following 10 fields of study:

- Anthropology
- Business
  Including concentrations in marketing, management and general business.
- English
- Communications
- History
- Humanities
  Including tracks in interpretation and communication; and literature, arts and culture.
- Political Science
- Psychology
- Social Sciences
  - Including tracks in social and environmental issues; law, politics and the economy; and gender, ethnicity and culture.
- Sociology

HOW TO APPLY

The priority application deadline is May 15 for Summer Quarter admission and July 15 for Autumn Quarter.

Applications for business majors are accepted only once a year, by April 10.

For more information about the UW Evening Degree Program, call 543-6160.

TTY: 543-6452; email: evedeg@u.washington.edu
http://weber.u.washington.edu/evedeg

- A UW adviser is ready to help you

Call (206) 543-6160 to talk with a UW adviser. An adviser can help you resume your studies, select your major and reach your educational goal. Advisers are available for appointments Monday through Thursday until 7 p.m. and Friday until 5 p.m.

Learn more about the undergraduate majors

Attend an open house on Thursday, May 1, 5-7 p.m. in Kane Hall, Walker-Ames Room, on the UW campus.

Advisers for each evening degree major will be available at the open house to answer questions about admission requirements and the curriculum.
Earn an evening graduate degree

You can continue working and earn a master’s or Ed.D. degree through the UW Evening Degree Program on the Seattle campus. Students in these graduate programs acquire new knowledge and skills for professional advancement and career change.

- **Master of Business Administration (M.B.A.)**
  Information meetings: First Thursday of every month, 4:30 p.m., Mackenzie Hall, Room 110, UW campus.*

- **Professional Master in Computer Science and Engineering**

- **Master’s Degree in Construction Management**
  Information meeting: Wednesday, May 21, 6-7 p.m., Kane Hall, Walker-Ames Room, UW campus.*

- **Master of Education**

- **Doctorate of Education**
  Degrees offered through Educational Leadership and Policy Studies, with an emphasis on higher education. Designed for those seeking leadership positions in postsecondary or higher education institutions. Degrees do not lead to teaching certificates.

- **Master of Librarianship (MLS)**

- **Master of Professional Accounting in Taxation (M.P.Acc.)**

- **Master of Public Administration (M.P.A.)**

- **Master of Social Work (M.S.W.)**

**IMPORTANT DATES**

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<td>Computer Science and Engineering</td>
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<td>Construction Management</td>
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<tr>
<td>Social Work</td>
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* To request disability accommodations, please contact the UW Disability Services Office as soon as possible, 543-6450 (voice), 543-6452 (TTY), 685-3883 (fax) or access@uw.washington.edu (email).
UW Distance Learning

Earn University Credit Off-Campus

Technology can enhance your learning

• Convenient
  Study where you are, without coming to campus.

• Communicate easily with your instructor
  Easy-to-use e-mail and voice mail options are available. You receive prompt answers to your questions and feedback on your assignments.

• Credits toward degrees
  Earn credits to apply toward a degree or to prepare for UW admission.

• Open enrollment
  Enroll anytime and complete courses in three months; you can have three additional months if you need extra time to finish. University admission is not required to take UW Distance Learning courses.

• University of Washington quality
  Offerings consist primarily of credit courses approved by the faculty curriculum committee. Non-credit courses are also offered with the approval of academic units. The UW has offered distance learning courses since 1915.

• Complete courses at your own pace
  Distance learning allows motivated students to progress quickly through an academic course of self-paced instruction.

• Designed by UW faculty
  In many instances, you can work with the UW instructor who teaches the same course on campus. Instructors have been approved by the appropriate academic units.

• Career advancement
  UW Distance Learning courses can help you update your professional knowledge for job advancement.

• Reasonable cost
  Tuition is $74 per undergraduate credit ($77 effective July 1) for all students, including residents of other states and countries.

Many of the existing courses and new courses being developed by UW Distance Learning have incorporated innovations in technology to enhance learning:

VIDEO COURSES
• Introduction to Sociology of Deviance (SOC C271)
• Elementary Spanish (SPAN C101)
• Romanesque, Gothic and Renaissance Architecture (ARCH C351)

ONLINE COURSES
• Adaptive Computer Technology (REHAB C494/EDC&I C494)
• Certificate Program in C Programming: A series of noncredit courses
• Communication Augmentation for Non-Speaking Individuals (SPHSC C453/REHAB C458)
• Composition: Exposition (ENGL C131)
• Intermediate Expository Writing (ENGL C281)
• Using the Internet for Curriculum Development (EDC&I C494/LIBR C498)
• Greek and Roman Mythology (CLAS C430)
• Ethnicity, Gender and Media (CMU C489)

To request a UW Distance Learning catalog, call 543-2320 or 1-800-543-2320, or visit the Web site at http://weber.u.washington.edu/~distance
Accounting
ACCTG C210 Introduction to Accounting (3) William Wells CSN2010
ACCTG C220 Fundamentals of Managerial Accounting (3) Tim McCordle CSN2018

American Ethnic Studies
AES C489 Ethnicity, Gender and Media (5) Gerald Baldasty CSN1810 (R$11)

American Indian Studies

Anthropology
ANTH C100 Introduction to Anthropology (5) Leslie Johnson CSN1827
ANTH C202 Principles of Sociocultural Anthropology (5) Leslie Johnson CSN1828 (R$5, V$35)

Architecture
ARCH C351 Romanesque, Gothic and Renaissance Architecture—A video course (3) William Folkestad CSN1829 (V$40)

Astronomy
ASTR C101 Astronomy (5) Kalpana Gilroy CSN1830
ASTR C150 The Planets (5) Kalpana Gilroy CSN1831

Atmospheric Science
ATM S C101 Weather (5) Janice DeCosmo CSN1832

Business Communications
B CMU C301 Basic Written Business Communications (4) Jack Whelan CSN1833

C Programming
C PROG C704 C Programming: Introduction and Intermediate—An online course This is the first course in the certificate program. (4 Continuing Education Units [CEUs]; not offered for academic credit) Kendal Bryant. Fee: $399 (includes a $40 nonrefundable certificate program fee; Internet access required) CSN2011

Chemistry
CHEM C115 Chemistry for Life (5) Sara Sefte CSN1837
CHEM C140 General Chemistry (4) Kristina Peterson CSN1838 (R$22, T$10)
CHEM C150 General Chemistry (4) Kristina Peterson CSN1839 (R$26, T$10)

Classics
CLAS C430 W Greek and Roman Mythology (5) Alain Gowing CSN1796

Communications
CMU C340 History of Mass Communication (5) Gerald Baldasty CSN1840
CMU C341 Government and Mass Communication (5) Richard Kielland CSN1789 (email required) (R$9)
CMU C440 W Mass Media Law (5) David Danner CSN1809
CMU C489 Ethnicity, Gender and Media (5) Gerald Baldasty CSN1791 (R$11)

Comparative History of Ideas
CHID C110 W The Question of Human Nature (5) James Cloves CSN1796 (R$30, V$15)

Comparative Literature
CLIT C211 W Literature and Culture (5) Inger Gilbert CSN1834
CLIT C375 W Images of Women in Literature (5) Inger Gilbert CSN1764

Economics
ECON C200 Introduction to Microeconomics (5) Brian Anness CSN1843
ECON C201 Introduction to Macroeconomics (5) Brian Anness CSN1735
ECON C300 Intermediate Microeconomics (5) Eva Tanlapco CSN1844

Education
EDC&I C494 Workshop in Improvement of Curriculum: Using the Internet for Curriculum Development—An online course (5) Linda Baker CSN1808 (email required) Also offered as LIBR C494, see Library.
EDC&I C494 Workshop in Improvement of Curriculum: Adaptive Computer Technology—An online course (5) Sheryl Burgstahler CSN1991 (V$20, email required) Also offered as REHAB C494, see Rehabilitation Medicine.

Engineering
ENGR C231 Introduction to Technical Writing (3) Christi Ruscigno CSN1870
TC C401 Style in Scientific and Technical Writing (3) Susan Rhodes CSN1940 (R$10)

English
ENGL C131 Composition: Exposition—An online course (5) Linda Avraamides CSN1846
ENGL C200 Reading Literature (5) Alan Fisher CSN1847
ENGL C225 W Shakespeare (5) Charles Frey CSN1848
ENGL C242 Reading Fiction (5) Malcolm Griffith CSN1849
ENGL C250 W Introduction to American Literature (5) John Griffith CSN1707

New Certificate Programs through UW Distance Learning
The following certificate programs are now offered through UW Distance Learning:

C Programming An intensive series of noncredit courses covering program design and organization. C Courses are taught through access to a Web site. Register now for courses listed on this page.
Project Management Beginning in autumn 1997, this new program stresses the development of practical skills essential to the successful management of complex projects in a variety of organizational environments. For complete details when they become available, call (206) 543-5220 and get on the Project Management waiting list.
School Library Media Specialist Designed for educators in the Pacific Northwest who want to become library media specialists and/or prepare for the CELTA/ESL program at the university and distance learning courses. For details, call (206) 543-2520 and request a brochure.
Writing Program: Literary Fiction A sequence of noncredit courses designed for those who want to develop their fiction writing skills in a disciplined, structured and supportive program. Participants work closely with published authors using telephone conferencing, audio cassettes and e-mail as they write, revise and polish their work. Register now for courses on page 163.
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<td>Math for Elementary School Teachers (3) Shana D. Calaway</td>
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<tr>
<td>MATH C307</td>
<td>Introduction to Differential Equations (3) James Baxter</td>
<td>CSN1904 (R$45)</td>
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<tr>
<td>MUSIC C331</td>
<td>History of Jazz (3) Tom Collier</td>
<td>CSN1907        (R$10, T$43)</td>
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<tr>
<td>NUTR C300</td>
<td>Nutrition for Today (3) Barbee Tucker</td>
<td>CSN1908 (R$4)</td>
<td>Also offered as FD SC C300, see Food Science.</td>
<td></td>
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<tr>
<td>OCEAN C101</td>
<td>Survey of Oceanography (5)</td>
<td>Richard Strickland</td>
<td>CSN1910 (V$15)</td>
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<tr>
<td>OEC C200</td>
<td>Introduction to Law (5)</td>
<td>Lorraine Goldberg</td>
<td>CSN2009 (V$15)</td>
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<tr>
<td>PHIL C115</td>
<td>Practical Reasoning (5)</td>
<td>Rosemary Boyle</td>
<td>CSN1962</td>
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<tr>
<td>PHIL C120</td>
<td>Introduction to Logic (5)</td>
<td>David Adams</td>
<td>CSN1963</td>
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<tr>
<td>POL S C101</td>
<td>W Introduction to Politics (5)</td>
<td>Douglas Baker</td>
<td>CSN1913 (V$15 rental)</td>
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</tbody>
</table>
POL S C305  W The Politics of Mass Communication in America (5) Tom Berry CSN1797 (R$24, V$15 rental)

POL S C383  W Environmental Politics and Policy (5) Sarah Pralle CSN1976

Psychology

PSYCH C101  W Psychology as a Social Science (5) Virginia Gunderson CSN1916

PSYCH C205  W Introduction to Personality and Individual Differences (4) Jonathon Brown CSN1964

PSYCH C209  W Fundamentals of Psychological Research (4) Penny Yee CSN1910 (R$5)

PSYCH C213  Elementary Psychological Statistics (6) Nona Phillips CSN1919

PSYCH C305  W Abnormal Psychology (5) Ana Marie Cauce CSN1920

PSYCH C306  W Developmental Psychology (5) Virginia Gunderson CSN1965 (V$12)

PSYCH C322  Introduction to Drugs and Behavior (3) CSN1922 (R$4)

PSYCH C345  W Social Psychology (5) Jonathon Brown CSN1923

PSYCH C355  Survey of Cognitive Psychology (5) Penny Yee CSN1924

PSYCH C415  W Personality Development of the Child (5) Gregory Fierce CSN1925

Rehabilitation Medicine

REHAB C458  Communication Augmentation for Non-Speaking Individuals—An online group start course beginning June 23 (3) Patricia Dowden CSN1990 (V$20, email required) Also offered as SPHSC C453, see Speech and Hearing Sciences.

REHAB C496  Adaptive Computer Technology—An online course (3) Kurt Johnson CSN1990 (V$20, email required) Also offered as EDC&I C494, see Education.

Comparative Religion

RELIG C202  W Introduction to World Religions: Eastern Traditions (5) Linda Illis CSN1928

Sociology

SOC C110  Survey of Sociology (5) Virginia Paulsen CSN1807

SOC C271  W Introduction to the Sociology of Deviance—A video course (5) George Bridges and Kristin Bates CSN1785 (V$60 rental)

SOC C352  The Family (5) Beth Weinstein CSN1761 (R$5.25)

SOC C371  W Criminology (5) Jana Pershing CSN1922

Spanish

SPAN C101  Elementary Spanish (5)* Rita Wirkala CSN1948 (R$45, V$60 rental, voice mail $12)

SPAN C102  Elementary Spanish (5)* Ganesh Basdeo CSN1934 (T$24)

SPAN C103  Elementary Spanish (5)* Ganesh Basdeo CSN1935 (T$32)

SPAN C201  Intermediate Spanish (5) Rita Wirkala CSN1936 (T$30)

Speech Communication

SP C102  Speech, the Individual and Society (5) Gerry Philipse CSN1682

SP C220  Introduction to Public Speaking—A group start course beginning April 7 (5) Jane Macoubri CSN1987 (V$15) Interact with other students and the instructor through email, telephone and three Saturday (May 3, 31 and June 28) group sessions on the UW campus. (email required)

Speech and Hearing Sciences

SPHSC C453  Communication Augmentation for Non-Speaking Individuals—An online group start course beginning June 23 (3) Patricia Dowden CSN1993 (email required) Also offered as REHAB C458, see Rehabilitation Medicine.

Statistics

STAT C220  Basic Statistics (5) James Baxter CSN1961

STAT C311  Elements of Statistical Methods (5) Joel Reynolds CSN1939

Technical Communication

ENGR C231  Introduction to Technical Writing (3) Christi Ruscigno CSN1870

TC C401  Style in Scientific and Technical Writing (3) Susan Rhodes CSN1940 (R$10)

University Conjoint

UCONJ C440  Biological Aspects of Aging (3) Ruth Craven CSN1941

UCONJ C442  Social and Cultural Aspects of Aging (3) Martha Richards CSN1942 (R$10)

Writers’ Program

For complete details about the Writers’ Program, please call 543-3230 and request a brochure.

WRI FIC C105  Introduction to Literary Fiction Writing—First course in the Writers’ Program: Literary Fiction series (3 Continuing Education Units, not offered for academic credit) David Downing CSN1820 Fee: $315 (includes a $40 nonrefundable certificate fee).

WRI FIC C110  Intermediate Literary Fiction Writing: The Short Story (3 Continuing Education Units, not offered for academic credit) k. Margaret Grossman CSN1821 Fee: $279

WRI FIC C111  Intermediate Literary Fiction Writing: The Novel (3 Continuing Education Units, not offered for academic credit) Carol Orlock CSN1967 Fee: $279

Women Studies

WOMEN C489  Ethnicity, Gender and Media (5) Gerald Baldasty CSN1811 (R$11)

Registration and Fees

How to Register

To register by mail, complete the registration form on the next page. To register by phone using VISA or MasterCard, call (206) 543-2310 or 1-800-543-2320, Mondays through Thursdays, 9 a.m.-7 p.m., or Fridays, 9 a.m.-5 p.m. Please specify the course schedule number (CSN) when registering. Students have three months to complete a course with the possibility of a three-month extension.

Fees

The cost of noncredit courses is shown with the course information. Undergraduate credit courses cost $74 per credit; graduate courses are $175 per credit. Effective July 1, fees are $77 per undergraduate credit and $182 per graduate credit. All students pay a nonrefundable $15 registration fee each quarter that they register. Credits are shown in parenthesis after the course title. There is a $60 nonrefundable fee to receive a Uniform Access account which provides access to email and the Internet. Any supplemental fees for tapes (T), readings (R), lab kits (L) and videos (V) are at the end of each course listing. In addition, most courses require the purchase of textbooks from the University Book Store (details will be included with your registration confirmation). For descriptions or additional information on optional supplemental materials, call 543-2320. Full refunds minus the $15 registration fee and study guide cost are available if you withdraw within 15 calendar days of registration.

163
# Registration Form for UW Distance Learning

(Only for UW Distance Learning courses listed on pages 161-163.)

Mail completed form and fees to:
UW Extension Registration Services
5001 25th Ave. NE
Seattle, WA 98105-4190

To request disability accommodations, contact the UW Disability Services Office,
543-6450 (voice), 543-6452 (TTY), 685-3885 (fax) or access@u.washington.edu (email).

- Mr.
- Ms.

Name (Last) (First) (Middle)

Check highest level of education completed:
- 1. High school
- 2. Some college
- 3. Baccalaureate degree
- 4. Graduate study

Why are you taking this course?
- 5. To complete degree
- 6. To fulfill state teaching requirement
- 7. Professional certification and advancement
- 8. General interest

For office use only
DANTES
UWSA
Balance due
Refund

ID number
office phone mail
(mall date)

Bookstore order no.
Date book ordered
Amount

<table>
<thead>
<tr>
<th>Course information</th>
<th>Course 1</th>
<th>Course 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department name/course number</td>
<td></td>
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</tr>
<tr>
<td>Course number (4-digit CSN)</td>
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<tr>
<td>Type of credit requested (check one)</td>
<td>numeric</td>
<td>S/NS</td>
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<tr>
<td>numeric</td>
<td>S/NS</td>
<td>audit</td>
</tr>
<tr>
<td>Number of credits/CEUs</td>
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<td></td>
</tr>
<tr>
<td>Course fee: $74/undergraduate credit¹ (Effective July 1: $77/undergraduate credit)</td>
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</tr>
<tr>
<td>Supplemental materials</td>
<td>Tapes</td>
<td>Readings</td>
</tr>
<tr>
<td>Uniform Access account ($60/six months)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Foreign postage²</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total course cost (Not including registration fee)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: UW Distance Learning reserves the right to adjust fees, discontinue courses or change instructors as circumstances warrant.

¹Graduate fees are higher. See page 163.
²Foreign postage must be paid by students living outside the United States, Canada or Mexico when lessons and materials are to be sent through international mail.

The postage fee is $15 for 1–3 credits and $25 for 4 or more credits.

---

**Fee summary**

<table>
<thead>
<tr>
<th>Fee</th>
<th>Amount</th>
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<tbody>
<tr>
<td>Course 1 total cost:</td>
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<tr>
<td>Course 2 total cost:</td>
<td>+ $</td>
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<tr>
<td>Registration fee:</td>
<td>+ $ 15</td>
</tr>
<tr>
<td>Total paid:</td>
<td>$</td>
</tr>
</tbody>
</table>

**Method of payment**

All fees must be paid at the time of registration.

- Check (made payable to the University of Washington)
- Third-party payer—separate document (purchase order or letter of authorization to bill) must accompany registration form.
- VISA
- MasterCard

Card number
Expiration date

Name as it appears on card

Note: UW Distance Learning reserves the right to adjust fees, discontinue courses or change instructors as circumstances warrant.

¹Graduate fees are higher. See page 163.
²Foreign postage must be paid by students living outside the United States, Canada or Mexico when lessons and materials are to be sent through international mail.

The postage fee is $15 for 1–3 credits and $25 for 4 or more credits.
### Guide to Classroom Locations

The three-letter abbreviation is spoken on STAR accompanied by the classroom number when the list schedule transaction (L#) is selected. The classroom abbreviation is also printed with the accompanied by the classroom number when the classroom locations which are linked to a readable map. Click on the building to display its location on the campus map.

<table>
<thead>
<tr>
<th>ACC</th>
<th>Academic Computing Center (12-C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADM</td>
<td>Administration Building (9-G)</td>
</tr>
<tr>
<td>ALB</td>
<td>Allen Library (9-I)</td>
</tr>
<tr>
<td>AND</td>
<td>Anderson Hall (13-I)</td>
</tr>
<tr>
<td>ARC</td>
<td>Architecture Hall (10-F)</td>
</tr>
<tr>
<td>ART</td>
<td>Art Building (6-3)</td>
</tr>
<tr>
<td>ATG</td>
<td>Atmospheric Sciences-Geophysics Building (11-G)</td>
</tr>
<tr>
<td>BAG</td>
<td>Bagley Hall (11-H)</td>
</tr>
<tr>
<td>BCL</td>
<td>Botany Greenhouse (13-G)</td>
</tr>
<tr>
<td>BLD</td>
<td>Blood Hall (14-I)</td>
</tr>
<tr>
<td>BLM</td>
<td>Blumber Hall (5-I)</td>
</tr>
<tr>
<td>BMM</td>
<td>Burke Memorial Museum (4-F)</td>
</tr>
<tr>
<td>BNS</td>
<td>Benson Hall (12-G)</td>
</tr>
<tr>
<td>BRY</td>
<td>Bryant Building (13-B)</td>
</tr>
<tr>
<td>CDH</td>
<td>Center on Human Development and Disability (18-I)</td>
</tr>
<tr>
<td>CHL</td>
<td>Chemistry Library Building (12-H)</td>
</tr>
<tr>
<td>CDJ</td>
<td>Condor Hall (8-B)</td>
</tr>
<tr>
<td>CLF</td>
<td>3731 University Way, NE (13-D)</td>
</tr>
<tr>
<td>CLK</td>
<td>Clark Hall (7-J)</td>
</tr>
<tr>
<td>CMA</td>
<td>Ceramic and Metal Arts Building*</td>
</tr>
<tr>
<td>CMU</td>
<td>Communications Building (9-P)</td>
</tr>
<tr>
<td>CNH</td>
<td>Canoehouse (18-N)</td>
</tr>
<tr>
<td>COQ</td>
<td>Center for Quantitative Sciences in Forestry, 3731 University Way NE (13-D)</td>
</tr>
<tr>
<td>COH</td>
<td>Children's Hospital</td>
</tr>
<tr>
<td>CON</td>
<td>Cheap Shellhouse (13-N)</td>
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<tr>
<td>CTU</td>
<td>Clinical Training Unit (within CDC) (18-I)</td>
</tr>
<tr>
<td>DENT</td>
<td>Denney Hall (6-G)</td>
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<tr>
<td>DSC</td>
<td>Drama Scene Shop, 3941 University Way NE (10-D)</td>
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<tr>
<td>ECC</td>
<td>Ethnic Cultural Center (10-C)</td>
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<tr>
<td>EDP</td>
<td>Edmundson Pavilion (13-L)</td>
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<td>EEB</td>
<td>Electrical Engineering Building (12-J)</td>
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<td>EEU</td>
<td>Experimental Education Unit (within CDH) (18-I)</td>
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<tr>
<td>EGA</td>
<td>Engineering Annex (11-K)</td>
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<td>EGL</td>
<td>Eagle Hall (6-E)</td>
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<td>ELB</td>
<td>Engineering Library (10-K)</td>
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<tr>
<td>FIS</td>
<td>Fisheries Center (T-G)</td>
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<tr>
<td>FLK</td>
<td>Fluke Hall (9-L)</td>
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<tr>
<td>FRH*</td>
<td>Friday Harbor Laboratories</td>
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<td>FTR</td>
<td>Fisheries Teaching and Research Building (13-B)</td>
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<tr>
<td>GA1</td>
<td>Guthrie Annex 1 (11-E)</td>
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<tr>
<td>GA2</td>
<td>Guthrie Annex 2 (11-E)</td>
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<tr>
<td>GA3</td>
<td>Guthrie Annex 3 (10-E)</td>
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<tr>
<td>GDR*</td>
<td>Golf Driving Range</td>
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<tr>
<td>GH1*</td>
<td>Group Health Hospital</td>
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<tr>
<td>GLD</td>
<td>Gould Hall (10-D)</td>
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<tr>
<td>GRB</td>
<td>Gerberding Hall (Administration) (9-G)</td>
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<tr>
<td>GTH</td>
<td>Guthrie Hall (11-F)</td>
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<tr>
<td>GUG</td>
<td>Guggenheim Hall (11-I)</td>
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<tr>
<td>GWN</td>
<td>Gowen Hall (8-H)</td>
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<tr>
<td>HAG</td>
<td>Henry Art Gallery (6-E)</td>
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<tr>
<td>HCK</td>
<td>Hitchcock Hall (13-F)</td>
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<tr>
<td>HHI</td>
<td>Harris Hydraulics Laboratory (16-F)</td>
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<td>HMC*</td>
<td>Harborview Medical Center</td>
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<td>HND</td>
<td>Henderson Hall (10-A)</td>
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<tr>
<td>HPT</td>
<td>Hughes Penthouse Theater (3-H)</td>
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<tr>
<td>HRC</td>
<td>Fred Hutchinson Cancer Research Center</td>
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<td>HSA</td>
<td>Health Sciences Center wings A, B, and C (15-H)</td>
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<tr>
<td>HSB</td>
<td>Health Sciences Center wings AA and BB (16-G)</td>
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<tr>
<td>HSI</td>
<td>Health Sciences Center wings D, E, F, and G (15-G)</td>
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<td>Health Sciences Center wings F (15-G)</td>
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<tr>
<td>HUB</td>
<td>Student Union Building (9-J)</td>
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<tr>
<td>HUT</td>
<td>Hutchinson Hall (4-I)</td>
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<tr>
<td>ICH</td>
<td>Cunningham Hall (11-F)</td>
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<tr>
<td>ICT</td>
<td>Instructional Center/Theater (10-C)</td>
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<tr>
<td>IMA</td>
<td>Intramural Activities Building (11-N)</td>
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<tr>
<td>JHA</td>
<td>Johnson Annex A (10-G)</td>
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<td>JHN</td>
<td>Johnson Hall (10-H)</td>
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<tr>
<td>KIN</td>
<td>Kincaid Hall (12-F)</td>
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<td>KNE</td>
<td>Kane Hall (8-G)</td>
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<td>Lewis Annex 1 (5-K)</td>
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<td>MAR</td>
<td>Marine Studies Building (16-D)</td>
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<tr>
<td>MEB</td>
<td>Mechanical Engineering Building (11-K)</td>
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<td>MGH</td>
<td>Mary Gates Hall, formerly Physics Hall (10-H)</td>
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<tr>
<td>MKZ</td>
<td>Mackenzie Hall (5-I)</td>
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<td>MNY</td>
<td>Meany Hall (9-F)</td>
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<td>MUE</td>
<td>Mueller Hall (14-J)</td>
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<tr>
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<td>Music Building (7-J)</td>
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<td>NCC</td>
<td>Not on Campus</td>
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<td>Nuclear Physics Laboratory (4-L)</td>
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<td>NRB</td>
<td>Nuclear Reactor Building (12-K)</td>
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<td>OBS</td>
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<td>OCB</td>
<td>Oceanography Barge (16-E)</td>
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<td>OCE</td>
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<td>ORB</td>
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<td>OTB</td>
<td>Oceanography Teaching Building (15-E)</td>
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<td>OUG</td>
<td>Odegaard Undergraduate Library (8-F)</td>
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<td>PAB</td>
<td>Physics-Astronomy Building (11-E)</td>
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<td>PAR</td>
<td>Parrington Hall (7-F)</td>
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<td>Padelford Hall (8-K)</td>
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<td>PHY</td>
<td>Physics Building (see MGH-Mary Gates Hall (10-H))</td>
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<td>PLT</td>
<td>Plant Laboratory (13-G)</td>
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<tr>
<td>PSC</td>
<td>Pacific Science Center</td>
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<td>PTH</td>
<td>Playhouse Theater (3-H)</td>
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<td>RA1</td>
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<td>ROB</td>
<td>Roberts Hall (13-J)</td>
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<td>SAY</td>
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<td>SIG</td>
<td>Sieg Hall (10-I)</td>
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<td>SUZ</td>
<td>Suzzallo Library (9-H)</td>
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<tr>
<td>SWS</td>
<td>Social Work/Speech and Hearing Sciences Building (7-E)</td>
</tr>
<tr>
<td>TGB</td>
<td>Graves Building (12-M)</td>
</tr>
<tr>
<td>THO</td>
<td>Thomson Hall (8-I)</td>
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<tr>
<td>TLI</td>
<td>UW Tacoma Campus</td>
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<tr>
<td>UMC</td>
<td>University Medical Center wings CC, EE, NE, NN, NW, SE, SS, and SW (16-H)</td>
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<td>UME</td>
<td>University Medical Center wings EA, EB, and EC (16-I)</td>
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<tr>
<td>WCL</td>
<td>Wilson Ceramic Laboratory (14-J)</td>
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<td>WFS</td>
<td>Winkenwerder Forest Science Laboratory (14-J)</td>
</tr>
<tr>
<td>WIL</td>
<td>Wilcox Annex (13-K)</td>
</tr>
</tbody>
</table>

### Cafes and Food Services

The following cafes and food service facilities are located throughout the campus and are open to the public. Hours of operation vary. Places designated by ♦ accept All Aboard™ plus accounts.

- **Boise Café**: Burke Museum (3-F)
- **By George**: Odegaard Undergraduate Library (6-E)
- **Court Café**: Health Sciences E-Wing (4-G)
- **Design Coffee Shop**: Gould Hall (10-D)
- **IL-Bar**: Physics-Astronomy Building (11-E)
- **Hanky Don Student Union Building**: The PUB (4-I)
- **Market Place**: McMahon Hall (6-L)
- **Overpass Espresso**: Health Sciences T-Wing (15-G)
- **Parnassus Café**: School of Art Building (6-I)
- **Portage Bay Café**: South Campus Center (16-F)
- **Rotunda**: Health Sciences H-Wing (15-G)
- **Terry Café**: Terry Linder Hall (9-B)

*Off-campus facilities

(!) Map coordinates
To request disability accommodation in the application process, contact the Office of Admissions at the University of Washington in U.S. funds. Applications will be processed as soon as possible. However, due to the volume of applications received, processing time may take four to six weeks.

A $35 nonrefundable application fee must accompany the application. Make check or money order payable to the University of Washington, Registration, 225 Schmitz Hall, Box 358580, Seattle, WA 98195-5850.

If you have never attended UW credit classes: University of Washington, Office of Undergraduate Admissions, 320 Schmitz Hall, Box 358540, Seattle, WA 98195-5840.

If you have previously attended UW credit classes and have been assigned a student I.D. number: University of Washington, Registration, 225 Schmitz Hall, Box 358580, Seattle, WA 98195-5850.

A $35 nonrefundable application fee must accompany the application. Make check or money order payable to the University of Washington, Registration, 225 Schmitz Hall, Box 358580, Seattle, WA 98195-5850.

To request disability accommodation in the application process, contact the Office of Admissions at (206) 543-9686 (voice) or 1-800-833-6388 (Washington State Relay Service TDD).

Indicate which campus you wish to attend: □ Bothell □ Seattle □ Tacoma

1. Social Security number (optional, but aids processing) □ Male □ Female

3. Legal name (last) (first) (middle)

5. Mailing address (street and number) City State ZIP code

6. Permanent address (if different from above) City State ZIP code

7. Home telephone (area code and number) Business telephone (or alternate telephone)

8. Date of birth (month/day/year) Place of birth

9. Are you a veteran? □ Yes □ No

10. Are you a Washington resident? □ Yes □ No If not, what is your home state?

11. If UW or state classified employee, will you be attending on the tuition exemption program? □ Yes □ No If yes, please list place of employment (UW or state)

12. Have you ever enrolled for a credit course at UW? □ Yes □ No If yes, (Student number) (Last quarter and year enrolled) (Major)

13. Have you earned a bachelor's degree at another college? □ Yes □ No If yes, (Name of degree) (College issuing degree) (Date)

14. Last school attended:

15. Will you still be enrolled in high school in 1997-98? □ Yes □ No If yes, the following materials must be included with this application:

A. A statement from your high school principal or counselor giving permission for you to attend Summer Quarter.

B. A copy of your high school transcript (Note: a 3.30 GPA is required.)

16. (Optional) What race do you consider yourself to be?

White/Caucasian (including Middle Eastern) □ Black/African American □ American Indian/Alaska Native (Specify tribal/corporate affiliation) □ Other (Specify) □ Asian or Pacific Islander (API) □ Asian Indian □ Chinese □ Filipino □ Guamanian □ Hawaiian □ Japanese □ Korean □ Samoan □ Vietnamese □ Other API (Specify)

Are you of Spanish/Hispanic origin? □ Yes □ No If yes, the following materials must be included with this application:

A. A statement from your high school principal or counselor giving permission for you to attend Summer Quarter.

B. A copy of your high school transcript (Note: a 3.30 GPA is required.)

17. In signing this form, I certify that the above information is complete and accurate. Failure to disclose complete and accurate information may result in denial of admission or dismissal from the University.

Full legal signature

Date

*If you have never attended the University or are not eligible to return to the University in the admission status you were in when last registered here, you will be admitted as a nonmatriculated student for Summer Quarter only. You will not be eligible to continue as a nonmatriculated student in Autumn, Winter or Spring Quarters.
Make progress
toward your degree
this summer

University of Washington

- Choose from over 1,000 courses offered in 100 different fields of study.
- Earn a year’s language credit in nine weeks by completing an intensive summer language course.
- Out-of-state residents pay in-state fees.
- With fewer students enrolled during the summer, class size is often smaller.
- UW Distance Learning courses let you earn credits from home.