Seattle 1992
June 22-August 21 Full Term
June 22-July 22 a Term
July 23-August 21 b Term
Study at the UW this summer

Summer is a special time to learn at the University of Washington. There is no summer enrollment limit, so admission is open to all qualified applicants. Continuing UW students, Washington residents, students from other universities and colleges and residents of other states and countries are welcome to attend.

Choose from over 1,500 courses

The UW offers one of the nation's largest summer programs, including more than 1,500 courses in over 100 fields of study. Many classes and workshops described in this bulletin are scheduled only in the summer. You can earn up to a year's language credit in nine weeks by completing an intensive summer language course. Many courses are scheduled for educators seeking certification and endorsements.

Short terms are available

Four and one-half-week a and b terms are available in addition to the full nine-week summer term. Many special summer institutes and workshops are scheduled for even shorter periods. Some classes that are open only to majors in other quarters may be taken by nonmajors in the summer.

In-state fees for most courses

Residents and nonresidents pay in-state fees in the summer except for courses offered by the medical and dental schools.

It's easy to apply and register

If you haven't already applied, simply complete the application on the inside back cover of this bulletin. You may register by touch-tone telephone (starting April 27), once you are notified of admission.

Continuing UW students enrolled for Spring Quarter 1992 do not need to apply for Summer Quarter. Use the Summer Quarter Time Schedule in this bulletin and register by STAR the same way as for any other quarter.

Summer Quarter 1992 sessions

- June 22- Aug. 21 Full Term
- June 22-July 22 a Term
- July 23-Aug. 21 b Term
Summer Quarter Quick Reference

Overview

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Student Action Guide ........................................................ 122
Time schedule information ................................................. 72

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, you do not need to complete this application.

2. Mail the application with a nonrefundable application fee of $25 (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.

   • If you have never attended UW credit classes, mail to:
     Office of Admissions, PC-30
     320 Schmitz Hall
     University of Washington
     Seattle, WA 98195

   • If you have previously attended UW credit classes and have been assigned a student I.D. number, mail to:
     Registration, PD-10
     225 Schmitz Hall
     University of Washington
     Seattle, WA 98195

3. You may register by touch-tone telephone as soon as you receive notification of acceptance but not before April 27, 1992. See STAR registration instructions, pages 126-127.

See Admissions, pages 118-120, or call Summer Quarter Academic Advising, (206) 543-6160, for additional information.

*Continuing UW students enrolled for Spring Quarter 1992 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 1992

April 27 STAR registration by phone begins for Summer Quarter
June 1 Last day applications accepted by mail; later applications accepted in-person only
June 22 Full Term and a Term classes begin; students billed for Summer Quarter tuition
July 3 Independence Day holiday
July 10 Tuition payment deadline
July 22 a Term ends
July 23 b Term begins
Aug. 21 Full term and b Term end
For other application deadlines and important dates, please refer to the Student Action Guide, pages 122-123.

Course descriptions and time schedule information

Course titles and descriptions are listed in the Course Descriptions section of this bulletin, pages 8-69. Courses offered at branch campuses at Bothell and Tacoma are listed on pages 70-71.

* denotes a Term, June 22-July 22; ♠ denotes b Term, July 23-Aug. 21. Courses without a symbol meet for the full Summer Quarter, June 22-Aug. 21. Specific dates are given for short, intensive workshops which do not meet for entire term lengths. See page 7 for more information on how to read course listings.

The Time Schedule section of this bulletin, pages 73-113, contains the dates and times you need to plan your schedule and the schedule line number (SLN) used when registering by phone using STAR. See page 72 for more information on how to read the time schedule.

Freshmen Summer Start Program

New incoming UW freshmen who want to begin their college careers during the summer may register on a priority basis 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 27. For questions about how the Freshmen Summer Start courses fit into the UW curriculum contact Orientation and Student Services at (206) 543-4905.
University of Washington Administration

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Galen Holmes, Maria Lilja, Tara Locknane, Dave Riedy, and Jennifer Summers

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 University 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 1978, Vietnam Era Veterans' Readjustment Assistance Act of 1974 Chapter 28B.110RCW (prohibits gender discrimination against students), and other federal and state statutes and regulations, and University policy. Coordination of the compliance efforts of the University of Washington with respect to all of these laws and regulations is under the direction of the Equal Employment Officer, Dr. Helen Remick, University of Washington, Equal Employment and Affirmative Action Office, JA-08, 4045 Brooklyn Ave. NE, Seattle, WA 98195. Telephone: 543-1830 (TTYD).
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Refer to the Index on pages 143-144 for detailed listings.

A summer-only application can be found on the inside back cover.
Visiting Faculty

College of Arts and Sciences

Anthropology
Karl G. Heider, Ph.D., Harvard University; faculty, University of South Carolina
314 ◆ Societies and Cultures of Insular Southeast Asia
356 ◆ Visual Anthropology

Art
Akio Takamori, M.F.A., New York State College of Ceramics at Alfred; studio artist
202 ◆ Ceramic Art Wheel Throwing
355 ◆ Intermediate Ceramics

Art History
Irene A. Bierman, Ph.D., University of Chicago; faculty, University of California, Los Angeles
400 ◆ Art History and Criticism

Philosophy
Vrinda Dalmiya, Ph.D., Brown University; faculty, Montana State University, Bozeman
350 ◆ Introduction to Epistemology

Arindam Chakrabarti, Ph.D., Oxford University; faculty, Oxford University
413 ◆ Studies in Indian Philosophy

Ann Baker, Ph.D., University of Washington; faculty, Illinois Wesleyan, Bloomington
363 ◆ Introduction to the Philosophy of Mind

Botany
Charles O'Kelly, Ph.D., University of Washington; faculty, Massey University, New Zealand
545 ◆ Marine Phycology

Classical Archaeology
Lora Johnson, Ph.D., Brown University
342 Roman Art and Archaeology

Economics
Partha Sen, Ph.D., London School of Economics; faculty, Delhi School of Economics, Delhi University, Delhi, India
472 ◆ International Finance

Economics
Partha Sen, Ph.D., London School of Economics; faculty, Delhi School of Economics, Delhi University, Delhi, India
472 ◆ International Finance

Environmental Studies
Connie So, M.P.A., Princeton University; faculty, University of California, Davis
205 Asian American Cultures
206 Contemporary Problems of Asian Americans

History
Noriko Kauamura, Ph.D., University of Washington; faculty, Virginia Military Institute
496C The Changing Relationship Between Japan and America: 1930 to Pearl Harbor
423 History of Modern Japan

International Studies—Canadian Studies
Raymond Hebert, Ph.D., University of Manitoba; faculty, St. Boniface and University of Manitoba
341 ◆ Government and Politics of Canada (Joint with POL S 341)

International Studies—South Asian Studies
Susana de Valles, Ph.D., University of London; faculty, El Colegio de México
490A Special Topics: Comparative Law: Europe, Latin America, and East Asia

Microbiology
John Visick, Ph.D., University of Washington; faculty, University of Puget Sound
301 General Microbiology

Near Eastern Languages and Civilization
Irene A. Bierman, Ph.D., University of Chicago; faculty, University of California, Los Angeles
496B ◆ Islamic Art

Philosophy
Vrinda Dalmiya, Ph.D., Brown University; faculty, Montana State University, Bozeman
350 ◆ Introduction to Epistemology

Arindam Chakrabarti, Ph.D., Oxford University; faculty, Oxford University
413 ◆ Studies in Indian Philosophy

Ann Baker, Ph.D., University of Washington; faculty, Illinois Wesleyan, Bloomington
363 ◆ Introduction to the Philosophy of Mind

Political Science
William Keech, Ph.D., University of Wisconsin, Madison; faculty, University of North Carolina, Chapel Hill
474 Government and the Economy

Psychology
William Ickes, Ph.D., University of Texas, Austin; faculty, University of Texas, Arlington
205 Introduction to Personality and Individual Differences
560 Intersubjective Phenomena
Scandinavian Languages and Literature
Brian B. Magnusson, Ph.D., University of Wisconsin
150 Scandinavian Summer Institute

Slavic Languages and Literature—Bulgarian
Cleo Protopokristova, Ph.D., Sofia University, Fulbright Scholar under Council for International Exchange of Scholars; faculty, Plovdiv University
401, 402, 403 Intensive Elementary Bulgarian

Slavic Languages and Literature—Russian
Edward J. Vajda, Ph.D., University of Washington; faculty, Western Washington University
250 Intensive Second-Year Russian

Statistics
Jesper Moller, Ph.D., University of Aarhus, Denmark; faculty, University of Aarhus, Denmark
578 Special Topics in Spatial Statistics

School of Business
Sharon M. Galbraith, B.Comm., University of Calgary, Calgary, Alberta; M.B.A., Ph.D., University of Washington; faculty, Seattle University
MKTG 301B Marketing Concepts

Steven D. Thrasher, B.B.A., M.B.A., University of Michigan; Ph.D., Northwestern University; faculty, Pacific Lutheran University
MKTG 301A Marketing Concepts

College of Education
Educational Curriculum and Instruction
Carlos Diaz, Ed.D., Florida Atlantic University; faculty, Florida Atlantic University
424 Multicultural Curriculum and Instruction

Jacqueline Irvine, Ph.D., Georgia State; faculty, Emory University, Atlanta
469 Educating the Black Inner-City Child

Diane Monson, Ph.D., University of Minnesota; faculty, University of Minnesota
456 Workshop in Instructional Improvement: Language Arts

Educational Psychology
Schlomo Kaniel, Ph.D., Bar Ilan University; faculty, Bar Ilan University
449B Cognitive Engineering: Learning How to Learn
449C Dynamic Assessment

The Graduate School of Library and Information Science
Dorothy Anderson, Ph.D., Texas Woman’s University; assistant dean, The Graduate School of Library and Information Science, University of California, Los Angeles
498B Interpersonal Communication

Thomas J. Galvin, Ph.D., Case Western Reserve; director, Information Science, Ph.D. Program, State University of New York, Albany
498A Information and Public Policy

Frank G. Houdek, J.D., UCLA School of Law; law library director and professor of law, Southern Illinois University School of Law, Carbondale
577 Law Library Administration

Guy St. Clair, M.S.L.S., University of Illinois; president, OPL Resources, Ltd., Washington, D.C., and current president of the National Special Libraries Association
498CA Managing the One-Person/Minimal Staff Library

Kerry A. Webb, B.A., Australian National University; director, ADP system, National Library of Australia
498DA Information Networks: Local and International

Graduate School of Public Affairs
Frank Chopp, B.A., University of Washington; executive director, Fremont Public Association
511 Management of Not-for-Profit Organizations

Janice Hinman, B.A., University of Washington; media relations consultant
598A Administrative Skills Workshop: Media Relations

Nancy Long, M.P.A., University of Washington; director of planning, marketing and community services, Pacific Medical Center
511 Management of Not-for-Profit Organizations

M. Cash Matheus, Ph.D., University of California, Santa Barbara; vice-president, Northwest Ethics Institute
504 Administrative Ethics

Branch Campuses
Michael J. Broadway, Ph.D., geography, University of Illinois
TLSIN 490 Special Topics: Canada—The People and the Land

Keith L. James, M.A., English, Wayne State University
TLSIN 490 Special Topics: Literature into Film

Steven Schneider, Ph.D., English, University of Iowa
BLSUS 391 Contemporary American Poets
BLSUS 487 Vietnam War in Literature
Guide to Course Descriptions

Symbols

◆ Class meets a Term:
   June 22-July 22
   No symbol: class meets full term
◆ Class meets b Term:
   July 23-Aug. 21
   No symbol: class meets full term
W
   A course number followed by a W indicates that the course is a writing course and partially fulfills the College of Arts and Sciences "W" course 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 single 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.

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 73-113, 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.

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.

Course listing system

Most course descriptions include course number, title, credits given (specific or variable), a statement of subject matter and method, and any prerequisite required. 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).

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 generally are restricted to graduate students.

When acceptable to the graduate program, 300-level courses in a minor or supporting field and 400-level courses may be applied toward the minimum Graduate School requirements of residence and total credit count for the degree.

A student of senior, postbaccalaureate or non-matriculated 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

600, 700 and 800
   Courses numbered 600, 700 and 800 are restricted to students in the Graduate School. They appear by number and title only where applicable under the department course listings. Descriptions for these courses are generally uniform and are listed in the adjacent column in order to eliminate the necessity of repeating them each time the courses appear. The asterisk (*) following the course title indicates the amount of credit is variable. Some 600, 700 and 800 courses are offered on a credit/no-credit-only basis. Call the sponsoring department for more information.

600 Independent Study or Research (*)
   Individual readings or study, including independent study in preparation for doctoral examination, research, etc. Prerequisite: permission of supervisory committee chairperson or graduate program coordinator. The name of the faculty member responsible for supervising the student should be listed on the program of studies. Call the sponsoring department for more information.

601 Internship (*)
   Internship required of students in a graduate degree program other than Doctor of Arts. Prerequisite: permission of supervisory committee chairperson or graduate program coordinator. The name of the faculty member responsible for supervising the student should be listed on the program of studies. Call the sponsoring department for more information.

700 Master's Thesis (*)
   Research for the master's thesis, including research preparatory or related thereto. Limited to graduate students who have not yet completed the master's degree in their major field at the University of Washington. Prerequisite: permission of supervisory committee chairperson or graduate program coordinator. The name of the faculty member responsible for supervising the student should be listed on the program of studies. Call the sponsoring department for more information.

750 Internship (*)
   Internship required of all graduate students in the Doctor of Arts degree program. Call the sponsoring department for more information.

800 Doctoral Dissertation (*)
   Research for the doctoral dissertation, including research preparatory or related thereto. Limited to intermediate graduate students, i.e., those who have completed the master's degree or the equivalent and have been formally admitted into a doctoral degree program or candidate-level graduate students. Premaster students initiating doctoral dissertation research should register for 600. Prerequisite: permission of supervisory committee chairperson or graduate program coordinator. The name of the faculty member responsible for supervising the student should be listed on the program of studies. Call the sponsoring department for more information.
Proficiency and Distribution Index

Distribution Fulfillment Course Index
The following courses, indentified by the letter D in course descriptions in this bulletin, may be taken to meet the University of Washington College of Arts and Sciences distribution requirement:

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Asian American Studies (AAS) 205, 206
Chicano Studies (CHSTU) 201
American Indian Studies (AIS) 240, 377
Anthropology (ANTH) 100, 202, 203, 301
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History of Asia (HISTAS) 221
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Physics (PHYS) 101-102, 110, 114, 115, 116, 117, 118, 119, 121, 122, 123, 131, 132, 133, 224, 225
Political Science (POL S) 101, 201, 202, 203, 204, 212, 270, 321

Psychology (PSYCH) 101, 102, 200, 205, 222, 257, 305, 306, 345, 355, 357
Scandinavian (SCAND) 312
Sociology (SOC) 110, 240, 271, 352, 364
Speech and Hearing Sciences (SPHSC) 300
Speech Communication (SPCH) 102, 220, 334, 373
Statistics (STAT) 220, 311
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Zoology (ZOOL) 118

Proficiency Fulfillment Course Index
The following courses, indentified by the letter P in course descriptions in this bulletin, may be taken to meet the University of Washington College of Arts and Sciences profi­ ciency requirement:

Economics (ECON) 311
English (ENGL) 111, 121, 131, 198, 271
Mathematics (MATH) 111, 112, 124
Philosophy (PHIL) 115, 120
Physics (PHYS) 110
Psychology (PSYCH) 213
Statistics (STAT) 220, 311

Intensive Languages
Earn up to a year's worth of language credit in nine weeks by completing an intensive summer language course. Courses are offered in the following languages:

- Arabic
- Hebrew
- Russian
- Bulgarian
- Hindi
- Russian
- Chinese
- Japanese
- Swedish
- Czech
- Kazakh
- Tajik
- French
- Korean
- Turkish
- Georgian
- Persian
- Uzbek
- German

Guide to Course Descriptions

Distribution fulfillment course index
Proficiency fulfillment course index
Intensive languages
College of Architecture and Urban Planning

College of Architecture and Urban Planning

During Summer Quarter 1992, the College of Architecture and Urban Planning will offer several courses aimed at beginning students, including: Design Drawing (CAUP 498B), Color in the Environment: Applications in Architecture (CAUP 498C), and Environmental Design and Planning I (CAUP 498A).

College of Architecture and Urban Planning (CAUP) B.A. Program

208 Gould Hall, JO-20
Telephone: 543-4217

270 Computers in Environmental Design and Planning (3)

Laboratories, lectures and demonstrations that introduce computing in environmental design and planning, as well as a survey of the primary elements of computing in general. Basic skills development in text and word processing, database management, two- and three-dimensional graphics, land-use mapping and modeling, spreadsheet analysis utilizing VAX, CDC and microcomputer systems. Prerequisite: entry code.

340+ People-Environment Relations (3)

Dynamics of people-environment interactions. An appropriate spectrum of environmental scales will be addressed, building on practical and empirical work of several faculty members in the college.

470+ Society and Environmental Design and Planning Policy (3)

Historical evolution of national environmental policies. Institutional and legal frameworks, the nature and value of policy, and the processes of community/society decision-making at all scales.

496 Practical Experience (3-6, max. 6)

Open only to majors. Prerequisite: entry code. CR/NC only.

498 Special Projects (1-12, max. 12)

A. Introduction to Environmental Design and Planning (6)

Studio, lectures and demonstrations in design and planning processes in the principles of visual structure and organization, and in the fundamentals of the design process. Prerequisites: CAUP 200 or permission of program director.

B. Design Drawing (3)

A video recorded course by Kirby Lockard—ten individual sessions (students can work at their own pace) available through Odegaard Undergraduate Library, Media Center. Support syllabi necessary to complete assignment are available from CAUP office in 208 Gould.

C. Color in the Environment: Applications in Architecture (3)

An introduction to concepts of color, color theory and application in an architectural context. This special course is aimed at the beginning student, but focuses on one area of design to give the student a more specific experience.

Architecture (ARCH)

208 Gould Hall, JO-20
Telephone: 543-4180

151 Appreciation of Architecture II (3)

Historical survey of the architecture of Western civilization. For nonmajors.

313 Introduction to Architectural Photography (2)

Introduction to basic elements and processes of architectural photography to include camera controls, exposure techniques and photo processing. Student must provide own camera with lens, shutter and aperture controls.

314 Introduction to Architectural Drawing (2)

Skill development in conceptualization of forms and their relationships through observation and recording in freehand graphic manner. The course deals with proportion, scale, light effect, value texture and various perspective techniques.

402 Architectural Design III (6)

Registration in these studios permits the student to choose from among a number of separate sections that introduce particular architectural design theories and methodologies. Focus and format vary. Prerequisite: CAUP 401 or permission of instructor.

403 Architectural Problems (6)

Majors only.

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.

426 Structural Unit Masonry (3)

Structural behavior and design of reinforced brick, tile and unit masonry structures. Joint with CESM 487.

452+ Characteristics of Puget Sound Architecture and Towns (3)

Puget Sound architectural and town environment in terms of its historical development, but specifically including recent pending changes affecting this environment in significant ways.

460+ Design Theory and Analysis (3)

Problematic nature of philosophies of architecture; interaction of philosophical concepts and architectural form and expression. Fundamentals of architectural criticism.

498+ Special Projects (1-12)

A. Design Drawing I (4)

Projects, lectures, demonstrations and exercises to develop skills in freehand drawing and an understanding of drawing as a vital means to see, analyze and represent essential aspects of the visual environment.

U. Seminar on Architectural Theories (3)

Recent developments in architectural theory, urban design theory, criticism, and the methodology of criticism. Prerequisite: ARCH 460 or permission.

498A Special Projects (1-12)

B. Design Drawing II (4)

Projects, lectures, demonstrations and exercises to introduce the language of architectural drawing, with emphasis on freehand drawing as the primary means to imagine, explore and develop design ideas. Prerequisite: ARCH 498A.

499 Undergraduate Research (1-6, max. 6)

Entry code required.

503-504-505 Architectural Design Studio Options (6-6-6)

Advanced architectural studies in general architectural design, in special projects examining particular architectural determinants, and in architectural research. Focus and format vary with instructor. Prerequisite: 502.

506 Advanced Architectural Studies (6)

Advanced experimental studies dealing with significant architectural relationships that involve scholarly investigation, development and presentation of results. Majors only.

600 Independent Study or Research (1*)

700 Master's Thesis (1*)

► See the Time Schedule section, pages 73-113, for class dates and times.
Building Construction (B CON)
116 Architecture Hall, AI-15
Telephone: 543-6577

496 Construction Practice (*)
The integration of classroom theory with practical experience through direct on-the-job application for one summer. For majors in building construction with 135 credits completed. Applicants are selected under competitive application during Spring Quarter. CR/NC only.

499 Undergraduate Research (*, max. 12)
Individual or small-group studies in which students may select topics with approval of faculty sponsor and department.

Landscape Architecture (L ARC)
348 Gould Hall, JO-34
Telephone: 543-9240

This summer the Department of Landscape Architecture will offer several courses which are open to nonmajors, each course surveying different aspects of landscape architecture. An introductory design studio and career exploration course (L ARC 300) emphasizes hands-on experience with landscape architecture design concepts and techniques. Design and Graphics Workshop—San Juan Islands (L ARC 498A), a five-day camping field trip to the San Juan Islands, focuses on design and graphic activities in a wide range of outdoor settings. Two new courses, The Making of the English Landscape and Environmental Design Ethics, will be offered. Please contact the department for further course information.

300 Introductory Landscape Architecture Design Studio (6)
Develops basic design and graphic skills. Format includes studio, lectures, field trips and one-day workshops. Students conduct site analysis and produce drawings to convey design concepts. Workshop topics include relationship of visual perception to drawing, the role of values in design, verbal communication and behavioral analysis of the design process. Open to nonmajors.

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

476 Professional Operations (3-6, max. 6)
Practicum course for landscape architecture majors for internship and exposure to the profession with working experiences at various levels of professional endeavor. CR/NC. Majors only.

498+ Special Projects (1-10, max. 30)
A. Design and Graphics Workshop—San Juan Islands (3)
July 20-24 Five-day intensive field trip emphasizing development of graphic and design skills applicable to landscape architecture, art, art history, and related fields. Camps in the San Juan Islands. Prior art history training not required. Required orientation meeting on Friday, July 17, 6-8 p.m. in 142 Gould Hall. Location: Cedar Rock Preserve, Island. Open to nonmajors.

B. The Making of the English Landscape (3)
A lecture course surveying the transformation of the English landscapes from a state of wildness to a modern industrialized country that, until recently, was the center of one of the largest empires in history. Integrates landscape design, architecture and planning and emphasizes the underlying social, political, economic and intellectual forces. All lectures illustrated with slides. No prerequisites required. Open to nonmajors.

C. Environmental Design Ethics (3)
A three-credit seminar exploring the ethical dilemmas facing environmental designers in the Pacific Northwest. The course will involve practitioners in architecture, landscape architecture and urban design and planning. What changes in values and attitudes will we need in the 1990s to be effective now that all of the easy environmental design decisions have been made? The discussion will be appropriate for students, environmental designers and anyone involved in environmental design. CR/NC. Open to nonmajors.

499 Undergraduate Research (1-6)
Individual or small-group studies pertaining to special problems, theories, or issues of landscape architecture and environmental issues. Majors only.

600 Independent Study or Research (*)
601 Internship (3-9, max. 9)
700 Master's Thesis (*)

Urban Design and Planning (URBDP)
410 Gould Hall, JO-40
Telephone: 543-4190

This summer the department is offering a series of courses emphasizing tools and skills used in the practice of urban design and planning and related activities. Open to undergraduates, graduates, and professionals who want to expand their knowledge base and skill level. Courses are short and fast-paced and are scheduled so that several may be taken concurrently in the evenings after work or on a long lunch break.

300 Introduction to Urban Planning (3)
Principles and theories of urban structure and institutions. Concepts and logic of planning as a community process and a professional activity. Evolution of planning ideas in response to changing social, economic, and environmental conditions within the American political framework. Complementary nature of public and private responsibilities. Major procedures used by planners. Prerequisite: junior standing or permission of instructor.

446 Practical Experience (4, max. 8)
Off-campus internship under academic supervision in situations useful to the education of planners, such as public/private planning and design offices, projects related to the environment, cross-cultural matters, and decision making. Assistance in identifying appropriate projects. Prerequisite: permission of instructor.

498 Special Topics (1-9, max. 15)
A. Introduction to GIS and ARC INFO and Remote Sensing (3)
An introductory course for those with little or no experience with Geographical Information Systems (GIS) to the structure, function and application of ARC/INFO, a vector-based GIS. Through hands-on use of ARC/INFO the student will gain an understanding of the terms and concepts used in spatial and visual analysis of land resource information used in planning. The course requires no familiarity with computers yet a willingness to work independently is a must. The class will meet twice a week for lecture and lab assignments. The student should schedule an additional three hours a week for self-directed computer exercises.

E. Macintosh Workshop on Digital Graphic Media (3)
The workshop, using Macintosh IIx machines, is an intensive course in desktop publishing, graphics, presentation, animation and 3D rendering. Some basic introduction to computers required. Course is designed to provide skill development and boost student/professional productivity.

498+ Special Topics (1-9, max. 15)
B. Research and Professional Document Computer Workshop (1)
June 22-July 6 This workshop deals with the organization and full utilization of computer capabilities while working toward thesis, dissertation or professional document preparation. Focus will be on Macintosh applications. Areas to be covered include using special features of Microsoft Word such as outlining, formatting with style sheets, table of contents generation, and tables. Various graphic formats through scanning are also covered. Student must be present for first day of class due to the length of the course. CR/NC. Majors only.
College of Architecture and Urban Planning

C. Campus Planning Seminar (3)
This seminar provides a survey of the history, theory, principles and current approaches to campus and major institutions planning, focusing on case studies involving Seattle area educational and medical institutions. Through lectures, directed readings, class discussions and student preparations, the course addresses the major campus planning and design issues of concern to planners, architects, landscape architects, and administrators. Field trips to several major institutions and guest lectures by practitioners involved with campus planning will be included.

498A Special Topics (1-9, max. 15)
D. Cultural Perspectives on Urbanization: Visions of the American City and Region in Art and Literature (3)
This seminar will study two key periods of American urbanization from an interdisciplinary perspective: the Industrial City of the 1890s and the Great Depression/New Deal era of the 1930s. Key issues to be considered include the transition from rural to urban life; the role of government in social, economic, cultural, and physical planning; social relations of gender, race, class and ethnicity; and reform visions. Works produced by period photographers, artists and novelists, as well as by modern scholars and filmmakers, will provide points of departure for class discussions focusing on the complex relationship between historical images of the American city and region, and past realities.

G. Disaster Mitigation and Planning Workshop (3)
In 1989 Federal Tax payers spent over 2 billion dollars responding to just two natural events—Hurricane Hugo and the Loma Prieta earthquake. Mitigating the affects of such disasters are well known among design professions. Whether or not future events will cause similar damage, hardship and death depends on us, our understanding and our ability to take advantage of this knowledge. This course will expose students within the design community to emergency management concepts and principles. The course consists of modules covering preparedness, response, recovery and mitigation.

499 Special Projects in Urban Planning (*)

546 Practicum (4, max. 8)
Off-campus experience under academic supervision in situations useful to the education of planners, such as planning offices, public bureaucracies, projects related to the environment, cross-cultural matters, and decision making. Assistance in identifying appropriate projects. Offered on credit/no credit basis only. Prerequisite: permission of instructor.

600 Independent Study or Research (*)
700 Master's Thesis (*)
800 Doctoral Dissertation (*)

College of Arts and Sciences

The College of Arts and Sciences offers a broad range of courses centered in the humanities, social sciences, and natural sciences. Students who plan to graduate from the College are expected to fulfill proficiency, distribution, and major requirements.

Numerous courses in English composition, mathematics, and foreign language that may be taken to satisfy the proficiency requirement are offered during Summer Quarter. Special intensive courses are offered in several languages. Students also may choose from a variety of courses in the humanities, social sciences, and natural sciences, which may count toward fulfilling the distribution requirement. In addition, courses for entering freshmen in all departments that offer major fields of study are available.

Recognition of the importance of writing in undergraduate education led to the adoption of a new requirement for students graduating from the College of Arts and Sciences who began college in or after Autumn Quarter 1983. These students must include among their courses 10 credits designated as "W" (writing courses).

For students who have selected a major and who use the summer sessions to hasten the time of their graduation, certain advanced courses are listed in all departments. The upper-division courses are changed each year to bring the necessary variety to students whose attendance is limited to Summer Quarter.

Teachers will find a variety of courses in foreign languages, English, the natural and social sciences, and the fine arts that are directed to their needs and interests.

Américan Ethnic Studies (AES)
B510 Padelford Hall, GN-80
Telephone: 543-5401

American Ethnic Studies courses are offered in:
- Afro-American Studies
- Asian American Studies
- Chicano Studies

American Ethnic Studies is a multicultural and multiracial research, teaching, and service unit dedicated to providing relevant knowledge in the study of ethnicity and ethnic relations. Through the department's three programs, Afro-American, Asian American, and Chicano Studies, students are provided with interdisciplinary, ethnic-specific and comparative concepts, theories and methods of inquiry which shape the cultural, social, historical, economic and political character of selected American ethnic communities.

The department plans to offer majors in American Ethnic Studies and in each of the ethnic-specific programs. Currently a major in Afro-American Studies is offered. General Studies degrees in both Asian American Studies and Chicano Studies are offered.

362 American Race and Ethnic Relations (5)
Interracial contacts and conflicts. Joint with SOC 362. Prerequisite: SOC 110.

Afro-American Studies (AFRAM)
B504 Padelford Hall, GN-80
Telephone: 543-5401

Afro-American Studies is an interdisciplinary program drawing together courses in a variety of academic disciplines in order to broaden the student's knowledge about the Black experience and prepare the student to meet requirements for careers in various fields of employment.

150- Afro-American History (5) D
A general survey of Afro-American history from the colonial period to the present. Attention is given to the earliest contacts between Africans and European colonial agencies, the political, economic, legal, social and cultural impact on Afro-Americans in North America, since 1619 to the 1980s. Joint with HSTAA 150.

201 Introduction to Black Studies (5) D
The history, culture, religion, institution, politics, economics, arts and psychology of peoples of African descent as developed from experience in both the old world and the new. Multi-disciplinary analysis of social life from a black perspective as illustrated in selected historical and contemporary writings.

306 Intensified Basic Swahili (15)
Development of basic grammatical and conversational skills in the most important language of East and Central Africa. Basic Swahili (306, 307, 308) is taught in an intensified form Summer Quarter. Students will receive a total of 15 credits for the course. The class may be used for the Foreign Language requirement.

► See the Time Schedule section, pages 73-113, for class dates and times.
Asian American Studies (AAS)
B501 Padelford, GN-80
Telephone: 543-5401

205 Asian American Cultures (5) D
An introduction to the historical and cultural experiences of Asians in America from 1850 to 1950: immigration patterns, evolution of subcultures, evacuation and social organizations. Not open to students who have taken GIS 305. AAS 205 satisfies distribution requirements for social sciences.

206 Contemporary Problems of Asian Americans (5) D
Recent Asian American issues from 1950 to the present. Topics include ghetto communities, civil rights, identity problems and ethnicity, social organizations, political movements, and recent immigration.

499 Undergraduate Independent Study (1-5, max. 10)
Prerequisites: 205 or equivalent, and entry code.

Chicano Studies (CHSTU)
B10 Padelford Hall, GN-80
Telephone: 543-5401

The Center for Chicano Studies provides support for the Chicano campus community through various types of service: curricular offerings, research, faculty recruitment, and advocacy. An undergraduate degree in Chicano Studies is not offered. However, a General Studies degree is available to students interested in following a program in this area. Consult a general studies advisor in B10 Padelford.

201 Introduction to Chicano Studies (5) D
Selected themes in the Chicano experience; studies in Chicano politics and Chicano socioeconomic concerns. Not open to students who have taken GIS 302 or CHSTU 102. (Formerly 102.)

254 History of Chicanos in Washington State (5)
History, extent, and results of the Chicano presence from earliest Spanish explorations to the present; contemporary problems of Chicanos in a broader national context.

391 Independent Study (1-6, max. 10)
Students engage in a variety of Chicano Studies topics and develop projects of their choosing under direction of Chicano Studies faculty members in various disciplines. Students may work individually or in teams depending on project and scope. Prerequisite: entry code.

American Indian Studies (AIS)
C514 Padelford, GN-05
Telephone: 543-9082

240 American Indian Women in Society (5) D
Indian women in the social structure, historical and contemporary roles, changes in male-female relationships; problems and opportunities of contemporary women. The feminist movement and Indian rights.

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

377 Contemporary American Indian Literature (5) D
Creative writings—novels, short stories, poems—of contemporary Indian authors; the tradition out of which these works evolved. Differences between Indian writers and writers of the dominant European/American mainstream. Joint with ENGL 377.

Anthropology (ANTH)

M32 Denny Hall, DH-05
Telephone: 543-5240

Anthropology courses are offered in:
• Sociocultural Anthropology
• Archaeology
• Physical Anthropology

The Department of Anthropology offers courses at the introductory and upper-division levels for both majors and nonmajors, as well as for teachers, social workers, and others interested in cultural and biological variation.

An archaeological field school (ARCHY 270, 571) at two bison kill complexes in Montana and Wyoming will also be offered. Eight weeks will be spent excavating a Castle Butte site, consisting of an arroyo trap, a butchering/processing area, and campsite. The last week will be spent in central Wyoming where students will map and surface collect a bison kill complex at the base of the Bighorn Mountains. Enrollment is limited and applications are due by April 15, 1992. For a field school application/information packet call (206) 543-5240. A fee for room and board is charged in addition to tuition. Enrollments are limited by facilities.

100 Introduction to Anthropology (5) D
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.

700 Master's Thesis (*)
800 Doctoral Dissertation (*)

Sociocultural Anthropology (ANTH)

202 Principles of Sociocultural Anthropology (5) D
Comparison of lifeways of various non-Western and Western peoples. Introduction to the basic theories and methods used in the field.

203 Introduction to Anthropological Linguistics (5) D
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. Joint with LING 203. Not open for credit to students who have taken LING 200, 201, or 400.

301 Human Nature and Culture (5) D
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.

314 Civilization of Island Southeast Asia (5)
Cultural, political, economic traditions of insular Southeast Asia, Indonesia, Malaysia, Philippines. Early Indiainized states; growing influence of Islam; Western European conquests; developed colonial societies, their legacies; modern nationalism; problems faced by new independent states; important cultural continuities. Joint with SISSE 314. Prerequisite: one 200 level course in either anthropology or international studies.

355 Aging in Cross-Cultural Perspective (3)
Survey of strategies for dealing with the fact of aging in various socio-cultural systems. Relates the varieties of cultural solutions to the theories on aging, drawn from psychology and medicine, with emphasis on non-Western societies.

356 Visual Anthropology (3)
The place of photography and films in ethnography; their use in the documentation and interpretation of cultural and social systems.
429 Expressive Culture (5)
Anthropological view of one expressive act of culture; plastic-graphic arts, myths and folktales, music, dance, humor and tragedy, or play and games. Prerequisite: 202 or permission of instructor.

431 Oral Traditions (3)
Oral traditions and verbal expression, examined anthropologically and in relation to student interests. Critical examination of relevant theories and methods of analysis. Prerequisite: 100 or 202.

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

461A 462A Syntax I, II (4,4)
Study of the structural properties of language; introduction to generative transformational syntax. Joint with LING 461A. Prerequisite: 200 or 400 or permission of instructor.

475 Perspectives in Medical Anthropology (5)
Introduction to medical anthropology. Explores the relationships among culture, society, and medicine. Examples from Western medicine as well as from other medical systems, incorporating both interpretive and critical approaches. Joint with HSERV 475.

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.

499 Undergraduate Research (*, max. 12)

500* Preceptorial Reading (6)
For beginning graduate students who have not had adequate training in the problems, principles, and methods involved in the analysis and comparison of social and cultural systems. Not open to graduate students in the sociocultural anthropology program.

600 Independent Study or Research (*)

Archaeology (ARCHY)

105 World Prehistory (5) D
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 55 credits required for the major in anthropology.

205 Principles of Archaeology (5) D
Techniques, methods, and goals of archaeological research. Excavation and dating of archaeological materials. General problems encountered in explaining archaeological phenomena.

270 Field Course in Archaeology (12)
Introduction to field acquisition of archaeological data through survey and excavation. Ongoing field projects; recovery and recording techniques. Prerequisites: application (see introductory paragraph) and entry code.

304* New World Archaeology (3)
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.

499 Undergraduate Research (*, max. 12)

600 Independent Study or Research (*)

Physical Anthropology (PHY A)

201 Principles of Anthropology (5) D
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.

370 Introduction to Primates (5)
Origins, major evolutionary trends and modern taxonomic relationships of the nonhuman primates. Their distribution and habitat in relation to behavioral and morphological adaptations and their status as an endangered species. Prerequisite: 201.

499 Undergraduate Research (*, max. 12)

Applied Mathematics (AMATH)

341 Computer Applications of Numerical Methods (3)
Development and application of numerical methods and algorithms to solve problems in engineering, simultaneous equations, curve fitting, root-finding algorithms. Taylor series analysis, numerical integration, ordinary differential equations. Joint with ENGR 341 or equivalent and MATH 307 (or AMATH 351), which may be taken concurrently.

401* Methods in Applied Mathematics I (4)
Emphasis on acquisition of solution techniques; ideas are illustrated with specific example problems arising in application areas. Applications of vector differential calculus and complex variables. Line and surface integrals, integral theorems; Taylor and Laurent series, contour integration. Joint with ENGR 401. Prerequisites: MATH 205, MATH 328 or A A 370, and AMATH 351 or MATH 307, or permission of instructor.

402* Methods in Applied Mathematics II (4)
See 401. Applications of ordinary differential equations; review of elementary concepts for first and second order equations; power series, and Froebius solutions, Laplace transforms systems of differential equations; eigenvalues. Joint with ENGR

See the Time Schedule section, pages 73-113, for class dates and times.
402. Prerequisites: MATH 205, MATH 328 or A A 370; and AMATH 351 or MATH 307, or permission of instructor.

600 Independent Study or Research (*)
700 Master's Thesis (*)
800 Doctoral Dissertation (*)

Art (ART)

104 Art Building, DM-10
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. Prerequisites are strictly observed. 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.

105 Drawing (5) D
Perspective, light and shade, composition.

106 Drawing (5)
See description of 105. Prerequisite: 105.

109 Design (3) D
Art structure as basis for creative work. Organization of line, space, and color.

110 Design (3)

150 3D Design Fundamentals (5)
Introduction to fundamentals of three-dimensional design process. Both practical and conceptual skills explored and demonstrated through assigned projects or projects. The course will establish a work process that will enable students to develop and present their work more successfully. The development and realization of concepts via sketch books, model making, mechanical drawings and other methods of presentation will be defined and discussed. Students will be required to pay an additional fee for materials.

202 Ceramic Art: Wheel Throwing (5)
Introduction to wheel throwing; kiln firing and glazing process. Contemporary sculpture in clay. Prerequisites: 106, 110. Students will be required to pay an additional fee for materials.

230 Introductory Photography (5)
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.

255 Design and Materials: Fabric Construction (5, max. 15)
Feltmaking. Form and surface through structure. Students will be required to pay an additional fee for materials.

256, 257 Painting (5, 5)
Oil painting. Prerequisites: 106, 110 for 256; 256 for 257.

258 Jewelry Design (5)
Introduction to jewelry design and construction through techniques of sawing, filling, soldering, forging, and casting in silver, copper, bronze, and brass, as well as simple stone setting. Prerequisites: 106, 110. Students will be required to pay an additional fee for materials.

259 Water-Soluble Media (5, max. 15)
Prerequisites: 106, 110.

265 Intermediate Drawing (5, max. 15)
Prerequisites: 106, 110.

272 Beginning Sculpture Composition (5)
Fundamentals of composition in the round and in relief. Prerequisites: 106, 110. Students will be required to pay an additional fee for materials.

307 Intermediate Painting (5, max. 10)
Prerequisite: 257.

325 Advanced Drawing (5, max. 15)
Study on the advanced level involving history, practice, and theory of drawing as an art form. Prerequisites: 15 credits in 265.

332 Intermediate Sculpture Composition (5, max. 15)
Advanced work in various media and techniques. Prerequisites: 272 and entry code.

349 Serigraphy (5)
Traditional and contemporary methods. Prerequisites: 106, 110. Students will be required to pay an additional fee for materials.

350 Printmaking Special Projects (5, max. 15)
Book arts. Non-adhesive bindings, serial imagery, historical and contemporary issues in book arts. Students will be required to pay an additional fee for materials.

353 Intermediate Ceramic Art (5, max. 15)
Ceramic design and construction, stoneware, clay bodies, glazes. Prerequisites: 201, 202 and entry code. Students will be required to pay an additional fee for materials.

360 Life (5, max. 10)
Drawing and painting from the model. Prerequisites: 257 and 15 credits in 265.

390 Sheet Materials (5)
Research and development as part of the design process. Advanced work with sheet materials using an experimental approach. The objective is to produce a functional three-dimensional design from two-dimensional sheet material. Prerequisite: permission of instructor and entry code. Students will be required to pay an additional fee for materials.

411 Advanced Photography (5, max. 15)
Topics include color printing, large format photography, artificial lighting, and photography image transformation. Prerequisites: 370, 371, 372, and entry code. Students will be required to pay an additional fee for materials.

414 Color Photography (5)
Theory and technique of color printing, manual and machine processing, with emphasis on C-41 and Type C chemistry. Prerequisites: 370, 371, 372 and entry code. Students will be required to pay an additional fee for materials.

415 Senior Thesis in Photography (5, max. 10)
Development of a coherent photographic theme or topic over two consecutive quarters resulting in a finished thesis portfolio. Prerequisites: 411 and entry code. Students will be required to pay an additional fee for materials.

425 Advanced Individual Projects in Fiber Arts (5, max. 15)
Prerequisite: permission of instructor and entry code.

436 Sculpture Composition (5, max. 15)
Individual compositions in various media in large scale. Prerequisites: 15 credits in 332 and entry code.

454 Advanced Serigraphy (5, max. 15)
Prerequisite: 349. Students will be required to pay an additional fee for materials.

463 Advanced Painting (5, max. 15)
Development of individuality in painting through creative exercises. Prerequisites: 10 credits each in 307 and 360 and entry code.

498 Individual Projects-Painting/Sculpture (3 or 5, max. 15)

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

700 Master's Thesis (*)
The arts of the Byzantine Empire, Islam and Western art from 1520 to present.

Major achievements in painting, sculpture, architecture, and the decorative arts in Europe, from prehistoric times to the beginning of Christianity.

The arts of the Byzantine Empire, Islam and Western art from 1520 to present.

Survey of Western Art—Ancient (5) D

Major achievements in painting, sculpture, architecture, and the decorative arts in Europe, from prehistoric times to the beginning of Christianity.

Survey of Western Art—Medieval and Renaissance (5) D

The arts of the Byzantine Empire, Islam and Western art from 1520 to present.

Survey of Western Art—Modern (5) D

Western art from 1520 to present.

Chinese Art (5) D

Overview of the art of China. Emphasis on the role of the arts of the Chinese culture and on the traditional styles. Techniques associated with each of the major media: painting, ceremonial boxes, architecture and sculpture.

Tribal Art and Philosophy (5) D

Philosophical inquiry and thought in African, American 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.

African Art and Society (5) D

Explores the ideas and notions expressed visually in sculpture, painting, ceramics, textiles, and architecture and describes their relationships to man and culture in Africa.

Roman Art and Archaeology (3) D

Roman architecture and art, with emphasis on the innovations of the Romans.

Art History and Criticism (3) June 22-July 2 Two-week intensive study of Islamic art.

Art History and Criticism (3) July 6-17 Two-week intensive study of calligraphy and its uses in Islamic architecture.

Individual Projects (2-5, max. 10)

Individual Projects (2-5, max. 10)

Master's Practicum (*, max. 15)

Independent Study or Research (*)

Master's Thesis (*)

Doctoral Dissertation (*)

Asian Languages and Literature (ASIAN) 225 Gowen Hall, DO-21 Telephone: 543-4996

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

Intensive language courses in 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.

See also Foreign Study Programs for information on the Chinese Language Program at Peking University.

Independent Study or Research (*)

Master's Thesis (*)

Doctoral Dissertation (*)

Chinese (CHIN)

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.


Undergraduate Research (3-5 max. 15)

For Chinese language and literature majors. Prerequisite: entry code.

Hindi (HINDI)

Intermediate Hindi (5,5,5)


Undergraduate Research (3-5, max. 15)

Primarily for Hindi language and literature majors. Prerequisite: entry code.

Indian (INDN)

Introduction to Written Urdu (3) Introduction to modern Urdu for students with at least an elementary knowledge of Hindi. Prerequisite: HINDI 313 or equivalent.

Japanese (JAPAN)

First-Year Intensive Japanese (15)

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 who will be going to Japan shortly upon completion. Not open to students with prior background. Students with any prior background must take placement test.

Second-Year Intensive Japanese (15)

Development of further functional communicative skills in the spoken and written languages. Satisfies requirements for entry to 311, but, recommended primarily for those who will be going to Japan shortly upon completion. Not open to students with prior background. Students with any prior background must take placement test.

Hindi (HINDI)

Intermediate Hindi (5,5,5)


Undergraduate Research (3-5, max. 15)

Primarily for Hindi language and literature majors. Prerequisite: entry code.

Indian (INDN)

Introduction to Written Urdu (3) Introduction to modern Urdu for students with at least an elementary knowledge of Hindi. Prerequisite: HINDI 313 or equivalent.

Japanese (JAPAN)

First-Year Intensive Japanese (15)

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 who will be going to Japan shortly upon completion. Not open to students with prior background. Students with any prior background must take placement test.

Second-Year Intensive Japanese (15)

Development of further functional communicative skills in the spoken and written languages. Satisfies requirements for entry to 311, but, recommended primarily for those who will be going to Japan shortly upon completion. Not open to students with prior background. Students with any prior background must take placement test.

Korean (KOR)

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)

260 Physics Hall, FM-20 Telephone: 543-2888

Astronomy (5) D

Introduction to universe and objects in it: emphasis on conceptual, 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.

See the Time Schedule section, pages 73-113, for class dates and times.
201 The Universe and the Origin of Life (5) D
Sequel to 101 or 102, emphasizing modern views of the atomic and molecular evolution of the universe from the initial "big bang" through the formation of the solar system and the emergence of biologic forms on the earth. The latter part of the course considers questions about the existence of, and communication with, extraterrestrial intelligent life, and finally the ultimate fate of the cosmos. Prerequisite: 101 or 102, or PHYS 110 or 114 or 121.

497 Topics in Current Astronomy (1-3)
Recent developments in one field of astronomy or astrophysics. In Summer 1992, emphasis will be on observing techniques and data reduction, using the facilities of the Manastash Ridge Observatory. Prerequisite varies according to the subject matter.

499 Undergraduate Research (*, max. 15)
Special astronomical problems and observational projects by arrangement with instructor. Prerequisite: entry code.

600 Independent Study or Research (*)

800 Doctoral Dissertation (*)

Atmospheric Sciences (ATM 5)
408 Atmospheric Sciences-Geophysics
Building, AK-40
Telephone: 543-4250

101 Weather (5) D
The earth's atmosphere, with emphasis on weather observation and forecasting. Daily weather map discussions. Explanations of highs, lows, fronts, clouds, storms, jet streams, air pollution, and other features of the atmosphere. Physical processes involved in weather phenomena. Intended for nonmajors.

462 Sea-Air Transfer Process (*, max. 6)
Classroom work and field observations relating to the physical processes occurring at the ocean-atmosphere boundary. Transfer of energy, Momentum and moisture and their effects on small- and large-scale phenomena, including fog formation, convection, modification of air masses. Prerequisite: 441 or permission of instructor; entry code.

600 Independent Study or Research (*)

700 Master's Thesis (*)

800 Doctoral Dissertation (*)

Biology (BIOL)
318 Hitchcock Hall, KB-05
Telephone: 543-7767

For additional courses in biology and closely related fields of study, see also 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) D
Biological principles and concepts, and the application of biological knowledge to problems of human beings and society. Development of an awareness of science. For non-science majors only.

203 Introductory Biology (5) D
The third course in a three-quarter sequence introducing the phenomena of life for students intending to take advanced biology courses and professional programs. Emphasis on plant structure and function, and principles of ecology and evolution. Prerequisites: 201 and 202 (formerly 210 and 212) or permission of Biology office.

Botany (BOT)
430 Hitchcock Hall
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 bulletin, write: Department of Botany, Friday Harbor Laboratories, 620 University Road, Friday Harbor, WA 98250, or call (206) 543-1484.

113 Plant Identification and Classification (5) D
Plant classification; field study and laboratory identification of the common plant families and the conspicuous flora of western and central Washington. At least two 4-day field trips.

331 Landscape Plant Recognition (3)

458 Alpine Plant Ecology (5)
Structure of plant communities in alpine regions of the Pacific Northwest. Characteristics of the physical environment that influence species adaptation and distribution. Influence and impact of humans and criteria for preservation or management of alpine areas. Three weekend field trips are required. Prerequisite: 10 credits in biological science or permission.

461 General Mycology (5)
General survey of fungi with emphasis on life cycles, structure, physiology, economic importance. Prerequisite: introductory course in biological science or permission.

498 Special Problems in Botany (1-15)

600 Independent Study or Research (*)

700 Master's Thesis (*)

800 Doctoral Dissertation (*)

Chemistry (CHEM)
109 Bagley Hall, BG-10
Telephone: 543-1610
Undergraduate adviser: 543-4791

The Department of Chemistry offers many courses for nonmajors as well as for students who wish to work for Bachelor of Arts or Bachelor of Science degrees or for a minor in chemistry. In addition to research or thesis work, graduate students may register for seminars that include special lectures by distinguished visitors.

100 Chemical Science (5) D
One-quarter introduction to chemistry for non-science majors or students with little or no chemistry background. Atoms and molecules, their interactions with energy and their reactions; emphasizes impact of chemistry on everyday life. Can stand alone or be followed by 110, 110, 140, 203, 205. Prerequisite: high school algebra or equivalent; recommended: MATH 111.

102 General and Organic Chemistry (5) D
Organic compounds; hydrocarbons, alcohols, aldehydes, ketones, ethers, acids, aromatics, fats and oils, proteins, and carbohydrates. Students who plan to take 223 or 237 should not take 102. Prerequisite: 100 or equivalent.

110 Introduction to General Chemistry (3) D
Supplements the material in 100 and 140 with methods for solving quantitative problems. For students with limited mathematics background, who plan to take or are taking 140. Prerequisites: 100 or concurrent registration in 140 and MATH 111 or 120 or equivalent.

140 General Chemistry (4) D
For science and engineering majors. Atomic nature of matter, nuclear chemistry, stoichiometry, Periodic Table, quantum concepts, gas laws. Prerequisites: high school algebra and chemistry or 100 and
MATH 111 or 120; recommended: high school physics and concurrent registration in 141 and MATH 124.

141 General Chemistry Laboratory (1) D
Introduction to laboratory work, including experiments to illustrate analytic techniques, stoichiometry, and synthesis. Designed to complement 140. Prerequisite: prior completion of, or concurrent registration in 140 or 145. CR/NC only.

150 General Chemistry (4) D
Chemical bonding, liquids and solids, solutions, chemical equilibria, acid-base, solubility, and nonmetals. Prerequisite: 140 or 145; recommended: concurrent registration in 151.

151 General Chemistry Laboratory (1-2) D
Experiments to illustrate the chemistry of common metals, acid-base titration, and solubility products as well as qualitative analysis. Designed to complement 150. Prerequisites: 141 and prior completion of, or concurrent registration in 150 or 155.

160 General Chemistry (4) D
Introduction to thermodynamics, electrochemistry, chemical kinetics, organic chemistry, synthetic polymers and bio-polymers. Prerequisite: 150; recommended: concurrent registration in 161.

161 General Chemistry Laboratory (2) D
Introductory experiments in electrochemistry, thermochromy, chemical kinetics, and organic synthesis. Designed to complement 160. Prerequisites: 151; recommended: prior completion or concurrent registration in 160 or 164.

199 Special Problems (1, max. 6)
Research in chemistry. For chemistry majors only. Prerequisites: chemistry grade point average above 3.00 and entry code. CR/NC only.

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

237 Organic Chemistry (4) D
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.

238 Organic Chemistry (4) D
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) D
Third quarter for students planning to take three quarters of organic chemistry. Polyfunctional compounds, natural products, lipids, carbohydrates, amino acids, proteins, and nucleic acids. Prerequisite: 238.

241 Organic Chemistry Laboratory (3) D
Preparation of representative compounds. Prerequisites: 157 or 161 and 223 or 237.

242 Organic Chemistry Laboratory (3) D
Preparations and qualitative organic analysis. Prerequisites: 224 or 238 and 241.

299W Special Problems and Report Writing (1, max. 6)
Research in chemistry and/or chemical literature. For chemistry majors only. Requires writing a scientific report. Prerequisites: grade-point average above 3.00 in chemistry and entry code. CR/NC only.

321 Quantitative Analysis (5)
Introduction to chemical analysis, including gravimetric, volumetric, spectrophotometric and potentiometric analyses. Laboratory computer use included. Prerequisites: 150 or 155, and 151 or strong high school laboratory preparation. Not intended for students who have completed 167.

399 Undergraduate Research (*, max. 12)
Research in chemistry. For qualified chemistry majors only. Prerequisites: grade-point average above 3.00 in chemistry and entry code. CR/NC only.

455 Physical Chemistry (3)
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: 150 or 155, MATH 126 (238 recommended), and college physics.

456 Physical Chemistry (3)
Chemical thermodynamics. Laws of thermodynamics presented with applications to phase equilibria, chemical equilibria, and solutions. Joint with CHE 456. Prerequisites: 150 or 155, MATH 126 (238 recommended), and college physics. May be taken without 455.

499W Undergraduate Research and Report Writing (*, max. 12)
Research in chemistry. For chemistry majors only. Prerequisites: grade-point average above 3.00 in chemistry, junior standing in chemistry and entry code. CR/NC only.

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)

600 Independent Study or Research (*)
700 Master's Thesis (*)
800 Doctoral Dissertation (*)

Classics
218 Denny Hall, DH-10
Telephone: 543-2266

- Classics Courses in English
- Classical Archaeology
- Greek
- Latin

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

The Master of Arts degrees in classics and in Latin may be earned by attending Summer Quarters only. Detailed information is available from 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) D
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. CR/NC only.
205 **Bioscientific Vocabulary Building from Latin and Greek (3) D**

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. CR/NC only.

430 **Greek and Roman Mythology (3) D**

Principal myths found jointly with 430 Greek and Roman Mythology.

**Classical Archaeology (CL AR)**

342 **Roman Art and Archaeology (3) D**

Roman architecture and art, with emphasis on the innovations of the Romans; illustrated by slides. Joint with ART H 342.

**Greek (GRK)**

101* 102a **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.

461 **Early Greek Literature (3-5, max. 15)**

Readings in Hesiod. Prerequisite: 307 or equivalent.

490 **Supervised Study (*, max. 18)**

Special work in literary and philosophical texts for graduates and undergraduates. Prerequisite: entry code (Denny 218).

590 **Supervised Study (*, max. 18)**

Prerequisite: entry code (Denny 218).

600 **Independent Study or Research (*)**

**Latin (LAT)**

101* 102a **Elementary Latin (5,5)**

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

463 **Latin Literature of the Empire (3-5, max. 15)**

Readings, with discussion, from Augustine. Prerequisite: 307 or equivalent.

490 **Supervised Study (*, max. 18)**

Special work in literary and philosophical texts for graduates and undergraduates. Prerequisite: entry code (Denny 218).

520 **Seminar: Vergil’s Eclogues (3, max. 6)**

Prerequisite: entry code (Denny 218).

590 **Supervised Study (*, max. 18)**

Prerequisite: entry code (Denny 218).

600 **Independent Study or Research (*)**

**Classics (CLAS)**

700 **Master’s Thesis (*)**

800 **Doctoral Dissertation (*)**

**Communications (CMU)**

118 Communications Building, DS-40

Telephone: 543-8860

This summer's curriculum includes courses in advertising, broadcast journalism, and photography, and a 400-level course open to both undergraduate and graduate students. General education courses cover the history and development of communication and journalism, the process of communicating, and mass communication and society. In addition, there is one intensive two-week workshop for high school journalism advisors, principals, and administrators (see CMU 418).

201 **History and Development of Communication and Journalism (5) D**

Development of communication from prehistoric times; social and technical inventions; political and economic contexts. Not open for credit to students who have taken 214.

202 **The Phenomena of Communicating (5) D**

Types of communicating behaviors in progressively more complex situations, from individual cognition through interpersonal interactions to mass communicating. Not open for credit to students who have taken 200.

203 **Mass Communications and Society (5) D**

Structure and functions of mass media communication systems; audiences and content; alternative structures; implications of new technologies. Not open for credit to students who have taken 200.

300 **Fundamentals of Applied Communication (5)**

Practice in communicating in variety of social relationships: intimate; employer-employee; instructor-student; client-helper; public organization. Problem areas include: cooperation, competition, instruction, and invention. Prerequisites: 202 or permission of instructor.

320 **Legal Aspects of Communications (5)**

Regulations governing publication and broadcast in the mass media. Open to nonmajors.

322 **Reporting (4)**

News gathering and writing. Open only to majors. Prerequisites: 315 and entry code.

328 **News Lab (8)**

Students work full-time in news lab reporting for area’s newspapers and radio stations covering all county offices/services. Involves heavy writing schedule, deadlines, advance reporting. Open only to majors. Prerequisite: entry code.

330 **Principles of Public Relations (5)**

An introduction to the field of public relations as practiced in a number of professional settings. Public and private enterprise will be examined. Local, regional, national, and international issues will be studied. Classroom focus will include lectures by outside experts. Prerequisite: 203.

340 **Introduction to Advertising (5)**

Overview of the advertising industry, its history, structure, operations, and institutional role.

345 **Advertising Campaigns (5)**

Preparation of an advertising plan for a product or service. Open only to majors. Prerequisites: 341, 344, entry code.

347 **Advertising Internship (2-5, max. 6)**

Internships are assigned to qualified students through the cooperation of the industry working with the school. Open only to majors. Does not apply to required 50 credits in communications. Prerequisites: 341 or 344, depending on nature of internship; 120 credits completed; and entry code. CR/NC only.

354 **Basic Visual Communication (3)**

Basics common to all visual media, plus motion. Use of electronic and film materials in news and public affairs programming; emphasis on visual continuity and editorial judgment. Open only to majors.

358 **TV News Reporting and Editing (5)**

Preparation and presentation of news broadcasts, including reporting, scripting, and use of visuals. Prerequisites: 315, 350, 354.

365 **Television Workshop (2-4)**

As a lab course designed to produce a weekly ½ hour TV newscast and ½ hour TV sportscast to be aired on the university’s cable channel, Channel 27, students will have the chance to develop their skills as anchors/reporters, reporters, producers, directors, camera personnel, editors, desk staff, promotion and programming and television broadcast advertising and public relations. Prerequisites: 350 or permission of instructor and entry code.

367 **Broadcast Internship (2-5, max. 6)**

Experience in the day-to-day operation of a broadcast station. Internship credit may not be applied to fulfill specific course requirements or to 50-credit requirement for a communications major. Prereq-
College of Arts and Sciences

usites: 315, 320, 350, and courses determined by faculty coordinator; and entry code. CR/NC only.

391 Photography (3)
Basic photojournalism, black and white processing and 35mm camera techniques, picture editing and layout, field assignments. Prerequisite: entry code.

392 Advanced Still Photography (3)
Photojournalism, introduction to color publication, extensive field assignments for news and documentary, advertising, and freelance photography. Prerequisites: 391 and entry code.

399 Editorial Journalism 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. Prerequisites: 315, 320, 322, and permission of instructor, entry code.

418 Issues in Mass Communication (5)
A. The School Newspaper and the Community: Freedom and Responsibility (5)
July 6-17 Examines constitutional and historical basis for a free student press, and reviews recent court decisions affecting high school and college publications. This course will cover the essentials of libel, invasion of privacy, and other areas of media law of concern to adviser, principals, and administrators. The workshop is certified by the School of Communications as satisfying the legal rights and liabilities area of the Superintendent of Public Instruction's journalism endorsement. Not open to communications majors.

481 Public Opinion and Communication (5)
Collective behavior and its methodology. Polls evaluated as referenda on government policies as manipulative instruments, and as expressions of the commonality of thought. Role of the mass media. Individual research project. Recommended: relevant courses in political science, sociology, psychology, or communications.

483 International Communication Systems (5) D
Patterns, institutions, cultural influences, functions of the media in particular foreign areas. Problems of cultural compatibility and structural linkage.

498 Problems in Communications (1-5, max. 10)
Research and individual study. Prerequisite: permission of instructor.

550 Advanced Communication Methods (1-3, max. 3)
Directed individual projects at a level acceptable by print or broadcast media. Advanced techniques of research and production analyzed and applied. Open only to Master of Communications students. Prerequisites: permission, entry code.

597 Practicum in Communication Research (1-5, max. 6)
Prerequisites: permission, entry code.

598 Selected Readings (1-5, max. 10)
Prerequisites: permission of supervisory committee chair; entry code.

600 Independent Study or Research (*)

700 Master's Thesis (*)

800 Doctoral Dissertation (*)

Comparative Literature (C LIT)
B531 Padelford Hall, GN-32
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.

330 The European Fairy Tale (5)
This course will introduce students to folktales and literary tales from various European traditions and periods and will discuss the two main genres of fairy tales: the anonymous, transmitted folktale, and the art tale or literary tale, composed by writers known from other literary activities. After a theoretical introduction to the concepts of folktale and literary tale, we will divide the remainder of the course to examine each in greater detail. We will discuss the origin, special characteristics, dissemination, and relevance of each to the contemporary reader.

490 Directed Study or Research (1-5, max. 10)
Individual study of topics in comparative literature by arrangement with instructor. Prerequisite: entry code.

495 Honors Thesis (4)
Preparation of an honors thesis under the direction and supervision of a faculty member. Prerequisites: 493 and entry code.

590 Thesis Colloquium (5)
Discussion of dissertation projects among participants in the program. Prerequisite: entry code.

599 Special Seminar or Conference (1-9, max. 30)
Group seminars or individual conferences scheduled to meet special needs. Prerequisite: entry code, permission of graduate program adviser.

600 Independent Study or Research (*)

700 Master's Thesis (*)

800 Doctoral Dissertation (*)

Computer Science and Engineering (CSE)
114 Sieg Hall, FR-35
Telephone: 543-1695

See Computer Science and Engineering, page 55.

Dance (DANCE)
258 Meany Hall, AB-10
Telephone: 543-9843

101 Introduction to Dance (4, max. 8) D
Contemporary dance technique, ballet, and new approaches to movement training. This summer, 4 credits allowed.

104 Modern Technique (*, max. 8)
Advanced beginning. Continued development of all beginning areas and expansion of movement vocabulary. Prerequisites: 103 or permission of instructor for 104. This summer, 2 credits allowed. Entry codes required.

107 Ballet Technique I (*, max. 8)
Advanced beginning. Continued development of all beginning areas. Expansion of ballet vocabulary. Prerequisites: 103 or permission or instructor for 107. This summer, 2 credits allowed. Entry codes required.

110 Jazz Technique I (2, max. 4)
Introduction to jazz technique.

166 Dance Composition I (3)
Introduction to the principles of dance composition. Development of solo studies. Entry codes required.

201 Ballet Technique II (*, max. 8)
Intermediate. Expansion of ballet vocabulary. Prerequisites: 109 or permission of instructor for 201. This summer, 3 credits allowed. Entry codes required.

► See the Time Schedule section, pages 73-113, for class dates and times.
204 Contemporary Technique II (*, max. 8)
Intermediate. Expansion of movement vocabulary. Prerequisites: 109 or permission of instructor for 204. This summer, 3 credits allowed. Entry codes required.

210 Jazz Technique II (2, max. 4)

231 Folk/Ethnic Dances of Western Cultures (1, max. 6)
Folk dances of Western cultures (i.e. Irish, American square, Spanish, Scandinavian, or Scottish). See Time Schedule section for specific offering. Entry codes required.

310 Jazz Technique III (2, max. 4)
Advanced. Investigation of jazz styles such as Afro-Caribbean, Luigi, and musical theatre. Entry codes required.

Drama (DRAMA)
101 Hutchinson Hall, DX-20
Telephone: 543-5140

101 Introduction to the Theatre (5) D
The theatre as an art form with emphasis on the play in production. The role of the various theatre artists: actors, directors, designers and playwrights. For nonmajors. Meets Arts and Sciences linked-set requirement when taken with DRAMA 201.

201 Dramatic Action (5) D
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; Meets Art and Sciences linked-set requirement when taken with DRAMA 101.

302W* Play Analysis (5)
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.

395 Creative Classroom Computing (5)
Innovative uses of computers in the classroom. Survey of learning styles and teaching strategies, and ways to use the computer as a nontraditional teaching tool. Students develop short courseware demonstrations responsive to instructional needs in their individual disciplines. Teaching and computing experience helpful, but not required.

473 Modern European Theatre and Drama (5) D
Major forces shaping modern European theatre. Particular emphasis on the text performed, styles of acting, scenic elements and the critical theories that influenced the theatre of the period. Meets Fine Arts distribution requirement of the College of Arts and Sciences.

Economics (ECON)
301 Savery Hall, DK-30
Telephone: 543-5955

200 Introduction to Microeconomics (5) D
Introduction to analysis of markets; consumer demand, production, exchange, the price system, resource allocation, government intervention.

201 Introduction to Macroeconomics (5) D
Introduction to analysis of the aggregate economy: national income, inflation, business fluctuations, unemployment, monetary system, federal budget, international trade and finance. Prerequisite: ECON 200.

300 Intermediate Microeconomics (5)
Choice decisions of individuals and firms: consequences of these decisions in product and factor markets. Consumption, production and cost, exchange. Prerequisites: 200 and MATH 112, 157 or 124, or equivalent.

301 Intermediate Macroeconomics (5)
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) P
Statistical concepts and their applications in economics. (Students may receive credit for only one of STAT 220, 301, 311, and ECON 311.) Meets with STAT 311. Prerequisite: MATH 105 or 120 or 111 or 156.

404 Industrial Organization and Price Analysis (5)
Competition, collusion, monopoly, and oligopoly in regulated and unregulated markets. Economics of firm management, market organization, sales practices, and the antitrust laws. Prerequisites: 300 or equivalent.

422 Investment, Capital, and Finance (5)
Accumulation and allocation of wealth by individuals; investment in producer and consumer durables by firms and households; separation of ownership from operating decisions via corporations; determination of market value; dividend policies and optimal investment criteria; introduction to financial decisions under uncertainty; elements of portfolio theory and the capital asset pricing model. Prerequisite: 300.

435 Natural Resources Utilization and Public Policy (5)
Special emphasis on elements of economic theory relating to resource-oriented industries. Case studies in the theory and practice of resource management dealing with both stock and flow resources. Benefit-cost analysis and the evaluation of multi-purpose resource projects. Prerequisite: 300 or permission.

451 Public Finance II (5)
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.

471A International Trade (5)

472 International Finance (5)
Monetary problems in international trade and macroeconomics of the open economy. Features of different exchange-rate systems and their adjustment mechanisms. Money and international capital movements. Policies for internal and external balance. Prerequisites: 300, 301.

495 The Economy of Soviet Russia (5)
Analytical survey of techniques of planning and resource allocation in the Soviet economy. Criteria for evaluating economic performance, growth, and efficiency. Prerequisite: 300 or equivalent or permission of instructor.

499 Undergraduate Research (1-5, max. 10)

600 Independent Study or Research (*)

601 Internship (3-9, max. 9)

800 Doctoral Dissertation (*)

English (ENGL)
A101 Padelford Hall, GN-30
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 summer courses, please visit or write the Department of English.
Concurrent registration in:

111 Composition: Literature (5) P
Study and practice of good writing: topics derived from reading and discussing stories, poems, essays and plays.

121 Composition: Social Issues (5) P
Study and practice of good writing: topics derived from reading and discussing essays and fiction about current social and moral issues.

131 Composition: Exposition (5) P
Study and practice of good writing: topics derived from a variety of personal, academic and public subjects. (Formerly 181.)

198W Interdisciplinary Writing/Social Science (5, max. 15) P
Expository writing based on material presented in a specified social science course. Assignments include drafts of papers to be submitted in the linked course, and other pieces of analytic prose.

A. Linked to HST 113
Concurrent registration in HST 113 required.

B. Linked to PSYCH 305
Concurrent registration in PSYCH 305 required.

C. Linked to SOC 271
Concurrent registration in SOC 271 required.

200W Reading Literature (5) D
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.

203W Great Books II (5) D
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.

204W Great Books III (5) D
Introduction to literature from the broadly cultural point of view, focusing on major works that have shaped the development of literary and intellectual traditions from the 18th century to the present.

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

208 Reading Drama (5) D
Critical interpretation and meaning in plays. Study of different types of drama representing a variety of types from the medieval to modern periods.

221W Popular Literature (5)
Investigations of themes, conventions, and world views of imaginative works having wide audience appeal. Discussion of their place in our shared cultural experience.

223 Children’s Literature Reconsidered (5)
An examination of books that form a part of the imaginative experience of children as well as a part of a larger literary heritage, viewed in the light of their social, psychological, political, and moral implications.

267 Introduction to American Literature (5) D
Survey of major writers, modes, and themes in American literature from the 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.

271 Intermediate Expository Writing (5) P
Writing papers communicating information and opinion to develop accurate, competent, and effective expression. Recommended: sophomore standing.

274 Beginning Verse Writing (5)

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

303 English Literary Culture: To 1600 (5)
British literature from Middle Ages to end of sixteenth century. Study of literature in its cultural context, with attention to changes in language, form, content, and style. Formerly 301.

314 Shakespeare to 1603 (5) D
Shakespeare’s career as dramatist before 1603 (including Hamlet). Study of history plays, comedies, and tragedies.

315 Shakespeare After 1603 (5) D
Shakespeare's career as a dramatist after 1603. Study of comedies, tragedies, and romances.

327 Rise of the English Novel (5) D
Study of the development of this major and popular modern literary form in the eighteenth century. Readings of the best of the novelists who founded the form, and some minor ones, from Defoe to Fielding, Richardson, and Sterne, early Austen, and the gothic and other writers.

335 English Literature: The Age of Victoria (5) D
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.

340 The Modern Novel (5) D
The novel on both sides of the Atlantic in the first half of the twentieth century. Includes such writers as Joyce, Woolf, Lawrence, Stein, Hemingway, Faulkner, and others.

346 Critical Practice (5) D
Exercise in interpretive practices; a consideration of their powers and limits. Survey of the varieties of critical and interpretive practice from the earliest interpreters of scripture and myth to present-day critics.

352 American Literature: The Early Nation (5) D
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.

353 American Literature: Later 19th Century (5) D
Literary responses to America propelled forward by accelerating and complex forces. Works by Twain, James, and such other writers as Whitman, Dickinson, Adams, Wharton, Howells, Crane, Dreiser, DuBois, and Chopin.

354 American Literature: The Early Modern Period (5) D
Works by such writers as Ellison, Williams, O’Connor, Lowell, Barth, Rich, and Hawkes.


Recent efforts to change the shape and direction of the novel by such writers as Murdoch, Barth, Hawkes, Fowles, and Atwood.

Study of the work of women writers in English and American literature.

Creative writings—novels, short stories, poems—of contemporary Indian authors; traditions out of which they evolved. Differences between Indian writers and writers of the dominant European-American mainstream. Joint with AIS 377.

Concentration on the development of prose style for experienced writers. Recommended: sophomore standing.


Exploring and developing continuity in the elements of fiction writing. Methods of extending and sustaining plot, setting, character, point of view, and tone. Recommended: 277. Prerequisite: entry code (A104 Padelford, 543-9865).

Wide-range introduction to the study of written and spoken English. The nature of language; ways of describing language; the use of language study as an approach to English literature and the teaching of English.

Individual projects in various types of nonfictional prose, such as biographical sketches, informational reports. Literary reviews and essays. Recommended: sophomore standing.

422 Advanced Seminar: Verse Writing (5, max. 15)


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

Tutorial arranged by prior mutual agreement between student and instructor. Revision of manuscripts emphasized, but new work may be undertaken. Prerequisite: entry code (A104 Padelford, 543-9865).

Tutorial arranged by prior mutual agreement between student and instructor. Revision of manuscripts emphasized, but new work may be undertaken. Prerequisite: entry code (A11 Padelford, 543-2190).

Supervised experience in local businesses and other agencies. Open only to upper division English majors. Prerequisite: entry code (A2B Padelford, 543-2634). CR/NC only.

Prerequisite: Entry code (A105 Padelford, 543-6077). 1

Prerequisite: Entry code (A105 Padelford, 543-6077).

Intended primarily for new and continuing University of Washington students who are not native speakers of English, the summer ESL program is designed to prepare such students for college-level academic work by improving their skills in oral and written American English. Other qualified applicants may be accepted into the program with permission of the ESL Center on a space-available basis only.

Puget Sound Writing Program

Short intensive summer workshops to improve the teaching of writing for teachers of all subjects and grade levels. Registration for these courses is through UW Extension. You do not have to apply to Summer Quarter to take these courses.

ENGL 444 Special Topics in English for Teachers

A. Puget Sound Writing Program Institute (9) May 27-July 13-August 13

B. Puget Sound Literature Program (5) June 22-July 9

C. Puget Sound Literature Program: Shakespeare (5) June 22-July 9

D. Puget Sound Literature Program: The Whole Language Approach (5) June 22-July 9


To request a PSWP brochure, please call (206) 543-2320.
Students interested in taking ESL courses must take an Academic English Diagnostic Examination before they can enroll. Students should contact the Testing Office in 440 Schmitz Hall or call 543-1170 to register for the examination. The Diagnostic Examination determines which courses the student should take.

Students may take up to two ESL classes during Summer Quarter. Visit the Special Services Office, 460 Schmitz, for more information. Please contact the ESL Center for further information. Each class requires payment of a $265 special fee. Entry codes may be obtained in 103 Lewis Hall.

Enrollment in the summer ESL program does not guarantee admission to the University. For information concerning University admission criteria and the application closing date, see the Admission section of this Bulletin. To assure a reservation in the summer ESL program, contact the English As A Second Language Center, 103 Lewis Hall, DW-12, Seattle, WA 98195, telephone (206) 543-6242.

100 Intermediate ESL for International Students (O)

A. Reading and Writing
Reading comprehension, vocabulary development, and basic writing skills, including review of grammar. Prerequisites: diagnostic examination, $265 fee, and entry code. CR/NC only.

B. Speaking and Listening
Listening for increased efficiency in academic lecture comprehension, note taking, oral summarizing, recognition of idioms. Prerequisites: diagnostic examination, $265 fee, and entry code. CR/NC only.

101 High Intermediate ESL for International Students (O)

A. Reading and Writing
Further improvements of reading comprehension and vocabulary; organizing and developing ideas in writing. Prerequisites: diagnostic examination or completion of 100A, $265 fee, and entry code. CR/NC only.

B. Speaking and Listening
Refinement of listening and speaking skills; speaking and listening in academic situations; presenting arguments effectively in an academic setting. Prerequisites: diagnostic examination or completion of 100B, $265 fee, and entry code. CR/NC only.

102 Advanced ESL for International Students (O)

A. Reading and Writing
Writing and reading skills for preparing and writing the academic research paper. Prerequisites: diagnostic examination or completion of 101A, $265 fee, and entry code. CR/NC only.

B. International Teaching Assistant Training
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 101B. (No fee for qualified ITAs.) CR/NC only.

Environmental Studies (ENV S)

203 Introduction to Physical Sciences and the Environment (S) D
Climate, water, geological and soil processes essential to life. Broad picture of physical processes important in Earth’s evolution. Not recommended for students with 15 or more credits of physical science. Joint with GEOG 205.

499 Undergraduate Research (*)

599 Special Topics in Environmental Studies (*)

General Studies (G ST)

9 Communications Building, DS-60
Telephone: 543-2551

Information about these general studies courses and individual majors in general studies may be obtained from the Arts and Sciences Advising Office at the above address.

350 Independent Fieldwork
(1-6, max. 18)
Off-campus independent fieldwork in community agencies, apprenticeships, internships, as approved for College of Arts and Sciences credit. Faculty sponsor required. Prerequisite: entry code. CR/NC only.

391 Supervised Study in Selected Fields (**, max. 15)
Special supervised study in a field represented in the College of Arts and Sciences. Faculty sponsor required. Prerequisite: entry code. CR/NC only.

493 Senior Study (S)
For general studies majors only. Prerequisite: entry code.

Genetics (GENET)

J205 Health Sciences Center, SK-50
Telephone: 543-1657

360 Introductory Genetics (5) D
Includes transmission of genes and chromosomes, recombination and linkage mapping, genetics of bacteria and viruses, biochemical and molecular genetics, gene regulation and development, population genetics and evolution. Prerequisite: 10 credits in biological or physical sciences. Not open for credit to students who have completed GENET 365. (Formerly 451.)

499 Undergraduate Research (*)
Prerequisite: entry code. CR/NC only.

501 Introduction to Research Materials (3, max. 9)
The student undertakes a research project in one of 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.

600 Independent Study or Research (*)

700 Master’s Thesis (*)

800 Doctoral Dissertation (*)

Geography (GEOG)

408A Smith Hall, DP-10
Telephone: 543-3246

The geography summer offerings include courses meeting social science and natural science distribution requirements and core courses for geography majors, also open to nonmajors.

100 Introduction to Geography (5) D
Basic patterns of human occupancy of the earth; analysis of population, settlement, and resource-use problems; introduction to geographic theories pertaining to spatial organization, interaction, and environmental perception.

200 Introduction to Human Geography (5) D
Patterns and systems of human occupancy of the world. Emphasis on cultural processes, dynamic change, functional relations and networks.

205 Introduction to the Physical Sciences and the Environment (5) D
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 nonscience majors, geography majors and nonmajors. Joint with ENV 5 203.
207 Economic Geography (5) D
The role of technology in the process of industrial change in the turbulent contemporary world. Emphasis on concepts and theories pertaining to the restructuring of the world economy. Focus on change in the composition and location of sectors and industries.

370 Problems in Resource Management (5)
Surveys natural resource and environmental quality management issues in terms of time and space. Considers such management tools and approaches as cost benefit analysis, risk analysis, and multiple-objective concepts, and examines such economic growth/resource issues as global food and population problems, national and global energy problems and environmental issues in the Third World.

410 Immigrants and the American West (5)

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

460 GIS Analysis (5)
Methods of analysis provided by geographic information systems. Operations on map information, including map overlay, aggregation/disaggregation and other spatial and attribute procedures. Exposure to raster and vector software. Review capabilities of currently available GIS software.

495A Special Topics (*, max. 10)
A. Development, Environment, and Health: Interrelationships in Latin America (5)
This course identifies and discusses central concepts in the interrelationships of socio-economic development and the environmental changes in the determination of collective health-disease profiles. The impacts of development processes on urban and rural environments will be discussed and linked to the health outcomes. A central goal of this course is to identify the geographical dimensions of international health. It provides a historical and geographical analysis of the social, economic, and epidemiological differences in the light of international development dynamics.

496 Internship in Geography (3 or 5, max. 12)
Internship in the public or private sector, supervised by a faculty member. Prerequisites: sophomore standing or above in geography, and entry code. CR/NC only.

600 Independent Study or Research (*)
700 Master's Thesis (*)
800 Doctoral Dissertation (*)

Geological Sciences (GEOL)
63 Johnson Hall, AJ-20
Telephone: 543-1190

The department offers courses for majors and graduates as well as for nonmajors who wish some broad training in geological sciences.

205+ Physical Geology (5) D
Introduction to the physical and chemical processes of the earth's surface and interior. Plate tectonics, earthquakes, volcanism, glaciation. Field trips to Cascades and Olympics. Background in geology not required but strong interest in the natural sciences or engineering desirable. Not open for credit to students who have taken 101. This class is suitable for majors and nonmajors.

303A Geologic Hazards (5)
Recognizing and evaluating hazards posed by geologic forces can be important and exciting. We will use readily accessible and dramatic northwest examples to learn more about the hazards of volcanoes, floods, landslides, and earthquakes. This class emphasizes field work and a hands-on approach to learning. Lectures, labs and discussion sections will provide background for four full-day field trips. Prerequisite: 101, 205 or permission of instructor.

308 Geology of the Northwest (5) D
Geology of Washington, British Columbia, and adjacent parts of Oregon and Idaho, utilizing lectures and extensive field trips to classic geological localities, especially on the Columbia plateau, the North Cascades, the Olympic Mountains, and Vancouver Island. Students may choose among lab/field trips offered on weekdays or weekends. This class is suitable for majors and nonmajors.

312 Volcanoes and Glaciers of the Pacific Northwest (3)
Introduction to volcanic and glacial processes, emphasizing examples in the Pacific Northwest. Volcanic products, landforms, hazards, prediction, and history. Relationship to tectonics. Nature and distribution of present and former glaciers in Washington. Two all-day Saturday field trips to Cascade volcanoes required.

401 Field Geology (10)
Geologic mapping in diverse areas in the western United States. Development of skills in mapping, field interpretation and report writing. (Students are responsible for their own living expenses while in the field.) Prerequisites: 101 or 205, 321, 340, and entry code. 306, 311 strongly advised.

498 Undergraduate Thesis (5)
The thesis must be submitted at least one month before graduation. Prerequisite: entry code.

499 Undergraduate Research (*, max. 15)
600 Independent Study or Research (*)
700 Master's Thesis (*)
800 Doctoral Dissertation (*)

Germanics (GERM)
340C Denny Hall, DH-30
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). In addition, Individualized First-Year German (104), emphasizing the acquisition of reading skills, is offered. Students may also complete the entire second-year program and earn 15 credits by enrolling in Intensive Second-Year German (200). Graduate students may enroll in First-Year Reading German (121A and 122A). Advanced undergraduate and graduate students can also enroll in literature courses.

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.

104 Individualized First-Year German (1-15)
Individualized approach to elementary German instruction. Students progress at their own pace. Credits awarded at the end of the quarter vary, depending upon material mastered. 1-15 credits per quarter. CR/NC only.

121 A 122A First-Year Reading German (5,5)
Intensive. Special beginning course devoted exclusively to the reading objective. For graduate and undergraduate students. CR/NC only.

200 Intensive Second-Year German (15)
Accelerated second-year German. Systematic review of German grammar. Intensive practice in conversation, reading and writing. Prerequisite: 103 or equivalent.
230 Conversationa1 German (5)
Intensive conversational German. Discussion of
literary and general topics to develop oral fluency.
Prerequisite: 103 or equivalent.

355 German Literature and Film in
English (3-5, max. 5) D
A. Images of Violence (5)
Deals with the relationships between film and
literature in the German tradition. We will focus on
representations of violence in the two genres, from
violence in the domestic sphere to state-sponsored
forms. Texts from Freud, Marx, Nietzsche to Kafka,
Brech, Mueller, and Jelinek: films from Expressionist
to contemporary examples.

495* Proseminar in German
Literature (3-5, max. 15)
A. German Cinema from Caligari
to Heimat (3)
Intensive study of certain basic principles of
syntactic and semantic analysis and then give
an overview of the major syntactic and semantic
structures of Modern German. Various literary concepts
such as metaphor will also be considered. Students
should have had at least two full years of German
and will be required to write some brief exercises
to familiarize themselves with the methodology employed.
At the conclusion of the course students will present
their own analyses of a literary text of their choice.
Open to graduate and advanced undergraduate students.

498* Studies in German Language
(1-6, max. 15) D
A. Linguistics and Literature (3)
What shall we first provide an introduction to certain
basic principles of syntactic and semantic analysis
and then give an overview of the major syntactic
and semantic structures of Modern German.
Various literary concepts such as metaphor will also
be considered. Students should have had at least two full years of German and will be required
to write some brief exercises to familiarize themselves
with the methodology employed. At the conclusion of the course students will present
their own analyses of a literary text of their choice. Open
to graduate and advanced undergraduate students.

600 Independent Study or
Research (*)
700 Master's Thesis (*)
800 Doctoral Dissertation (*)

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 list-
ings in this and other departments under the
School of Public Health and Community Medicine.

History
315 Smith Hall, DP-20
Telephone: 543-5790

History courses are offered in
- General History
- History of the Americas
- Ancient and Medieval History (including
  Byzantine)
- History of Asia
- Modern European History

The Department of History offers a varied menu 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, The Modern World and Chicano
history at the 100-level, and Military History of the
Ancient World, Survey of the History of the U.S., and
the History of Southeast Asia at the 200-level. History
of Christianity and Early Middle Ages are offered
at the 300-level, as well as Science in Civilization:
Antiquity to 1600, which is not usually scheduled
in the summer.

European history courses on
The French Revolution
and Napoleon and Germany in the two World Wars
and a timely course on the history of Eastern Europe
from 1918 until the present are offered at the
400-level. U.S. history choices include Washington
and the Pacific Northwest, the Civil War and Recon-
struction and a new course on U.S. economic
history. Two courses on American diplomatic history
from 1776 to the present are offered consecu-
tively in the a and b terms. Three colloquia in
history are also scheduled: Utopian Visions in the
Industrial Age, Themes in the History of Modern France,
and The Changing Relationship Between Japan and
America: 1930 to P eerHarbor. The later course will
be taught by Noriko Kawamura, a distinguished
visiting professor from Virginia Military Institute
who is a history graduate of the U. Professor
Kawamura will also teach History of Modern Japan.

General History (HSST)
111 The Ancient World (5) D
Origins of Western civilization to the fall of Rome.

113 The Modern World (5) D
Political, economic, social and intellectual history
of modern Europe. No credit toward a history major
for students who have taken HSTEU 302 or
303.

150# Afro-American History (5) D
A general survey of Afro-American history from
the colonial period to the present. Attention is
given to the earliest contacts between Africans and
European colonial agencies, the political, eco-
nomic, legal, social and cultural impact on Afro-

Americans in North America, since 1619 to the
1980s. Joint with AfrAM 150.

307 History of Christianity (5) D
Christian religion, including doctrine, practice,
church organization, and culture from the time of
Jesus Christ to the present. No attempt to avoid the
controversial aspects of the topic is made, but
the necessity of founding argument on knowledge is
stressed.

311* Science in Civilization: Antiquity
to 1600 (5) D
From preclassical antiquity to the end of the
Middle Ages, stressing the growth of scientific
ideas, the cultural context in which they take
shape, and their relationship to other movements
of thought in the history of civilization.

312 Science in Civilization: Science in
Modern Society (5)
Growth of modern science since the Renaissance,
emphasizing the scientific revolution of the seven-
tenth century, the development of methodology,
and the emergence of new fields of interest and
new modes of thought.

498 Colloquium in History
(3-5, max. 15)
A. Utopian Visions in the
Industrial Age (*)
How have humans conceptualized the ideal soci-
ety? And to what extent have social ideals changed
time in the English-speaking world? These are
the core questions addressed in this seminar course
for advanced undergraduates. The assumption
of the course is that utopian—or, in some cases,
“dystopian”—literature always functions as so-
cial criticism. Thus, this course will focus on the
critical discourses to be found in four utopian nov-
els, rather than upon their respective literary mer-
mits.

B. Themes in the History of
Modern France (*)
Themes in the history of modern France, 1789-
1914; a survey of recent literature on 19th century
France. Colloquium topics include: the secular
ideal and the Catholic Church; the city of Paris
in the 19th century and the Parisian landscape;
the history of private life; rebuilding Paris under
the Second Empire; Michelet and the French Revolu-
tion; Paris’ Universal Expositions and other Par-
sian spectacles.

C. The Changing Relationship
Between Japan and America:
1930 to Pearl Harbor (*)
An investigation and analysis of the turbulent
years between 1930 and 1941, a period of time in
which the diplomatic relationships between the
two major Pacific powers grew increasingly un-
easy until events in both countries, and in
the world at large, seemed to make a war between
Japan and the United States inevitable.

See the Time Schedule section, pages 73-113, for class dates and times.
499 Undergraduate Research (1-5, max. 15)  
Prerequisite: entry code.

600 Independent Study or Research (*)

700 Master's Thesis (*)

800 Doctoral Dissertation (*)

History of the Americas (HSTAA)

150+ Afro-American History (5) D  
A general survey of Afro-American history from the colonial period to the present. Attention is given to the earliest contacts between Africans and European colonial agencies, the political, economic, legal, social and cultural impact on Afro-Americans in North America, since 1619 to the 1980s. Joint with AFRA 150.

180+ History of the Chicano People to 1848 (5)  
Historical survey of the Chicano people since the war between the United States and Mexico.

201+ Survey of the History of the United States (5) D  
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.

373 Social History of American Women (5)  
A multi-racial, multicultural study of women in the U.S. from the 16th century to the present: an emphasis on women's unpaid labor, workplace participation in the paid labor force, charitable and reform activities, and feminist movements of the 19th and 20th centuries. Use of primary materials such as diaries, letters, speeches, and artifacts. Joint with WOMEN 383. Prerequisite: WOMEN 200 or WOMEN 283 or HSTAA 201 or permission of instructor.

411+ The United States During the Era of Civil War and Reconstruction (5)  
Conflicting interests, ideologies, and ways of life in the United States from the 1840s to the 1870s.

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

445+ Economic History of the United States (5)  
Growth and development of the U.S. economy from the colonial period to the present. Follows the course of economic change, examines contemporary reactions, and analyzes implications for American society and politics.

461+ Diplomatic History of the United States, 1776-1901 (5)  
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.

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

Ancient and Medieval History (including Byzantine) (HSTAM)

205 Military History of the Ancient World (5)  
Military history from prehistoric times to the fall of the Roman Empire, with special emphasis on the Greco-Roman period and the campaigns of Alexander the Great, Hannibal, Scipio Africanus, and Julius Caesar.

331+ Early Middle Ages (5) D  
The Dark Ages, feudalism, emergence of the medieval order of civilization, and the development of Romanesque culture.

History of Asia (HSTAS)

221+ History of Southeast Asia (5) D  
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. Joint with SIS 221.

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

Modern European History (HSTEU)

422+ The French Revolution and Napoleon: 1789-1815 (5)  
Transformation of France under the Revolution of 1789; the Reign of Terror and Napoleon; the impact of the revolution and Napoleon upon Europe.

432 Germany: 1914-1945 (5)  
Politics and society from the collapse of the Bismarckian empire to the collapse of Hitler's empire.

440 History of Communism (5)  
Communism from its origins in the Bolshevist faction of Russian social democracy to the present, treating the development of the ideology, the various communist parties, and the communist states. Joint with SIS 440. Prerequisites: two courses in modern European history or politics.

452 Eastern Europe Since 1918 (5)  
Poland, Czechoslovakia, Hungary, Romania, Yugoslavia, Bulgaria, and Albania, from the end of World War I to the present. Prerequisite: 451 or permission of instructor.

The Henry M. Jackson School of International Studies

111 Thompson Hall, DR-05  
Telephone: 543-4370

Henry M. Jackson School of International Studies courses are offered in:

• African Studies  
• Canadian Studies  
• Chinese Regional Studies  
• Comparative Religion  
• International Studies  
• Japanese Regional Studies  
• Jewish Studies  
• Korean Regional Studies  
• Latin American Studies  
• Middle Eastern Studies  
• Russian and East European Studies  
• South Asian Studies  
• Southeast Asian Studies

In addition to the courses listed below, students may register for independent study courses (499, 600, or 700) in such other interdisciplinary regional and topical programs of the School as African Studies, East Asian Studies, International Studies, Jewish Studies, Latin American Studies, Middle Eastern Studies, South Asian Studies, Russian and East European Studies, Comparative Religion, Canadian Studies, Southeast Asian Studies, and in program-related undergraduate courses offered by other academic units. Consult the International Studies advisory offices in Thompson Hall for additional information.

African Studies (SISAF)

499 Undergraduate Research (3-5, max. 15)

Canadian Studies (SISCA)

341+ Government and Politics of Canada (5)  
499 Undergraduate Research 
(3-5, max. 15)

Chinese Regional Studies 
(SISEA)
499 Undergraduate Research 
(3-5, max. 15)
600 Independent Study or 
Research (*)
700 Master’s Thesis (*)

Comparative Religion (RELG)
201 History of World Religions: 
Western Traditions (5)
History of religions, concentrating on religious 
traditions that have developed west of India. 
Primary attention to the Semitic religions (Judaism, 
Christianity, Islam) and to their ancient world 
background, with emphasis on basic conceptual 
and symbolic structures.

220 Introduction to the New 
Testament (5)
Modern scholarly methods of research and analysis 
in dealing with New Testament books and their 
interpretation. Genres of various books (gospel, 
epistle, sacred history, apocalypse); problems of the 
relationships among author, material, and intended audience; relationships between theme and image.

499 Undergraduate Research 
(1-5, max. 15)
600 Independent Study or 
Research (*)

International Studies (SIS)
330 Political Economy of 
Development (5)
Growth, income, distribution, and economic development in less-developed countries today. Policies concerning trade, industrialization, the agricultural sector, human resources, and financing of development. Prerequisites: ECON 200, 201.

421 National Security and 
International Affairs (5)
Major military aspects of contemporary international politics. Uses and limitations of military capabilities for sustaining a stable international order and national security. Processes by which states detect and assess threats to their security; practice of deterrence; transfer of arms among states; pursuit of arms control. Recommended: course work in international relations.

426 World Politics (5)
Nation-state system and its alternatives; world distributions of preferences and power; structures of international authority; historical world societies and their politics. Joint with POL S 426.

440 History of Communism (5)
Communism from its origins in the Bolshevik faction of Russian social democracy to the present, treating the development of the ideology, the various communist parties, and the communist states. Joint with HSTEU 440. Prerequisites: two courses in modern European history or politics.

450 Political Economy of Women 
and Family in the Third 
World (5)
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. Joint with SOC 450.

490 Special Topics (1-5, max. 15)
A. Comparative Law: Europe, Latin 
America, and East Asia (5)
Cross-cultural view of the roles of law and legal institutions in industrial and developing societies in Europe, Latin America, and East Asia. Joint with LAW 459/8559.

Latino American Studies 
(SISLA)
499 Undergraduate Research 
(3-5, max. 15)

Middle Eastern Studies 
(SISME)
600 Independent Study or 
Research (*)
700 Master’s Thesis (*)

Russian and East European 
Studies (SISRE)
324 Soviet Society (5)
Political, economic, and social institutions, and the literature and fine arts of the Soviet Union.

499 Undergraduate Research 
(1-5, max. 15)
600 Independent Study or 
Research (*)
700 Master’s Thesis (*)

South Asian Studies (SISSA)
499 Undergraduate Research 
(3-5, max. 15)
600 Independent Study or 
Research (*)
700 Master’s Thesis (*)

Southeast Asian Studies 
(SISSE)
221 History of Southeast Asia (5)
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; 19-20th century nationalist and revolutionary movements; emergence of Southeast Asia as a region in the modern world. Joint with HSTAS 221.

314 Civilization of Island Southeast 
Asia (5)
Cultural, political, economic traditions of insular Southeast Asia, Indonesia, Malaysia, the Philippines. Early Indanized states; growing influence of Islam; Western European conquests; developed colonial societies, their legacies; modern nationalism, problems faced by newly independent states; important cultural continuities. Joint with ANTH 314. Prerequisite: one 200-level international studies or anthropology course.

499 Undergraduate Research 
(1-5, max. 15)

See the Time Schedule section, pages 73-113, for class dates and times.
Linguistics (LING)

A210 Padelford Hall, GN-40
Telephone: 543-2046

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

200+ Introduction to Linguistic Thought (5) D

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.

400A Survey of Linguistic Method and Theory (4)

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.

449 Second-Language Learning (3)

Issues related to the psychological aspects of second-language learning. Prerequisite: 200 or 400 or permission of instructor.

451A Phonology I (4)

Speech sounds, mechanism of their production, and structuring of sounds in languages auto-segmental and metrical phonology. Joint with ANTH 451A. Prerequisite: 200 or 400 (400 can be taken b term) or permission of instructor.

461A 462A Syntax I, II (4,4)

Study of the structural properties of language; introduction to generative transformational syntax. Joint with ANTH 461A, 462A. Prerequisite: 200 or 400 (400 can be taken b term) or permission of instructor.

499 Undergraduate Research (1-5)

600 Independent Study or Research (*)

700 Master's Thesis (*)

800 Doctoral Dissertation (*)

Mathematics (MATH)

C36 Padelford Hall, GN-50
Telephone: 543-6830

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

Also see Statistics.

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

111 Algebra with Applications (5) DP

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) DP

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: For sections taught during the day: 111; for evening section: 111 or 120.

120 Precalculus (5)

Elementary functions with emphasis on the general nature of function; polynomial, rational, exponential, logarithmic, and trigonometric functions. There is heavy emphasis on story problems and working with graphs. Not open for credit to students who have taken 111. Prerequisites: two years of high school algebra and qualifying test, or X101 or equivalent.

124 Calculus with Analytic Geometry I (5) DP

Differentiation, 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 and normally 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) D

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) D

Vectors and vector functions in space, functions of several variables and applications, multiple integrals. Prerequisite: 125.

170 Mathematics for Elementary School Teachers (3) D

Development of the systems of whole numbers, integers, and rational numbers; measurement; basic geometric concepts. Ordinarily, credit may not apply toward a major in mathematics. Elementary education majors are required to take 170. Prerequisites: one and one-half years of high school algebra and one year of geometry. CR/NC only.

205 Elementary Linear Algebra (3)

Systems of equations, vector spaces, matrices, linear transformations, characteristic vectors. Not open for credit to students who have taken 308. Prerequisite: 124 or 157.

301 Elementary Number Theory (3)

Brief introduction to some of the fundamental ideas of elementary number theory. Prerequisite: 126 or 136.

307 Introduction to Differential Equations (3)

Taylor Series. First and second order ordinary differential equations. Joint with AMATH 341. Prerequisite: 125; 126 strongly recommended.

308 Linear Algebra with Applications (3)

Systems of linear equations, vector spaces, matrices, subspaces, orthogonality, least squares, eigenvalues, eigenvectors, applications. For students in engineering, mathematics, and the sciences. Prerequisite: 126.

309 Linear Analysis (3)

First order systems of linear differential equations, Fourier series, and partial differential equations, the phase plane, and/or Laplace transforms. Prerequisite: 307, 308.

328 Advanced Calculus I (3)

Vector and scalar fields, line integrals, surface and volume integrals, theorems of Green, Gauss, and Stokes. Prerequisite: 126.

329 Advanced Calculus II (3)

Infinite series (tests, absolute convergence, uniform convergence), power series (interval of convergence, real analytic functions), improper integrals, and functions defined by integrals. Prerequisites: 126 and 307.

390 Probability and Statistics in Engineering and Science (4)

Concepts of probability and statistics. Conditional probability, independence, random variables, distribution functions. Descriptive statistics, transformations, sampling errors, confidence intervals, least squares, and max. likelihood, Exploratory data analysis and interactive computing. Joint with STAT 390. Students may not receive credit for both 390 and STAT 481. Prerequisites: 307 or 328, and 205 or 308.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>394</td>
<td>Probability I (3)</td>
<td>Sample spaces; basic axioms of probability; combinatorial probability; conditional probability and independence; binomial; Poisson, and normal distribution. Joint with STAT 394. Prerequisite: 328.</td>
</tr>
<tr>
<td>395A</td>
<td>Probability II (3)</td>
<td>Random variables; expectations and variance; laws of large numbers; normal approximation and other limit theorems; multidimensional distributions and transformations. Joint with STAT 395A. Prerequisite: 394.</td>
</tr>
<tr>
<td>402</td>
<td>403A Introduction to Modern Algebra (3,3)</td>
<td>Intensive. Algebraic systems; elementary theory of groups, rings, and fields; polynomials; topics in linear algebra; reductions of forms. Prerequisites: 308 or 336 for 402; 402 for 403.</td>
</tr>
<tr>
<td>407</td>
<td>Linear Optimization (3)</td>
<td>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.</td>
</tr>
<tr>
<td>411</td>
<td>412A Introduction to Modern Algebra for Teachers (3,3)</td>
<td>Development of the number systems of elementary algebra: groups, rings, integral domains, and fields; polynomials. Designed for teaching majors. Not open for credit to students who have taken 402 or 403. Prerequisite: 205 or 308.</td>
</tr>
<tr>
<td>420</td>
<td>History of Mathematics (3)</td>
<td>Survey of the development of mathematics from its earliest beginnings through the first half of the 20th century. Prerequisite: 402 or 411.</td>
</tr>
<tr>
<td>427</td>
<td>Topics in Applied Analysis (3)</td>
<td>Some elementary functions of a complex variable, Cauchy integral formula, and applications, Taylor and Laurent series, conformal mapping. Prerequisite: 334 or 329.</td>
</tr>
<tr>
<td>429A</td>
<td>Topics in Applied Analysis (3)</td>
<td>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: 428.</td>
</tr>
<tr>
<td>445</td>
<td>Foundations of Geometry (3)</td>
<td>Axiomatic treatment of the foundations of Euclidean geometry. Introduction to non-Euclidean geometry. Designed for teaching majors. This summer emphasis on Euclidean and non-Euclidean geometry using the LOGO computer language as a tool for understanding geometry. No previous knowledge of LOGO is assumed but students are expected to learn enough LOGO during the course to do geometry projects. Prerequisite: 444, which may be taken concurrently. Students must also register for two credits of 487.</td>
</tr>
<tr>
<td>487</td>
<td>Advanced Mathematics Computer Lab (1/2, max. 6)</td>
<td>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.) Prerequisite: enrollment in MATH 445. CR/NC only.</td>
</tr>
<tr>
<td>498</td>
<td>Special Topics in Mathematics (1-5, max. 15)</td>
<td>Reading and lecture course intended for special needs of advanced students. Prerequisite: permission of instructor.</td>
</tr>
<tr>
<td>510</td>
<td>Seminar in Algebra (2-5, max. 5)</td>
<td>Prerequisite: permission of graduate program coordinator. CR/NC only.</td>
</tr>
<tr>
<td>530</td>
<td>Seminar in Analysis (2-5, max. 5)</td>
<td>Prerequisite: permission of graduate program coordinator. CR/NC only.</td>
</tr>
<tr>
<td>550</td>
<td>Seminar in Geometry (2-5, max. 5)</td>
<td>Prerequisite: permission of graduate program coordinator. CR/NC only.</td>
</tr>
<tr>
<td>570</td>
<td>Seminar in Topology (2-5, max. 5)</td>
<td>Prerequisite: permission of graduate program coordinator. CR/NC only.</td>
</tr>
<tr>
<td>590</td>
<td>Seminar in Probability (2-5, max. 5)</td>
<td>Prerequisite: permission of instructor. CR/NC only.</td>
</tr>
<tr>
<td>600</td>
<td>Independent Study or Research (*)</td>
<td>Special problems in microbiology or immunology. Prerequisite: entry code.</td>
</tr>
<tr>
<td>700</td>
<td>Master's Thesis (*)</td>
<td>Specific problems in microbiology or immunology. Prerequisite: entry code; senior standing desirable. CR/NC only.</td>
</tr>
<tr>
<td>800</td>
<td>Doctoral Dissertation (*)</td>
<td>Specific problems in microbiology or immunology. Prerequisite: entry code; senior standing desirable. CR/NC only.</td>
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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>500</td>
<td>Introduction to Research (*, max. 20)</td>
<td>Introduction to research areas of the faculty and the techniques employed in their investigations. Prerequisite: graduate standing in microbiology. CR/NC only.</td>
</tr>
</tbody>
</table>

Microbiology (MICRO)

G311 Health Sciences Center, SC-42
Telephone: 543-5824

The course in 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 carried on during the summer through research and seminars.

301 General Microbiology (3) D

Acquaints students with microorganisms and their activities. Topics include microbial cell structure and function, metabolism, microbial genetics, and the roles of microorganisms in disease, immunity, and other selected areas. Prerequisite: two quarters of chemistry; a course in biological science is recommended.

302 General Microbiology Laboratory (2) D

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)

Practical work in preparation of culture media. Nutritional requirements of microorganisms and sterilization methods are considered. For students expecting to enter vocations involving laboratory work with bacteria. Prerequisites: 301 and 302, or equivalent, and entry code. CR/NC only.

495 Honors Undergraduate Research (*)

Specific problems in microbiology or immunology. Prerequisite: entry code.

496 Undergraduate Library Research (2)

Introduction to library research and to microbiological literature. Topics are assigned and supervised by staff members. Prerequisite: entry code; senior standing desirable. CR/NC only.

499 Undergraduate Laboratory Research (*)

Specific problems in microbiology or immunology. Prerequisite: entry code; senior standing desirable. CR/NC only.

See the Time Schedule section, pages 73-113, for class dates and times.
Music

532 Seminar in General Microbiology (1, max. 15)
Weekly seminar concerning research topics in the genetics and biochemistry of selected bacteria. CR/NC only. Prerequisites: 410 and permission of instructor.

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. CR/NC 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. CR/NC only.

600 Independent Study or Research (*)

700 Master's Thesis (*)

800 Doctoral Dissertation (*)

Music

116 Music Advising. DN-10
Telephone: 543-1239

Music courses are classified as:
- Courses Primarily for Nonmajors
- Courses Primarily for Music Educators and Music Majors
- Special One- and Two-Week Music Education Workshops
- Courses Primarily for Music Majors
- Ensemble Courses and Applied Music

The School of Music offers a varied program for both the graduate and undergraduate student. Many short workshops are planned. The dates for these workshops are specified before the course description.

Of special interest to the general student are the courses for nonmajors, which, as a group, present a wide spectrum of musical experiences, and the band, orchestra, and choral ensemble groups.

Of particular interest to the music educator are the MUSED 496 courses (Special Topics in Music Education), many of which are special one- or two-week workshops.

Community members are encouraged to participate in the summer band program (MUSEN 302/502) under the direction of Tim Salzman, summer choral program (MUSEN 350/550) under the direction of Joan Conlon, and summer orchestra program (MUSEN 301/501) under the direction of Johan Louwersheimer. Interested persons should contact the conductor or Music Advising Office.

Entry codes are required for all courses except MUSIC 116, 117, 161, 162, 317, 331, MUSEN 200, the MUSED 496 Special Workshops, and the MUSEN ensemble courses.

Primarily for Nonmajors

Music Education (MUSED)

200 Music and the Child (3)
Introductory orientation to music designed to acquaint the student with the structure and aesthetic elements in music and those music-related processes of self-expression and communication basic to a child's education.

Music (MUSIC)

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

117 Elementary Music Theory II (2) D
Continuation of MUSIC 116. Prerequisite: 116 or some music training including the ability to read music.

161 American Music Theater (5) D
Historical and stylistic study of the development of the American musical theater. European roots in opera and operetta. Contributions from jazz and popular music. Selected musicals studied.

162 American Popular Song (5) D
Historical, social, and stylistic study of popular idioms from the late nineteenth century to the present. Most attention to contemporary idioms. Influences of music industry on style and style.

317 Music Culture of the World (5) D
Music of sub-Saharan Africa, Americas, and Oceania.

331 History of Jazz (3) D
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.

Primarily for Music Educators and Music Majors

Music Education (MUSED)

452 Ethnomusicology in the Public Schools (3)
Issues, teaching materials, and techniques involved in incorporating music cultures of the United States and related world music repertoires in K-12 classroom instruction.

453 Approaches to Classroom Instruction K-12 (2)
Examines such major instructional approaches as MMCP, Orff, Kodaly, and Dalcroze. Included are the philosophy of each and the methods, materials, and instructional skills needed for the classroom. Prerequisite: 340 or permission of the instructor.

496 Special Topics in Music Education (1-3, max. 10)

C. Percussion Techniques (2)
The study of basic percussion techniques as they apply to music in the public schools. Acquaints the prospective music education major with percussion performance and teaching techniques.

496+ Special Topics in Music Education (1-3, max. 10)

A. MIDI Techniques (2)
Overview of MIDI (Musical Instrumental Digital Interface) technologies in the school environment.

V. Conducting (2)
Emphasis on beat patterns and their expressive modifications, basic rehearsal techniques, and score study. Suitable for choral or instrumental conductors of intermediate level. Permission of instructor required.

496A Special Topics in Music Education (1-3, max. 10)

B. MIDI Techniques (2)
Overview of MIDI (Musical Instrumental Digital Interface) technologies in the school environment.

542A Comparative Music Education (3)
A transcultural examination of philosophy and practice in music instruction.

561 Seminar in Theories of Music Instruction (3)
Theories of music instruction, with special attention to curriculum, instructional procedures, and assessment of learning. Prerequisite: 555 or permission of instructor.

Music (MUSIC)

389, 589 World Music Laboratory (3, max. 18)
The MUSIC 389/589 sections include private instruction and/or ensemble playing in various world music traditions. Entry codes are required.

A. Javanese Gamelan
B. Persian Classical Music
C. Cambodian Court Music

599 Advanced Selected Topics (2)
One- and Two-Week Music Education Workshops

Music Education (MUSED)

496* Special Topics in Music Education (1-3, max. 10)

G. Jazz Literature and Rehearsal Techniques (2)
June 22-July 2 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).

H. Junior High Band Literature (1)
June 22-25 An overview of “cornerstone” band literature for the junior high school band.

I. Tin Pan Alley (1)
July 20-23 Survey of American popular music from 1885 to 1956.

K. Evaluation of Performance Ensembles (1)
August 10-13 An overview of the adjudication process for school music ensembles.

L. Small Instrumental Ensemble (1)
July 13-16 Emphasis will be on chamber music literature for school use.

N. Teaching Steel Drum Ensemble (1)
June 29-July 2 Repertoire and techniques for introducing the performance of steel drum ensemble in elementary and middle schools.

O. Children’s Folk Songs and Singing Games (1)
June 22-25 Exploration of traditional children’s songs and singing games with emphasis on the teaching of melodic and rhythmic elements.

P. Vocal Jazz Ensemble Clinic (2)
July 6-16 The course will provide an exploration of vocal jazz music for teachers of middle school and high school choral ensembles. Sessions will include listening, performing, and topics such as the stylizing of melodic lines, improvisation, and the jazz repertoire.

T. Senior High Band Literature (1)
June 29-July 2 An overview of “cornerstone” band literature for the high school band.

U. Instrumental Rehearsal Techniques (2)
July 6-16 Course will include topics such as score preparation, rehearsal formats, and error detection. Basic conducting skills required.

496A Special Topics in Music Education (1-3, max. 10)

F. Marching Band Techniques (1)
July 27-30 Sessions will include an examination of the contemporary marching band relative to various styles of drill design, arranging, and administration.

J. Roots of Rock and Roll (1)
July 27-30 The rise of Rhythm and Blues and development of Rock and Roll.

M. Teaching the Music of Hawaii (1)
August 3-6 Survey of music, arts, and culture in the Hawaiian Islands with emphasis on participatory experience for youth in teaching elementary and middle school.

W. Integrating Arts in Education (1)
August 10-13 Theoretical principles and historical background for integrating the arts in education are provided, along with the application of principles to K-12 instructional practice.

Primarily for Music Majors

Music (MUSIC)

336* Jazz Arranging (2)
Writing in jazz style for various instrumental combinations.

367* Beginning Jazz Improvisation I (1)
Beginning jazz improvisation techniques used in the performance of basic jazz styles such as the blues. Prerequisite: MUSIC 212 or permission of the instructor.

368A Beginning Jazz Improvisation II (1)
Prerequisite: 367 or permission of instructor.

379 Junior Recital (1)

479 Senior Recital (1)

499 Undergraduate Research (*)

555 Systematic Methods of Music Research (3)

Seminar in problem identification and definition, theory development, research design, data analysis, and interpretation; an examination of the philosophy of science in music research.

559 Master’s Recital (3)

580A Advanced Instrumental Conducting (3)

583A Advanced Chorale Conducting (3)

590 Doctoral Recital (*)

600 Independent Study or Research (*)

700 Master’s Thesis (*)

800 Doctoral Dissertation (*)

Music History (MUSH)

426 American Popular Music (3)
An in-depth consideration of American popular music styles and repertory from about 1920 to the present day. Analysis of representative pieces; consideration of critical and aesthetic issues relating to popular music; relationship of popular music to "art" music and to American culture and society. Prerequisites: 312, 314.

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.

Ensemble Courses and Applied Music (MUSEN)

This summer private instruction in flute, piano, French horn, clarinet, saxophone, cello, violin, and voice are offered. Admission to these courses is by audition before the appropriate faculty. An additional fee of $45 is charged for private instruction. Entry codes are required.

Special programs in Timpani/Percussion and String Bass will be offered by Michael Cruse and Barry Leiberman, both of the Seattle Symphony. Instruction will be an integrated offering of private lessons, ensemble, and master classes. Call the Advising Office at 543-1299 for more information.

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.

300/300 University Orchestra (1)
302/502 Concert Band (1)
350/350 University Chorale (1) D

See the Time Schedule section, pages 73-113, for class dates and times.
Near Eastern Languages and Civilization

229 Denny Hall, DH-20
Telephone: 543-6033

Near Eastern Languages and Civilization courses are offered in:
- Arabic
- Georgian
- Hebrew
- Kazakh
- Persian
- Tajik
- Turkish
- Uzbek
- Near Eastern Courses in English

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

Arabic (ARAB)

315 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.

316 Intensive Spoken Arabic (10)
Intensive study of grammar, with oral drill. Allows students to acquire a thorough knowledge of grammar of modern spoken Arabic (western).

425 Intensive Intermediate Arabic (15)
Readings of selected texts in standard Arabic, with continuing emphasis on grammar and syntax. Allows undergraduate and graduate students to complete second year Arabic during Summer Quarter. Prerequisite: ARAB 315 or 313.

470 Intensive Arabic Morphology and Syntax (15)
Designed to allow graduate students to complete the first year of Arabic during Summer Quarter. Intensive study of grammar, oral and written drill, and readings of selected texts. Prerequisite: graduate standing.

486 Intensive Spoken Arabic Morphology and Syntax (10)
Intensive study of grammar, with oral drill. Allows graduate student to acquire a thorough knowledge of grammar of modern spoken Arabic (western). Prerequisite: graduate standing.

Georgian (NE)

315 Intensive Elementary Georgian (15)
Intensive study of grammar, with oral and written drill, and reading of selected texts. Allows students to complete the first year of Georgian during Summer Quarter. Emphasis is placed on the development of oral, reading, and writing comprehension.

485 Intensive Georgian Morphology and Syntax (15)
Allows graduate students to complete first year Georgian during Summer Quarter. Intensive study of grammar, with oral drill. Emphasis placed on the development of oral, reading, and writing comprehension.

Hebrew (HEBR)

315 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 HEBR 311, 312, 313 taken.

424 Intensive Intermediate Hebrew (15)
Readings of selected texts in Hebrew, with continuing emphasis on grammar and syntax. Allows undergraduate and graduate students to complete second year Hebrew during Summer Quarter. Prerequisite: HEBR 313 or 315.

470 Intensive Hebrew Morphology and Syntax (15)
Designed to allow graduate students to complete the first year of Hebrew during Summer Quarter. Intensive study of grammar, 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. No credit if HEBR 471, 472, 473 taken. Prerequisite: graduate standing.

Kazakh (TKISH/TKIC)

317 Intensive Elementary Kazakh (15)
Intensive study of grammar, with oral and written drill, and reading of selected texts. Allows students to complete the first year of modern literary Kazakh during Summer Quarter.

427 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: TKISH/TKIC 317.

477 Intensive Kazakh Morphology and Syntax (15)
Designed to allow graduate students to complete the first year of modern literary Kazakh during Summer Quarter. Intensive study of grammar, oral and written drill, and readings of selected texts. Prerequisite: graduate standing.

Persian (PRSAN)

315 Intensive Elementary Persian (15)
Modern Persian. Intensive study of grammar, with oral and written drill and reading of selected texts. Allows student to complete the first year of Persian during Summer Quarter.

425 Intensive Intermediate Persian (15)
Readings of selected texts in modern Persian, with continuing emphasis on grammar and syntax. Allows undergraduate and graduate students to complete second year Persian during Summer Quarter. Intensive study of grammar, oral and written drill, and readings of selected texts. Prerequisite: PRSAN 313 or 315.

485 Intensive Persian Morphology and Syntax (15)
Designed to allow graduate students to complete the first year of modern Persian during Summer Quarter. Intensive study of grammar, oral and written drill, and readings of selected texts. Prerequisite: graduate standing.

Tajik (PRSAN)

314 Intensive Elementary Tajik (15)
Modern literary Tajik. Intensive study of grammar, with oral and written drill and reading of selected texts. Allows student to complete the first year of Tajik during Summer Quarter.

470 Intensive Tajik Morphology and Syntax (15)
Designed to allow graduate students to complete the first year of modern literary Tajik during Summer Quarter. Intensive study of grammar, oral and written drill, and readings of selected texts. Prerequisite: graduate standing.

Turkish (TKISH)

315 Intensive Elementary Turkish (15)
Allows students to complete the first year of Turkish during Summer Quarter. Intensive study of grammar, with oral and written drill and reading of selected texts.
Central Speakers, all leading personalities of the Central College and written. drill, and readings of selected texts. Offered 478

Uzbek (TKISH/TKIC)

316 Intensive Elementary Uzbek (15)
Intensive study of grammar, oral and written drill and reading of selected texts. Allows student to complete the first year of modern literary Uzbek during Summer Quarter. Joint with TKIC 316.

426 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: TKISH/TKIC 303 or 316.

478 Intensive Uzbek Morphology and Syntax (15)
Designed to allow graduate students to complete the first year of modern literary Uzbek during Summer Quarter. Intensive study of grammar, oral and written drill, and readings of selected texts. Prerequisite: graduate standing. Joint with TKIC 478.

Near Eastern Courses in English (N E)

496, 596 Special Studies in Near Eastern Languages and Civilization (3-5, max. 15)

A. Central Asia in Transition (3)
Offered as part of Central Asian Languages Summer Program's cultural component. About seven speakers, all leading personalities of the Central Asian Republics (Uzbekistan, Kazakhstan, Tajikistan) will address various aspects of the topic: Central Asia in Transition. Coordinator of the course is Professor Ilse Cirtautas. Prerequisite: graduate standing for 596.

B. Islamic Art (3)
June 22-July 2 Two-week intensive course in Islamic Art. Joint with ART H 400.

C. Calligraphy and Islamic Architecture (3)
July 6-17 An overview of the history and styles of calligraphy and its uses in Islamic architecture. Kufic styles, Square Kufic, and Cursive styles will be presented as decorative and literary devices. The effects of different construction materials and techniques will be analyzed.

490 Supervised Study (1-6)
Special work in Near Eastern studies for undergraduates. Prerequisite: permission of instructor.

600 Independent Study or Research (1-9)

Philosophy (PHIL)
345 Savery Hall, DK-50
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 courses are concerned with the clarification of philosophical issues that arise in considering reasoning, ethics, art, literature, morality, and religion. Also offered will be courses in philosophy of mind, history of modern philosophy, and figures and problems in Indian philosophy.

100 Introduction to Philosophy (5) D
Major philosophical questions relating to such matters as ethics, the existence of God, the foundations of knowledge, and the nature of reality. Problems studied and works read vary.

102 Contemporary Moral Problems (5) D
Philosophical consideration of some of the main moral problems of modern society and civilization, such as abortion, euthanasia, capital punishment, obligation to the poor, and reverse discrimination. Topics vary.

115 Practical Reasoning (5) P
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, is considered.

120 Introduction to Logic (5) DP
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.

240 Introduction to Ethics (5) D
Critical study of some typical views of the basis and presuppositions of morality and of moral knowledge. Consideration of such topics as ethical relativism vs. ethical objectivism, cognitivism vs. non-cognitivism, principle-based ethics, virtue ethics, and communitarian ethics.

267 Introduction to Philosophy of Religion (5) D
Study of religious thought. Examination of the problem of evil, atheism, and theism, and of the relationship between religion and morality, the function of religious language, and life after death.

322 Modern Philosophy (5) D
Examination of metaphysical and epistemological problems from the works of Descartes, Spinoza, Locke, Berkeley, Hume, and Kant.

347 Philosophy in Literature (5) D
Study of philosophical ideas expressed in works of literature. The focus of the course will be on Heidegger's conception of philosophy and some incitements to philosophical reflection to be found in the works of Rilke and Kafka.

350 Introduction to Epistemology (4) D

363 Introduction to the Philosophy of Mind (5) D
Various theories of the nature of mind, the relationship between mind and body, the self, memory, the unconscious, introspection, and knowledge of other minds. Recommended: one course in philosophy.

413 Studies in Indian Philosophy (3, max. 9)
One or more individual figures or problems in Indian philosophy selected by the instructor. Topics to be covered: Does the self exist? Does the external world exist? Do universals exist? Does God exist? Recommended: 386, 412 or some knowledge of Indian philosophy.

445A Philosophy of Art (5) D
Critical examination of various accounts of the nature of art, artistic activity, the esthetic experience. The philosophy of criticism, the role of the critic, and problems in interpretation and evaluation of works of art.

484 Reading in Philosophy (1-5, max. 15)
Reading of approved philosophical works. Prerequisites: permission of instructor and entry code.

See the Time Schedule section, pages 73-113, for class dates and times.
101-102 Introductory Physics (5-5) D
Basic concepts of physics presented in a laboratory setting. Useful for students whose high school preparation in science is weak and who plan to take standard college science courses. Also provides background needed by teachers for effective use of science curriculum materials in the schools. Prerequisites: 101- for 101-102, 102 for 103.

110 Liberal Arts Physics (5) DP
The scientific revolution of the 17th century, the conceptual development of classical mechanics, and the Newtonian world picture. Primarily for students in the arts, humanities, and social sciences.

114 General Physics (4) D
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 117 strongly recommended. Prerequisites: working knowledge of algebra and trigonometry, and one year of high school physics.

115 General Physics (4) D
Heat and electromagnetism. Concurrent registration in 118 strongly recommended. Prerequisite: 114.

116 General Physics (4) D
Light and modern physics. Concurrent registration in 119 strongly recommended. Prerequisite: 115.

117 General Physics Laboratory (1) D
Mechanics laboratory, to be taken concurrently with 114 or 121. CR/NC only.

118 General Physics Laboratory (1) D
Heat and electromagnetism laboratory, to be taken concurrently with 115 or 122. CR/NC only.

119 General Physics Laboratory (1) D
Sound, light, and modern physics laboratory, to be taken concurrently with 116 or 123. CR/NC only.

121 Mechanics (4) D
Basic principles of mechanics. Concurrent registration in 131 strongly recommended. Prerequisites: one year of high school physics or permission, concurrent or previous MATH 124 or 135.

122 Electromagnetism and Oscillatory Motion (4) D
Basic principles of electromagnetism, the mechanics of oscillatory motion. Concurrent registration in 132 strongly recommended. Prerequisites: 121, concurrent or previous MATH 125 or 135.

123 Waves (4) D
Electromagnetic waves, optics, and waves in matter. Concurrent registration in 133 strongly recommended. Prerequisites: 122, concurrent or previous MATH 126 or 136.

131 Experimental Physics (1) D
Experimental topics in physics for science and engineering majors. Prerequisite: concurrent or previous 121.

132 Experimental Physics (1) D
Experimental topics in physics for science and engineering majors. Prerequisite: concurrent or previous 122.

133 Experimental Physics (1) D
Experimental topics in physics for science and engineering majors. Prerequisite: concurrent or previous 123.

224 Thermal Physics (3) D
Introduction to heat, thermodynamics, elementary kinetic theory, and the physics of continuous media. Prerequisites: 122, concurrent or previous MATH 126 or 136.

225 Modern Physics (3) D
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.

227 Elementary Mathematical Physics (3)
Applications of mathematics to physics with emphasis on the mechanics of particles and of continuous systems. Prerequisites: 123 and MATH 307.

401 Special Problems (*)
Supervised individual study. Prerequisite: entry code.

427 Applications of Physics (3)
Current applications of physics to problems in the sciences and technology.
204 Introduction to Comparative Politics (5) D
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) D
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. Joint with PHIL 206 and WOMEN 206.

270 Introduction to Political Economy (5) D
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 wide range of substantive issues.

310 The Western Tradition of Political Thought, Modern (5)
Continuation of 308 and 309, focusing on material from the eighteenth through twentieth centuries, from Rousseau through Lenin. Recommended: 201.

318 American Political Thought I (5)
Major thinkers and themes in American political and cultural development from Puritan origins to the Civil War.

321 American Foreign Policy (5) D
Constitutional framework; major factors in formulation and execution of policy; policies as modified by recent developments; the principal policy-makers—President, Congress, political parties, pressure groups, and public opinion. Recommended: 101 or 202.

324 Europe in World Politics (5)
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)
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 the superpowers.

341 Government and Politics of Canada (5)

346 Government of Western Europe (5)
Modern government and politics of Great Britain, France, Germany, and Italy.

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

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

381 Introduction to Large City Government and Politics in United States (5)
Contemporary large-city politics. Social, economic, and political trends that have shaped characteristics of large American cities. Distribution and use of economic and political power at national levels. Future of large cities and politics of change. Recommended: 101 or 202.

407 International Conflict (5)
Many forms of international conflict, including global wars, local wars, interregime wars, military interventions, and international crises. Several political, social, and anthropological explanations for conflicts and examination of alternative work futures.

423 International Law (5)
Origin and present status of efforts to make rules of conduct for sovereign states; simulation of a treaty-drafting conference, with students playing roles of legal advisers to foreign governments. Recommended mainly for seniors with prior courses in international relations.

426 World Politics (5)
The nation-state system and its alternatives, world distributions of preferences and power, structure of international authority, historical world societies and their politics. Joint with SIS 426.

441 Government and Politics of the Soviet Union (5)
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.

449 Politics of Developing Areas (5)
Comparative study of problems of national integration and political development in the new states of Asia and Africa. Prerequisite: junior standing.

452 Political Processes and Public Opinion in the United States (5)
The foundations and environment of opinion; organization and implementation of opinion in controlling government and public opinion as a force in the development of public policy; public relations activities of government agencies.

474 Government and the Economy (5)

496 Undergraduate Internship (5, max. 15)
Students serve in approved internships. Prerequisites: sophomore standing or above, and entry code. Internships graded CR/NC only.

499 Individual Conference and Research (2-5, max. 20)
No more than one registration in 499 under the same instructor. Prerequisites: junior standing or above, and entry code.

508 Independent Writing I (3-5)
Supervised research and writing for graduate students completing the M.A. Essay of Distinction.

509 Independent Writing II (3-5)
Supervised research and writing for graduate students completing the Ph.D. Essay of Distinction.

600 Independent Study or Research (*)

700 Master’s Thesis (*)

800 Doctoral Dissertation (*)

Psychology (PSYCH)
119 Guthrie Hall, NI-25
Telephone: 543-2640

101 Psychology as a Social Science (5) D
Behavior from a social-science viewpoint. Emphasizes personality, individual differences, attitudes, and social behavior and influence. Includes related aspects of cognition, behavior disorders, states of awareness, motivation and emotion, learning development, and research methods.

102 Psychology as a Natural Science (5) D
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) D
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 210.

205 Introduction to Personality and Individual Differences (4) D
Basic concepts, methods, and background for more intensive study in the field of personality. Prerequisite: 101 or 102, or equivalent.

206 Psycho-Social Aspects of Nuclear War (3)
Introduction to the basic issue of nuclear war, including its effects, weaponry, and history of the arms race. Primary focus on the psychological underpinnings of deterrence, relations between nations, and the personal and social forces operative in the arms race and peace movements.

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, and ethical issues in psychology, all majors. Prerequisite: 101 or 102, or equivalent.

210 Introduction to Human Sexuality (4)
Broad survey of biological, psychological, and social determinants of human sexuality and sexual behavior: empirical data (e.g., survey data, experimental findings) and major theoretical approaches.

213 Elementary Psychological Statistics (5) P
Description and reporting of data; probability theory. Psychological hypotheses; statement, testing, and evaluation in terms of numerical outcomes; calculation and interpretation of more commonly used statistical tests. Required for majors in the psychology Bachelor of Arts program. Prerequisites: 209 and 1½ years of high school algebra, or permission.

222 Survey of Physiological Psychology (3) D
The brain 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.

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

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

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

240 Behavior Modification (4)
A survey of behavior modification application for students who plan careers in human services. A behavioral approach and associated research is presented on such topics as sexual dysfunction, stress, athletic performance, phobias and anxieties, depression, marital record, weight control, energy conservation, pollution, health, addictions, interpersonal relationships, creativity, industrial safety. Prerequisite: introductory psychology.

250 Racism and Minority Groups (4)
Problems of racism and their effects upon minority groups, with emphasis on the condition related to the development of mental health. Emphasis on the situation of the Black, Chicanos, American Indian, and Asian groups.

257 Psychology of Sex Differences (5) D
Majors psychological theories of sex-role development; biological and environmental influences that determine and maintain sex differences and behavior; roles in children, sex differences in aggression, cognitive abilities, achievement motivation, affiliation, and sexuality. Joint with WOMEN 257. Recommended: 102.

305 Abnormal Psychology (5) D
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) D
Analysis of psychological development of the child in relation to biological, physical, and sociological antecedent conditions from infancy to adolescence. Prerequisite: 101 or 102, or equivalent.
auditory domains. Includes development of object and face perception; auditory pattern perception; speech perception; categorization; perception of three-dimensional space; cross-modal relations between touch, vision, and audition.

419 Behavioral Studies of Zoo Animals (4, max. 8)
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)
Anatomical and physiological principles and resultant behavior involved in the integrative action of the nervous system. Prerequisite: 101 or 102, or 10 credits in biology or zoology.

437 Applied Sport Psychology (3)
Application of psychological theories, research, and intervention strategies to sport settings. Topics include stress and emotional control; attention control and concentration skills; mental rehearsal techniques; goal setting strategies; leadership skills; psychological factors in injuries and rehabilitation; and cognitive pain-control procedures. Students participate in various psychological training procedures. Prerequisite: 101 or 102.

448 Seminar in Psychology (1-15)
A. Human Eating Disorders (3)
Prerequisite: entry code. CR/NC only.

B. Families and Conflict: Current Research Perspectives (3)
Prerequisite: entry code.

C. Development of Brain Connections (3)
Prerequisite: 222 or 421 or permission of instructor.

449 Organizational and Industrial Psychology (3)
Research and methods in industrial-social psychology; application of social psychology to the understanding and management of individuals in large organizations and their subunits. Prerequisite: one course in elementary statistics or equivalent.

489 Clinical Psychology (3)
Basic issues, methods and research; professional issues, psychological assessment, and approaches to psychotherapy and behavioral change. Prerequisites: 205 and 305 and upper-division major standing.

490 Stress Management (3)
Nature of stress. Physiological responses to stress and relaxation. Techniques of stress management with training in relaxation, biofeedback, medit-
French (FREN)

101 Elementary (5)
Methods and objectives are primarily oral-aural. Oral practice in the language laboratory is required. Prerequisite for 102: 101 or college equivalent, or placement.

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.

134 French in Action (15)
Equivalent of 121, 122, 123. Not open for credit to students who have taken 121, 122, 123, or 101, 102, 103. (Offered Summer Quarter only.)

This "total immersion" approach covers the equivalent of the first year of elementary French in nine weeks. Following the highly successful and engaging video-based French in Action series developed by Yale University's Pierre Capretz, students will learn French in the context of real-life situations and settings in France. This method takes full advantage of educational technology, incorporating audio-visual materials for aural-oral learning and Computer-Aided Instruction (C.A.I.) to supplement written practice. (In order to fulfill UW language requirements for this course, the student must complete a proficiency exam administered by the University upon completion of the course.)

201* Intermediate (5)

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

301* Advanced French (5)
Prerequisite: 203 or college equivalent, or placement.

302A Advanced French (5)
Prerequisite: 301 or college equivalent, or placement.

Italian (ITAL)

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

390 Supervised Study (2-6, max. 20)
Prerequisites: permission of instructor and undergraduate French adviser.

414 French Literature of the 18th Century: Prose (5)

499 Special Topics (1-5, max. 10)
A. Independent Study

590 Special Seminar and Conference (1-10)

600 Independent Study or Research (*)

Spanish (SPAN)

101* 102A Elementary (5,5)
Intensive. 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. Language laboratory is required. Prerequisite: 102 or college equivalent, or placement.

201* Intermediate (5)
Intensive. Systematic review of Spanish grammar. 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 202: 103 or college equivalent, or placement; for 202: 201 or college equivalent, or placement.

203* Intermediate (5)
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* 302A Advanced (3,3)
Prerequisite: 203 for 301, 301 for 302.

390 Supervised Study (2-6, max. 20)
Prerequisites: permission of instructor and undergraduate Spanish adviser.

461A Cultural Background of Latin American Literature (5)
Survey of ideas and art forms and their relationship to literature in four periods: pre-Columbian, colonial, early independence, and twentieth century. Prerequisites: 303, 322, plus one additional 300-level course beyond 303.

464E Chicana Expressive Culture (5)
Introduction to the expressive culture of Mexican women in the United States. Special attention to the transformation as well as preservation of Mexican culture in the context of the historical experiences of living in the United States. Included are cultural and artistic practices in the home, film, the literary (both print and oral) and performing arts, and the visual arts. Particular focus on the ways Chicana artists re-vision traditional iconography.

499A Special Topics (1-5, max. 10)

590 Special Seminar and Conference (1-10, max. 30)

600 Independent Study or Research (*)

Scandinavian Languages and Literature

318 Raitt Hall, DL-20
Telephone: 543-0645

Scandinavian Languages and Literature courses are classified as:
• Swedish
• Scandinavian Courses in English
• Scandinavian

The Scandinavian Summer Institute is offering intensive elementary Swedish this summer during a and b terms. Two courses in English are also offered: Masterpieces of Scandinavian Literature (312*) and Public Policy in Scandinavia (325*).

See also Foreign Study Programs for information on the summer school in Norway Program and the Denmark International Studies Program.

Swedish (SWED)

150 Intensive First-Year Swedish (15)


Scandinavian Courses in English (SCAND)

312+ Masterpieces of Scandinavian Literature (3) D

Major works of Scandinavian literature read in English translation. Among the authors studied are Ibsen, Strindberg, Kierkegaard, Hamsun, and Lagerkvist.

325+ Public Policy in Scandinavia (5)

Comparative and historical analysis of the evolution and change of domestic public policies in the Nordic welfare states. Emphasis on health, education, social welfare, economic management, as well as the future of the welfare state.

Scandinavian (SCAND)

600+ Independent Study or Research (*)

For graduate students.

Slavic Languages and Literature (SLAVC)

M253 Smith Hall, DP-32
Telephone: 543-6848

Slavic Languages and Literature courses are offered in:
• Bulgarian
• Czech
• Russian
• Slavic (Directed Study or Research)

The Department of Slavic Languages and Literature offers intensive Russian at all levels (first through fourth-year), intensive first-year Bulgarian, and intensive second-year Czech. The Department sponsors the Russian House, where students may live in a Russian-speaking environment. Application forms for Russian House must be requested from the Department.

See also Foreign Study Programs for information on the Russian Language Program in Leningrad (for selected participants only).

600 Independent Study or Research (*)

800 Doctoral Dissertation (*)

Bulgarian (BULGR)

401, 402, 403 Elementary Bulgarian (5,5,5)

Recommended for students who want to rapidly acquire the basics in reading, writing, and speaking Bulgarian.

Czech (CZECH)

404, 405, 406 Advanced Czech (5,5,5)

Intensive. Continuation of 401, 402, 403. Reinforces and expands basic knowledge of Czech grammar and vocabulary. Selected readings from the main works of Czech authors of the nineteenth and twentieth centuries. Concurrent registration required. Prerequisite: 403 for 404; 404 for 405; 405 for 406; or permission of instructor.

Russian (RUSS)

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) DP

Introduction to Russian. Emphasis on oral communication with limited vocabulary. Basic grammar with short readings and compositions. Conducted in Russian with daily lectures on pronunciation, grammar and writing. Covers material of 101, 102, 103 in one quarter. Recommended for students who want to rapidly acquire a considerable proficiency. For continuation, see 250 or 201, 202, 203. See credit note above.

250 Intensive Second-Year Russian (15) D

Continuation of 150. Complete review of Russian grammar with continuing oral practice and elementary composition. Prerequisite: 150 or 103, or permission of instructor. See credit note above.

350 Intensive Third-Year Russian (15) D

Covers 301, 302, 303 in one quarter. Recommended for those desiring intensive grammar review and to significantly increase vocabulary and oral facility in Russian. Prerequisite: 203, 210, or 250, or permission of instructor. See credit note above.

450 Intensive Fourth-Year Russian (15) D

Advanced grammar. Intensive practice in conversation, composition, and reading. Equivalent to 401, 402, 403. Prerequisite: 303, 350, or permission of instructor. See credit note above.

499 Directed Study or Research (1-5, max. 15)

600 Independent Study or Research (*)

Slavic (SLAV)

499 Directed Study or Research (1-5, max. 15)

Prerequisite: entry code.

Society and Justice (SO JU)

203 Smith Hall, DP-35
Telephone: 543-6523

380+ Contemporary Issues in Criminal Justice (5)

Overview of selected contemporary issues in the criminal justice system. Theoretical, empirical and practical aspects of such topics as the war on drugs, sexual predators, community policing, family and crime, media and criminal justice. Prerequisites: POL S 101, 202, 204 or SOC 110.

Sociology (SOC)

210 Savery Hall, DK-40
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.

110 Survey of Sociology (5) D

Human interaction, social institutions, social stratification, socialization, deviance, social control, social and cultural change. Course content may vary, depending upon instructor.

240 Introduction to Social Psychology: Perspectives on Individual Behavior (5) D

Major theoretical perspectives on individual behavior in social settings. Includes social cognition, behaviorism, symbolic interaction, and attitudes. Emphasizes the ways people develop as social beings.

271 Introduction to the Sociology of Deviance (5) D

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.

See the Time Schedule section, pages 73-113, for class dates and times.
328• 329A Methodology of Sociological Research (5-5)
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. Prerequisite: at least two prior courses in sociology.

352 The Family (5) D
The family as a social institution; personality development within the family; marriage adjustment; changing family patterns; disorganization and reorganization.

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

360 Introduction to Social Stratification (5)
Social class and social inequality in American society. Status, power, authority, and unequal opportunity are examined in depth, using material from other societies to provide a comparative and historical perspective. Sociological origins of recurrent conflicts involving race, sex, poverty, and political ideology.

362 American Race and Ethnic Relations (5)
Interracial contacts and conflicts. Joint with AES 362. Prerequisite: 110.

364 Women in the Social Structure (5) D
Gender and social institutions; the family, politics, education, medicine, law, the labor force. Interpretation of gender with other minority statuses such as race, age, socioeconomic status, and sexual orientation. Structural, ideological, and historical determinants of gender relations, Joint with WOMEN 364.

371 Criminology (5)
Survey of legal definitions, types of criminal behavior, trends and patterns, recidivism, characteristics of offenders, environmental influences, diagnostic methods, prediction, theories of crime and delinquency prevention, social policy.

401 Special Topics in Sociology (5, max. 15)

450 Political Economy of Women and Family in the Third World (5)
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. Joint with SIS 450.

451 Theory and Process of Social Change (5)
Basic trends in American life; frames of reference for analysis of social change; forces causing social change. Prerequisite: 15 credits in social sciences.

457 Sociology of Religion (5)
The relations between religion, poIicy, economy, and social structure; in particular, the political, economic and social impact of religious beliefs and organizations, as well as the social determination of these beliefs and organizations; the rise of secularism, the rationalization of modern life, and the emergence of political quasi-religions.

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

499 Undergraduate Independent Study or Research (2-5, max. 10)
Prerequisite: entry code. CR/NC only.

600 Independent Study or Research (*)

700 Master's Thesis (*)

800 Doctoral Dissertation (*)

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Speech and Hearing Sciences (SPHSC)

203 Eagleson Hall, JG-15
Telephone: 543-7974

The Department of Speech and Hearing Sciences provides opportunities for study at the undergraduate and graduate levels in areas dealing with the normal aspects of language, speech production, and audition, and with the nature and treatment of disorders of language, articulation, voice, fluency, and hearing in both children and adults.

Several courses offer continuing education opportunities for practicing professionals. During the first week of summer term, two complementary, intensive special-study courses are offered. Dr. Judith Stone will teach Counseling and Interaction Skills (449B), which presents a systems-based counseling approach for speech-language pathologists and audiologists who counsel individuals and/or family members as part of service delivery; the course is also appropriate for other professionals who counsel as part of educational or rehabilitative services. This course will present basic theory and framework, a core set of skills for a variety of counseling tasks, and a problem-solving approach for resolving counseling concerns. Clinical examples will be presented throughout, to illustrate counseling approaches. This course will meet in the morning.

During afternoons of the first week, Drs. Truman Coggins, Lesley Olswang, Carol Stoel-Gammon, and Judy Stone are offering Early Assessment and Intervention: Developing Effective Service Delivery Models For Infants, Toddlers, and Families (449A). This one-week workshop will focus on the content and context of early assessment and intervention. Alternative service delivery models for young developmentally delayed children or young children at risk for developmental delay, and their families will be analyzed. The instructors will offer decision rules for selecting "how" and "when" to initiate, alter, or terminate treatment programs. The course is designed to meet the professional needs of both pre-service and in-service personnel.

A third special offering, Introduction to ASL and the Deaf Community (449C), is a full-term course which will introduce the student to the deaf community and culture, including ASL, bonds of experience, values, political aims, etc.

Communication Augmentation for Non-speaking Individuals (453D) is a one-week intensive course offered June 29-July 2. Dr. Nola Marriner offers this popular class which covers evaluation and management strategies used with non-speaking children. Video-taped case studies will demonstrate instrumentation, evaluation, and management procedures.

Dr. Marie Thompson will again offer her course Management of Hearing Impaired Children which provides information about birth to five-year-old hearing impaired children and their families. Management will be discussed within a framework of family systems and related to topics affecting children such as language, speech, total communication, and hearing aids. Topics affecting families such as sign systems, transitioning, federal and state laws, and the grieving process will also be covered.

The department also provides courses of particular interest to undergraduate nonmajors. Students interested in studying and altering their own patterns of speech, particularly foreign students or students with regional dialects, will be interested in The American English Sound System (111, 111D). Speech Science 300D provides credit toward the University's natural sciences distribution requirement. Scientific method and principles are examined and explored from a non-mathematical perspective by using the human speech and hearing systems for clear and familiar illustrative examples. Laboratory demonstrations and lectures foster insights into the complex interactions of acoustics, physics, anatomy, and physiology, without developing math anxiety.

111,111D 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. CR/NC only.

300D Speech Science (5) D
Basic physiology and acoustical attributes of speech. For nonmajors.
350 Clinical Processes II: Treatment (4)
Principles and procedures for planning the effective treatment of speech and language disorders. Prerequisites: 330, 332, and entry code.

370 Basic Audiometry (5)
Theory and practice of the assessment of hearing function, including standard puretone audiometry, speech audiometry, and basic impedance audiometry. Prerequisites: 315 and entry code.

380 Introduction to Aural Rehabilitation (4)
Principles and methods of amplification and use of residual hearing, speech reading, speech conservation, and general counseling toward acceptance of hearing impairment. Considerations for education and special problems. Prerequisites: 315 and entry code.

401 Neural Bases of Speech and Language (4)
Neuroanatomical and neurophysiological bases of motor speech production and language processes. Laboratory. Prerequisite: 201 or permission.

449+ Special Studies in Speech Pathology and Audiology (*)
A. Early Assessment and Intervention: Developing Effective Service Delivery Models for Infants, Toddlers, and Families (2)
June 22-26 This one-week workshop will focus on the content and context of early assessment and intervention. Alternative service delivery models for young developmentally delayed children or young children at risk for developmental delay, and their families will be analyzed. The instructors will offer decision-rules for selecting “how” and “when” to initiate, alter or terminate treatment programs. The course is designed to meet the professional needs of both pre-service and in-service personnel.

B. Counseling and Interaction Skills Part I (2)
June 22-26 Presents a systems-based counseling approach for speech-language pathologists and audiologists, as well as other professionals who counsel individuals and/or family members as part of service delivery. Basic theory and framework, a core set of skills for a variety of counseling tasks, and a problem-solving approach for resolving counseling concerns will be provided. Clinical experiences will be presented throughout the course to illustrate counseling approaches. Students will complete written exercises and participate in role playing in order to practice skills and to identify personal style and preferences. The course will be most appropriate for professionals and students with some clinical experience; counseling approaches will be applicable to adults (parents of handicapped or at-risk children, adult clients, spouses) and older children and adolescents.

449+ Special Studies in Speech Pathology and Audiology (*)
C. Introduction to ASL and the Deaf Community (5)
A survey of the deaf community, including bonds of experience, values, political aims, culture, and language will be presented. Current research in ASL and issues dealing with the deaf community will be explored. Emphasis will be on understanding ASL as a natural and dynamic language. Prerequisite: entry code.

453+ Communication Augmentation for Non-speaking Individuals (3)
June 29-July 3 Communication needs of non-speaking individuals. Interdisciplinary approaches to the evaluation, selection, and implementation of aided and unaided communication augmentation systems. Joint with REHAB 438. Prerequisite: basic course work in speech and hearing sciences, physical therapy, or engineering, or permission of instructor.

499 Undergraduate Research (1-5, max. 15)
Prerequisite: entry code.

535 Voice Disorders (4)
Examination of the physiology, acoustics, and perception of the normal and distorted human voice. Etiology, evaluation, and treatment of phonatory disorders. Prerequisites: 201, 250, and 311.

536 Assessment of Language Impairment in Children (5)
Principles and procedures used in the assessment of speech- and language-disordered children and adolescents. Prerequisites: 332, 431, and permission of instructor.

551 Advanced Practicum in Speech Pathology Evaluation (1-9, max. 10)
A. UW Speech and Hearing Clinic-Children (3)
Prerequisites: 536 and permission.

B. Child Development and Mental Retardation Center (4)
Prerequisites: 536 and permission.

C. UW Speech and Hearing Clinic-Adults (2)
Prerequisites: 536 and permission.

552 Advanced Practicum in Speech Pathology Management (1-9)
A. Clinical Procedure
Prerequisite: 350.

B. Child Language
Prerequisites: 431 and permission.

C. Stuttering
Prerequisites: 430, 450, and permission.

D. Advanced Adult Speech
Prerequisites: 552C and permission.

E. Advanced Child Speech
Prerequisites: 530 and permission.

F. Neurogenic Disorders
Prerequisites: 401, 531, 532, and permission.

G. Voice

555 Preinternship (1-9)
Practicum in speech pathology or audiology designed to teach the clinical regimen of a participating professional prior to assuming a full internship assignment. Prerequisite: 150 hours of supervised practice.

575 Medical Backgrounds in Audiology (3)
Diseases and injuries of the ear resulting in reduced audition. Prerequisite: 571 or permission of instructor.

581 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.

591 Advanced Practicum in Audiology (1-9, max. 10)
A. UW Speech and Hearing Clinic
B. Pediatric Assessment
C. Aural Rehabilitation, Adult
D. Aural Rehabilitation, Child
E. Selection of Hearing Aids
G. General Assessment
H. ABR Assessment

Prerequisites: 40 hours of practicum and permission for all sections.

599 Research Practicum (*, max. 12)
Supervised laboratory experience in experimental approach to problems in speech and hearing sciences. Prerequisite: entry code.

600 Independent Study or Research (*)

601 Internship (3-9, max. 9)

700 Master’s Thesis (*)

800 Doctoral Dissertation (*)

See the Time Schedule section, pages 73-113, for class dates and times.
Speech Communication (SPCH)
205 Rait Hall, DL-15
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 who wish specialized work in the field.

Of special interest to language arts teachers is Oral Interpretation of Children's Literature (498◆) and Oral Interpretation of Fiction by Judy Blume (341◆). Persons interested in business-related topics may wish to consider 301, 373, and 474.

102 Speech, the Individual, and Society (5) D
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 Interpersonal Communication (5)
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, 5) D
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.

301 Interviewing (5)
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) D
Argument as a technique in the investigation of social problems; evidence, proof refutation, persuasion; training in argumentative speaking.

341◆ Oral Interpretation of Children's Literature (3)

373 Principles of Group Discussion (5) D
Discussion as an everyday community activity, with emphasis on the informal cooperative decision-making methods of committee, conference, and round-table groups.

425 American Public Address (5)
Historical and critical study of principal speakers and speeches and of their relationship to American political, social, and intellectual life. Oratory of the American Revolution; the "golden age" of American oratory; debates on ratification of the Federal Constitution, the slavery question, Reconstruction, woman suffrage, populism, imperialism.

474 Communication, Conflict, and Cooperation (5)
Role of communication in resolving informal conflicts and in facilitating interpersonal and intergroup cooperation. Review of empirical literature. In-class simulations and exercises.

498 Special Topics in Speech Communication (2-5, max. 15)
A. Communication and the Family (5)
Exploration of two major questions: 1) What is a family? and 2) How do families communicate? Course will examine multiple models of families, including those from other cultures, television, and other historical time periods. The course will also examine communication between partners and between parents and children as a child develops.

B. Oral Interpretation of Fiction by Judy Blume (3)
Solo and duet performances and analyses of literature written by Judy Blume for children and adults, such as Superfudge, Smart Women, and Are You There, God? It's Me, Margaret. Major emphasis is on her literature for children.

499 Undergraduate Research (1-5, max. 10)
Prerequisite: entry codes.

B. Media Internship (5)

600 Independent Study or Research (*)

700 Master's Thesis (*)

800 Doctoral Dissertation (*)

Statistics (STAT)
B313 Padelford Hall, GN-22
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 maintained, featuring a number of eminent visiting professors as well as the regular faculty. For further information, contact the department.

220 Basic Statistics (5) DP
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. (Students may receive credit for only one of 220 and 311.) Prerequisite: 1 ½ years of high school algebra.

311 Elements of Statistical Method (5) DP
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.) Meets with ECON 311. Prerequisite: MATH 111 or 120.

390 Probability and Statistics in Engineering and Science (4)
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. Not open for credit to students who have taken 481. Joint with MATH 390. Prerequisites: MATH 237 or 238, and MATH 302 or 205.

394 Probability I (3)
Sample spaces; basic axioms of probability; combinatorial probability; conditional probability and independence; binomial; Poisson, and normal distributions. Joint with MATH 394◆. Prerequisite: MATH 327.

395A Probability II (3)
Random variables; expectation and variance; laws of large numbers; normal approximation and other limit theorems; multidimensional distributions and transformations. Joint with MATH 395A. Prerequisite: 394.

498 Special Topics (1-5, max. 15)
Reading and lecture course intended for special needs of students. Prerequisite: entry code and permission of sponsoring faculty member.
Women Studies (WOMEN)
B110K Padelford Hall, GN-45
Telephone: 543-6900

Women Studies is an interdisciplinary program that offers students the opportunity for intensive, cross-cultural and theoretical study of women. This summer, a variety of our most popular courses are being offered. All courses count toward the Bachelor of Arts degree with an emphasis on women studies. Information may be obtained at the Women Studies office at the address above, Seattle, WA, 98195.

200 Introduction to Women Studies (5) D
Feminist study of women, society and culture, looking at how gender, race, class, and sexuality create similarities, differences, and connections across women's experience. Topics include women's histories and identities, family, sexual choices, work, violence against women, creativity, empowerment, and social change. Course is both a survey of women in society and an introduction to methods and concepts of women's studies across the disciplines. Guest lectures, films, music, small-group discussions.

257 Psychology of Sex Differences (5) D
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, sexuality. Joint with PSYCH 257. Prerequisite: PSYCH 101 or 103 recommended.

357 Psychobiology of Women (5) D
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. Joint with PSYCH 357. Not open for credit to students who have taken PSYCH 357. Prerequisites: 205 or 257, or PSYCH 101, 102, or 257, or permission of instructor.

364 Women in the Social Structure (5) D
Women's current roles within social institutions, focusing on women's work roles both in the labor force and in the home. Women in political organizations, religions, education, and law. Includes attention to women of racial, age, class, and sexual orientation minority statuses. Examines the structural, ideological, and historical determinants of women's position.

383 Social History of American Women (5)
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 19th and 20th centuries. Use of primary materials such as diaries, letters, speeches, and artifacts. Joint with HSTAA 373. Prerequisite: 205 or 257 or HSTAA 201 or permission of instructor.

454 Women, Words, Music and Change (5)
Comparative analysis of the use of myths, tales, music, and other forms of expressive culture to account for, reinforce, and change women's status and roles; cross-cultural analysis of planned change and development. Joint with ANTH 454. Prerequisite: 353 or permission of instructor.

495 Tutoring Women Studies (5)
Trains students to serve as tutors in designated courses. Tutors facilitate weekly group discussions, assist with writing assignments, explain course materials. Prerequisites: 205 or 206, junior or senior standing, one or more upper-division course relevant to women studies, prior completion of the course (or equivalent) to be tutored, permission of instructor. CR/NC only.

497 Fieldwork in Women Studies (3-5, max. 15)
Internships in local agencies or other places of work appropriate to the student's field of interest. Allows development of specific skills in area of specialization. Prerequisites: 200, junior standing or permission of instructor. CR/NC only.

599 Statistical Consulting (*, max. 12)
Consulting experience in data analysis, applied statistics, etc. The student is required to provide consulting services to students and faculty. CR/NC only. Prerequisites: permission of graduate adviser, entry code.

700 Master's Thesis (*)

800 Doctoral Dissertation (*)

See the Time Schedule section, pages 73-113, for class dates and times.
School of Business Administration

Graduate Program Office
110 Mackenzie Hall, DJ-10
Telephone: 543-4660

Undergraduate Program Office
137 Mackenzie Hall, DJ-10
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 Undergraduate Program Office for courses numbered 300 and 400; consult the Graduate Program Office for courses numbered 500 and 600.

Accounting (ACCTG)

Students who graduate with the degree of Bachelor of Arts in Business Administration and who complete the following courses in accounting with a minimum grade-point average of 3.0 will have the notation "accounting" included on their transcripts: 301, 302, 303, 311, 330, 411, 421, and 499; a total of 27 credits is required. ACCTG 505 is a concentrated, 10-week program offering the equivalent of 301, 302, 303, 311, 411, and 421 for graduate students.

210 Introduction to Accounting (3)
Nature and social setting of accounting; uses of accounting information; introduction to basic accounting concepts and some accounting techniques. Prerequisite: sophomore standing. Enrollment is open only to sophomores and junior business students until May 29.

220 Fundamentals of Financial Accounting (3)
Principal procedures and concepts utilized in contemporary financial accounting and reporting. Preparation and interpretation of financial statements. Prerequisite: 210.

230 Fundamentals of Managerial Accounting (3)
Analysis and evaluation of accounting information as part of the managerial process of planning, decision making, and control. Emphasis on types of economic decision making in enterprises and on accounting information useful to enterprise managers. Prerequisite: 220.

301 Intermediate Accounting I (3)

302 Intermediate Accounting II (3)
Continuation of 301. Prerequisites: 301 and admission to accounting concentration.

303 Intermediate Accounting III (3)
Continuation of 302. Prerequisites: 302 and admission to accounting concentration.

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. Prerequisites: 301 and admission to accounting concentration.

330 Introduction to Accounting Information Systems (3)
Concepts of accounting information systems in organizations. Processes of analyzing and designing accounting information systems, with emphasis on those using computer facilities. Issues of internal controls and auditing considerations. Prerequisite: prior departmental approval.

371 Auditing or Industrial Internship (2)
One quarter's internship with a certified public accounting firm, industrial organization, or government agency. 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, 330, and admission to accounting concentration.

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 and admission to accounting concentration.

450 Business Taxation (3)
Issues of taxation for entities other than individuals, including corporations, subsection S corporations, partnerships, estates and trusts, corporate distributions, liquidations, and reorganizations. Prerequisites: 421 and admission to accounting concentration.

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. Prerequisites: 421 and admission to accounting concentration.

485 Advanced Financial Accounting (3)
Accounting for partnerships, accounting for business combinations, parent-subsidiary and branch relationships, foreign exchange. Prerequisites: 303 and admission to accounting concentration.

499 Undergraduate Research (3, max. 9)
Arranged and supervised by individual members of the faculty. Prerequisite: permission of undergraduate office.

505 Intensive Analysis of Accounting Principles and Practices (15)
Covers the subjects in the required core for undergraduate accounting majors: intermediate accounting, advanced accounting, cost accounting, auditing, and tax accounting. Credits will not count toward the M.B.A. degree. Prerequisites: 210, 220, 230, or equivalent, and entry code.

530 Tax Issues in Property Ownership (4)
Analysis of gain and loss realization, recognition and characteristics of such. Detailed exploration of statutory and case law regarding acquisition, ownership, and disposition of assets. Treatment of capital and ordinary gains and losses. Timing issues regarding deferral transactions and installment reporting are analyzed. Prerequisite: undergraduate accounting concentration or equivalent.

560 Special Topics in Professional Accounting (4)
Lectures, discussion, and case analyses dealing with special current topics relevant to professional accounting. Satisfies the professional accounting elective requirement for the M.P.Acc. degree program. Prerequisite: permission of instructor.

571-572 Research Reports (3-3)
Independent study in business administration; critical evaluation of business analysis and research methods. Effective communication of ideas is emphasized. Methods and content of independent research studies being completed by the students are subjected to critical evaluation. Open only to M.B.A. students. Prerequisites: instructor's approval of preliminary research topic outline for 571; 571- for 572.

600 Independent Study or Research (*)

Administration (ADMIN)

510 Integrative Administration (15)
Includes materials basic to the study and analysis of administration in organizations: organization theory and administrative behavior; human resources management; resource allocation, accounting, and financial control, systems operation and analysis; marketing; governmental-societal framework; and policy formulation and strategic planning. Faculty team-teaching approach. Not open to business administration majors. CR/NC only. Prerequisite: entry code.
School of Business Administration

Business Administration (BA)

800 Doctoral Dissertation (*)
This course is not limited to a specific department and is open to graduate students approved to work on their doctoral dissertations.

Business Communications
(B CMU)

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. Enrollment is open only to UW Business students until May 29.

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.

301 Money, National Income, and Prices (4)
Measurement and analysis of business activity in the commodity and money markets; static and dynamic models of income and interest rate determination; problems and policies in the stabilization of business conditions. Prerequisites: ECON 200, 201, 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. Period I: finance majors only.

427 International Finance (4)
Asset choice and institutional operations in international finance; foreign-exchange problems; the impact of international financial problems and operations on business; short- and long-term international financing. Prerequisite: 301 and admission to business administration or permission. Period I: finance majors only.

499 Undergraduate Research (3, max. 6)
Prerequisites: 300 and 301 and permission of undergraduate office.

571-572 Research Reports (3-3)
See ACCTG 571-572 for description.

600 Independent Study or Research (*)

Business Policy
(B POL)

470 Business Policy (4)
Policy making and implementation in smaller firms from the top manager's 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, OPMGT 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 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.

499 Undergraduate Research (3, max. 9)
Prerequisite: permission of undergraduate office.

505 Business Policy and Strategy (3)
Policy decisions and strategic leadership from the general management point of view. Determination of corporate product-service objectives, development of a network of internal operating policies and methods to achieve objectives at a cost satisfactory to the consumer and to society. Prerequisites: all first-year required courses in M.B.A. curriculum and entry code for nonmajors.

571-572 Research Reports (3-3)
See ACCTG 571-572 for description.

600 Independent Study or Research (*)

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: B ECN 300 and admission to business administration or permission of undergraduate office.

453 Financial Theory and Analysis (4)
Determination of liquidity needs subject to firm constraints and longer-term capital budgeting problems involving cost of capital and capital rationing considerations; analytical approach. Prerequisites: 350, QMETH 201.

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 UW finance students until May 29.

499 Undergraduate Research (3, max. 6)
Research in selected areas of business finance, money and banking, or investments. Prerequisites: 350 and permission.

560 Investments (3)
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: 502 and entry code for nonmajors.

571-572 Research Reports (3-3)
See ACCTG 571-572 for description.

600 Independent Study or Research (*)

Human Resources Management and Organizational Behavior
(HRMOB)

301 Personnel Systems and Industrial Relations (3)
Personnel/industrial relations function from a managerial perspective. Topics include selection, compensation, performance appraisal, and training and development. Special emphasis on union/management relations and relevant behavioral science research. Prerequisite: junior standing or above. Enrollment is open only to UW business students until May 29.

See the Time Schedule section, pages 73-113, for class dates and times.
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 students until May 29.

499 Undergraduate Research (3, max. 9)
Prerequisite: permission of undergraduate office.

515 Performance Appraisal and Compensation (3)
Strategies, procedures, and problems in evaluating and rewarding employees. Performance measurement methods, different appraisal systems, ways of coaching employees and ways to integrate performance appraisal into compensation systems. Prerequisite: entry code for nonmajors.

520 Collective Bargaining (3)
Traditional labor-management relations in private, public, and non-profit sectors with special emphasis on grievance arbitration and collective bargaining processes. Simulations and case studies are used. Prerequisite: entry code for nonmajors.

550 Leadership (3)
Various theories of leadership. These include trait theories, leader behavior theories, and situational theories. Concept of leadership within the broader framework of power—how power is gained, lost, and distributed within organizations. Prerequisite: entry code for nonmajors.

560 Negotiations (3)
Strategy used in business 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.

571-572 Research Reports (3-3)
See ACCTG 571-572 for description.

600 Independent Study or Research (*)

Information Systems (IS)

300 Management 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 systems resources. Laboratory emphasis using computers to analyze, coordinate, solve organizational decision making problems. Prerequisite: admission to School of Business Administration or permission of undergraduate office.

320 Data Structures and File Systems (4)
Concepts of data and file management. Data types and data structures; organizing data on external storage devices; sequential, direct, and indexed access methods; multilist and inverted files; sorting and searching algorithms. Instruction in, and use of, a programming language using structured techniques to implement these concepts. Prerequisites: 360 (or equivalent) and junior standing or above. Enrollment is open only to UW business students until May 29.

499 Undergraduate Research (3, max. 9)
Prerequisite: permission of undergraduate office.

550 International Business Environment (3)
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: ECON 500 and 501 or equivalent are recommended.

571-572 Research Reports (3-3)
See ACCTG 571-572 for description.

600 Independent Study or Research (*)

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 and admission to business administration or permission. Open to nonmajors Summer Quarter only. Enrollment is open only to UW business students until May 29.

310 Product and Price Policies (4)
Examines important aspects of product planning development, product-line decisions, packaging, brand policies, guarantees, and services. Price theory is considered but emphasis is placed on special pricing policies and problems and legal constraints on pricing activity. Prerequisites: 301 and ECON 300.

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.

460 Marketing Research (4)
Marketing research process; preliminary steps and research design, questionnaires, secondary and primary data, sampling, processing and interpreting data, evaluation and effective presentation of findings. A class research project provides practical application of methods studied. Prerequisites: 301, QMETH 201 or equivalent and junior standing or above.

499 Undergraduate Research (3, max. 9)
Prerequisite: permission of undergraduate office.
School of Business Administration

510 Product and Price Management (3)
Identification of market opportunities, choice of which goods and services in what combinations to market and prices at which to offer them. Considers product and price interrelationships in product-line management; product differentiation; the marketing mix; and multiple-market, oligopoly, and monopoly contexts. Includes policy considerations. Prerequisites: 502, entry code for nonmajors.

571-572 Research Reports (3-3)
See ACCGT 571-572 for descriptions.

600 Independent Study or Research (*)

Operations Management (OPMGT)

301 Principles of Operations Management (3)
Introduces application of quantitative analysis to problems in planning, operating, and controlling production function. Problems of distribution and allocation, management of inventory systems, production scheduling, improvement curves, and service systems. Uses computer and quantitative models in formulating managerial problems. Prerequisite: QMETH 201 and admission to business administration or permission of undergraduate office.

401 Administration of Operations (4)
Analysis of case studies in the management of operations. Uses analytical techniques to derive solutions for actual situations. Strategic resource allocation, project planning, scheduling, quality assurance, and the management of quality, and international production planning. Prerequisite: 301 or equivalent.

499 Undergraduate Research (3, max. 9)
Prerequisite: permission of undergraduate office.

550 Project Management (3)
Management of complex projects, and tools and techniques (e.g., CPM and PERT) developed to aid planning, scheduling and control of projects. Includes work breakdown structures, precedence networks, Gantt charts, resource leveling and allocation, and the use of microcomputer programs. Prerequisite: 502 and entry code for nonmajors.

571-572 Research Reports (3-3)
See ACCGT 571-572 for description.

600 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. Enrollment is open only to UW sophomores and junior business students until May 29. Taught with LAW 500.

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.

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: HRMOB 400, and admission to business administration or permission of undergraduate office.

499 Undergraduate Research (3, max. 9)
Selected problems in social, legal, and economic institutions. Prerequisite: permission of undergraduate office.

516 Business Ethics and Corporate Responsibility (3)
Business ethics and corporate social responsibility from philosophical, theoretical and pragmatic perspectives. Ethical theories and the role of values in business. Ethics and social responsibility put into a framework useful for practicing managers.

571-572 Research Reports (3-3)
See ACCGT 571-572 for description.

600 Independent Study or Research (*)

Quantitative Methods (QMETH)

201 Introduction to Statistical Methods (4)
Survey of principles of data analysis and their applications for management problems. Elementary techniques of classification, summarization and visual display of data. Applications of probability models for inference and decision making are illustrated through examples. Prerequisites: MATH 157, and sophomore standing or above. Enrollment is open only to UW sophomores and junior business students until May 29.

300 Quantitative Analysis for Business (4)
Introduction to mathematical tools utilized for analysis of business problems; appreciation of the use of these tools in business situations; calculus, linear algebra. Prerequisites: MATH 157 and junior standing or above.

499 Undergraduate Research (3, max. 9)
Research in selected problems in business statistics, operations research, decision theory, and computer applications. Prerequisite: permission of undergraduate office.

520 Statistical Application of Linear Models (4)
Exploration and inference using linear models. An advanced treatment of simple and multiple regression, use of dummy variables, analysis of covariance, selection of variables to be included in the equation. Prerequisites: 500 and entry code for nonmajors.

530 Stochastic Series Analysis and Forecasting (4)
Introduction to modern time series analysis and forecasting. Autoregressive, moving average, and mixed models. Practical methods for model identification, estimation, diagnostic checking and adaptive forecasting. Oriented toward data and application. Prerequisites: 500; strongly recommended: 520 or equivalent; and entry code for nonmajors.

571-572 Research Reports (3-3)
See ACCGT 571-572 for description.

600 Independent Study or Research (*)

See the Time Schedule section, pages 73-113, for class dates and times.
College of Education

The summer program offered by the College of Education consists of courses designed to meet requirements for teacher certification 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 campues. (See the “Admission” and “Registration” sections of this Bulletin.)

Independent Study, Research, and Field Experiences (EDUC)

Independent study courses may be used for continuing certification and endorsements.

401 Practicum in Community Service Activity (3-18)
Opportunity is provided for tutoring and teaching experiences in a specific community service organization, placement made according to participant interests and needs. Approximately 20 hours of participation on a predetermined schedule plus scheduled seminars are required for each credit earned. Participants wishing to utilize community service experience to satisfy, in part, certification requirements should make arrangements prior to enrollment with the Director of Certification. Prerequisites: application during quarter prior to participation and permission of instructor (211 Miller). CR/NC only.

423A Educating Diverse Groups (3)
Background information is provided on socio-ethnic/cultural diversity; its impact on school structure, programming, and administration. Focuses on socioeconomic, ethnic minority, women, handicapped groups. Educational implications of discrimination based on these factors are emphasized. Prerequisite: admission to Teacher Education Program.

501 Advanced Practicum in Community Service Activity (3-18)
Opportunity is provided postbaccalaureate students with selective, in-depth participation and teaching experiences in a specific community service organization. Approximately 20 hours of participation prior to the fall quarter.

Guide to Courses for Educators

- More than 100 College of Education courses and workshops to choose from.
- Classes provide continuing academic training for teachers in the basic subject matter fields.
- Courses for prospective and practicing school administrators and other specialized school personnel
- Courses leading to various advanced degrees in the field of education, if taken while in a graduate or graduate nonmatriculated (GNM) status.

Independent Study, Research, and Field Experiences (EDUC) ...................... 47
Educational Curriculum and Instruction (EDC&I) courses ......................... 49
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Center for Multicultural Education

The Center for Multicultural Education in the College of Education focuses on research, policy, and services that respond creatively to the challenges and opportunities related to ethnic, cultural, and social-class diversity. Several multicultural education courses are offered this summer including Multicultural Curriculum and Instruction (EDC&I 424), Educating the Black Inner-City Child (EDC&I 469), and Multicultural Studies: Methods, Content, and Materials (EDC&I 474). For more information about the center, please call (206) 543-6636.

Additional information

For graduate students:
Because of competition for the space that is available, as well as the amount of time required for processing, students who seek admission to graduate programs are encouraged to contact the Office of Graduate Studies and Research, 206 Miller, (206) 543-7833, 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.

For students enrolled in the initial teaching certificate program:
All students enrolled in the College of Education Initial Teaching Certificate Program must obtain approval through the Teacher Education Advising and Certification Office, 211 Miller, 543-1820, before registering for courses. For complete details concerning the teacher certification program, please refer to the current University of Washington General Catalog.
Other Programs of Interest to Educators

Summer courses for educators are scheduled in the arts, foreign languages, English, social studies, science and mathematics.

Music Education Courses

For course descriptions, see pages 29-30.

- 200 Music and the Child
- 452 Ethnomusicology in the Public Schools
- 496 Special Topics in Music Education: Percussion Techniques
- 496 Special Topics in Music Education: Conducting
- 542A Comparative Music Education
- 561 Seminar in Theories of Music Instruction

Academic Programs for Teachers

The University of Washington's Academic Programs for Teachers (APT) offers a variety of content-area programs exclusively for teachers. The programs address concerns specific to the teaching profession and include follow-up activities which help participants apply what they have learned in their classrooms. The overall goal of APT is to make the resources of the UW, particularly those of the College of Arts and Sciences, more accessible to teachers. Many of the programs are grant-funded or offered for reduced fees. For more information, call (206) 543-2320 and ask for the APT brochure.

Puget Sound Writing Program

Short intensive summer workshops to improve the teaching of writing for teachers of all subjects and grade levels. Registration for these courses is through UW Extension. You do not have to apply to Summer Quarter to take these courses.

- ENGL 444 Special Topics in English for Teachers (3-5, max. 10)
  - A. Puget Sound Writing Program Institute (9)
  - B. Puget Sound Literature Program (5)
  - C. Puget Sound Literature Program: Shakespeare (5)
  - D. Puget Sound Literature Program: The Whole Language Approach (5)
  - E. Beyond Whole Language: Writing in the Disciplines (5)

To request a PSWP brochure, please call (206) 543-2320.

Drama Education Institute

This three-credit institute, held Aug. 1-5, is designed for drama specialists and teachers of elementary, middle and high school youth, and for university faculty who train teachers. Theory, active participation, and application will be used to enhance participants' ability to capitalize on the "dramatic moment." For a brochure, call (206) 543-2320. You do not have to apply to Summer Quarter to enroll in the institute.

Advanced Study Program for High School Students

The Advanced Study Program allows qualified high school students to enroll in UW courses during the summer. The program is designed for high-achieving students who have completed their high school freshman year by June 15. Each student enrolling for credit establishes a UW transcript. For more information, see page 132.

Content area courses for educators

Please refer to individual departmental listings for content areas of interest to you. Some special courses include:

- DRAMA 395 Creative Classroom Computing (page 19)
- ENGL 223 Children's Literature Reconsidered (page 20)
- MATH 170 Mathematics for Elementary School Teachers (page 27)
- SPHSC 449 Special Studies in...Pathology and Audiology: Developing Effective Service Models for Infants, Toddlers, and Families (page 40)
- SPHSC 581 Management of Hearing-Impaired Children (page 40)
- SPCH 341 Oral Interpretation of Children's Literature (page 41)
- LAW 455/A559 Labor Relations in the Public Sector (page 59)

Independent Study

There is no limit to the number of Independent Study by Correspondence credits which may be used for continuing certification and endorsements. For a list of courses, see pages 115-116, or call (206) 543-2350 for a Distance Learning Bulletin.
EDC&I offers courses required for and or appropriate for various graduate programs as well as a range of innovative and challenging courses and workshops for the new and veteran teacher.

**317** Art in Childhood Education (3,3)

Provides the general elementary student with a theoretical and practical background for teaching art to children. Prerequisites: ART 105, admission to the Teacher Certification Program, and entry code (Miller 211). Materials fee required.

**319** Music in Childhood Education (3)

Provides the student with a theoretical and practical introductory background to the fundamentals of music and for teaching music to children as a creative process and mode of learning. Prerequisites: MUSIC 200, admission to the Teacher Certification Program, and entry code (211 Miller Hall).

**424** Multietnic Curriculum and Instruction (3)

June 22-July 2 Designed to help teachers better understand the school’s role in the ethnic education of students and acquire the insights, understandings and skills needed to design and implement curricular and instructional strategies that reflect ethnic diversity.

**425** Instructional Strategies for Minority Students (3,3)

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.

**434** Introduction to Computers in the Classroom (3)

An overview of the uses of computers in education. Emphasizes the uses of computers in instruction, classroom management (grade-books, utilities, etc.), evaluation of software, overview of programming, and word processing. No prior experience is required. CR/NC only.

**437** Uses of Computer Application Packages in Schools (3)

Introduction to the instructional and management uses of application programs. Topics may include: data bases, spreadsheets, word processing, graphics packages, graphing utilities, telecommunication, desktop publishing. Emphasis is on K-12 setting. Prerequisites: 434 or equivalent and word processing skills. CR/NC only.

**454** Cooperative Learning in the Classroom (3)

June 22-July 6 Theory and research on cooperative learning and current practices of managing such learning. Team learning activities and opportunities to plan and try out lessons and materials using several different strategies. CR/NC only.

**455** The Language Arts: Instructional Problems and Practices in the Elementary School (3)

Study of important and recent research in elementary school language arts and consideration of its practical implications for teaching. Prerequisite: teaching experience.

**456** Workshop in Instructional Improvement: Language Arts (1-6, max. 15)

A. Multicultural Readings for Teachers (3)

June 22-July 6 Adult novels by authors of color will be used to develop multicultural perspectives. Particularly geared to Language Arts teachers K-12 who select literature for use in their classrooms.

B. Writing Through Literature (3)

July 7-20 Students will have practical experience in learning how to integrate writing through the use of literature in the classroom.

C. ESL Reading (3)

Provides reading and lecture material on reading techniques specifically suitable for students with limited English proficiency; focuses on both materials for use with LEP students and appropriate instructional strategies for teachers of LEP students.

**456A** Workshop in Instructional Improvement: Language Arts (1-6, max. 15)

**459** Workshop in Instructional Improvement: Reading (1-6, max. 15)

A. Literacy Development in the Primary Grades (3)

July 23-August 5 Participants will plan a series of units that integrate language development with literacy development in a whole language curriculum. Workshop participation will emphasize collaborative learning.

**460** The Teaching of Reading (3)

Improvement of teaching reading in the elementary school, including comprehension and decoding, reading in the content fields, motivation of voluntary reading and teaching of literature. Prerequisite: teaching experience or prior course work in the teaching of reading.

**461** Materials for Teaching Reading (3)

August 6-19 Designed to provide acquaintance with materials used in the teaching of reading. Trade books and materials from content areas are examined. Prerequisites: one prior course in the teaching of reading.

**462** Reading in the Secondary School (3)

Teaching of reading in the secondary schools, including vocabulary development, comprehension, speed reading in the content fields, and organization of reading programs at the secondary level. Prerequisite: teaching experience or concurrent internship, and entry code. (211 Miller).

**465** Social Studies Education: Elementary School Programs and Practices (3)

Stresses curriculum patterns, instructional procedures, resource materials, and selection of content in social studies. For elementary and junior high school teachers. Prerequisite: teaching experience.

**466** Social Studies Education: Secondary School Programs and Practices (3)

August 10-21 Stresses curriculum patterns, instructional procedures, resource materials, and a selection of content in social studies for junior and senior high school teachers. Prerequisite: teaching experience.

Courses listed are subject to revision.

* a term: June 22-July 22  ▲ a term: July 23-Aug. 21  No symbol: full term June 22-Aug. 21
468 Workshop in Instructional Improvement: Social Studies
(1-6, max. 15)
A. Learning with Biographies (2)
July 28-August 5 Examines reading and writing to learn approach to using biographies in social studies teaching and learning. CR/NC only.

469* Educating the Black Inner-City Child (3)
July 9-22 Intensive analysis and review of the research and literature, both theoretical and empirical, relevant to curriculum patterns and programs designed especially for African American students. Special attention to the implications of research reviewed for devising effective teaching strategies for inner-city youth.

470* Science Education: Elementary School Programs and Practices (3)
Designed for classroom teachers with reference to the teaching and learning of science from kindergarten through grade six. Emphasis on objectives, methods, and materials, as related to the concepts and processes of science. Prerequisite: teaching experience.

471* Science Education: Secondary School Programs and Practices (3)
Survey of the status and potential role of science in education: trends and their implications for the teaching of both biological and physical sciences in the junior and senior high schools; representative curricula and related teaching procedures; the psychology of concept formation and problem solving; organization of science programs. Prerequisite: teaching experience.

472* Environmental Education for Teachers (3)
July 23-August 7 Status, selected problems, and role of environmental education in program of elementary, middle, and junior high schools. Opportunity to examine and receive instruction in use of existing environmental education instructional materials. Instruction is in the spirit of inquiry/discovery. Prerequisite: teaching experience.

473 Workshop in Instructional Improvement: Science
(1-6, max. 15)
A. Earth Science Education for Intermediate Grade/Middle School Teachers (3)
June 22-July 2 Investigate earth science concepts using hands-on activities and materials which incorporate inquiry-based learning and science process skills. These activities, suitable for the upper elementary and middle school classroom, can easily be integrated in the participants' existing earth science curriculum. Activities will be selected from a variety of earth science topics including an exploration of the forces of nature and human actions which change the geological face of our planet. A materials fee of $15, payable to Pacific Science Center at the first class, provides teachers with teaching materials for the classroom. CR/NC only.

B. Early Childhood Science Education (3)
July 6-17 A workshop designed for primary teachers, day care and preschool personnel, and other professionals who work with young children (ages 3-7). Emphasis is on participatory activities which are developmentally appropriate for young children and provide a foundation for future learning in science and related disciplines. A materials fee of $15, payable to Pacific Science Center at the first class, provides teachers with teaching materials for the classroom. CR/NC only.

474 Multi-Ethnic Studies: Methods, Content, and Materials (3)
Designed to help preserve and inverteceive teachers identify content and materials and devise methods for implementing ethnic studies programs and for incorporating ethnic content into regular K-12 social studies, language arts, and humanities curricula. Special attention given to teaching about American Indians, Mexican Americans, African Americans, Asian Americans, Puerto Rican Americans, and White ethnic groups.

475 Workshop in Instructional Improvement: Elementary School Mathematics (3)
Designed for elementary teachers. Emphasis on the contributions of research to the improvement of the teaching of mathematics in the elementary school. Prerequisite: teaching experience.

476* Special Topics in Mathematics for Teachers (2-9)
A. Problem Solving and Communication (3)
Study of selected areas of mathematics with a focus on problem-solving and communication. Designed for the improvement of teachers of mathematics.

477 Workshop in Instructional Improvement: Mathematics
(1-6, max. 15)
A. Alternative Assessments in the Mathematics Classroom (2)
Participants in this workshop will read and discuss the current literature on mathematical thinking and explore the various notions of assessment in the mathematics classroom.

478 Introduction to Graduate Study in Educational Technology (3)
Introduction to the theoretical and practical aspects of educational technology. Introduces 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.

479 Workshop in Instructional Improvement: Curriculum
(1-6, max. 15)
A. Japan Institute for Social and Economic Affairs (4)
Participants will be exposed to the Japanese culture through lectures, discussions, and site visits and they will develop instructional materials for teaching about Japan and intercultural understanding. Open only to NCSS/KEZH KOHO fellowships.

B. Teaching About the Middle East (3)
July 7-20 Topics to provide people who plan to teach about the Middle East with information on history, religion, culture, society, and politics of that region; to acquaint students with available materials, developed in the last 7-10 years for teaching about the Middle East.

495 Workshop in Improvement of Teaching: Selected Topics, Issues or Problems (1-6, max 15)
A. ESL Materials, Assessment, and Instruction
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.
497* Dealing Effectively with the Disruptive Student (3)
July 6-17 Several approaches to discipline. Using research, theory, and practice, participants develop individual action plans for classroom management, create formats to identify disruptive behavior, and devise means for evaluating the effectiveness of teacher intervention. Prerequisite: student teaching which may be done concurrently. CR/NC only.

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. Prerequisite: entry code. CR/NC only.

500 Field Study (3 or 6, max. 9)
Individual study of an educational problem in the field under the direction of a faculty member. Prerequisite: approval plan of study filed in the appropriate area office, and entry code. CR/NC only.

505A Seminar in Curriculum and Instruction (3)
A. Multicultural Education

August 10-21 Designed to help educators attain the concepts, theories, materials and strategies needed to teach students from diverse racial, cultural and ethnic groups. Gender and social class will also be examined. This course may be used to satisfy the EDUC 423 course requirement for teacher education students, Educating Diverse Groups.

531A Seminar: Analysis of Reading Materials (3)
Students formulate and apply criteria for assessing materials with emphasis on linguistic, cultural and psychological factors; instruction effectiveness; interest level; and educational objectives. Prerequisite: teaching experience and one basic course in the teaching of reading.

532* Seminar in Research in Reading (3)
Primary focus on those aspects of the reading process that are of concern in a developmental reading program. Emphasis on research design, evaluation of research, and research findings dealing with factors influencing reading ability, problems in skill development, and recreational reading. Includes group and individual analysis of studies with attention to research design and measurement. Prerequisite: entry code.

556* Elementary School Curriculum (3)
Study of elementary school curriculum, its design, rationale, and delivery. Current trends and issues affecting elementary school curriculum are analyzed.

558* Secondary School Curriculum Systematic description and analysis of current curriculum practices, with particular emphasis on the factors and forces affecting secondary school curriculum.

559* Principles and Procedures of Curriculum Development (3)
Intensive study of the basic principles and procedures utilized in the development of curricula. Prerequisite: teaching practice or equivalent experience.

561 Seminar in Language Arts (3)
Study of recent research in language structure with special attention to research pertaining to the teaching of language skills: auding, speech and written composition. Course work includes group and individual analysis of language arts studies with attention to research design and measurement. Prerequisite: permission of instructor.

565 Seminar in Social Studies Education: Elementary Emphasis (3)
Intensive study of the social studies curriculum, with particular emphasis on current literature and research. Prerequisite: 465 or equivalent.

566 Seminar in Social Studies Education: Secondary Emphasis (3)
Intensive study of the social studies curriculum, with particular emphasis on current literature and research. Prerequisite: 466 or equivalent.

570 Seminar in Science Education: Elementary Emphasis (3)
Investigation of curriculum and instruction in science, with particular emphasis on current literature and research. Prerequisite: 470 or equivalent. CR/NC only.

571 Seminar in Science Education: Secondary Emphasis (3)
Investigation of curriculum and instruction in science, with particular emphasis on current literature and research. Prerequisite: 471 or equivalent. CR/NC only.

575 Seminar in Mathematics Education: Elementary Emphasis (3)
Investigation of curriculum and instruction in mathematics at the elementary-school level; review of research and preparation of proposals. Prerequisite: graduate standing.

576 Seminar in Mathematics Education: Secondary Emphasis (3)
Investigation of curriculum and instruction in mathematics at the secondary-school level; review of research and preparation of proposals. Prerequisite: graduate standing.

590 Seminar in Elementary Education (3)
Exploration of the philosophy, history, purposes, curriculum, methods and school organization of elementary education. Prerequisites: elementary school training experience and 556.

599 Independent Studies in Education (*)
Independent studies or readings of specialized aspects of education. Prerequisite: entry code. CR/NC only.

600 Independent Study or Research (*)
Registration must be accompanied by a study prospectus endorsed by the appropriate faculty advisor for the work proposed and must be filed in the appropriate area office. A report or paper setting forth the results of the investigation is required. Prerequisite: entry code. CR/NC only.

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 or districts 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 filed in the Office of Educational Curriculum and Instruction, and entry code. CR/NC only.

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Educational Leadership and Policy Studies

M217 Miller Hall, DQ-12
Telephone: 543-1891

EDPGA courses are designed to meet requirements for administrative certificate programs.

479* Crucial Issues in Education (3,3)
Examines selected educational issues, policies, and contexts. Includes evolution of the American educational enterprise, legal issues, professionalism, finance, and other vital educational concerns. Prerequisite: admission to the Teacher Certification Program or permission, and entry code (211 Miller Hall). Term b is repetition of term a.

501 The Study of Educational Policies (3)
This course begins with an overview of the field of education policy (i.e., major streams of work that fall under the rubric of education policy studies), then focuses on the processes through which education policies are determined at the state and local levels. The course emphasizes analytic perspectives that can be used to examine the political dimensions of these processes. The course also provides opportunities to apply these perspectives to analyses of the political dynamics that shape education policy decisions in particular settings.

503* History of Educational Thought (3)
Studies of educational theory and practice in Western culture.
510 Introduction to School Law (3)
Impact of school law on administrative roles and processes, including due process in a school setting. Prerequisite: graduate standing.

521 Administration of School Programs (3)
June 29-July 22 Information and management techniques useful for setting priorities and goals for educational organizations, for providing procedures for allocation of human resources, and for evaluating educational programs. Topics include bases for educational programs, needs assessment, goal setting, administering the curriculum and school programs, staff utilization and development, staff morale, and program evaluation. Prerequisite: graduate standing.

528 Educational Planning and Evaluation (3)
Application of planning and evaluation methods to educational institutions. Course scheduling; collaborative planning; information systems; program planning and evaluation and budgeting; cost analysis; student attribute progress and enrollment projections. Prerequisite: graduate standing.

559 Seminar in Administration of Community Colleges (3)
June 22-July 6 For students preparing for administrative positions in community colleges. Principles and practices in organization and administration of community colleges.

561 Special Problems in Policy, Governance and Administration (3, max. 9)
Readings, lectures, and discussion of topics of special and current interest to educators. Reports on new developments in research. Prerequisite: master's degree or permission of instructor.

A. The Changing Community College Classroom (3)
July 7-13 Changes confronting community college instructors and their administrators in the day-to-day classroom experience. Topics covered will include the special needs of the disabled, the increasing ethnic and cultural diversity of the students, the arrival of new instructional technology, expectations that all instructors will evaluate their students' writing, and the special issue of sexual harassment.

B. State Government and the Community College (3)
July 14-20 Relationships between the community college and state government. Topics covered will include relations with the office of the governor, the legislature, and the state coordinating boards from the perspective of the lobbyist in Olympia, the state coordinating board, college administrators, individual members of the faculty and staff, and students.

C. The Role of Leadership in Schools That Work for All Children (3)
June 29-July 10 Focuses on the attitudes, behaviors, and values of formal and informal school leaders that ensure that equity and excellence exists for every child. There will be a particular emphasis on creating school environments that are more "user-friendly" for minority children.

F. Labor Relations in the Public Sector (3)
Covers the right to join and form unions, the establishment of the collective bargaining relationship, determination of the appropriate bargaining unit, the obligation and duty to bargain, the scope of bargaining, union security, the right to strike and alternative dispute resolution mechanisms, enforcement of collective bargaining agreements, and political and civil rights of government employees. Offered with LAW 455.

600 Independent Study or Research (*)
601 Internship (3-9, max. 9)

Educational Psychology (EDPSY)
312 Miller Hall, DQ-12
Telephone: 543-6347

A set of educational psychology courses to meet basic graduate degree requirements and several special courses dealing with current and critical psychological issues in education are on the summer EDPSY schedule.

The 1992 summer curriculum in educational psychology includes a cluster of related courses especially relevant to the work of counselors, school psychologists, and teachers of children with special needs. This cluster (see the EDPSY 449 designations) is augmented by several courses not normally offered during summer terms (EDPSY 565 and 573). A seminar concerning behavior management techniques is also available for school psychologists (EDPSY 581). In addition to these various specialty courses, the Educational Psychologysummer course array features a selection of advanced courses basic to the standard College of Education graduate degree curriculum.

As a further programmatics opportunity for selected students interested in major progress toward school counselor certification, a special summer Counseling Institute is available. To be eligible for this Institute, applicants should have a master's degree in a closely related field or present evidence of solid prospects for such a degree. Four counselor educators from the College of Education faculty will join to assess, guide and instruct approximately twelve Institute participants in intensive and mostly individualized experience geared to Washington State Educational Staff Associate counselor certification standards. For further information, call Professor Jerald Forster at (206) 543-4970.

304 Educational Psychology (5)
Human learning in the educational setting. Cognitive, development, learning, motivation, affective processes, and socialization. Emphasis on skills in influencing classroom learning and discipline. Prerequisite: entry code (211 Miller Hall).

308 Evaluation in Education (3)
Fundamentals of measurement, construction of achievement tests, selection and administration of standardized tests and scales, and evaluation and application of test results. Prerequisite: entry code (211 Miller Hall).

408 Stress Management for Teachers and Administrators (3)
Principles and methods of stress management for school personnel and students. Designed to help teachers handle the stress associated with teaching. The principles also apply to management of students' stress. Background in educational psychology is recommended but is not a prerequisite. CR/NC only.

449 Laboratory in Educational Psychology (2-6, max. 6)
A. Increasing Self-Esteem in the Classroom (3)
July 6-17 Designed to improve educators' abilities to raise the self-esteem of students. Focuses on the development of a personal rationale and skills that facilitate the identification and articulation of dependable strengths and improve self-identity. Intended for teachers, counselors and administrators in K-12 settings. CR/NC only.

B. Democratic Interpersonal Practices in the Classroom (3)
Explores the Alderian principles underlying guidelines such as Positive Discipline and Co-operative Discipline. Emphasizes positive relationships and enhancement of self-esteem. Specific applications for the classroom will be addressed, including the assessment of problematic behaviors and recommendations for change. CR/NC only.

C. Cognitive Engineering: Learning How to Learn (3)
A special course designed to assist students toward an understanding of the human cognitive system in general and their own cognitive system in particular. Special attention is paid to metacognitive activity for solving problems about academic learning and thinking: reading comprehension, essay writing, test taking, memory work, mathematical tasks, and analogical thinking. Particularly well suited for teachers and clinical special-

▶ See the Time Schedule section, pages 73-113, for class dates and times.
ists who seek insight into their own strategic learning and thinking and that of students or clients with whom they work. CR/NC only.

**D. Dynamic Assessment (3)**

A course focused on trends and techniques about dynamic assessment. Particular emphasis is placed on the unique applications and advantages of dynamic versus the more conventional static approaches for assessing individual differences and children with special needs, including the gifted and learning disabled. This course includes a demonstration of dynamic assessment and the illustration of the intervention program derived from such assessment. Especially recommended for teachers and clinical specialists who serve populations of special children. CR/NC only.

449A Laboratory in Educational Psychology (2-6, max. 6)

**E. Constructivist Psychology (2)**

This course will cover current topics in constructivism, language and meaning as addressed through Personal Construct Psychology. Enrollees will participate in sessions chosen from over fifty presentations of papers at a North American conference on the University of Washington campus. Prerequisite: permission of instructor. CR/NC only.

**F. Chemical Dependency Counseling (3)**

Designed to provide a theoretical and technical orientation to counselors assisting drug and alcohol ("substance") impaired clients. Focuses on effective strategies with a formative base adapted from the 12-step Program of recovery, based on principles first enumerated in Alcoholics Anonymous. Review and critical analysis of professional advances in intervention, group counseling, behavioral change, and relapse prevention. This course is designed for school and community agency personnel and is a core course in the accreditation standards for chemical dependency counselors (WAC 275-19). CR/NC only.

490 Basic Educational Statistics (3)

Measures of central tendency and variability, point and interval estimation, linear correlation, hypothesis testing.

499 Undergraduate Research (*)

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. Prerequisite: entry code (312) Miller Hall). CR/NC 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 filed in the appropriate area office, and entry code (312) Miller Hall). CR/NC only.

501 Human Learning and Educational Practice (3)

Systematic examination of current research about human learning and instructional psychology, including the study of motivation, human abilities, learning, the learning process, and performance assessment. Prerequisite: 304 or equivalent.

508 Clinical Supervision—Practicum (2-6, max. 12)

Practicum in supervising counseling, group counseling, diagnostic activities and remedial reading therapy. Prerequisites: advanced graduate standing and entry code.

511 Seminar in Applied Educational Psychology (1)

Designed for graduate students in educational psychology. Applications of theoretical constructs to particular problems encountered in school counseling practice. Prerequisite: entry code. CR/NC only.

520 Psychology of Reading (3)

Reading and perception, word recognition, concept development and meaning in reading, psychology or reading interests and skills. Prerequisite: 501 or equivalent.

542A Career Development (3)

Emphasis on vocational development theory and research. Psychological, social, and economic determinants of vocational development and choice are examined as a basis for vocational counseling. Prerequisite: graduate standing or permission of instructor. CR/NC only.

544 Counseling (5)

Emphasis on the theory and practice of counseling.

545A Practicum in Counseling (3)

Supervised practice in counseling. Prerequisite: 544 and entry code.

550 Family Counseling (3)

Introduction to family counseling theory and practice, emphasizing family dynamics and communication analysis. Prerequisite: 544 or permission of instructor. CR/NC only.

555 Seminar in Counseling Speciality (2)

Oriented toward the role of a counselor as a professional worker. Prerequisite: entry code. CR/NC only.

564 Practicum in School Psychology (1-6, max. 6)

Practicum in appraisal and counseling, emphasizing diagnosis and counseling with behavior and learning disabilities, and focusing on techniques acquired in 540, 545 and 565. Prerequisite: entry code.

565 Personality Appraisal (5)

Study of personality evaluation with a supervised laboratory emphasizing work with children and their families. Prerequisites: 540, 548, entry code.

566A Case Study Seminar (1, max. 4)

Integrating theoretical concepts with practice/service issues. Cases selected for discussion represent a wide range of problems and agency settings, including school and child problems. Prerequisite: entry code (312) Miller Hall). CR/NC only.

573 Psychological Assessment of Preschool Children (3)

July 6-17 Students learn to give and interpret five tests of intellectual development, to assess language, play, and social/emotional functioning, and to write psychological assessment reports for infants, toddlers, and preschoolers. Prerequisites: 502 and entry code.

581A Seminar in Educational Psychology (1-3, max. 15)

A. Behavior Management Techniques for School Psychologists (3)

This seminar will examine various behavioral techniques for managing children's behavior. A second objective is to assist the school psychologist in consultation with teachers when working with children with disruptive or withdrawn behaviors. Emphasis will be on intervention strategies including cognitive-behavior therapy, social skills training, self-monitoring techniques, interviewing, and observational techniques. CR/NC only.

591 Methods of Educational Research (3)

Introduction to educational research. Primary focus on hypothesis development, experimental design, use of controls, data analysis and interpretation. Required of candidates for advanced degrees. Prerequisites: 490 and entry code (312 Miller Hall).

593 Experimental Design and Analysis (5)

Experimental design with emphasis on the analysis of variance. Prerequisites: 490 or equivalent, and 591 or permission of instructor, and entry code.

594 Advanced Correlational Techniques (5)

Multivariate analysis, including regression and multiple correlation; matrix algebra; factor analysis. Prerequisite: 490 or equivalent.

599 Independent Studies in Education (*)

Independent studies or readings of specialized aspects of education. Prerequisite: entry code (312) Miller Hall). CR/NC only.

600 Independent Study or Research (*)

601 Internship (3-9, max. 9)
College of Education

Special Education (EDSPE)

103 Miller Hall, DQ-12
Telephone: 543-1827

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)
Atypical children studied from the point of view of the classroom teacher.

419 Interventions for Families of Children with Disabilities (3)
Upper-division course for professionals and para-professionals working with families of children with disabilities enrolled in special education or integrated programs.

435 Principles and Practice of Manual English (3)
Nature of manual communication is introduced with an identification of its specific modes: American sign language, signed English, total communication, finger spelling, and manual English. Discussions center on the linguistic structure of signs on young children, and a review of the pertinent literature. Laboratory sessions emphasize manual English.

496 Workshop in Special Education (1-9, max. 15)
A. Individual Topics
Demonstration, observation, and/or participation with groups of children with disabilities in laboratory or controlled classroom settings. Prerequisite: permission of instructor and entry code (103 Miller Hall). CR/NC only.

496 Workshop in Special Education (1-9, max. 15)
B. Evaluation of Children with Mild Disabilities (3)
Course will address the types of assessment most commonly used by special education teachers in school settings, examine the standardized tests and probes for the evaluation of academic functioning on the IEP, and systems of measurement (Curriculum-based Measurement/Assessment) to evaluate ongoing progress in reading, math, and content areas over time.

496A Workshop in Special Education (1-9, max. 15)
C. Behavior Problems in the Classroom (3)
July 23-Aug. 22 Mainstreaming, alternatives to punishment, teaching social skills, and communicating effectively with parents. Emphasis on methods to be taken back to the classroom. Meets at the UW Tacoma Campus.

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 (103 Miller Hall). CR/NC only.

520 Seminar in Applied Special Education (1-12, max. 12)
A. Classroom Management (3)
Presentation of fundamental principles of applied behavior analysis in a practical framework that can be directly applied to classroom management. Focus is primarily directed towards preschool and elementary school-aged children with special needs; however, the principles are applicable to children of all ages and abilities. Issues of assessment, data collection, data management, intervention strategies, and evaluation will be covered.

600 Independent Study or Research (*)
Registration must be accompanied by a study prospectus endorsed by the appropriate faculty advisor for the work proposed. Prerequisite: permission of instructor and entry code (103 Miller Hall). CR/NC only.

601 Internship (3-9, max. 9)
Prerequisites: Graduate standing and permission based on prearrangement of internship placement approval by advisor, and entry code (103 Miller Hall). CR/NC only.

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 (A A)

206 Guggenheim Hall, FS-10
Telephone: 543-1950

499 Special Projects (2-5, max. 10)
Prerequisite: entry code. CR/NC only.

599 Special Projects (1-5, max. 15)
Investigation of a special project by the student under supervision of a faculty member. Prerequisite: entry code. One section is CR/NC only.

600 Independent Study or Research (*)
700 Master's Thesis (*)
800 Doctoral Dissertation (*)

Chemical Engineering (CH E)

105 Benson Hall, BF-10
Telephone: 543-2250

499 Undergraduate Research (1-6, max. 12)
Prerequisite: entry code.

600 Independent Study or Research (*)
700 Master's Thesis (*)
800 Doctoral Dissertation (*)

Civil Engineering

201 More Hall, FX-10
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)

700 Master's Thesis (*)
800 Doctoral Dissertation (*)

Structural and Geotechnical Engineering and Mechanics (CESM)

474 Advanced Structures I (3)
The displacement method in matrix form with programming applications. Fundamentals of modeling of various types of structures.

► See the Time Schedule section, pages 73-113, for class dates and times.
Computer Science and Engineering (CSE)

114 Sieg Hall, FR-35
Phone: 543-1695

142 Computer Programming for Engineers and Scientists I (4)
Computer programming in a high-level language. Emphasizes algorithms (variables, expressions, statements); abstraction (data types, subprograms, packages, generics); analysis (correctness, efficiency, numerics). Program design analysis: specification, coding, documentation, testing, debugging, evaluation (mostly in Ada, including FORTRAN). Using software tools. Joint with ENGR 142.

143 Computer Programming II (5)
Continuation of CSE/ENGR 142. New topics include analyzing algorithms; using/writing standard software components (queues, stacks, and tables) implemented by private types, generic packages, and dynamic data structures (lists and trees); recursive data- and control-structures. The last two weeks survey topics in computer science. Prerequisites: CSE 142 or ENGR 142.

499 Special Projects: Transportation, Construction, and Geometric (1-5, max. 6)
Individual undergraduate research projects. Max. of 6 credits allowed toward an undergraduate degree. Prerequisite: entry code.

599 Special Topics—Structures and Mechanics (2-5, max. 15)
Prerequisite: entry code.

600 Independent Study or Research (*)

Transportation, Surveying, and Construction Engineering (CETS)

499 Special Projects: Transportation, Construction, and Geometric (1-5, max. 6)
Individual undergraduate research projects. Max. of 6 credits allowed toward an undergraduate degree. Prerequisite: entry code.

599 Special Topics: Transportation, Construction, and Geometric (2-5, max. 15)

600 Independent Study or Research (*)

Environmental Engineering and Science (CEWA)

499 Special Projects: Water and Air Resources (1-5, max. 6)
Individual undergraduate research projects. Max. of 6 credits allowed toward an undergraduate degree. Prerequisite: entry code.

599 Special Topics: Water and Air Resources (2-5, max. 15)

600 Independent Study or Research (*)

Electrical Engineering (E E)

215 Electrical Engineering Building, FT-10
Phone: 543-2142

306 Elements of Electrical Engineering (3-5)
An introductory course for non-electrical engineering majors, covering circuit analysis, electronic devices, and rotation machinery. The three-credit portion covers circuit analysis and electronics; the four credit portion contains two laboratories to introduce electronic instrumentation and device operation. The five-credit portion covers machinery with additional laboratory. Prerequisites: PHYS 122 and MATH 126. Mechanical Engineering majors only.

312 Electrophysics Laboratory (2)
Three-hour laboratory period each week; experiments on solid-state devices, properties of materials, generation and guiding of electromagnetic waves. Prerequisites: 310, 381, and 383 (may be taken concurrently). Electrical and computer engineering majors only. Nonmajors need departmental permission.

335 Linear Systems Analysis I (4)
Analysis of linear systems to continuous and discrete time. Fourier analysis of continuous and discrete signals and systems. The sampling theorem and its ramifications. Laplace transforms and z-transforms and their utilization. Prerequisite: 333. Electrical and computer engineering majors only. Nonmajors need departmental permission.

356 Electronics II: Analog Integrated Circuits (4)
Analog integrated circuit technology, input stages, bipolar and FET, current sources, output stages, frequency response, feedback fundamentals, and stability analysis applications. Includes weekly laboratory. Prerequisites: 333, 335, 310 recommended. Electrical and computer engineering majors only. Nonmajors need departmental permission.

383 Semiconductor Materials and Devices (4)
Introduction to the basic electronic properties of semiconductor materials and devices. Energy bands, dynamics of electrons and holes, equilibrium statistics, carrier mobility, and recombination. Electrostatics of p-n junctions, characteristics of MOSFETS. I-V characteristics of p-n junctions and bipolar transistors. Prerequisites: 251, PHYS 123. Electrical and computer engineering majors only. Nonmajors need departmental permission.

399 Special Topics in Electrical Engineering (1-5)
New and experimental approaches to current electrical engineering problems. May include design and construction projects. Prerequisite: entry code.

433 Electronic Circuit Design (4)
Electronic circuit design using modern electronic devices. Topics include application of integrated-circuit amplifiers and multiplexers, design of solid-state amplifiers for low noise, wide bandwidth, high frequency, high power output, and the application of modulation theory to modern systems. The design aspect of solid-state electronic circuitry is emphasized. Prerequisite: 356. Electrical and computer engineering majors only. Nonmajors need departmental permission.

446 Control System Analysis I (4)
Linear servomechanism theory and design principles. Pole-zero analysis, stability of feedback systems by root locus and real-frequency response methods. Design methods of Bode and Nichols. Introduction to advanced topics in automatic control theory. Prerequisite: 355, ENGR 230 recommended. Electrical and computer engineering majors only. Nonmajors need departmental permission.

499 Special Projects (2-5, max. 10)
Assigned construction or design projects carried out under supervision of instructor. Prerequisite: entry code.
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)
Principles of statics, basic concepts, parallellogram law, Newton’s law, resultants, force couple relationships, equilibrium diagrams, equilibrium analysis, three-dimensional structures, two-dimensional frames, trusses, beams, and friction. Vector algebra used throughout the course. Prerequisites: MATH 126 and PHYS 121; graphics background recommended.

220 Introduction to Mechanics of Materials (4)
Introduction to the concepts of stress, deformation, and strain in solid materials. Development of basic relationships between loads on structural and machine elements such as rods, shafts, and beams and the stresses, deflections, and load-carrying capacity of these elements under tension, compression, torsion, bending, and shear forces, or combinations thereof. Prerequisite: 210.

230 Kinematics and Dynamics (4)
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, Euler equations, and special problems (e.g., central force motion, vibration). Prerequisite: 210.

260 Thermodynamics (4)
Introduction to basic principles of thermodynamics from a predominantly macroscopic point of view. Development of the basic laws of thermodynamics, together with their illustration by application to energy transformations and state changes in engineering problems. Prerequisites: MATH 126, PHYS 121, and CHEM 140.

322 Engineering Cooperative Education Postwork Seminar (1-5, max. 16)
Prerequisite: entry code (Loew 353). CR/NC only.

331 Advanced Technical Writing (3)
Principles of presenting technical material logically, concisely, and effectively to meet requirements 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: junior standing or permission of instructor.

401 Methods in Applied Mathematics I (4)
Acquisition of technique and experience in application of areas of mathematics encountered in science and engineering; illustrated by case studies from many fields. Applications of vector differential calculus; line and surface integrals, integral theorems; complex variables; Taylor and Laurent series, contour integration. Joint with AMATH 401. Prerequisites: MATH 205; MATH 327 or A A 370; and AMATH 351 or MATH 238; or permission of instructor.

402 Methods in Applied Mathematics II (4)
See 401. Applications of ordinary differential equations; phase plane, stability; systems of differential equations; power series solutions; Laplace transforms. Joint with AMATH 402. Prerequisites: MATH 205; MATH 327 or A A 370; and AMATH 351 or MATH 238 or permission of instructor.

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).

Materials Science and Engineering (MSE)
302 Roberts Hall, FB-10
Telephone: 543-2600
tion toughening, microcracking, and bridging mechanisms. Suggested prerequisite: a course on mechanical properties of ceramics.

600 Independent Study (*)
700 Master's Thesis (*)
800 Doctoral Dissertation (*)

Mechanical Engineering (ME)
143 Mechanical Engineering Building, FU-10
Telephone: 685-0908

304 Manufacturing Processes (3)
Study of manufacturing processes, including interrelations between the properties of the material, the manufacturing process, and the design of component parts. Prerequisite: 343.

333 Introduction to Fluid Mechanics (4)
Introduction to the basic fluid laws and their applications. Conservation equations, dynamic similarity, potential flow, boundary layer concept, effects of friction, compressible flow, fluid machinery, measurement techniques. Prerequisites: ENGR 260, MATH 307.

353 Machine Design Analysis (4)
Analysis, design, and selection of mechanical sub-systems and elements, such as gears, linkages, cams, and bearings. Prerequisites: 343, 352.

395 Introduction to Mechanical Design (4)
Design process and methodology; decision making; optimization techniques; project planning; engineering economics; probabilistic and statistical aspects of mechanical design; ethical and legal issues. Prerequisites: ENGR 123, ME 352, ENGR 260, ENGR 315, ME 373.

434 Advanced Mechanical Engineering Laboratory (3)
Introduction to engineering measurement problems and techniques including interpretation of experimental data based upon the theories of probability and statistics. Experiments in all areas of mechanical engineering using single-component and multicomponent systems. Prerequisites: 323, 331, 333, 343, 374, and ENGR 315.

469 Applications of Dynamics in Engineering (4)
Application of principles of dynamics to selected engineering problems, such as suspension systems, gyroscopes, electromechanical devices. Includes introduction to energy methods, Hamilton's principle and Lagrange's equations and design of dynamic systems. Prerequisites: 374, ENGR 230, or permission of instructor.

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 tests are used as reference sources. Lecture and laboratory. Prerequisites: 331, 333, 374, 395.

499 Special Projects (2-5, max. 9)
Prerequisite: entry code.

599 Special Projects (1-5, max. 9)
600 Independent Study or Research (*)
700 Master's Thesis (*)
800 Doctoral Dissertation (*)

Nuclear Engineering (NUC E)
303 Benson Hall, BF-20
Telephone: 543-2754

499 Undergraduate Research Projects (1-6, max. 6)
Independent research projects in nuclear engineering. Prerequisite: entry code.

600 Independent Study or Research (*)
700 Master's Thesis (*)
800 Doctoral Dissertation (*)

Technical Communication (TC)
14 Loew Hall, FH-40
Telephone: 543-2567

495 Professional Practice (3-5, max. 10)
Supervised internship in a working publications organization approved by the faculty adviser. A minimum of one internship is required of students taking an interdisciplinary degree in technical communication. Prerequisite: 3.0 average in required TC courses, or permission of TC Admissions and Academic Standards Committee. CR/NC only.

499 Special Projects (2-5, max. 10)
Individual undergraduate projects in scientific and technical communication. Prerequisite: permission of instructor.

599 Special Projects (1-5)
Written report required. Prerequisite: permission of program director.

600 Independent Study or Research (*)
Written report required. Prerequisite: permission of program director.

601 Internship (3-9, max. 9)
Written report required. Prerequisite: permission of program internship adviser.

700 Master's Thesis (*)
Prerequisite: permission of thesis adviser.

College of Forest Resources

For information, contact the University of Washington, Curriculum Adviser, College of Forest Resources, 116 Anderson Hall, AR-10, Seattle, Washington 98195, or call (206) 543-7081.

Two scheduled courses: intern, tutorial, research, and thesis courses are offered; all except FRM 400, and UFW 335 require an entry code. Tutorial study is designed to meet the individual requirements of undergraduate and graduate students and may include literature review and field and laboratory work; consult the Time Schedule section in this bulletin for a complete listing of tutorial courses.

Forest Resources Management (FRM)

107F Anderson Hall
Telephone: 543-9695

300 Professional Forestry Internship (3-5, max. 8)
Comprehensive examination of an acceptable experience in professional forestry within a public or private agency, including operational policies and procedures. Preparation of professional assessment report and presentation of seminar based on internship in forest management in broad aspects. Prerequisites: completion of Pack Forest, instructor's permission, and entry code.

387 Wildland Recreation Internship (5)
Comprehensive examination of a recreation agency or organization's policies, procedures, and operations in the park or forest setting. Preparation of professional assessment report and internship seminar based on internship experience in recreation management, planning, and interpretation. Prerequisites: completion of one cooperative education work experience, senior standing, and entry code.

400+ Forestry in Washington (5)
Examines the components of contemporary forestry practices and issues and their importance to the economy and quality of life in Washington State. For education majors, selected lab sessions will provide hands-on experience for classrooms K-12 using the Project Learning Tree activity guides.
**College of Forest Resources**

One all-day field trip. Prerequisites: seniors or graduate-level students.

487 Advanced Wildland Recreation Internship (10)
Application of professional field experience to develop proficiency in one of three subject areas: park interpretation, park planning, or park management. Advanced field-related course given in conjunction with a recreation agency. Preparation for evaluation of professional internship experience. Prerequisites: 387, senior standing in outdoor recreation, or permission, and entry code.

490, 491, 492 Undergraduate Studies (1-5, 1-5, 1-5)
Prerequisite: entry code.

590 Graduate Studies (1-5)

600 Independent Study or Research (*)

601 Internship (3-9)
Internship required of students in Master of Forest Resources program in Urban Horticulture. Independent work in collaboration with faculty, Arboretum staff, and/or sponsoring institutions. Prerequisite: permission of graduate program advisor. Entry code required. CR/NC only.

700 Master's Thesis (*)

800 Doctoral Dissertation (*)

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**Forest Products and Engineering (FPE)**

107F Anderson Hall
Telephone: 543-9695

490, 491, 492 Undergraduate Studies (1-5, 1-5, 1-5)
Prerequisite: entry code.

590 Graduate Studies (1-5)

600 Independent Study or Research (*)

601 Internship (3-9)

700 Master's Thesis (*)

800 Doctoral Dissertation (*)

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**Urban Horticulture (UHF)**

107F Anderson Hall
Telephone: 543-9695

331 Landscape Plant Recognition (3)
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. Joint with BOT 331. Recommended: BOT 113.

590 Graduate Studies (1-5)

600 Independent Study or Research (*)

601 Internship (3-9)

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**School/College Interdisciplinary Graduate Degree Programs**

**Individual Ph.D. Program (IPHD)**

201 Administration Building, AG-10
Telephone: 543-5900

600 Independent Study or Research (*)

800 Doctoral Dissertation (*)

**Physiology Psychology (PSY)**

G424 Health Sciences, SJ-40
Telephone: 685-0519

800 Doctoral Dissertation (*)

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**Interschool or Intercollege Programs**

**Bioengineering (BIOEN)**
309 Harris Hydraulics Laboratory, WD-12
Telephone: 685-2000

499 Special Projects (2-6, max. 6) (*)

599 Special Topics in Bioengineering (1-6, max. 15) (*)

600 Independent Study or Research (*)

700 Master's Thesis (*)

800 Doctoral Dissertation (*)

**Quantitative Science (Q SCI)**
3737 15th Ave. NE, HR-20
Telephone: 543-1191

381 Introduction to Probability and Statistics (3)
Elementary concepts of probability; sample space, set theory, random variables, expectations, variances, covariance; multinormal, normal hypergeometric, Poisson, negative-binomial, geometric, uniform normal, chi-square, "t" and "F" distributions; point and interval estimation, basic concepts of hypothesis testing; applications to biological problems. Introduction to computers. Prerequisite: MATH 105 or equivalent.

482 Statistical Inference in Applied Research (3)
Analysis of variance; chi square tests; nonparametric procedures; experimental design and power of tests. Application to biological problems. Prerequisites: 381, or permission of instructor.

**School of Law**
316 Condon Hall, JB-20
Telephone: 543-4078

The program for summer 1992 is directed primarily to non-law students in the belief that the School of Law can contribute to the cultural and professional education of people whose interests and needs include some knowledge of the law and the legal system. Students may also find that the course Introduction to Law (LAW 300) will arouse their interest in attending law school in the future.

*See the Time Schedule section, pages 73-113, for class dates and times.*
The School of Law will also make some of the summer 1992 offerings available to matriculated law students in the belief that these courses will enrich their professional training. Courses will depart from mainstream practice-oriented courses and may require something extra of the law-student members of the class such as research and a paper on a particular aspect of the course. These courses are in addition to the externships available to University of Washington law students. Law students should enroll in course numbers with the A or B prefix.

The Summer Quarter may be used by matriculated law students as one of the nine necessary resident quarters if special permission is given by the Associate Dean of the School of Law. It is necessary to earn at least 12 credits to qualify any quarter as a resident quarter. Normally 15 credits constitute a full quarter load.

Students in good standing at other law schools may enroll in the University of Washington summer law courses, with the exception of the externships and the tutorial, and arrange to transfer these credits to the colleges or universities from which they expect to receive their degrees.

Students matriculated in the School of Law may register for Summer Quarter 1992 courses through the Law School's Student Services Office. Enrollment by students matriculated in degree programs in other law schools is initiated by application available at the Office of the Director of Admissions, School of Law, University of Washington, 316 Condon Hall, JB-20, Seattle, Washington 98195, and returned to that office no later than June 12, 1992.

Non-law students matriculated at the University of Washington enroll through regular University of Washington registration. Other individuals, including non-law students matriculated at other schools or colleges, should complete the enclosed Summer Quarter 1992 application form.

300 A Introduction to Law (3-6, max. 6)
Understanding the legal system, its functions in the socio-economic order, legal reasoning, and the world of legal education and the legal profession. Taught by law professors and open to non-law students only. Students can take term a, term b, or both. Taught with O E 200.

455 A Labor Relations in the Public Sector (3)
Covers the right to join and form unions, the establishment of the collective bargaining relationship, determination of the appropriate bargaining unit, the obligation and duty to bargain, the scope of bargaining, union security, the right to strike and alternative dispute resolution mechanisms, enforcement of collective bargaining agreements, and political and civil rights of government employees. Open to non-law students.

459/B559A Comparative Law: Europe, Latin America and East Asia (3)
An introduction to the principal legal traditions in Europe, Latin America, and Asia with particular emphasis on the basic institutional features of civil law systems. The course covers the historical development of the civil law tradition and its reception in non-western societies, as well as the basic institutional contrasts between civil and common law jurisdictions and among civil law jurisdictions. Students will also have the opportunity to select a particular country of interest and examine in greater detail the basic features of its legal system. Open to non-law students.

462/A562A Employment Law (3)
A study of the law governing the employment relationship, including the establishment and termination of the relationship. Specific topics studied include employee access to job opportunities, employer information gathering (including testing), prohibited discriminatory employment practices, regulation of wages, hours, and benefits of employment, occupational safety and health, the developing concept of unjust discharge, and regulations providing protection of retirement benefits. Open to non-law students.

491/A591A Constitutional Law: Freedom of Expression (3-6, max. 6)
Explores issues relating to constitutional rights of free expression: Speech and Press, Establishment Clause, and Free Exercise of Religion. Open to non-law students.

B 530A Judicial Externship (1-15, max. 15)
For University of Washington law students only. CR/NC only.

B 532A Supervised Analytic Writing ((1-3)-, max. 3)
For UW law students only.

B 535A Legislative Externship ((1-15), max. 15)
For UW law students only. CR/NC only.

B 538A Agency Externship ((1-15), max. 15)
For UW law students only. CR/NC only.

B 539A Public Interest Law Externship ((1-15), max. 15)
For UW law students only. CR/NC only.

B 552A Tutorial in Comparative Law ((1-4), max. 4)
For UW law students only.

600 Independent Study or Research (*)

800 Doctoral Dissertation (*)

Graduate School of Library and Information Science

Access to information is increasingly essential in all aspects of an individual's personal and professional endeavors. Career opportunities in the information profession are becoming more interesting, challenging, and diverse as the use of technology expand. 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, and courses are also 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. Dorothy Anderson, Assistant Dean, The Graduate School of Library and Information Science, University of California, Los Angeles; Dr. Thomas J. Galvin, Director, Information Science, Ph.D. Program, State University of New York, Albany; Professor Frank Houdek, Law Library Director and Professor of Law, Southern Illinois University School of Law, Carbondale; Guy St. Clair, President, OPL Resources, Ltd., Washington D.C. and current President of the National Special Libraries Association; and Kerry Webb, Director, Systems Branch, National Library of Australia, Canberra.

Students in other programs are encouraged to enroll in these courses.

Library and Information Science (LIS)

133 Suzzallo Library, FM-30
Telephone: 543-1794

498 A Special Topics (1-5, max. 15)

A Information and Public Policy (3)

July 6-17 Consideration of selected public policy issues relating to information and communications, particularly in areas characterized by conflict among information access rights, proprietary rights and privacy rights. Topics include information equity, privacy, intellectual property, broadcast, cable and telecommunications regulation, censorship, scientific, technical and proprietary information, transborder information and data flows, and the geopolitics of information. CR/NC only.

# a term: June 22-July 22 b term: July 23-Aug. 21 No symbol: full term June 22-Aug. 21

Courses listed are subject to revision.
Graduate School of Library and Information Science

B. Interpersonal Communication (3)

July 6-17 Examines interpersonal dynamics in management/staff, librarian/client, and interagency relationships. Emphasis on effective communication styles for making decisions, managing conflicts and implementing change. These strategies can be used in a wide variety of interpersonal situations. CR/NC only.

498A Special Topics (1-5, max. 15)

C. Managing the One-Person/Minimal-Staff Library (3)

July 27-August 7 Basic management techniques for the one-person or minimal-staff library/information center (defined as the library in which the librarian does all the work or, at best, with minimal assistance). Suitable for public, school, special, and academic managers. Subjects addressed include planning, time management, budgeting, and public relations. CR/NC only.

D. Information Networks: Local and International (3)

July 27-August 7 Survey and introduction covering what the information manager needs to know about opportunities, risks and trade-offs in utilizing the new networking technologies. Will include large-scale planning of networks through examples and case studies. Consideration will be given to satellites, microwaves, and optical fibers. Focus will be on the interpretation of telecommunications concepts and their relationship to local and broad area information services planning. CR/NC only.

501A Bibliographic Control (4)

July 23-August 21 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 22-July 21 Concepts and conventions of bibliographic record structure, file organization, and search protocols. Elementary techniques in the use of bibliographic utilities and on-line search services. Prerequisite: major standing or permission of instructor.

547A Evaluation and Selection of Audiovisual Materials (3)

August 10-21 Develops competency in applying criteria to the evaluation, selection, and use of audiovisual materials and their accompanying technologies. Focuses on previewing the full range of audiovisual formats found in all types of libraries.

577+ Law Library Administration (4)

June 23-July 22 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. CR/NC only.

590 Directed Field Work (4)

Professionally supervised field work in library or professional information agency. Prerequisites: 33 credits in Master of Librarianship degree program. CR/NC only.

600 Independent Study or Research (*)

700 Master's Thesis (*)

Prerequisite: entry code.

Microbiology

See course listings under College of Arts and Sciences, page 28.

Pathology (PATH)

CS16 Health Sciences Center, SM-30
Telephone: 543-1140

498 Undergraduate Thesis (*)

Prerequisite: permission of instructor.

499 Undergraduate Research (*)

Prerequisite: entry code.

507 Cellular Pathology (2)

May be repeated for credit. Emphasis on application of recent developments and techniques in biology to problems of pathology. Series of lectures by eminent visiting scientists with expertise in the area being discussed. Prerequisite: permission. CR/NC only.

551 Experimental and Molecular Pathology (2-5, max. 20)

Prerequisite: entry code. May be repeated for credit. CR/NC only.

600 Independent Research (*)

Prerequisite: entry code. May be repeated for credit.

679P Pathology Summer Clerkship (*) (max. 24)

Clerkship designed for the summer following students' first year. Several sites available. Prerequisite: 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 histologic 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 immuno, cytochemistry, and electron microscopy. Prerequisite: permission.

> See the Time Schedule section, pages 73-113, for class dates and times.
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.

522 Selected Topics in Respiratory Physiology (1-3)
May be repeated for credit. Advanced seminar on selected topics including pulmonary mechanics, gas exchange, lung fluid balance and circulation, control of respiration. Prerequisite: instructor permission and entry code.

527 Reading 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.

550 Decision Making and Therapeutics in Nursing (3)
Nature of nursing knowledge and reasoning processes in problem solving, nursing diagnosis, and therapy decisions. Examines values in relation to the professional nursing practice. Emphasizes critical and abstract thinking skills. Provides opportunity for implementation of reasoning processes in a variety of patient settings. Prerequisite: admission to RN-Master's program or permission of instructor.

Courses in Nursing Science (NURS)

573 Advanced Field Study in Family Nursing (2-9)
Advanced practice development in direct care, consultation, and/or coordination with individual families or groups of families across the life span. Opportunities provided to strengthen interpersonal and therapeutic process skills, family nursing approaches relevant to family health promotion, problematic family health patterns. Prerequisites: concurrent registration in 574; recommended: 571 CR/NC only.

574 Family Nursing Therapeutics: A Systems Perspective (3)
Family models and research evaluated for relevance to advanced nursing practice and the family as a system. The interrelatedness of the individual, family, and social and health contexts examined. Experiential learning labs with family case analyses enhance knowledge and therapeutic skills. Prerequisite: permission of instructor.

590 Special Topics in Nursing Research (2-3, max. 9)
Examination of a specific research method, with evaluation of appropriateness, efficiency, rigor of measurement, and potential for interference for nursing research. Prerequisites: minimum of five credits of basic nursing research methodology at graduate level and permission of instructor.

A. Qualitative Methods (3)

598 Special Projects (1-12, max. 12)
Special projects course to fulfill the requirements of the non-thesis option for Master's in Nursing students. May be repeated until the project is completed. Projects involve scholarly inquiry with in-depth focused analysis culminating in a written product/report for dissemination. Prerequisites: 520 and 521 or permission of instructor.

800 Doctoral Dissertation (*)

Courses for Registered Nurses (NURS)

340 Clinical Nursing Phenomena (3)
Selected clinical phenomena are examined from the perspective of physiologic, pathophysiologic, experiential, and behavioral responses to life events and alterations in states of health and illness. The relationship of nursing therapies to each of these perspectives and the influence of life span and sociocultural factors are identified.
### Community Health Care Systems (CHCS)

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<tr>
<th>Course Code</th>
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<th>Prerequisites</th>
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<tbody>
<tr>
<td>499</td>
<td>Undergraduate Research (1-5, max. 12)</td>
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<th>Course Code</th>
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<tr>
<td>566</td>
<td>Program Development in Clinical Areas (3)</td>
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</table>

Application of administrative theory in the development of a program in a selected clinical area of practice. The program will be developed on consumer need, community and agency resources and constraints; seminar and field study. Prerequisites: graduate standing, 561, 564, ADMIN 510, or permission of instructor.

### Parent and Child Nursing (PCN)

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<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>509</td>
<td>Women's Health: A Nursing Perspective (3)</td>
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<tr>
<td>512</td>
<td>Advanced Practicum in Parent and Child Nursing (2-12, max. 25)</td>
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</table>

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 individual and/or groups. CR/NC only.

### Implications of Human Embryology and Genetics for Clinical Practice (3)

Normal development of the human embryo and fetus and principles of human genetics. Alterations in development leading to common anomalies and implications for clinical practice. Prerequisite: graduate standing or permission of instructor.

### Advanced Parent and Child Nursing: Provision of Health Services (1-5, max. 8)

Focuses on the aggregate of parents and children and their health-care needs. Selected strategies suitable for providing services to groups of parents/children emphasized. Role of the clinical nurse specialist in planning, implementing, and evaluating services. Prerequisites: 530, 531.

### Physiological Nursing (PN)

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<td>Undergraduate Research (1-5, max. 12)</td>
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### Psychosocial Nursing (PSN)

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<td>499</td>
<td>Undergraduate Research (1-5, max. 12)</td>
<td>( \text{grade-point average of 3.00 or better.} )</td>
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</table>

### See the Time Schedule section, pages 73-113, for class dates and times.
C. Approaches to Aggressive and Violent Behavior (3)

J. Memory Theory and Its Implications for Nursing (3)

557 Clinical Seminar in Substance Use Disorders I (3-6)
Supervised experiences in the treatment of individuals and families with substance use-related disorders. Students, function as primary or cotherapists in application and evaluation of selected therapeutic interventions. Weekly seminars analyze client/student interaction. Prerequisite: 556. CR/NC only.

560 Clinical Seminar in Psychiatric Disabilities II: Community (3-6)
Supervised psychosocial nursing experience with clients in psychiatric treatment programs. Treatment settings such as community mental health centers, partial hospitalization, and congregate care facilities viewed as social systems. Weekly seminars provide analysis of client/student interaction. Prerequisite: 559 or permission of instructor. CR/NC only.

563 Clinical Seminar in Management of Stress Response I (3-6)
Theory and application of self-management training for dysfunctional stress responses. Demonstration/training in relaxation, biofeedback instrumentation, and supervision of self-management program conducted by students. Prerequisites: 562, human physiology course. CR/NC only.

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 so such clinical problems as abstinence in the recovering alcoholic, depression, and eating disorders. Prerequisite: graduate standing or permission of faculty.

569 Consultation in Human Service Systems (3)
Exploration of theoretical perspectives and concepts relevant to consultation in human service systems. Models for intervention evaluated. Students design consultation projects, implementation determined through negotiation with faculty and agency representatives. Prerequisites: fourth-quarter placement or faculty permission; access to consultation system.

600 Independent Study or Research (*)
700 Master's Thesis (*)

College of Ocean and Fishery Sciences

School of Marine Affairs (SMA)
3707 Brooklyn Ave. NE, HF-05
Telephone: 543-4326

499 Undergraduate Research (*) (1-3, max. 6)
Prerequisite: entry code

600 Independent Study or Research (*)
700 Master's Thesis (*)

School of Fisheries
211 Fisheries Center, WH-10
Telephone: 543-7457

School of Fisheries course are offered in:
- Fisheries
- Food Science

The School's basic course Introduction to Fisheries Science (FISH 101) provides a background to an important Northwest industry in addition to showing applications of science to a field of wide interest.

Fisheries (FISH)

101 Introduction to Fisheries Science (5)
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.

499 Internship/Experiential Learning (1-9, max. 9)
Guided on-the-job training in governmental or industrial fisheries organizations. CR/NC only.

Food Science (FD SC)

498 Undergraduate Thesis (3-5, max. 6)
600 Independent Study or Research (*)
700 Master's Thesis (*)

School of Oceanography (OCEAN)
108 Oceanography Teaching Building, WB-10
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)
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.

499 Undergraduate Research (1-12, max. 24)
Research on assigned topics, which may involve laboratory work, field work, or literature surveys. Prerequisite: entry code.

600 Independent Study or Research (*)
700 Master's Thesis (*)
800 Doctoral Dissertation (*)
School of Pharmacy

T341 Health Sciences Center, SC-69
Telephone: 543-2030

Medicinal Chemistry (MEDCH)

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<tr>
<th>Course</th>
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<td>499</td>
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<td>600</td>
<td>Independent Study or Research (*)</td>
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<td>700</td>
<td>Master's Thesis (*)</td>
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<td>800</td>
<td>Doctoral Dissertation (*)</td>
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Pharmaceutics (PCEUT)

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<td>499</td>
<td>Undergraduate Research</td>
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<tr>
<td>501</td>
<td>Advanced Pharmacokinetics I (3)</td>
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Pharmacy Practice (PHARM)

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<th>Course</th>
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<tbody>
<tr>
<td>305</td>
<td>Clinical Dispensing Pharmacy (1-3, max. 3)</td>
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<tr>
<td>470</td>
<td>Externship in Community Practice (8)</td>
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<td>471</td>
<td>Externship in Institutional Practice (4)</td>
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<tr>
<td>472</td>
<td>Advanced Externship in Pharmacy Practice (*, max. 16)</td>
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<tr>
<td>487</td>
<td>Clinical Pharmacy Clerkship (4)</td>
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<tr>
<td>488</td>
<td>Advanced Clinical Pharmacy Clerkship (1-16)</td>
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<tr>
<td>495</td>
<td>Special Studies in Pharmacy (*, max. 6)</td>
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<tr>
<td>499</td>
<td>Undergraduate Research</td>
<td>(*, max. 6)</td>
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<tr>
<td>501</td>
<td>Orientation to Pharm.D. (2)</td>
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Organizations Focuses upon the role played
School Pharmacy
Telephone: 499
Medicinal
Pharmaceuticals
800
501 Advan-
Search and
700 Master's Thesis (*)
800 Doctoral Dissertation (*)

Pharmacy

1 introduction to the use of computer systems available
to students in the department. Prerequisite:
first-year Doctor of Pharmacy degree student sta-
tus. CR/NC only.

587 Advanced Inpatient Clerkship (*, max. 15)
Under faculty supervision, students participate in
medical and pharmacy patient rounds in hospitals
or long-term care facilities, monitor drug therapy,
instruct patients concerning proper use of medi-
cations, and provide drug consultation to other
health care providers. Prerequisites: 484 and 485,
or equivalent, and entry code. CR/NC only.

600 Independent Study or Research (*)

Graduate School of Public Affairs

208 Parrington Hall, DC-13
Telephone: 543-4900

Public Affairs (PB AF)

504 Administrative Ethics (3)
Moral dilemmas that confront public managers.
Critical view of societal and political values that
prescribe moral behavior. Organizational and pro-
fessional ethics. Ethical problems of public organi-
ization managers. Systematic means for under-
standing, analyzing, and coping with moral issues
that arise in a public service career.

511 Management of Not-for-Profit Organizations (3)
Focuses upon the role played by not-for-profit or-
ganizations in meeting the public good. Course
examines internal management issues such as
structure, budget, and operations; and external
issues such as board functions, legal status, mar-
keting, media relations, and fund-raising.

595A Topics in Environmental Policy and Management (3)
Examines topics of public importance in envi-
ronmental policy and management. Integrates the
political, managerial and economic dimensions of
these issues. Summer session focuses upon ben-
efit-cost analysis and the environment. Course
examines a series of case studies of benefit-cost
analyses and other studies of environmental prob-
lems. Emphasis on understanding the differences
between sophisticated and unsophisticated stud-
ies and on appreciating the strengths and limita-
tions of benefit-cost analysis when applied to en-
vironmental problems. Prerequisite: at least one
course in microeconomics is preferred.

See the Time Schedule section, pages 73-113, for class dates and times.
Overview of media relations techniques from the perspective of public officials and employees. Seminar is divided into three basic parts: how print and electronic media work; how public officials can best use the media to communicate messages to the general public; and how to respond effectively to media relations problems. Course is taught by a media relations consultant, who is also a veteran newspaper reporter. CR/NC only.

A. Labor Relations in the Public Sector (3)

Covers the right to join and form unions, the establishment of the collective bargaining unit, the obligation and duty to bargain, the scope of bargaining, union security, the right to strike and alternative dispute resolution mechanisms, enforcement of collective bargaining agreements, and political and civil rights of government employees. Taught with LAW 455/555.

B. Comparative Law: Europe, Latin America, and East Asia (3)

An introduction to the principal legal traditions in Europe, Latin America, and Asia with particular emphasis on the basic institutional features of civil law systems. The course covers the historical development of the civil law tradition and its reception in non-western societies, as well as the basic institutional contrasts between civil and common law jurisdictions and among civil law jurisdictions. Students will also have the opportunity to select a particular country of interest and examine in greater detail the basic feature of its legal system. Taught with LAW 459/659.

C. Employment Law (3)

A study of the law governing the employment relationship, including the establishment and termination of that relationship. Specific topics studied include employee access to job opportunities, employer information gathering (including testing), prohibited discriminatory employment practices, regulation of wages, hours, and benefits of employment, occupational safety and health, the developing concept of unjust discharge, and regulations providing protection of retirement benefits. Taught with LAW 462/A622.

School of Public Health and Community Medicine

Special six-week sessions are offered in courses with contents from the fields of biostatistics, epidemiology, and health services. The sessions are designed primarily for Master of Public Health students or other persons 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 and provides knowledge and skills required at mid- and upper-level practice and management positions for health professionals. 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, SC-32
Telephone: 543-1044

511 Medical Biometry I (4)
July 1-August 9 Presentation of the principles and methods of data description and elementary parametric and nonparametric statistical analysis. Examples are drawn from biomedial literature, and real data sets are analyzed by the students after a brief introduction to the use of standard statistical computer programs (e.g., SPSS, BMDP, 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)
Joint with STAT 578A. Prerequisite: entry code. CR/NC only.

A. Spatial Statistics (3)

B. Spatial Statistics Seminars (1)
Joint with STAT 578B. Prerequisite: entry code. CR/NC only.

590 Special Topics in Advanced Biostatistics (*)
Training in consulting on the biostatistical aspects of research problems arising in the biomedical field. Prerequisite: entry code. CR/NC only.

599A Special Topics (2-6, max. 6)

A Labor Relations in the Public Sector (3)

B. Comparative Law: Europe, Latin America, and East Asia (3)

C. Employment Law (3)

A study of the law governing the employment relationship, including the establishment and termination of that relationship. Specific topics studied include employee access to job opportunities, employer information gathering (including testing), prohibited discriminatory employment practices, regulation of wages, hours, and benefits of employment, occupational safety and health, the developing concept of unjust discharge, and regulations providing protection of retirement benefits. Taught with LAW 462/A622.

500 Independent Study or Research (*)

505 Degree Project (1-6)

Environmental Health (ENVH)

F461 Health Sciences Center, SC-34
Telephone: 543-3199

480 Environmental Health Problems (*, max. 6)
Individual projects involving library, laboratory, or field study of a specific environmental health problem. Prerequisite: environmental health major.

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. Prerequisites: environmental health major and permission of department advisor. CR/NC only.

499 Undergraduate Research (*)
Prerequisites: environmental health major; entry code.

512 Hazardous Waste Disposal (3)
Generation, collection, transportation, and ultimate disposal of hazardous waste on land. In-depth engineering and cost aspects of alternatives. Health and engineering implications of TSCA, RCRA, CWA, and CERCLA.

532 Reproduction and Developmental Toxicology (2)
July 23-August 21 Discussion topics include identification and characterization of specific classes of toxic agents, mechanisms of action of these agents at the molecular and cellular level and risk assessment and regulatory issues. Prerequisite: ENVH 514 or permission.

572 Clinical Occupational Medicine (3)
Comprehensive overview of clinical occupational medicine. Introduction to principles of occupational disease, occupational history taking, and physician involvement in workers' compensation. Approaches to diagnosis and management of occupational diseases based on organ systems. Prerequisites: possession of an M.D. degree or equivalent or permission of instructor.
School of Public Health and Community Medicine

590 Selected Topics (1-6)

A. Topic to be arranged

In-depth study of a current environmental health topic. Prerequisite: entry code, CR/NC only.

B. Applied Informatics in Environmental Health (2)

Creation, management, distribution, and use of information and knowledge, using computer and telecommunication technology. Provides general understanding of applied information in environmental health with emphasis on assessment of potential for application in workplace.

595 Research Rotations (3-9)

For pre-doctoral graduate students. Introduction to current methods in laboratory research and familiarization with specific faculty research interests. Prerequisite: graduate standing and permission, and entry code.

599 Field Studies (2-6; max. 6)

Assignment to an environmental research or service program for application of evaluation techniques. Prerequisite: entry code. CR/NC only.

600 Independent Study or Research (*)

600 Independent Study or Research (*)

700 Master’s Thesis (*)

800 Doctoral Dissertation (*)

Epidemiology (EPI)

F2638 Health Sciences Center, SC-36
Telephone: 685-1762

499 Undergraduate Research (*)

Prerequisite: entry code. CR/NC only.

522 Applications of Vital and Health Statistics (3)

July 6-August 14 Analysis of routinely collected data on the health status and the care of populations, with emphasis on the potential and the limitations of this approach. The importance of such data for the development and the evaluation of programs and the recognition of new hazards. Joint with BI052. Prerequisites: 512 and 513, or equivalent, or permission of instructor, and entry code.

525 Topics in Preventive Medicine (2)

July 6-August 14 Examines current scientific knowledge and state of the art in preventive medicine interventions. Discuss and consider options for current practice. Joint with HSERV 505. Prerequisite: M.D., O.D. or permission. CR/NC only.

529 Scientific Basis for Collective Action in Disease Prevention (2)

July 6-August 14 Seminar series involving preliminary reading on contemporary problems of community action in support of the public health. Topics include aspects of standard setting, prophylactic activity, control of injury, and international action, such as that to protect the ozone layer. Prerequisites: 512 and 513 or permission of instructor, and entry code. CR/NC only.

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. Joint with HSERV 531.

542 Clinical Epidemiology (2)

July 6-August 14 Principles and methods involved in studying the outcome of illness.

590 Selected Topics in Epidemiology or International Health (1-6, max. 6)

593 Cancer Prevention Lab (3)

600 Independent Study or Research (*)

Prerequisites: permission of departmental adviser, and entry code. CR/NC only.

700 Master’s Thesis (*)

800 Doctoral Dissertation (*)

Health Services (HSERV)

F346 Health Sciences Center, SC-37
Telephone: 543-8866

475 Perspectives in Medical Anthropology (5)

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, biomedically oriented approach to sickness, medicine and health. Joint with ANTH 475.

505 Topics in Preventive Medicine (2)

July 6-August 14 Examine current scientific knowledge and state of the art of preventive medicine interventions. Discuss and consider options for current practice. Joint with EPI 525. Prerequisites: M.D., O.D. or permission. CR/NC only.

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. Joint with EPI 531.

532 Planning and Financing Health Services: International Perspectives (3)

Survey of major issues affecting planning and financing of health services. Major focus is on developing countries. A historical perspective on social and economic factors in the development of primary health care, health service infrastructures, health manpower development, pharmaceuticals, and financing health care, and related overall changes in health status.

590 Selected Topics in Health Services (*)

Topics to be arranged. Prerequisite: entry code.

592 Program Seminars (1-6, max. 6)

Topics to be arranged.

597 International Health Projects (6)

CR/NC only.

600 Independent Study or Research (*)

700 Master’s Thesis (*)

Pathobiology (PABIO)

F161 Health Sciences Center, SC-38
Telephone: 543-1045

498 Undergraduate Thesis (*)

Prerequisite: entry code. CR/NC only.

499 Undergraduate Research (*)

Prerequisite: entry code.

511 Pathobiological Frontiers (2)

Molecular and immunological concepts of infectious and non-infectious diseases presented in format suitable for graduate students knowledgeable in health-related areas who are not in biology-oriented programs. Allergy, immune responses, nature of infectious agents, prevention of disease with emphasis on newly defined diseases and disease agents. Prerequisite: permission of instructor, entry code. CR/NC only.

583 Seminar on Frontier Membrane Research (1, max. 15)

Research seminar on structure and function of cell surface membranes presented for postdoctoral fellows and graduate students.

► See the Time Schedule section, pages 73-113, for class dates and times.
School of Social Work

For evening students. Inquiries should be addressed to Social Work Continuing Education, 4101 15th Ave. NE, JH-30, Seattle WA 98195; or call 543-5755.

Social Work (SOC W)

409 Readings in Social Welfare (1-5, max. 15)
Prerequisite: entry code.

415 Beginning Field Instruction (4-6, max. 12)
Prerequisites: major standing and entry code. CR/NC only.

508 Integrative Seminar (1-3, max. 12)
For evening part-time students. CR/NC only.

509 Readings in Social Work (*)
May be repeated for credit. CR/NC only.

515 First Field Practicum (1-8, max. 12)
CR/NC only.

533 Second Field Practicum (2-10, max. 24)
Prerequisites: 515 and entry code. CR/NC only.

591-592 Individual or Group Research Project (3-3)
Prerequisites: 590 or equivalent, and entry code.

600 Independent Study or Research (*)

700 Master's Thesis (*)

Social Welfare (SOCWL)

582-583 Research Practicum (1-3, max. 3)•(1-3, max. 3)
Development of specific methodological skills in social welfare research through participation in an ongoing research project. Prerequisite: entry code. CR/NC only.

600 Independent Study or Research (*)

700 Master's Thesis (*)

Foreign Study Office

516 Schmitz Hall, PA-10
Telephone: 543-9272

Some foreign study programs offered through the University of Washington provide options for a single quarter or for a combination of quarters, while others provide opportunities to complete a full year of study abroad. Programs are reviewed by University faculty and correlated with regular departmental curricula. University credit is granted and financial aid may be applied to the cost of most programs. Courses listed in this section include those for summer study.

The University of Washington Office of International Programs and Exchanges, at the address above, Seattle, WA 98195, provides information about study at foreign institutions and foreign study programs sponsored by the University of Washington, and those sponsored by other American colleges and universities.

For foreign study programs available through the College of Architecture and Urban Planning, consult the listings under that College.

Chinese Language Program, Beijing

June 5-Aug. 21 (approximate dates)

In conjunction with the Council on International Educational Exchange, an eight-week intensive program in written and spoken Mandarin Chinese is offered to students who have completed a minimum of two years college-level Chinese. Courses in Chinese and special lectures on various topics are taught by Peking University faculty.

Approximate cost is $3,200 including tuition, room, board, field trips, and UW concurrent enrollment charge. Information and applications are available from the Office of International Programs and Exchanges. Application deadline is Feb. 23.

Chinese (CHIN)

344 Intensive Chinese in Beijing (15)

International Summer School, University of Oslo

June 24-Aug. 4 (approximate dates)

The University of Washington, in cooperation with the International Summer School of the University of Oslo, offers a six-week program featuring courses in the humanities, social sciences, health care, special education and peace research, as well as Norwegian language and literature. Instruction is in English.

Students should have completed their sophomore year prior to application and should be in good academic standing. University of Washington students may earn resident credit through concurrent enrollment.

Denmark International Study Program

May 24-Aug. 22 (approximate dates)

The University of Washington, in affiliation with the Denmark International Study Program, offers an Architecture and Design Program in Copenhagen. Students may enroll for an entire academic year or for the summer session only.

The program combines studio work and lecture courses with field studies and study tours. The Design Studio work in the summer program offers instruction in architecture design, urban design/landscape design, interior/environmental design, industrial design, and advertising/communications design. The program is developed for students majoring in architecture or design studies.

Program cost for summer 1991 is approximately $4,500, excluding the cost of transatlantic transportation. Contact the Office of International Programs and Exchanges for information and applications.

El Colegio, Mexico City

Mid-June to end of July

Graduate and advanced undergraduate students who are proficient in Spanish and majors in the social sciences are eligible for the exchange.

Approximate cost is $1,500. Includes tuition, room and board. Students are responsible for locating their own housing. Scholarships are available for undergraduates. Courses are offered in Mexican history, politics, economics, and US-Mexico relations. Instruction is usually in Spanish. Information and applications are available from the Office of International Programs and Exchanges. Application deadline is April 1.

International Summer School, University of Oslo

June 24-Aug. 4 (approximate dates)

The University of Washington, in cooperation with the International Summer School of the University of Oslo, offers a six-week program featuring courses in the humanities, social sciences, health care, special education and peace research, as well as Norwegian language and literature. Instruction is in English.

Students should have completed their sophomore year prior to application and should be in good academic standing. University of Washington students may earn resident credit through concurrent enrollment.

590 Selected Topics (1-6, max. 6)
In-depth study of disease agents and host response, usually related to a current problem, and focusing on characteristics of the disease agent. Seminar format. Small groups of students by arrangement with faculty member. Prerequisite: entry code. CR/NC only.

600 Independent Study or Research (*)

700 Master's Thesis (*)

800 Doctoral Dissertation (*)

Social Welfare (SOCWL)

582-583 Research Practicum (1-3, max. 3)•(1-3, max. 3)
Development of specific methodological skills in social welfare research through participation in an ongoing research project. Prerequisite: entry code. CR/NC only.

600 Independent Study or Research (*)

700 Master's Thesis (*)

800 Doctoral Dissertation (*)

Foreign Study Office

516 Schmitz Hall, PA-10
Telephone: 543-9272

Some foreign study programs offered through the University of Washington provide options for a single quarter or for a combination of quarters, while others provide opportunities to complete a full year of study abroad. Programs are reviewed by University faculty and correlated with regular departmental curricula. University credit is granted and financial aid may be applied to the cost of most programs. Courses listed in this section include those for summer study.

The University of Washington Office of International Programs and Exchanges, at the address above, Seattle, WA 98195, provides information about study at foreign institutions and foreign study programs sponsored by the University of Washington, and those sponsored by other American colleges and universities.

For foreign study programs available through the College of Architecture and Urban Planning, consult the listings under that College.

Chinese Language Program, Beijing

June 5-Aug. 21 (approximate dates)

In conjunction with the Council on International Educational Exchange, an eight-week intensive program in written and spoken Mandarin Chinese is offered to students who have completed a minimum of two years college-level Chinese. Courses in Chinese and special lectures on various topics are taught by Peking University faculty.

Approximate cost is $3,200 including tuition, room, board, field trips, and UW concurrent enrollment charge. Information and applications are available from the Office of International Programs and Exchanges. Application deadline is Feb. 23.

Chinese (CHIN)

344 Intensive Chinese in Beijing (15)
The program fee is approximately $2,500, which includes tuition, room, board, and incidental expenses. There are additional fees for required excursions in some courses; a detailed listing is available from the Office of International Programs and Exchanges. The deadline for application for admission and for financial aid is March 1.

**Russian Language Program, Leningrad**

June 14-Aug. 15 (approximate dates)

The CIEE offers a 12-credit summer language study program in the Soviet Union in cooperation with the Department of Slavic Languages and Literature. The program includes six weeks of intensive Russian language study at Leningrad State University followed by an 11-day field trip to Kishinev, Tbilisi, and Moscow.

Students with a minimum of two years of college Russian or the equivalent are eligible. Applicants accepted as candidates must take written language tests prior to the final selection.

The cost of the program is $3,500, which includes the post-Leningrad field trip; orientation and evaluation sessions in Helsinki; transportation between Helsinki and the U.S.S.R.; tuition, room, board, and all program-related expenses in the U.S.S.R.; and health and accident insurance. Transatlantic transportation, personal expenses, and expenses incurred during independent travel outside the U.S.S.R. are not included.

Information and applications are available in the Office of International Programs and Exchanges. Application deadline is Feb. 7, and selection is made in late February or beginning of March. Financial aid is available to qualified students.

**Russian (RUSS)**

381 Phonetics in Leningrad (2, max. 6)
382 Advanced Syntax and Composition in Leningrad (2, max. 6)
383 Conversation in Leningrad (4, max. 12)
384 Soviet Culture in Leningrad (4, max. 12)

**Hebrew University of Jerusalem**

July 5-26, Aug. 2-24 (approximate dates)

Month-long courses of study in Hebrew and Arabic language, politics of the Middle East, history, archaeology and international relations. Courses taught in English by faculty of Hebrew University in Jerusalem through the Rothberg School for Overseas Students. Tuition paid on a per course basis. Applications, available in the Office of International Programs and Exchanges, are due May 15.

**Japanese Business and Society Program, Tokyo**

June 12-Aug. 7 (approximate dates)

This program is an introduction to Japanese business and society in courses taught in English by Japanese and foreign faculty. Company visits, close interaction with Japanese professionals, and residence with Japanese families give participants the opportunity to examine Japanese business and economics in their political and socio-cultural context. Courses are offered in Japanese business and society as well as Japanese language at all levels.

Students who have completed their junior year and basic business coursework are eligible to apply. Approximate cost is $5,000, including tuition, housing, some meals, excursions, health insurance, and local transportation. Application deadline is March 1.

**International Business (I BUS)**

440 Business in Japan (4)

**Foreign Student Studies Center, University of Guadalajara**

June 19-July 21, July 24-Aug. 25, Aug. 28-Sept. 29 (approximate dates)

The University of Guadalajara offers courses in Spanish language and Latin American culture to foreign students throughout the year. Language courses are offered for beginning and intermediate students, and culture courses are taught in Spanish. Students live with a Mexican host family.

University of Washington students may take courses at the Foreign Student Studies Center for UW credit. Four quarter credits are granted for each five-week Spanish course. Approximate cost is $1,700 for a 10-week term, including tuition, room, board, and UW concurrent enrollment fee.

Information and applications are available from the Office of International Programs and Exchanges; application deadline is June 1.

**Evening Degree Program**

Evening Degree Programs designed for students who cannot attend day classes are available at the University of Washington in Seattle and at UW branch campuses in Bothell and Tacoma. Students who wish to complete their bachelor's degree can earn a B.A. in general or liberal studies through these multidisciplinary programs, which consist of junior- and senior-level courses. The Summer Quarter evening degree classes described on this page are offered in Seattle. Please see pages 70-71 for Summer Quarter evening degree classes at the branch campuses. Evening degree students have priority in registering for these classes. Other individuals can register for these classes beginning June 22, 1992. Continuing UW students enrolled for Spring Quarter 1992 in Seattle or at either UW branch campus do not need to apply for Summer Quarter. Use the Summer Quarter Time Schedule and register by STAR the same way as for any quarter. For a brochure and application about the Evening Degree Program in Seattle, call (206) 543-2320. Please call UW Bothell at (206) 488-5300 or UW Tacoma at (206) 552-4400 for information about the Evening Degree Programs at the branch campuses.

**Anthropology (ANTH)**

301 Human Nature and Culture (3) D

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.

427 Anthropology in Urban Settings (3)

Cross-cultural examination of theoretical issues in anthropology as studied in urban places. Focuses on ethnic identity and the formation of urban ethnic groups; migration and its rural and urban consequences; family and kinship organization as an adaptation to urban complexity; the nature of urban voluntary associations; law and politics; and the developments in anthropological method. Prerequisite: 202 or permission of instructor.

**Art History (ART H)**

201 Survey of Western Art—Ancient (5) D

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.

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See the Time Schedule section, pages 73-113, for class dates and times.
232 Photography: Theory and Criticism (3)
Art traditions of photography from its origins in the nineteenth century to the present. Emphasis on photographic traditions and photographers of the twentieth century.

English (ENGL)
346 Critical Practice (5) D
Exercise in interpretive practices; a consideration of their powers and limits. Survey of the varieties of critical and interpretive practice from the earliest interpreters of scripture and myth to present-day critics.

353 American Literature: Later 19th Century (5) D
Literary responses to an America propelled forward by accelerating and complex forces. Works by Twain, James and other writers such as Whitman, Dickinson, Adams, Wharton, Howells, Crane, Dreiser, DuBois, and Chopin.

Geography (GEOG)
303 Nature and Culture (5)
Introduces the main theses of man's relationship to nature as expressed in Western and Asian geographic thought; emphasizing the sources of man-environmental dualism and dialectic leading to contemporary ecological discussion in geography. Serves as an introduction to the history of geographic thought. Prerequisites: 100, 205, or permission of instructor.

History (HST)
312 Science in Civilization: Science in Modern Society (5)
Growth of modern science since the Renaissance, emphasizing the scientific revolution of the seventeenth century, the development of methodology, and the emergence of new fields of interest and new modes of thought.

Political Science (POL 5)
313 Women in Politics (5)
Political theory, historical and contemporary, including writings of the women's liberation movement on the political role of women in society. Empirical studies of the "apolitical" woman, and on the process of political socialization in various cultural contexts. Joint with WOMEN 313. Prerequisite: WOMEN 200 or political science course.

452 Political Processes and Public Opinion in the United States (5)
The foundations and environment of opinion; organization and implementation of opinion in controlling government and public opinion as a force in the development of public policy; public relations activities of government agencies.

Sociology (SOC)
457 Sociology of Religion (5)
The relations between religion, polity, economy, and social structure; in particular, the political, economic and social impact of religious beliefs and organizations, as well as the social determination of these beliefs and organizations; the rise of secularism, the rationalization of modern life, and the emergence of political quasi-religions.

Women Studies (WOMEN)
357 Psychobiology of Women (5) D
Physiological and psychological aspects of women's lives: determinants of biological sex; physiological and psychological events of puberty, menstruation, and menopause; sexuality; pregnancy, childbirth; the role of culture in determining the psychological response to the physiological events. Joint with PSYCH 357. Not open for credit to students who have taken GIS 357. Prerequisite: 200 or 257 or PSYCH 101 or 102 or 257.

D Fulfills UW College of Arts and Sciences distribution requirement. P Fulfills UW College of Arts and Sciences proficiency requirement.
* a term: June 22-July 22   A b term: July 23-Aug. 21   No symbol: full term June 22-Aug. 21
Courses listed are subject to revision.
**Summer Offerings at the UW Branch Campuses**

<table>
<thead>
<tr>
<th>Bothell Branch Campus Courses</th>
<th>Liberal Studies Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>BLS 303 Analyzing Economic Performance: Growth and Stability in U.S. and World Markets (5)</td>
<td>An examination of inflation, unemployment, and economic development. U.S. and international case studies are used to investigate the factors underlying macroeconomic problems and the policies used to combat them.</td>
</tr>
<tr>
<td>BLS 311 Creative Writing: Poetry/Prose (5)</td>
<td>Students examine and consider elements of poetic and prose writing, such as person/s, narrative, plot development, setting, character, point of view, and voice. Course offers opportunities to develop an aesthetic vision through writing, constructive editing, revisions and presentation of work to class peers.</td>
</tr>
<tr>
<td>BLSIN 328 Contemporary European Politics (5)</td>
<td>The historical context and social and economic transformations of post-war Europe are explored in order to compare current political processes and policy issues within and between selected European countries. Continuing differences and growing similarities in political cultures, as well as possible futures for European politics and society are analyzed.</td>
</tr>
<tr>
<td>BLSUS 335 Human Rights in America (5)</td>
<td>Study of the literature of civil liberties, civil rights, and human rights in the United States. Examines the way writers try to justify specific rights and communicate the need for social change in American society.</td>
</tr>
<tr>
<td>BLSUS 335 Modern European Intellectual History (5)</td>
<td>Study of key figures and intellectual debates of Western modernity, and of major literacy movements (romanticism, realism, modernism). Analysis of seminal texts such as Rousseau’s Discourse on Inequality, Flaubert’s Madame Bovary, Nietzsche’s Genealogy of Morals, and Woolf’s To The Lighthouse.</td>
</tr>
<tr>
<td>BLSUS 377 American Nuclear Anxieties in Films (5)</td>
<td>Nuclear weapons not only threaten physical destruction, but they also undermine a people’s sense of righteousness. For instance, the notion that America equals virtue is thrown off by nuclear weapons, for how could America build a bad machine? Examines films which index anxieties related to both physical and cultural insecurities as a result of nuclear weapons.</td>
</tr>
<tr>
<td>BLSIN 390 Shakespeare and the Idea of Tragedy (5)</td>
<td>An examination of Shakespeare’s tragedies in historical and cultural context. Attention will focus on the development of the tragic in the western tradition and on contemporary revaluations of those ideas. Previous literature classes or an introduction to Shakespeare are strongly recommended as preparation for this class.</td>
</tr>
</tbody>
</table>

**BLSUS 391 Special Topics: Contemporary American Poetry (5)**
Designed to introduce students to the rich world of contemporary American poetry. Students read poems from several major poets and become familiar with a wide range of "voices." Students also write papers, attend a poetry reading, and present a report on a contemporary poet.

**BLSUS 443 Special Topics in Labor, Manpower, and Education: History of U.S. Labor Institutions (5)**
Free markets and capitalism go hand in hand. Yes? Then, we can buy and sell human beings? No. What seems simple is not. To understand capitalism and labor markets one has to understand the institutions involved. Among others, these include the law, labor unions, schools, families, and welfare. What seems complicated is, in fact, fascinating.

**BLSUS 487 Topics in American Literature: Vietnam War in Literature (5)**
Students read selections from nonfiction, fiction, and poetry that address the American experience in Vietnam. Students are exposed to a range of reactions to the war, including the domestic antiwar movement, the combat experience, and reportage of the war. In addition to readings, several films will be viewed.

**BLS 495 Internship (1-5)**
Students are placed in selected companies and organizations and accept assignments which broaden their experience in the chosen field. Students function under the supervision of competent on-site personnel and the faculty. (Permission of instructor required.)

**College of Education Courses**

| EDC&I 317+ Art Methods for the Classroom (3) | Provides the general elementary school teacher with a theoretical and practical background for teaching art to children. |
| EDC&I 485+ Workshop in Instructional Improvement: Educational Communication and Technology, Visual Literacy (3) | Individual or group study projects on the improvement of instruction through the use of educational communication and technology. |
| EDC&I 495+ Workshop in Improvement of Teaching: Introduction to Multicultural Education (3) | Designed primarily for educators who have had little or no experience with multicultural education. Students examine the goals and key concepts in multicultural education and analyze the ways in which race, class, and gender intersect and influence educational research and practice. They also examine their personal experiences and attitudes toward issues related to race, class, and gender. |
| EDLP 496A Workshop: Dropout Prevention Strategies for Classroom Teachers (3) | Focuses on promising current and emerging roles for classroom teachers in dropout prevention. Strategies to be examined include interprofessional case management, accelerated learning, a variety of mentoring approaches, family involvement and parenting, and family support. |
Liberal Studies Courses

**TLSIN 381 Arts and Cultures of South Asia (5)**
A study of the diverse cultural orders presented by the architectural and visual images produced in India and neighboring countries. Topics include the nature and role of images and buildings in the constitution of South Asian concepts of nature, reality, social organization, foreign relations, personal identity, aesthetics, and ethics.

**TLSIN 416A Modern Korea (5)**
Long closed to the West, Korea was known as the Hermit Kingdom. Traces Korea’s troubled transition from a traditional East Asian state with tributary relations with China to a modern nation emerging on the world economic scene. Because of its geographical location between China, Japan, and the Soviet Union, Korea has suffered chaotic change in the modern period including Japanese colonial rule, division into two hostile states, and the Korean War. Topics also include Korean society and culture.

**TLSIN 425 Contemporary Issues in International Political Economy (5)**
As the 20th century draws to a close pressing issues confronting both industrialized and underdeveloped societies are addressed. Topics and theme will vary and may include one or more of the following: the international debt crisis, the changing international division of labor, poverty and inequality in the world economy, liberation movements, internationalization of production and regional disruptions in the U.S., and the crisis of capitalism.

**TLSIN 450 Contemporary Theories of Culture (5)**
Recent anthropological theory and contemporary cultural theory. The course will be organized either around trends in cultural theory such as structuralism and semiotics, British cultural studies, critical theory; and post-modernism; or topically, such as ideology, culture, and cultural resistance; ethnocentrism, relativism; class and culture; the social body; self and other; gender and sexuality. May be repeated for credit with instructor’s approval.

**TLS 453+ Health, Illness, and Culture (5)**
Explores meanings of health and illness in contemporary American culture. Students also consider historical, cross-cultural, and literary examples. Conversely, health, illness, and therapeutic and preventative practices provide crucial insights into aspects of American culture and society.

**TLSUS 485 Media Genres—Film and Comedy Across Cultures (5)**
Study of film comedy in a cross-cultural context. Explores the highly complex task of accounting for humor—what different social groups find funny and why. Students view eight to ten films from cultures within the U.S. and elsewhere in connection with the provocative readings in cultural theory and film studies.

**TLSIN 490C+ Special Topics: Canada—The People and the Land (5)**
Examines the distinctiveness of Canada’s regions and determines their role in contributing to the current stalemate over the political future of the country. Particular attention is given to the role of historical, geographical, cultural, and economic factors in maintaining separate regional identities.

Some of the topics to be covered include: immigration with Canada, regional development issues, the future of Quebec within Canada, and the Canadian national identity. Students read material from a variety of disciplines including geography, sociology, political science, and anthropology.

**TLSIN 490M+ Special Topics: The Gorbachev Era (3)**
An examination of the changes that took place in the Soviet Union between the time Mikhail Gorbachev came to power in 1985 and the collapse of the country in the summer of 1991. The course looks at social, economic, political, and cultural developments during the Gorbachev era, and considers how the changes introduced by Gorbachev led to the revolutionary event which followed the attempted coup of last August.

**TLSIN/TLSUS 490QA+ Special Topics: Quantitative Methods in the Social Sciences (5)**
Focuses on the methods of systematic social science research. A term project is the centerpiece around which the student learns to integrate elements of social science theory, research design, data collection, statistical analysis, and the use of computers. The student chooses the research topic, writes a formal research design, executes the design, writes a research paper based on the results, and presents the research.

**TLSIN 490X+ Special Topics: Literature into Film (5)**
Explores the adaptation of short fiction, drama, poetry, and the novel in film. Students compare the aesthetics of literature and film as art forms through out-of-class readings and in-class screenings.

College of Education Courses

**EDC&I 495A Workshop in Improvement of Teaching: Teacher Evaluation (3)**
Examines the trends in teacher evaluation, including the trend toward the development of a national examination for teachers. Participants learn about a variety of teacher evaluation models.

**EDIPS 496A Workshop: Dropout Prevention Strategies for Classroom Teachers (3)**
Focuses on promising current and emerging roles for classroom teachers in dropout prevention. Strategies to be examined include interprofessional case management, accelerated learning, a variety of mentoring approaches, family involvement and parenting, and family support.

**EDPSE 496 Workshop in Special Education: Behavior Problems in the Classroom (3)**
July 23-August 5 Examines mainstreaming alternatives to punishment, teaching social skills, and communicating effectively with parents. Emphasis on methods to be taken back to the classroom.

It’s easy to apply and register

To apply for summer-only admission at either branch campus or in Seattle, 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 courses meeting June 22-July 30, be sure to read Special-date courses, page 125.

If you wish to apply for matriculated status at either branch campus, call Bothell at 488-5300 or 1-800-736-6650, or Tacoma at 852-4400 or 1-800-736-7750.
Time Schedule

Abbreviations and symbols used to indicate course requirements

Sample of a time schedule listing

Courses may have been added or deleted after the course description section was finalized for this bulletin. To verify the availability of a course, please check the following time schedule or contact the academic department offering the course. Department phone numbers and course descriptions are included in the course listing section, pages 8-69. For information about STAR registration, see How to Use STAR Telephone Registration, pages 126-127.

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 required to enroll.

EC (Building and room number)
The entry code can be obtained in the indicated building and room. See pages 140-141 for list of building abbreviations and a campus map.

CR/NC ONLY
Grades assigned only as credit or no credit. See page 130 for more grade information.

ARR
Days and times to be arranged.

I, II, III
Registration period for which the indicated restriction applies. If no period is indicated, the restriction applies to all registration periods. See page 124 for registration period dates.

MJ ONLY
Open only to students formally admitted in indicated major.

W/ (Department and course number)
Offered jointly with indicated course. Classes meet in the same room at the same time—students register and receive credit for one course only.

Special program codes
(H) = Honors
(W) = Fulfills UW writing course requirement
(B) = Both honors and UW writing requirement course
(%) = New course

Comment and registration restrictions
EC = Entry codes
MJ = Major only
DC = Drop codes
GR = Graduate students
I = Period I
5 = 5th year students
II = Period II
SR = Seniors
III = Period III
JR = Juniors
PERM = Permission
SO = Sophomores
INSTR = Instructor
FR = Freshmen
* = To be arranged

Sample of a time schedule listing

<table>
<thead>
<tr>
<th>Department</th>
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<th>Course title</th>
<th>Days and time</th>
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<td></td>
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<td>Open only to majors during period I and II</td>
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Also see pages 8-69, for course descriptions.

See pages 126-127, for instructions on how to register by phone using STAR.
### DEPT COURSE CRN TITLE CRN ngày TIME ROOM INSTR

#### COLLEGE OF ARCHITECTURE & URBAN PLAN

**PREPROFESSIONAL**

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### ARCHITECTURE

**ENTRY CODES AVAILABLE IN OLD 208**

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<td>ARCH</td>
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<td>1190</td>
<td>2</td>
<td>Intro Arch Photo</td>
<td>1190</td>
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<td>1200</td>
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<td>Intro Arch Drawing</td>
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### BUILDING CONSTRUCTION

**ENTRY CODES AVAILABLE IN OLD 116**

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### LANDSCAPE ARCHITECTURE

**ENTRY CODES AVAILABLE IN OLD 348**

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### COLLEGE OF ARTS AND SCIENCES

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See pages 6-69 for course descriptions. See page 72 on how to read time schedule. W Fullfill UW writing course requirement. H Honors. B Writing course and honors. %--New course. >-Enrollment in this section is limited, and students must obtain entry codes.
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For course descriptions and additional information, please refer to the provided schedule or contact the university's academic office.
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**Summer Quarter Time Schedule**

See pages 8-69 for course descriptions. See page 72 on how to read time schedule. W Fulfill UW writing course requirement | H Honors | B Writing course and honors | % — New course | — Enrollment in this section is limited, and students must obtain entry codes. | 77
## CHEMISTRY (cont.)

| DEPT | SECTION | CRN | TITLE | DAY | TIME | INSTR | COURSE SPEC | CODE | TITLE | DAY | TIME | INSTR | COURSE SPEC | CODE | TITLE | DAY | TIME | INSTR | COURSE SPEC | CODE | TITLE | DAY | TIME | INSTR | COURSE SPEC | CODE | TITLE | DAY | TIME | INSTR | COURSE SPEC | CODE |
|------|---------|-----|-------|-----|------|-------|-----------|-------|-------|-----|------|-------|-----------|-------|-------|-----|------|-------|-----------|-------|-------|-----|------|-------|-----------|-------|-------|-----|------|-------|-----------|-------|-------|-----|------|-------|-----------|-------|
| CHEM | 321 | 1408 A | 5 | QUANTITATIVE ANALYSIS | MW | 8:00-9:30 | BNS 117 | TTH | 9:00-10:30 | BAG 191 | F | 8:00-9:30 | BNS 117 | EC/DC | | | | |
| CHEM | 321 | 1409 A | 5 | | MW | 8:00-9:30 | BNS 117 | TTH | 9:00-10:30 | BAG 191 | F | 8:00-9:30 | BNS 117 | EC/DC | | | | |
| CHEM | 321 | 1409 B | 5 | UNDERSTAND RESEARCH | VAR | AIR | CHIVC ONLY | EC BAG 190C | | | | | | | | | | | | | | | | | | | | | | | | |
| CHEM | 45E | 1412 A | 3 | PHYSICAL CHEMISTRY | MF | 9:00-10:30 | BNS 115 | | | | | | | | | | | | | | | | | | | | | | | | |
| CHEM | 45E | 1412 A | 3 | PHYSICAL CHEMISTRY | MF | 10:00-11:30 | BNS 115 | | | | | | | | | | | | | | | | | | | | | | | | |
| CHEM | 45E | 1412 A | 3 | | MF | 10:00-11:30 | BNS 115 | | | | | | | | | | | | | | | | | | | | | | | | |
| CHEM | 3X0 | 1412 A | 1 | SKIN GENERAL CHEM | AIR | AIR | CHIVC ONLY | | | | | | | | | | | | | | | | | | | | | | | | |
| CHEM | 591 | 1413 A | 1 | DEFORM ORGANIC CHEM | AIR | AIR | CHIVC ONLY | | | | | | | | | | | | | | | | | | | | | | | | |
| CHEM | 591 | 1413 A | 1 | DEFORM ORGANIC CHEM | AIR | AIR | CHIVC ONLY | | | | | | | | | | | | | | | | | | | | | | | | |
| CHEM | 595 | 1420 A | 1 | SKIN PHYSICAL CHEM | AIR | AIR | CHIVC ONLY | | | | | | | | | | | | | | | | | | | | | | | | |
| CHEM | 620 | 1422 A | 1-9 | INDEPENDENT STUDY/RSCH | AIR | AIR | EC BAG 1090 | | | | | | | | | | | | | | | | | | | | | | | | |
| CHEM | 720 | 1422 A | 1-9 | MASTER'S THESIS | AIR | AIR | EC BAG 1090 | | | | | | | | | | | | | | | | | | | | | | | | |
| CHEM | 820 | 1423 A | 1-9 | DOCTORAL DISSERTATION | AIR | AIR | EC BAG 1090 | | | | | | | | | | | | | | | | | | | | | | | | |

## CLASSICAL ARCHAEOLOGY

| CLAS | 342 | 1438 A | 3 | ROMAN ART & ARCHITECTURE | MF | 10:00-11:30 | THO 101 | JOHNSON-WRIGHT A 342 A | | | | | | | | | | | | | | | | | | | | | | | | |

## GREEK

| GGRK | 101 | 2007 A | 5 | ELEMENTARY GREEK | MWF | 8:00-10:00 | EEB 218 | | | | | | | | | | | | | | | | | | | | | | | | |
| GGRK | 102 | 2008 A | 5 | ELEMENTARY GREEK | MWF | 8:00-10:00 | NUS 233 | | | | | | | | | | | | | | | | | | | | | | | | |
| GGRK | 461 | 2009 A | 5 | EARLY GREEK LIT | TTH | 11:00-12:00 | DEN 312 | CLAUSSL 1450 A | | | | | | | | | | | | | | | | | | | | | | | | |
| GGRK | 480 | 2030 A | 5 | SUPERVISION STUDY | AIR | AIR | EC BAG 1090 | | | | | | | | | | | | | | | | | | | | | | | | |
| GGRK | 580 | 2070 A | 5 | INDEPENDENT STUDY/RSCH | AIR | AIR | EC BAG 1090 | | | | | | | | | | | | | | | | | | | | | | | | |
| GGRK | 690 | 2071 A | 5 | INDEPENDENT STUDY/RSCH | AIR | AIR | EC BAG 1090 | | | | | | | | | | | | | | | | | | | | | | | | |

## LATIN

| LAT | 101 | 2220 A | 5 | ELEMENTARY LATIN | MWF | 8:00-10:00 | EEB 316 | | | | | | | | | | | | | | | | | | | | | | | | |
| LAT | 102 | 2221 A | 5 | ELEMENTARY LATIN | MWF | 8:00-10:00 | LOW 220 | | | | | | | | | | | | | | | | | | | | | | | | |
| LAT | 403 | 2220 A | 5 | LATE LATIN | MF | 11:00-12:00 | DEN 312 | GOWINGLA | | | | | | | | | | | | | | | | | | | | | | | | |
| LAT | 480 | 2220 A | 5 | SUPERVISION STUDY | AIR | AIR | EC BAG 1090 | | | | | | | | | | | | | | | | | | | | | | | | |

## COMMUNICATIONS

| CMU | 301 | 1450 A | 5 | | MWF | 8:00-10:00 | EEB 218 | | | | | | | | | | | | | | | | | | | | | | | | |
| CMU | 302 | 1451 A | 5 | | MWF | 8:00-10:00 | EEB 218 | | | | | | | | | | | | | | | | | | | | | | | | |
| CMU | 303 | 1452 A | 5 | | MWF | 8:00-10:00 | EEB 218 | | | | | | | | | | | | | | | | | | | | | | | | |
| CMU | 304 | 1453 A | 5 | | MWF | 8:00-10:00 | EEB 218 | | | | | | | | | | | | | | | | | | | | | | | | |
| CMU | 305 | 1454 A | 5 | | MWF | 8:00-10:00 | EEB 218 | | | | | | | | | | | | | | | | | | | | | | | | |

## CLASSES

| CLAS | 121 | 1439 A | 2 | LATT & GRR CUR USE | TTH | 9:00-10:00 | DEN 306 | | | | | | | | | | | | | | | | | | | | | | | | |
| CLAS | 121 | 1439 A | 2 | LATT & GRR CUR USE | TTH | 9:00-10:00 | DEN 306 | | | | | | | | | | | | | | | | | | | | | | | | |
| CLAS | 1448 B | 2 | LATT & GRR CUR USE | TTH | 9:00-10:00 | DEN 306 | | | | | | | | | | | | | | | | | | | | | | | | |
| CLAS | 1448 C | 2 | LATT & GRR CUR USE | TTH | 9:00-10:00 | DEN 306 | | | | | | | | | | | | | | | | | | | | | | | | |
| CLAS | 1448 D | 2 | LATT & GRR CUR USE | TTH | 9:00-10:00 | DEN 306 | | | | | | | | | | | | | | | | | | | | | | | | |

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University of Washington
## COMUNICATIONS (cont.)

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| CMU 211 | PHOTOGRAPHY | 1468 A | 3 | CR 140-1440 | CMU 216 | COMM/NO | 2 | EC CMU 118 | PLUS ADD. TIME | **
| CMU 212 | AVY STYL PHOTO | 1470 A | 3 | CR 1150-1150 | CMU 216 | COMM/NO | 2 | EC CMU 214 | PLUS ADD. TIME | **
| CMU 213 | EJ INTERNSHIP | 1471 A | 2-6 | CR 140-1440 | CMU 118 | COMM/NO | 2 | EC CMU 118 | **

## COMPARATIVE HISTORY OF IDEAS

* A COMPLETE LIST OF OCG/CORE COURSES IS AVAILABLE AT THE OCG OFFICE, POL 8102 OR CALL 543-7333.

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| CMED 461 | SEVERUS | 1454 A | 5 | CR 1350-1350 | CMU 8102 | COMM/NO | 2 | EC CMU 8102 | **
| CMED 462 | SEVERUS | 1455 A | 5 | CR 1350-1350 | CMU 8102 | COMM/NO | 2 | EC CMU 8102 | **
| CMED 463 | SEVERUS | 1456 A | 5 | CR 1350-1350 | CMU 8102 | COMM/NO | 2 | EC CMU 8102 | **
| CMED 469 | UNDERGR IPM STUD | 1457 A | 1-5 | CR 1350-1350 | CMU 8102 | **

## COMPARATIVE LITERATURE

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| C 1 LIT 320 | EUROPEAN FAIRY TALE | 1322 A | 5 | CR 1350-1350 | DEN 216 | ROSSELL | 2 | TUE 1320-1330 | **

## DANCE

* ENTRY CODES AVAILABLE IN MAN 258

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| DANCE | 101 | RITOR TO DANCE | 1510 A | 4 | CR 1350-1350 | CMU 216 | COMM/NO | 2 | EC POL 131 | **

## DRAMA

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## ECONOMICS

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| ECOD | 203 | RITOR TO ECODECON | 1530 A | 5 | CR 1350-1350 | CMU 216 | COMM/NO | 2 | EC POL 131 | **

See pages 8-69 for course descriptions. See page 72 on how to read time schedule. W Fulls UV writing course requirement H Honors W Writing course and honors **New course **Enrollment in this section is limited, and students must obtain entry codes. 79
| DEPT | COURSE | CRD | TITLE | DAY | TIME | BLDG ROOM INSTR |
|------|--------|----|-------|-----|------|-----------------
| ECON 421 | 1500 B | 5 | PUBLIC FINANCE II | MTH 120-120 | EEB 321, BRICKMAN |
| ECON 421 | 1601 A | 5 | INTERNATIONAL TRADE | MTH 1040-1204 | DEN 216, MATHMAN |
| ECON 421 | 1500 B | 5 | INTL FINANCE | MTH 1040-1204 | SIG 323, SAKIP |
| ECON 429 | 1504 A | 1-5 | UNDERGRAD RESEARCH | AIR | EC SAV 3204 |
| ECON 429 | 1505 A | 9-10 | INTERNSHIP | AIR | DEWALLA |
| ECON 803 | 1507 A | 1-9 | DOCTORAL DISSERTATION | AIR | EC SAV 3204 |

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See pages 8-69 for course descriptions. See page 72 on how to read time schedule. *W* Fulfills UW writing course requirement

* B Writing course and honors % New course > Enrollment in this section is limited, and students must obtain entry codes. H Honors

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**University of Washington**

**DEPT**

**SPEC CODE**

**TITLE**

**CRN**

**TIME**

**ROOM**

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| MUCAP | 511 | 2-3 | SAXOPHONE | AIR | | | | BROMWAN | | | | | | |
| MUCAP | 512 | 2-3 | HORN | AIR | | | | KAPPY, D | | | | | | |
| MUCAP | 527 | 2-3 | PERCUSSION | AIR | | | | CRUSCEM | | | | | | |
| MUCAP | 540 | 2-3 | TRUMPET | AIR | | | | CRUSCEM | | | | | | |
| MUCAP | 541 | 2-3 | VOICE | AIR | | | | YOUCY, Y | | | | | | |
| MUCAP | 542 | 2-3 | PIANO | AIR | | | | FREDSANK | | | | | | |
| MUCAP | 544 | 2-3 | VIOLIN-VIOLA | AIR | | | | SCHMIDT, W | | | | | | |
| MUCAP | 545 | 2-3 | VIOLONCELLO | AIR | | | | DAVY, S | | | | | | |
| MUCAP | 548 | 2-3 | DOUBLE BASS | AIR | | | | LEBERMAN, D | | | | | | |
| MUCAP | 547 | 2-3 | FLUTE | AIR | | | | SHOWRON, J F | | | | | | |
| MUCAP | 549 | 2-3 | CLARINET | AIR | | | | MC COL \, W | | | | | | |
| MUCAP | 551 | 2-3 | SAXOPHONE | AIR | | | | BROMWAN | | | | | | |
| MUCAP | 545 | 2-3 | VIOLIN-VIOLA | AIR | | | | SCHMIDT, W | | | | | | |
| MUCAP | 547 | 2-3 | VIOLONCELLO | AIR | | | | DAVY, S | | | | | | |
| MUCAP | 549 | 2-3 | DOUBLE BASS | AIR | | | | LEBERMAN, D | | | | | | |
| MUCAP | 550 | 2-3 | FLUTE | AIR | | | | SHOWRON, J F | | | | | | |
| MUCAP | 550 | 2-3 | CLARINET | AIR | | | | MC COL \, W | | | | | | |
| MUCAP | 552 | 3 | TRUMPET | AIR | | | | CRUSCEM | | | | | | |
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### Near Eastern

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See pages 8-69 for course descriptions. See page 72 on how to read time schedule. W Fulfill UW writing course requirement  H Honors  B Writing course and honors  % New course  > Enrollment in this section is limited, and students must obtain entry codes.
### POLITICAL SCIENCE

* ENTRY CODES AVAILABLE IN OHN 115 & 107 FOR UNDERGRADS
* ENTRY CODES AVAILABLE IN OHN 115 FOR GRADS
* POL S CHANGE OF REGISTRATION PROCEDURE DURING ENROLLMENT
* PERIOD II STUDENTS ADDING UNDERGRAD POL S COURSES
* SHOULD OBTAIN ENTRY CODES FROM FACULTY/TAS.
* SUPERVISED STUDY OR INTERNSHIP COURSE ENTRY CODES

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* first term: M/W/T/F 8:30-10:15, 10:30-12:00, 12:30-2:00

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University of Washington
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### COMPARATIVE RELIGION

* Students not attending the first week of the quarter may be dropped

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See pages 8-69 for course descriptions. See page 72 on how to read time schedule. * W fulfills UW writing course requirement  ** H honors  **- New course  **/ **- Enrollment in this section is limited, and students must obtain entry codes.
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## ROMANCE LINGUISTICS & LIT

| ROM 401 | INTR LINGUISTICS | SPEC | 5 | MWF | 940-1150 | LOW 111 | KLAUENBERG | TBM |
| ROM 402 | SPECIAL TOPICS | SPEC | 1-5 | A |  |  |  |  |
| ROM 500 | SPEC DOM & CONF | SPEC | 1-10 | A |  |  |  |  |
| ROM 600 | DEEPENED STUDY/RHC | SPEC |  |  |  |  |  |  |

## SPANISH

| SPAN 101 | ELEMENTARY | 1-18 | |  |  |  |  |  |
| SPAN 102 | ELEMENTARY | 5 | MWF | 830-1040 | LOW 105 |  |  |  |
| SPAN 103 | ELEMENTARY | 5 | MWF | 940-1150 | LOW 220 |  |  |  |
| SPAN 104 | ELEMENTARY | 5 | MWF | 1050-1220 | LOW 222 |  |  |  |
| SPAN 105 | ELEMENTARY | 5 | MWF | 1160-1330 | LOW 221 |  |  |  |
| SPAN 106 | ELEMENTARY | 5 | MWF | 1230-1400 | LOW 221 |  |  |  |
| SPAN 107 | ELEMENTARY | 5 | MWF | 1310-1440 | LOW 114 |  |  |  |
| SPAN 108 | ELEMENTARY | 5 | MWF | 1450-1620 | LOW 114 |  |  |  |
| SPAN 109 | ELEMENTARY | 5 | MWF | 1530-1700 | LOW 113 |  |  |  |
| SPAN 110 | INTERMEDIATE | 5 | MWF | 940-1150 | LOW 214 |  |  |  |
| SPAN 111 | INTERMEDIATE | 5 | MWF | 1050-1220 | LOW 219 |  |  |  |
| SPAN 112 | INTERMEDIATE | 5 | MWF | 1130-1300 | LOW 219 |  |  |  |
| SPAN 113 | INTERMEDIATE | 5 | MWF | 1210-1330 | LOW 219 |  |  |  |
| SPAN 114 | STUDY | 3 | MWF | 940-1150 | LOW 216 |  |  |  |
| SPAN 115 | STUDY | 3 | MWF | 1050-1220 | LOW 216 |  |  |  |
| SPAN 116 | STUDY | 3 | MWF | 1130-1300 | LOW 216 |  |  |  |
| SPAN 117 | DEEPENED STUDY | 5 | MWF | 940-1150 | LOW 216 |  |  |  |
| SPAN 118 | DEEPENED STUDY | 5 | MWF | 1050-1220 | LOW 219 |  |  |  |
| SPAN 119 | DEEPENED STUDY | 5 | MWF | 1130-1300 | LOW 219 |  |  |  |

## SCANDINAVIAN

| SCAND 212 | MwThFr | | 3 | MWF | 830-1000 | LOW 111 | KELLY | TBM |
| SCAND 295 | MwThFr | | 5 | MWF | 940-1150 | LOW 111 | KELLY | TBM |

## SWEDISH

| SWED 110 |  | 15 | MWF | 830-1000 | LOW 111 |  |  |  |

## SLAVIC LANGUAGES & LIT

| SLAVIC 610 | DEEPENED STUDY | 1-9 | MWF | 940-1150 | LOW 111 |  |  |  |
| SLAVIC 810 | DOCTORAL DISSERTATION | 1-9 | MWF | 940-1150 | LOW 111 |  |  |  |

## BULGARIAN

| BULG 485 | ELEMENTARY | 5 | MWF | 830-1000 | LOW 111 |  |  |  |
| BULG 490 | | | 5 | MWF | 1050-1220 | LOW 111 |  |  |  |
| BULG 505 | ELEMENTARY | 5 | MWF | 1130-1300 | LOW 111 |  |  |  |
| BULG 510 | ELEMENTARY | 5 | MWF | 1210-1330 | LOW 111 |  |  |  |

## CZECH

| CZECH 324 | | 5 | MWF | 940-1150 | LOW 111 |  |  |  |
| CZECH 345 | | 5 | MWF | 1050-1220 | LOW 111 |  |  |  |
| CZECH 366 | | 5 | MWF | 1130-1300 | LOW 111 |  |  |  |

## RUSSIAN

| RUSS 353 | | 5 | MWF | 940-1150 | LOW 111 |  |  |  |
| RUSS 356 | | 5 | MWF | 1050-1220 | LOW 111 |  |  |  |

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**University of Washington**

**Depts: 600-699**

**Section: 000**

**Title: ELEMENTARY**

**Days: MWF**

**Time: 940-1150**

**Rm: LOW 111**

**Instr: KLAUENBERG**

**Comments: TBM**

**Depts: 700-799**

**Section: 000**

**Title: DEEPENED STUDY/RHC**

**Comments:**
**SPEECH AND HEARING SCIENCES**

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**SPEECH COMMUNICATION**

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See pages 8-69 for course descriptions. See page 72 on how to read time schedule.  W-Fulfills UW writing course requirement  H-Honors  B-Writing course and honors  N-New course  E-Enrollment in this section is limited, and students must obtain entry code.
### SPEECH COMMUNICATION (cont.)

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| SPCH 231 | 5 | INTERVIEWING | M/W/F 7:00-7:50 | PAR 213 |
| SPCH 334 | 5 | ESSENTIAL OF ARGUMENT | M/W/F 10:10-10:50 | PURCELL |
| 3200 U | 5 | M/W/F 7:00-7:50 | PAR 142 | MURDOCH |

| SPCH 341 | 3 | INTER CHILD LIT | M/W/F 9:00-9:50 | RA 105 | BALMAIN |
| SPCH 373 | 5 | PSY GROUP DISCUSSION | M/W/F 8:30-9:20 | RA 105 | BALMAIN |
| SPCH 425 | 5 | ASER PUBLIC ADDRESS | M/W/F 9:30-10:20 | RA 105 | BALMAIN |

| SPCH 474 | 5 | CRM IN CONTEXT | M/W/F 7:00-7:50 | RA 105 | BALMAIN |
| SPCH 486 | 5 | SPEC TOPICS SP KJ | M/W/F 9:00-9:50 | RA 142 | BALMAIN |
| 3200 A | 5 | M/W/F 9:00-9:50 | RA 142 | BALMAIN |
| 3208 B | 3 | M/W/F 10:10-10:50 | POSTC | EC II |
| 3208 C | 3 | M/W/F 12:10-12:50 | POSTC | EC II |

| STAT 499 | 1-5 | UNDERGRAD RESEARCH | M/W/F 8:30-9:30 | RBB 3039 |

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| STAT 760 | 1-9 | INDEPENDENT STUDY | M/W/F 9:30-10:20 | SAY 329 |
| 760 A | 1-9 | MASTERS THESIS | M/W/F 9:30-10:20 | SAY 329 |
| STAT 762 C | 3 | DOCTORAL DISSERTATION | M/W/F 9:30-10:20 | SAY 329 |

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- ENTRY CODES AVAILABLE IN KEY 106

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### SCHOOL OF BUSINESS ADMINISTRATION

#### BUSINESS ADMINISTRATION

- **ENTRY CODES** AVAILABLE IN HX 137 FOR UNDERGRADS
- **ENTRY CODES** AVAILABLE IN HX 110 FOR GRADS
- **REGISTRATION IN GRADUATE BUSINESS COURSES 500 & ABOVE**
- **REQUIRES THE APPROVAL OF THE GRADUATE BUSINESS PROGRAM OFFICE.**
- **AFTER REGISTRATION, STUDENTS WISHING TO DROP OR ADD**
- **ALL 500 COURSES NUMBERED 500 AND ABOVE NEED THE APPROVAL**
- **OF THE ASSOCIATE DEAN FOR GRAD PROGRAMS IN THE GRAD**
- **PROGRAMS OFFICE.**
- **ALL UNDERGRAD COURSES ARE BA PRIORITY UNLESS BA**
- **ONLY IS INDICATED.**
- **E & B ENTRY CODES**
- **SCHOOL OF BUSINESS RESERVES THE RIGHT TO DROP STUD**
- **ENTS FROM CLASSES THEY DO NOT ATTEND DURING THE**
- **FIRST WEEK OF THE QUARTER.**

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**See pages 8-69 for course descriptions. See page 72 on how to read time schedule.**

- **W** Fulfills UW writing course requirement
- **H** Honors
- **B** Writing course and honors
- **%** New course
- **>>** Enrollment in this section is limited, and students must obtain entry codes.
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See pages 68-69 for course descriptions. See page 72 on how to read time schedule. W Fullfill UW writing course requirement H Honors N New course A New course > Enrollment in this section is limited, and students must obtain entry codes.
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See pages 6-60 for course descriptions. See page 72 on how to read time schedule. W Fullfills UW writing course requirement H Honors B Writing course and honors % New course © Enrollment in this section is limited, and students must obtain entry codes.
See pages 8-69 for course descriptions. See page 72 on how to read time schedule. W Fulfills UW writing course requirement H Honors
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### College of Engineering

- **AERONAUTICS AND ASTRONAUTICS**
  - **ENTRY CODES AVAILABLE IN QHS 206**
  - **DEPT COURSE TITLE TERM DATE**
  - **ENTRY CODES AVAILABLE IN QHS 206**

- **CHEMICAL ENGINEERING**
  - **ENTRY CODES AVAILABLE IN BIS 105**
  - **CH E 458 PHYSICAL CHEMISTRY**
  - **CH E 459 UNDERGRAD RESEARCH**
  - **CH E 600 INTERNSHIP**
  - **CH E 700 DOCTORAL DISSERTATION**

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### Civil Engineering-Core Courses

- **ENTRY CODES AVAILABLE IN NOR 201**
  - **CIVE 700 MASTERS THESIS**
  - **CIVE 1346 A 1-9**

### Civil-Struct, Geotech, Mechanics

- **ENTRY CODES AVAILABLE IN NOL 201**
  - **CISM 471 ADV STRUCT |**
  - **CISEM 400 DES METRICT |**
  - **CISEM 400 DES METRICT |**

### Civil-Transp, Survey, Construc

- **ENTRY CODES AVAILABLE IN NOL 201**
  - **CET 489 SPECIAL PROJECTS |**
  - **CET 1348 A 1-5**

### Civil-Environmetal Engr & Sci

- **ENTRY CODES AVAILABLE IN NOL 201**
  - **CIV 489 SPECIAL PROJECTS |**
  - **CIV 1349 A 2-5**

### Electrical Engineering

- **ENTRY CODES AVAILABLE IN NEB 215**
  - **EE 439 ELEM ELECT ENG |**
  - **EE 1353 A 3-5**

### Engineering Physics Lab

- **EE 412 ELECTROPHYSICS LAB |**
  - **EE 1354 A 2**

### Engineering EE Lab

- **EE 412 ELECTROPHYSICS LAB |**
  - **EE 1355 A 2**
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See pages 8-60 for course descriptions. See page 72 on how to read time schedule. W Fulfilling UW writing course requirement H Honors
### Engineering (College Courses) (Cont.)

**Mechanical Engineering**

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### Materials Engineering

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### College of Forest Resources

**Forest Resources Management**

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*Note: Course codes available in Web 143C

---

*Credits: 1-5*
See pages 8-69 for course descriptions. See page 72 on how to read time schedule. W Fulfill UW writing requirement. H Honors.
## LIBRARY & INFORMATION SCIENCE (cont.)

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## INTERSCHOOL OR INTERCOLLEGE PROGRAMS

### BIOENGINEERING

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## SCHOOL OF LAW

### LAW

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### LAW A

| LAW A | 550 | 2219 | 3 | LAB REL PUBLIC SEC | MTHF 940-1040 | CRN 109 VAUGHN |
|-------|-----|------|-------------------------------|----------------|----------------|
| LAW A | 582 | 2250 | 3 | EMPLOYMENT LAW | MTHF 1050-1150 | CRN 109 PECL |
| LAW A | 511 | 2251 | 3 | FIRST AMENDMENT | MTHF 1050-1150 | CRN 109 JAYS |

## LAW B

### LAW B 530

| LAW B | 530 | 2252 | 1-9 | JUDICIAL INTERNSHIP | ABR | CR/CN/ONLY | PERM OF 5, SLCR OR DEANS ONLY EXCEPT LAW GR STUDENTS |
|-------|-----|------|-------------------------------|-----|------------|----------------|
| LAW B | 532 | 2254 | 3 | SP/DO ANALYTIC WRIT | ABR | CR/CN/ONLY | PERM OF 5, SLCR OR DEANS ONLY EXCEPT LAW GR STUDENTS |
| LAW B | 535 | 2255 | 1-3 | LEGISLATIVE INTERNSHIP | ABR | CR/CN/ONLY | PERM OF 5, SLCR OR DEANS ONLY EXCEPT LAW GR STUDENTS |
| LAW B | 538 | 2257 | 1-15 | AGENCY INTERNSHIPS | ABR | CR/CN/ONLY | PERM OF 5, SLCR OR DEANS ONLY EXCEPT LAW GR STUDENTS |
| LAW B | 539 | 2258 | 1-15 | PUB INT LAW | ABR | CR/CN/ONLY | PERM OF 5, SLCR OR DEANS ONLY EXCEPT LAW GR STUDENTS |
### School of Medicine

**Anesthesiology**

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### Comparative Medicine

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See pages 80-89 for course descriptions. See page 72 on how to read time schedule. W Fulfills UW writing course requirement  H Honors  B Writing course and honors  % New course  > Enrollment in this section is limited, and students must obtain entry codes.
The School of Medicine also offers courses in psychiatry and behavioral science, radiation oncology, radiology, rehabilitation medicine, surgery and urology. For course information, call (206) 543-2100, and ask for the appropriate department.
### Summer Quarter Time Schedule

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| NEUROLOGICAL SURGERY | | | | | | | |
| * ENTRY CODES AVAILABLE IN HSR B9744 | | | | | | |
| KB 420 | | | | | | | |
| > 2637 | A | VAR | UNDERGRAD THESS | ARR | | | |
| KB 429 | | | | | | | |
| > 2638 | A | VAR | UNDERGRAD RESEARCH | FIRST 6 WEEKS | | | |
| > 2639 | B | VAR | SECOND 6 WEEKS | | | | |
| KB 505 | | | | | | | |
| > 2640 | A | 1 | P-FREESP NEUROSURG | ARR | | | |

| OBSTETRICS & GYNECOLOGY | | | | | | | |
| * ENTRY CODES AVAILABLE IN HSR B9677B | | | | | | |
| OB 418 | | | | | | | |
| > 2656 | A | VAR | UNDERGRAD THESS | ARR | | | |
| OB 419 | | | | | | | |
| > 2657 | A | VAR | UNDERGRAD THESS | 12 WEEKS | | | |
| OB 419 | | | | | | | |
| > 2658 | E | | POSTGRAD INVESTIGA | ARR | | | |

| OPHTHALMOLOGY | | | | | | | |
| OPHTH 486 | | | | | | | |
| > 2651 | A | VAR | UNDERGRAD THESS | ARR | | | |
| OPHTH 489 | | | | | | | |
| > 2652 | A | VAR | UNDERGRAD RESEARCH | EC HSB B825 | | | |
| OPHTH 801 | | | | | | | |
| > 2653 | A | 1 | POSTGRAD FREESP | ARR | | | |

### ORTHOPAEDICS

* ENTRY CODES AVAILABLE IN HSR B1033

| ORTHO 438 | | | | | | | |
| > 2670 | A | VAR | UNDERGRAD THESS | ARR | | | |
| ORTHO 439 | | | | | | | |
| > 2671 | A | VAR | UNDERGRAD RESEARCH | | | | |
| ORTHO 802 | | | | | | | |
| > 2672 | A | 1 | P-FREESP ORTHO | | | | |

### OTOLARYNGOLOGY HEAD & NECK SURG

* ENTRY CODES AVAILABLE IN HSR B1165

| OTOL 428 | | | | | | | |
| > 2653 | A | VAR | UNDERGRAD THESS | ARR | | | |
| > 2654 | B | VAR | FIRST 6 WEEKS | | | | |
| > 2655 | C | VAR | SECOND 6 WEEKS | | | | |
| OTOL 803 | | | | | | | |
| > 2656 | A | VAR | UNDERGRAD RESEARCH | | | | |

### PATHOLOGY

| PATH 428 | | | | | | | |
| > 2675 | A | VAR | UNDERGRAD THESS | ARR | | | |
| PATH 429 | | | | | | | |
| > 2676 | A | VAR | UNDERGRAD RESEARCH | EC HSA C516 | | | |
| PATH 527 | | | | | | | |
| > 2677 | A | 2 | CELL PATHOLOGY | CIVIC ONLY | | | |
| PATH 510 | | | | | | | |
| > 2678 | A | VAR | ANAT ANLYS DISEASE | EC HSA C516 | | | |
| PATH 591 | | | | | | | |
| > 2679 | A | 2-5 | EXP & Molec PATH | CIVIC ONLY | | | |
| PATH 582 | | | | | | | |
| > 2680 | A | 2-5 | CONTEMP ANAT PATH | EC HSA C516 | | | |
| PATH 803 | | | | | | | |
| > 2681 | A | VAR | NEUROPATHOLOGY | CIVIC ONLY | | | |
| PATH 804 | | | | | | | |
| > 2682 | A | 4 | NEUROPATH BRN MOD | EC HSA C516 | | | |
| PATH 805 | | | | | | | |
| > 2683 | A | 4 | NEURP BRN NOL LAB | EC HSA C516 | | | |
| PATH 806 | | | | | | | |
| > 2684 | A | 1 | INDEPEND STDY/RCH | CIVIC ONLY | | | |
| PATH 807 | | | | | | | |
| > 2685 | A | 1 | INDEPEND STDY/RCH | EC HSA C516 | | | |
| PATH 808 | | | | | | | |
| > 2686 | A | 1 | MASTERS THESS | | | | |

### PHARMACOLOGY

| PHMOL 428 | | | | | | | |
| > 2748 | A | VAR | UNDERGRAD THESS | ARR | | | |
| PHMOL 429 | | | | | | | |
| > 2749 | A | VAR | UNDERGRAD RESEARCH | EC HSA C516 | | | |
| PHMOL 520 | | | | | | | |
| > 2751 | A | 4 | INT LAB RED PHMOL | CIVIC ONLY | | | |
| PHMOL 600 | | | | | | | |
| > 2752 | A | 1-9 | INDEPEND STDY/RCH | CIVIC ONLY | | | |
| PHMOL 700 | | | | | | | |
| > 2753 | A | 1-9 | UNDERGRAD DISERTN | CIVIC ONLY | | | |

### PHYSIOLOGY & BIOPHYSICS

* ENTRY CODES AVAILABLE IN HSR D424

| PSYCH 486 | | | | | | | |
| > 2657 | A | VAR | UNDERGRAD THESS | | | |
| PSYCH 508 | | | | | | | |
| > 2659 | A | VAR | UNDERGRAD RESEARCH | EC HSA D424 | | | |
| PSYCH 520 | | | | | | | |
| > 2660 | A | VAR | PHYSIOLOGY SEMINAR | EC HSA D424 | | | |

See pages 8-69 for course descriptions. See page 72 on how to read time schedule.  W Fulfils UW writing course requirement  H Honors  B Writing course and honors  F - New course  G Enrollment in this section is limited, and students must obtain entry codes.  107
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**PSYCHIATRY & BEHAVIORAL SCIENCES**

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| FISH 720 | 1-3 | MASTERS THESIS | ARR | GR/C-GONLY |
| FISH 820 | 1-3 | DOCTORAL DISSERTATION | ARR | GR/C-GONLY |
| **FOOD SCIENCE**
| FD SC 430 | 1-3 | UNDERGRAD THESIS | ARR | RASCO,B, PROF/T, LISTERLI |
| FD SC 620 | 1-3 | INDEPENDENT STUDY/RECH | ARR | RASCO,B, PROF/T, LISTERLI |
| FD SC 720 | 1-3 | MASTERS THESIS | ARR | RASCO,B, PROF/T, LISTERLI, DAWSON,J |
| **OCEANOGRAPHY**
| OCEAN 101 | 1-3 | UNDERGRAD RESEARCH | ARR | CR/CONT 101 |
| OCEAN 300 | 1-3 | INDEPENDENT STUDY/RECH | ARR | CR/OCEAN ONLY, OTHERS BY PERM |
| OCEAN 700 | 1-3 | MASTERS THESIS | ARR | CR/OCEAN ONLY, OTHERS BY PERM |
| OCEAN 820 | 1-3 | DOCTORAL DISSERTATION | ARR | CR/OCEAN ONLY, OTHERS BY PERM |
| **MARINE AFFAIRS**
| SRA 400 | 1-3 | UNDERGRAD RESEARCH | ARR | CR/MAR 105, OR CALL 543-4236 |
| SRA 600 | 1-3 | UNDERGRAD RESEARCH | ARR | CR/MAR 105, OR CALL 543-4236 |
| SRA 820 | 1-3 | UNDERGRAD RESEARCH | ARR | CR/MAR 105, OR CALL 543-4236 |
| SRA 720 | 1-3 | MASTERS THESIS | ARR | CR/MAR 105, OR CALL 543-4236 |
| **SCHOOL OF PHARMACY**
| PHARM 205 | 1-3 | CLIN OPNS PHARM | ARR | GR/C-GONLY, EC HST 1329 |
| PHARM 300 | 1-3 | COMMUNITY EXT | ARR | 420, ANDREWS, A |
| PHARM 400 | 1-3 | INSTITUTIONAL EXT | ARR | 420, DAVISON, L |
| **PHARMACEUTICS**
| PCPEUT 400 | 1-3 | UNDERGRAD RESEARCH | ARR | GR/C-GONLY, EC HST 1329 |

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| **GRADUATE SCHOOL OF PUBLIC AFFAIRS**
| PUB AF 604 | 1-3 | ADV ETHICS | ARR | 520-600, PAR 213, HAYES, M |
| PUB AF 511 | 1-3 | MGMT FOR PROF | ARR | EC PAR 2030, TERM A |
| PUB AF 295 | 1-3 | TOPICS ENV POL MGMT | ARR | 630-655 PM, PAR 313, CHOPP, C, TERM A |
| PUB AF 270 | 1-3 | SPECIAL TOPICS | ARR | 550-720 PM, PAR 120, ZERBA, D |
| PUB AF 295 | 1-3 | MEDIA RELATIONS | ARR | EC PAR 2030, TERM B |
| PUB AF 295 | 1-3 | SPECIAL TOPICS | ARR | 630-820 PM, PAR 120, HAYES, M |
| PUB AF 270 | 1-3 | UNDERGRAD RESEARCH | ARR | EC HST 1329 |
| PUB AF 300 | 1-3 | ADV/HPT CLERKSHIP | ARR | GR/C-GONLY, NAUJUNA, N |
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| **MEDICINAL CHEMISTRY**
| MEDCH 400 | 1-3 | SPECIAL STUDIES PHARM | ARR | GR/C-GONLY, EC HST 1329 |
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| MEDCH 700 | 1-3 | MASTERS THESIS | ARR | 23A |
| MEDCH 800 | 1-3 | DOCTORAL DISSERTATION | ARR | GR/C-GONLY, EC HST 1329 |

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TACOMA BRANCH CAMPUS
TACOMA LIBERAL STUDIES

COMPARATIVE INTERNATIONAL STUDY

LIBERAL STUDIES

COMPARATIVE U.S. STUDIES

CURRICULUM & INSTRUCTION

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## Courses Offered

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*Appropriate for high school students | W Meets University of Washington writing course requirements
T Supplemental tapes | R Supplemental readings | L Supplemental lab kits | CSN Course schedule number
Geography
GEOG C102 World Regions (5) D CSN1523

Germanics
GERM C101 First-Year German (5) P CSN1040 (T$20)
GERM C102 First-Year German (5) P CSN1041 (T$25)
GERM C103 First-Year German (5) P CSN1042 (T$12)

Gerontology
UCONJ C440 Biological Aspects of Aging (3) CSN1240 (R$10, L$35)

History
HSTAA C432 W History of Washington and the Pacific Northwest (5) CSN1538 (R$20)

International Business
I BUS C300 The International Environment of Business (3) CSN1537

Italian
ITAL C101 Elementary Italian (5)* P CSN1521 (T$25)
ITAL C102 Elementary Italian (5)* P CSN1076 (T$40) (R$20)
ITAL C103 Elementary Italian (5)* P CSN1079 (T$4) (R$20)

Linguistics
LING C200 W Introduction to Linguistic Thought (5) D CSN1548

Marketing
MKTG C301 Marketing Concepts (4) CSN1287
MKTG C340 Advertising (4) CSN1298 (R$15)

Mathematics
MATH C101 Intermediate Algebra (0)* (S$153) CSN1568 (Optional videotapes $80)
MATH C111 Algebra with Applications (5) DP CSN1374 (R$12)
MATH C112 Applications of Calculus to Business and Economics (5) DP CSN1575
MATH C120 Precalculus (5) CSN1581
MATH C124 Calculus with Analytic Geometry (5) DP CSN1596
MATH C125 Calculus with Analytic Geometry (5) D CSN1592
MATH C126 Calculus with Analytic Geometry (5) D CSN1546
MATH C170 Math for Elementary School Teachers (3) D CSN1543
MATH C205 Elementary Linear Algebra (3) CSN1556

Oceanography
OCEAN C101 Survey of Oceanography (5) D CSN1592

Organization and Environment
O E C200 Introduction to Law (5) CSN1184

Philosophy
PHIL C114 Philosophical Issues in the Law (5) CSN1607
PHIL C120 Introduction to Logic (5) DP CSN1212

Political Science
POL S C101 W Introduction to Politics (6) D CSN1513 (R$15)
POL S C201 W Introduction to Political Theory (5) D CSN1501 (R$5)
POL S C202 W The Politics of Mass Communications in America (5) CSN1582
POL S C203 W Introduction to International Relations (5) D CSN1281 (R$7.50)
POL S C305 W The Politics of Mass Communications in America (5) CSN1582

Psychology
PSYCH C101 W Psychology as a Social Science (5) D CSN1302
PSYCH C205 W Introduction to Personality and Individual Differences (4) D CSN1261
PSYCH C209 Fundamentals of Psychological Research (4) CSN1562
PSYCH C213 Elementary Psychological Statistics (6) P CSN1595
PSYCH C305 W Abnormal Psychology (5) D CSN1283 (Optional PC disk $10)
PSYCH C345 W Social Psychology (5) D CSN1070

Religious Studies/Comparative Religion
RELIG C202 W Introduction to World Religions: Eastern Traditions (5) D CSN1540

Russian
RUSS C101 First-Year Russian (5) P CSN1528 (T$20)
RUSS C102 First-Year Russian (5) P CSN1294 (T$20)
RUSS C103 First-Year Russian (5) P CSN1301 (T$10)

Sociology
SOC C110 Survey of Sociology (5) D CSN1285 (R$6, Optional PC disk $15)
SOC C271 W Introduction to the Sociology of Deviance (5) D CSN1307
SOC C347 Socialization (5) D CSN1539
SOC C352 The Family (5) D CSN1507 (R$7)
SOC C371 W Criminology (5) CSN1542

Spanish
SPAN C101 Elementary Spanish (5)* P CSN1524 (T$24)
SPAN C102 Elementary Spanish (5)* P CSN1530 (T$24)
SPAN C103 Elementary Spanish (5)* P CSN1519 (T$32)
SPAN C201 Intermediate Spanish (5) D CSN1551 (T$25)
SPAN C202 Intermediate Spanish (5) D CSN1567 (T$25)

Statistics
STAT C220 Basic Statistics (5) DP CSN1598
STAT C301 Basic Statistics with Applications (5) CSN1604
STAT C311 Elements of Statistical Methods (5) DP CSN1599

Technical Communication
ENGR C331 Advanced Technical Writing (3) CSN1549

Wildland Recreation
FRM C383 Interpreting the Environment (5) CSN1534 (R$10)

Women Studies
WOMEN C310 Women and the Law (5) CSN1600 (R$10)

* Appropriate for high school students
W Meets University of Washington writing course requirements
T Supplemental tapes
R Supplemental readings
L Supplemental lab kits
CSN Course schedule number
D Satisfies UW Distribution Requirements
P Satisfies UW Proficiency Requirements
# Independent Study by Correspondence

## Registration form

Mail completed form and fees to:
UW Distance Learning, GH-23
5001 25th Ave. NE
Seattle, WA 98195

To register by phone using
VISA or Master Card, call:
(206) 543-2350 or 1-800-543-2320
FAX: (206) 685-9359

☐ Mr.  
☐ Ms.

Name (Last) (First) (Middle) Social Security number Date of birth

Mailing Address: Street  

City State ZIP code  

Former last name  

Have you ever enrolled for credit course at the University of Washington? ☐ yes ☐ no
If yes, expected date of graduation:

Month Year  

UW student ID number  

Check highest level 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

Month Year  

Have you ever enrolled for credit course at the University of Washington? ☐ yes ☐ no
If yes, expected date of graduation:

Month Year  

UW student ID number  

Check highest level 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

Foreign postage*:

Total course cost (Not including registration fee)

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<th>Course 1</th>
<th>Course 2</th>
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Note: Distance Learning reserves the right to adjust fees, discontinue courses or change instructors as circumstances warrant.

*Foreign 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 fee for 1-3 credits is $15, and for 4 or more credits it is $25.
Summer Quarter Admission

Continuing UW students
If you are enrolled as a matriculated student at the UW Spring Quarter 1992, you need not submit an application for Summer Quarter. Simply register using STAR just as you would for any other quarter.

Applying for admission
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. If you have questions after reading the appropriate sections, please call UW 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 1992.

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 affect an applicant's chances for later acceptance into a degree program and it does not permit you to continue in this status 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 high school student participating in the Advanced Study Program (see page 132);
- 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 certificate, you should see Continuing Teaching Certificate (fifth year) students, this page);
- 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 (fifth year) students
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 status. To apply, contact the Registration Office, PD-10, 225 Schmitz, University of Washington, Seattle, WA 98195, for a returning student application and submit the form by June 1 to the address on the form.

If you are a new student, a former UW undergraduate or a graduate student applying to work toward a Continuing Teaching Certificate, you may apply for either postbaccalaureate or nonmatriculated status. Postbaccalaureate status is the only status you may apply for if you plan to start your studies in the summer and continue through the next academic year. Apply for postbaccalaureate status by May 15 using the application for undergraduate admission (see page 119). This application requires two official transcripts from each college you have attended.

If you plan to attend the UW only during the summer, nonmatriculated status is probably the most appropriate. Use the application form in this bulletin. You may call the Teacher Education Advising and Certification Office at (206) 543-1820 for information about the continuing certificate.

Graduate nonmatriculated students
Nonmatriculated and graduate nonmatriculated students are two different categories at the UW. For more information about which students need graduate nonmatriculated status and how to pursue it, see Special Enrollment Information for Graduate Nonmatriculated Students, page 120.

Visiting graduate student
If you are a graduate student pursuing an advanced degree at another institution, you may be admitted to the UW as a visiting graduate student. Visiting graduate students are not assured admission to any particular program of study but they may register in courses if they are considered eligible by a faculty advisor or the course instructor.

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.
Types of applications

Application for Summer Quarter-only admission

The Summer Quarter-only application, on the inside back cover of this bulletin, is designed for nonmatriculated students and former UW students eligible to be readmitted to the same status. This includes graduate students who have official "on-leave" status. This application should be used if students want to take courses in Seattle or at the UW Branch Campuses at Bothell and Tacoma. Students applying for new matriculated status (undergraduate or graduate) should use one of the forms described below.

Application for undergraduate admission

Undergraduate admission applications are available from the Office of Admissions, PC-30, 320 Schmitz Hall, Seattle, WA 98195. Telephone: (206) 543-5150.

This form is to be used by all new students (except international students) seeking an undergraduate degree or certificate including those wishing to begin during Summer Quarter and continue into Autumn Quarter, and by former UW students who are changing to a new undergraduate status (including postbaccalaureate).

Teachers who are attending the UW for the first time as postbaccalaureate students who wish to work on Continuing Teaching Certificates should read Continuing Teaching Certificate (fifth year) students, page 118.

A former UW student who has previously been enrolled as a postbaccalaureate student and is now seeking a Continuing Teaching Certificate should submit a returning student application to the Registration Office, PD-10, 225 Schmitz Hall, Seattle, WA 98195. Telephone: (206) 543-8580.

Application for admission to the graduate school

Applications for admission to the graduate school are available from the appropriate academic department or from the Office of Graduate Admissions, AD-10, 98 Administration Building, Seattle, WA 98195. Telephone: (206) 543-8529.

This form is to be used by students applying for admission as graduate students, including those seeking administrator's credentials; or visiting graduate students; or for former graduate students who did not request "on-leave" status.

Application for undergraduate international student admission

See International Students, page 121.

Application for admission to professional schools

Those interested in the schools of medicine, law or dentistry should write those schools directly.

School of Medicine, Office of the Dean, Committee on Admissions, SM-22, University of Washington, Seattle, WA 98195

School of Law, Law School Admissions, Condon Hall, JB-20, University of Washington, Seattle, WA 98195

School of Dentistry, Office of Student Services, SC-62, D323 Health Sciences, University of Washington, Seattle, WA 98195

International students

See International Students, page 121.
Other Admission Information

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 below. For more information, contact the Admissions Office or the unit listed. Please read Types of applications, page 119.

Students who are accepted for Summer/Autumn must register 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 22 may register for Autumn Quarter without submitting a new application. Withdrawal from Summer Quarter prior to June 22, however, invalidates your status as a continuing student and you must submit a new admission application for autumn by the closing dates noted in the Student Action Guide, pages 122-123.

Freshman
This admission classification applies to the individual who is entering college for the first time since graduating from high school. The application priority date for Summer/Autumn Quarter was Feb. 1. Admission is competitive. Not all qualified applicants can be admitted.

Transfer
This admission classification applies to the student who has earned college credits since graduating from high school and is applying to complete a first baccalaureate degree. The application closing date is May 15 (March 1 for international students). Admission is competitive. Not all qualified applicants can be admitted.

Postbaccalaureate
This status applies to the student who has completed a four-year baccalaureate degree and wants to pursue an additional bachelor's degree or a teaching certificate, or wants to take further coursework to prepare for another degree program. Application closing date is May 15 (March 1 for international students). If you are interested in obtaining a teaching certificate, you should also contact the Education Advising Office, 211 Miller, (206) 543-1820. Admission is competitive. Not all qualified applicants can be admitted.

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 status
This status applies to a graduate student who is pursuing an advanced degree at another institution but wishes to attend the UW. Students admitted as visiting graduate students are not guaranteed admission to any particular program of study. They may register only for courses for which they are considered eligible by a faculty advisor or the course instructor. More information about requirements can be obtained from the Office of Graduate Admissions, (206) 543-5929.

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 Student Action Guide, pages 122-123). Therefore, you may not be eligible to apply. For more information, contact the appropriate admission office. You'll find the addresses in Types of applications, page 119. If your intention is to seek a degree at the University 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, this page.

Special enrollment information for graduate nonmatriculated students
Under certain limited conditions, departments, schools or colleges may offer enrollment in their graduate courses to graduate nonmatriculated students. This status is designed for the person who does not plan to pursue a graduate program at this time, but would like the credits to be applicable to a degree in the future. A maximum of 12 credits taken as a graduate nonmatriculated student may be applied toward an advanced degree if the graduate nonmatriculated student is later admitted into a graduate program.

For detailed information regarding admission requirements and materials, you should contact the graduate program coordinator in your area of interest or Student Records, (206) 543-2300, Ext. 425. Acceptance as a graduate nonmatriculated student confers no priority for later admission into the Graduate School for pursuit of a degree.
International Students

International students are welcome to apply to the University in any admission classification. 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 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 non-student visa. Additional information will be sent with your offer of admission to Summer Quarter only.

**Summer/Autumn Quarter admission**

If international students wish to begin their studies Summer Quarter and continue Autumn Quarter, they must be admitted into a degree program (matriculated). An Undergraduate International Student Application and all required credentials must be filed with the Office of Admissions by Feb. 1 for freshmen and by March 1 for transfers and postbaccalaureates. Admission is granted only for Summer/Autumn Quarter. More information is available from the Office of Admissions, 1400 NE Campus Parkway, 320 Schmitz Hall, PC-30, Seattle, WA 98195. Telephone: (206) 543-9686. International students who seek admission as graduate students must contact the Office of Graduate Admissions for appropriate application materials. These forms can be obtained by writing the Office of Graduate Admissions, Foundation for International Understanding, 460 Schmitz, (206) 543-6242.

**Student insurance**

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 July 12, the tuition due date. (See page 136 for additional insurance details.)

**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 learn 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 Test. Academic advising is available from English As A Second Language, (206) 543-6242; Summer Quarter Advising, (206) 543-6108; Arts and Sciences Central Advising, (206) 543-2551; or 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 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, University of Washington Extension, 103 Lewis Hall, DW-12, Seattle, WA 98195. 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. The Intensive English Program offers noncredit courses designed to prepare students for college-level work, as well as help for students who want to improve their English skills. Applications for this program must be made through English As A Second Language, UW Extension, 103 Lewis Hall, (206) 543-6242.

**Foundation for International Understanding Through Students**

The Foundation for International Understanding Through Students (FIUTS), located in 302B 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.

International Services Office

The International Services Office provides assistance to matriculated international students. The office is located in 459 Schmitz. Telephone: 543-0640.
## Student Action Guide

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<tr>
<th>Application deadlines</th>
<th>Full Term</th>
<th>α Term</th>
<th>β Term</th>
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<tbody>
<tr>
<td>Application deadline for summer-only students. (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 transfers and postbaccalaureates applying for summer/autumn</td>
<td>May 15</td>
<td>May 15</td>
<td>May 15</td>
</tr>
<tr>
<td>Application deadline for international transfers and postbaccalaureates applying for summer/autumn</td>
<td>March 1</td>
<td>March 1</td>
<td>March 1</td>
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<tr>
<td>UW faculty/staff and Washington state classified employees</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Tuition Exemption Forms due</td>
<td>May 29</td>
<td>May 29</td>
<td>May 29</td>
</tr>
<tr>
<td>Last day to return approved applications for credit by examination to 248 Schmitz</td>
<td>July 6</td>
<td>July 6</td>
<td>July 31</td>
</tr>
<tr>
<td>Application deadline for baccalaureate degrees (all schools and colleges) to be conferred for the quarter. (Submit to Graduation Office, 207 Schmitz)</td>
<td>July 10</td>
<td>July 10</td>
<td>July 10</td>
</tr>
<tr>
<td>Credit by examination (students must make arrangements with the Educational Assessment Center, 543-1170)</td>
<td>4th week</td>
<td>4th week</td>
<td>4th week</td>
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</table>

### Registration

<table>
<thead>
<tr>
<th>Registration</th>
<th>Full Term</th>
<th>α Term</th>
<th>β Term</th>
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</thead>
<tbody>
<tr>
<td>Registration Period I</td>
<td>April 27-May 29</td>
<td>April 27-May 29</td>
<td>April 27-May 29</td>
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<tr>
<td>Registration Period II</td>
<td>June 1-21</td>
<td>June 1-21</td>
<td>June 1-21</td>
</tr>
<tr>
<td>First mailing of registration confirmations</td>
<td>June 1</td>
<td>June 1</td>
<td>June 1</td>
</tr>
<tr>
<td>Registration confirmations mailed daily beginning this date</td>
<td>June 2</td>
<td>June 2</td>
<td>June 2</td>
</tr>
<tr>
<td>STAR closes at 6 p.m. for preparation of instructor's class lists</td>
<td>June 18</td>
<td>June 18</td>
<td>June 18</td>
</tr>
<tr>
<td>Registration Period III</td>
<td>June 22-July 2</td>
<td>June 22-July 2</td>
<td>June 22-July 2</td>
</tr>
<tr>
<td>Registration for UW faculty/staff</td>
<td>June 24</td>
<td>June 24</td>
<td>June 24</td>
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<tr>
<td>Registration for UW Access Program</td>
<td>June 24</td>
<td>June 24</td>
<td>June 24</td>
</tr>
<tr>
<td>Registration for Washington state classified employees</td>
<td>June 25</td>
<td>June 25</td>
<td>June 25</td>
</tr>
<tr>
<td>STAR closes at 6 p.m. for preparation of 10th day statistics</td>
<td>July 2</td>
<td>July 2</td>
<td>July 2</td>
</tr>
<tr>
<td>Last day entry codes are valid to add a course</td>
<td>July 2</td>
<td>July 2</td>
<td>July 2</td>
</tr>
<tr>
<td>Last day to register</td>
<td>July 2</td>
<td>July 2</td>
<td>July 2</td>
</tr>
<tr>
<td>STAR closed for holiday</td>
<td>July 3</td>
<td>July 3</td>
<td>July 3</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>α Term</th>
<th>β Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Last day for complete withdrawal without owing tuition</td>
<td>June 26</td>
<td>June 26</td>
<td>July 29</td>
</tr>
<tr>
<td>Last day for graduate students to apply for on-leave status</td>
<td>June 26</td>
<td>June 26</td>
<td>June 26</td>
</tr>
<tr>
<td>Last day to add, drop or change a non-STaR transaction in Registration Office without being assessed a $20 change fee and possible tuition forfeiture</td>
<td>June 26</td>
<td>June 26</td>
<td>July 29</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 28</td>
<td>June 28</td>
<td>July 29</td>
</tr>
<tr>
<td>Entry codes required to add courses</td>
<td>June 29-July 2</td>
<td>June 29-July 2</td>
<td>June 29-July 2</td>
</tr>
<tr>
<td>β Term courses may be added at the Registration Office, 225 Schmitz Hall. Students adding courses that require entry codes should obtain this code before coming to register</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>One-half tuition due if officially withdrawing completely from the quarter</td>
<td>June 29-July 10</td>
<td>June 29-July 10</td>
<td>July 30-Aug. 12</td>
</tr>
<tr>
<td>Last day to drop a course without entry on transcript</td>
<td>July 2</td>
<td>July 2</td>
<td>July 29</td>
</tr>
<tr>
<td>Last day to add a course</td>
<td>July 2</td>
<td>July 2</td>
<td>July 29</td>
</tr>
</tbody>
</table>
**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 entry codes are valid to add a course</td>
<td>July 2</td>
<td>July 2</td>
<td>July 29</td>
</tr>
<tr>
<td>Last day to change from audit to numeric grade option</td>
<td>July 2</td>
<td>July 2</td>
<td>July 29</td>
</tr>
<tr>
<td>Last day to make change to or from S/NS grade option</td>
<td>July 2</td>
<td>July 2</td>
<td>July 29</td>
</tr>
<tr>
<td>STAR closed for holiday</td>
<td>July 3</td>
<td>July 3</td>
<td>July 3</td>
</tr>
<tr>
<td>Period IV - drops only</td>
<td>July 6-Aug. 9</td>
<td>July 6-10</td>
<td>July 6-Aug. 9</td>
</tr>
<tr>
<td>$20 Full tuition due if withdrawing completely from the quarter</td>
<td>Aug. 13</td>
<td>Aug. 13</td>
<td>Aug. 13</td>
</tr>
<tr>
<td>$25 late fee assessment to register late</td>
<td>June 22-July 2</td>
<td>July 22-July 2</td>
<td>July 23-29</td>
</tr>
<tr>
<td>Tuition statements mailed to all registered students</td>
<td>June 22</td>
<td>June 22</td>
<td>June 22</td>
</tr>
<tr>
<td>$20 change fee is assessed to add, drop or change a course.</td>
<td>Aug. 9</td>
<td>July 10</td>
<td>Aug. 12</td>
</tr>
<tr>
<td>Additional tuition or tuition forfeiture may also be charged</td>
<td>June 29</td>
<td>June 29</td>
<td>July 30</td>
</tr>
<tr>
<td>$10 fee assessment for replacement of U-PASS begins</td>
<td>June 29</td>
<td>June 29</td>
<td>July 30</td>
</tr>
<tr>
<td>One-half tuition due if withdrawing completely from the quarter</td>
<td>June 29-July 10</td>
<td>June 29-July 10</td>
<td>July 30-Aug. 12</td>
</tr>
<tr>
<td>$75 late registration fee assessment begins.</td>
<td>July 6</td>
<td>July 6</td>
<td>July 30</td>
</tr>
<tr>
<td>(Registration will only be allowed in rare circumstances.)</td>
<td>July 6</td>
<td>July 6</td>
<td>July 30</td>
</tr>
<tr>
<td>Tuition payment deadline for all registered students</td>
<td>July 10</td>
<td>July 10</td>
<td>July 10</td>
</tr>
<tr>
<td>Last day to return U-PASS for cancellation of $20 charge</td>
<td>July 10</td>
<td>July 10</td>
<td>July 10</td>
</tr>
<tr>
<td>Student insurance payment deadline. Payments are not accepted after this date</td>
<td>July 10</td>
<td>July 10</td>
<td>July 10</td>
</tr>
<tr>
<td>Late tuition payment period (requires a late-payment fee)</td>
<td>July 13-17</td>
<td>July 13-17</td>
<td>July 13-17</td>
</tr>
<tr>
<td>Full tuition due if withdrawing completely from the quarter</td>
<td>July 13</td>
<td>July 13</td>
<td>Aug. 13</td>
</tr>
<tr>
<td>Last day to re-register if cancelled for non-payment of tuition</td>
<td>Aug. 14</td>
<td>July 15</td>
<td>Aug. 14</td>
</tr>
<tr>
<td>(additional $75 fee assessed)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Tuition/fee assessment and deadlines (con't)**

**Grades**

- W grade for dropped courses begins: July 6, July 6, July 6, July 30
- First day grades available on STAR: Aug. 17, Aug. 17, Aug. 17
- Grades due from faculty (10 a.m.): Aug. 25, July 27, Aug. 25
- First day GPAs available on STAR: Aug. 27, Aug. 27, Aug. 27
- Grades mailed to students: Aug. 28, Aug. 28, Aug. 28

**Final examinations**

There is no separate final examination week during Summer Quarter. Finals are given during the scheduled last class 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 1992 commencement must have a graduation application on file by April 24, 1992.
Registration for Summer 1992

STAR registration
Registration is easy using the University of Washington's STAR touchtone telephone registration system. You may register by STAR as soon as you receive notice of acceptance (beginning April 27, 1992). Early registration is recommended. STAR (Student Telephone Assisted Registration) registers students in course sections immediately and accommodates subsequent course adds and course drops. STAR gives immediate alternative section availability if the requested sections are closed or canceled. STAR also gives a spoken listing of confirmed registration schedules (including building and classroom locations), open/closed status of course sections, tuition balance, financial aid status, date and amount of last payment, optional charges, and grade and GPA information. Please see How to Use STAR, pages 126-127. The four Summer Quarter registration periods are described below.

Students enrolled 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.

April 27-May 29
This period is open to continuing students currently enrolled Spring Quarter 1992, matriculated and nonmatriculated, and to new and returning students applying early enough to be notified of registration eligibility. Students may call STAR to make changes to their schedules after initial registration.

Registration confirmation
Students registering through May 29 will have their registration confirmations mailed on June 1.

June 1-21
Registration Period II via STAR
6 a.m.-midnight, Monday-Friday
STAR will close at 6 p.m. June 18 to produce class lists.

This period is open to continuing students who were enrolled Spring Quarter 1992 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 confirmation
Registration confirmations and ID cards will be mailed in two working days following a completed registration transaction. Call 543-3868 to record your current address.

Change of registration confirmations
Registration change confirmations will be mailed periodically. Students may also confirm their registration schedules by calling STAR and using the List Schedule Transaction (L #). This listing includes building and classroom locations.

See page 126-127 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. For details, see Complete Withdrawal from the University, page 138.

June 22-July 2
Registration Period III via STAR
June 22-26, 6 a.m.-midnight
June 27-28, noon-midnight
June 29-July 1, 6 a.m.-midnight
July 2, 6 a.m.-6 p.m.
Registration Office, 225 Schmitz, is open for non-ST AR transactions Monday-Friday, 8 a.m.-5 p.m.

This period is open to all students for late registration and for changes to registration. A $25 late registration fee is assessed and billed to students registering for the first time, except for faculty/staff tuition exempt and ACCESS students.

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.

Students may add courses on STAR through June 28 only. No adds are permitted after July 2 for full-quarter or a Term courses.

New registration confirmations
Registration confirmations will be mailed in two working days following a completed registration transaction. Call 543-3868 to record your current address.

Change of registration confirmations
Change confirmations will be mailed periodically. Students may also confirm their registration schedules by calling STAR and using the List Schedule Transaction (L #). This listing includes building and classroom locations.

July 6-Aug. 9
Registration Period IV via STAR
Monday-Friday, 6 a.m.-midnight
Saturday and Sunday, 9 a.m.-midnight
During this period, a $20 fee is assessed for all changes of registration.

Adding and dropping courses
Refer to the Student Action Guide, pages 122-123.

Students may drop courses on STAR during this period. No course drops for full-quarter courses after Aug. 9 or for a Term courses after July 10. Term b courses only can be dropped between Aug. 10 and 12 in person at the Registration Office.

Courses added after registration period II
An entry code is required to add courses after June 26; no full-quarter or a Term course may be added after July 2. Term b courses may be added at the Registration Office between July 6 and 29.

Courses audited may not be changed to credit registration after July 2 for full-quarter or a Term courses, and after July 29 for b Term courses.
Overload guidelines
For reasons of public safety and instructional quality, course enrollment in each section will be limited to the approved classroom capacity. The Registrar's Office monitors course enrollments throughout the quarter according to the following guidelines:
- Prior to the sixth class day, a student may add a section unless the class is full or requires permission; then an entry code is required. STAR will accept course overloads up to 115 percent of classroom capacity to compensate for expected course drops.
- No course adds are accepted after the 10th class day for full-quarter and a Term courses. No course adds for b Term are permitted after July 29.

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 first 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.

$20 change-of-registration fee
The $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 the sixth class day of each quarter. The $20 fee is a service charge, not a penalty, 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. This "free" period gives students an incentive to complete their schedule before the quarter is too far advanced.

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 Registrar's Office. The fee will be waived only if the change is necessitated by a University error or is at the University's request.

ACCESS program for older adults
The UW waives tuition for Washington residents sixty years or older who wish to attend classes as auditing students, on a space-available basis. The fee is $5, whether one or two courses are attended and will be billed if registration in the course(s) is completed. Payment is due by July 10. As auditors, they do not receive credit and are not expected to do laboratory work or to take examinations. A transcript is not maintained. Students who attend the University under the ACCESS program are limited to two courses per quarter.

ACCESS students do not register through STAR. Summer Quarter registration for ACCESS students is June 24 at the Registration Office, 225 Schmitz. Registration time is based on the first letter of the last name:
- 8-9 a.m. T-Z, 9-10 a.m. A-B, 10-11 a.m. C-D, 11-noon E-F, noon-1 p.m. G-H, 1-2 p.m. I-J, 2-3 p.m. K-L, 3-4 p.m. M-N

For additional information, call UW Extension at (206) 543-2320, between 9 a.m. and 5 p.m., weekdays.

Tuition exemption programs for UW faculty/staff and Washington state classified employees
Students enrolling under these exemption programs must be full-time permanent employees and meet the criteria established for faculty and staff of the University of Washington or by the employing agency of the state of Washington for non-University employees. UW employees must have been continuously employed full-time for six months or more with the University immediately prior to the academic quarter in which they are enrolling. Those who meet the requirements and are admitted to the UW may take up to six credits per quarter under the tuition exemption programs. According to legislative action, all registration must be on a space-available basis after other matriculated students have registered. Students cannot register for graduate-level independent study courses numbered 600, 700, or 800. Students admitted as nonmatriculated in order to use one of these exemption programs may only register for classes when using the exemption and the exemption request form has been submitted. Matriculated students will be permitted to register even when they are not using the exemption; full tuition and fees will be charged. Deadlines and registration dates are listed below by category:

UW faculty/staff
- Friday, May 29 Tuition exemption request card due to Registration, 225 Schmitz, PD-10.
- Wednesday, June 24 Registration begins on STAR. Open from 6 a.m. until midnight.
- Friday, July 10 GU registration fee due. Fee is billed if a student successfully registers.

Washington state classified employees
- Friday, May 29 Tuition exemption request card due to Registration, 225 Schmitz, PD-10.
- Thursday, June 25 Registration begins on STAR. Open from 6 a.m. until midnight.
- Friday, July 10 $30 registration fee due. Fee is billed if a student successfully registers.

Tuition exemption program continued on page 128
How to Use STAR Telephone Registration

### General information

#### Touchtone telephone
Use only a touchtone telephone to make entries on STAR. Touchtone phones make a different tone after each key is pressed. Telephones that make no tone or only a monotone will not work on the registration system. Your touchtone phone acts as a computer keyboard, enabling you to enter your course requests just as if you were sitting at a computer terminal. Within minutes, you will know your confirmed schedule.

#### Calling STAR
STAR is available during published registration dates and times (see page 124). STAR is closed on holidays and may close earlier than midnight. If STAR is busy, use an entry code to add a course. STAR enters the correct information after the second try, since you may not understand a response or instruction and would like it repeated, press the star key (*) first, and then the number sign key (#).

#### Entry codes
Entry codes are five digit random numbers issued to you by academic departments as authorization to enroll in restricted course sections. Academic departments have the ability to establish varying levels of enrollment control for course sections in each registration period, or they can maintain the same level of control throughout.

Courses requiring entry codes are designated with the symbol > to the left of the schedule line number (SLN) in the Time Schedule. 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. You may use this code to override the system but not if the overload will increase enrollment over 115 percent of room capacity.

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.

When you use an entry code to register, it becomes a part of your registration record, and is visible with your name on computer terminal screens. Entry codes are required to add courses during the second week of the quarter.

#### Lecture/lab/quiz/conference
These are combined under one SLN for each possible combination of time and day. On STAR, when you register for a course SLN associated with a lecture, lab and/or quiz or conference, you will be registered for all the lecture, lab, quiz or conference combinations as listed under one SLN in the Time Schedule.

#### Alternate selections
If the section requested is closed you will be informed by STAR of open section alternates (including new sections added after the publication of the quarterly Time Schedule). You can then immediately select an alternate section to be added to your schedule. Have a pencil ready and be prepared to write down schedule line numbers (SLN) and meeting times of alternate sections.

#### 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 two time-conflicting courses, you must add the second course, in person, at the Registration Office, 225 Schmitz. Time conflicts of more than one hour a week require instructors' signatures for both courses involved.

### Entry codes

### Telephone Registration

#### General information

#### STAR transaction codes

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Add a course</td>
</tr>
<tr>
<td>D</td>
<td>Drop a course</td>
</tr>
<tr>
<td>L</td>
<td>Hear a spoken listing of your assigned courses</td>
</tr>
<tr>
<td>S</td>
<td>Check the open or closed status of a course</td>
</tr>
<tr>
<td>T</td>
<td>Terminate your call</td>
</tr>
<tr>
<td>G</td>
<td>List grades and GPAs</td>
</tr>
<tr>
<td>11</td>
<td>Account balance</td>
</tr>
<tr>
<td>12</td>
<td>Financial aid summary</td>
</tr>
<tr>
<td>13</td>
<td>Outside lender loan</td>
</tr>
<tr>
<td>14</td>
<td>Last received payment</td>
</tr>
<tr>
<td>15</td>
<td>Optional charges</td>
</tr>
<tr>
<td>0</td>
<td>Star key; used to separate data</td>
</tr>
<tr>
<td>#</td>
<td>Number sign key; used to send transactions that you enter</td>
</tr>
</tbody>
</table>

#### Star key: used to separate data

#### Star key: used to send transactions that you enter

#### If you make a mistake
If you make a mistake before finishing an entry, press the star key (*) first, and then the number sign key (#), and your entry will be discarded.

#### To speed up your registration
To expedite your registration, you may enter data during the voice response. Be cautious about doing this, since you may miss some important information.

#### Disconnect action
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. You may immediately call back to STAR.

#### Transactions
The transactions you enter on your touchtone telephone communicate to the computer what action to take (such as add a course, drop a course, check a section status, etc.) and what data you want considered. See the transaction code legend box at left.
Registration holds
If you have a hold on your registration, you will not be permitted to complete your registration 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.

E lecting S/NS grading option
You must register for a course on STAR, and then go in person to the Registration Office, 225 Schmitz Hall, to select the Satisfactory/Not Satisfactory grading option. S/NS may be elected through July 2 for full quarter and 4 Term courses and July 29 for 6 Term courses.

Audit
You may first register on STAR for the course you wish to audit, and then go in person to the Registration Office, 225 Schmitz Hall, to select the audit grade option. You may change to audit through the seventh week of the quarter. After the 10th class day a "W" and the week of the quarter in which the grade option change occurred will be recorded on your transcript. A $20 change fee is charged beginning the sixth class day.

Credit limitations
Undergraduates are 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.

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. To change variable credits beginning the sixth class day, an entry code is required to add the new course credits. After the 10th class day, changes are made at the Registration Office, 225 Schmitz Hall.

Section II on STAR worksheet
Since Section II requires selection decisions only during your first telephone call this quarter, you may proceed directly from Section I to Section III through Section IX in a random manner when making subsequent calls. STAR will not accommodate changes of your initial decisions in Section II. You must go in person to the Registration Office, 225 Schmitz Hall, or call (206) 543-8580, to modify selections. Faculty/staff or Washington state classified employees using a tuition exemption program, and branch campus students will not be asked to make decisions for Section II.

Merlin telephone
If using an AT&T Merlin telephone to call STAR, press the # sign key twice to send transactions.

Private access code to secure your registration and grade data
If, for any reason, you believe that another person might tamper with your registration or hear your grades and GPA on STAR and you want to avoid this possibility, you may go to the Registration Office, second floor, Schmitz Hall, and request a private access code (PAC). Ask for the Private Access Code (PAC) and identify the six digits you wish to use instead of your date of birth when accessing STAR each quarter.

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.

Follow these steps before calling STAR


Step 2: Academic advising is highly recommended, and it is suggested that you make an appointment with your advisor before selecting your courses. Use the Trial Schedule Form provided on the following page to draft your schedule.

Step 3: Obtain entry codes from departments for courses requiring entry codes.

Step 4: Organize your registration materials. Use the Time Schedule listing in this bulletin, pages 73-113, to obtain the schedule line number (SLN) for each course section. SLNs change every quarter. Develop your program on the Trial Schedule Form. Prepare an alternate course section list because some sections may be full. Complete the STAR Worksheet. By completing the work sheet before calling STAR, you will have all the information you need at your fingertips, and will reduce the chances of being disconnected.

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 Worksheet. You will be asked to provide information in Section II during your first telephone call to STAR. Always exit STAR using the "T" transaction followed by the number sign key (#), so that you can find out how to obtain your registration confirmation.

Step 7: Remember once you have initially registered, you can call STAR as often as you want to check the status of sections, view your confirmed schedule listed, add/drop courses, check your account balance, etc.
Plan your schedule on this form.

<table>
<thead>
<tr>
<th>Schedule line number</th>
<th>Entry code</th>
<th>Department abbreviation</th>
<th>Course number</th>
<th>Section</th>
<th>Credits</th>
<th>S/NS audit</th>
<th>Hour(s) class meets</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Monday</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Tuesday</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Wednesday</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Thursday</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Friday</td>
</tr>
</tbody>
</table>

Total credits

Continued from page 125

Admission status and how to register for UW faculty/staff and Washington state classified employees tuition exemption programs

Students enrolling under these exemption programs may attend class beginning the first class day if space is available. Please check with the department offering the course to determine the correct classroom location. The building and room number may have been changed by the department since the Time Schedule was printed.

**Admission status:** Matriculated-program participants who wish to enroll as new matriculated students or in a new matriculated category must apply to the Office of Admissions, 320 Schmitz Hall, by the regular admission closing date; May 15 is the closing date for Summer/Autumn applications. Students applying to the Graduate School must contact the applicable academic department for application information.

Nonmatriculated-program participants who are applying as new nonmatriculated students should apply at the Office of Admissions. Applications will be accepted up to the beginning of the quarter.

Returning students-program participants who are former students returning in the same classification or as nonmatriculated students should apply at the Registration Office, 225 Schmitz Hall. Applications will be accepted up to the beginning of the quarter.

**How to register:** If the tuition exemption request has been received by the Registration Office in time, program participants may call STAR on or after the appropriate eligibility dates listed on page 125. Registration continues through Sunday, June 28, on STAR without assessment of late fees. Effective Monday, June 29, a $25 late registration fee is billed if the student is initially registering for the quarter, and a $20 change fee is charged for registration changes. Students participating in the exemption programs will be billed these fees, if applicable, plus the registration fee when registration in a course is successful.

Students will not be permitted to convert to the tuition exemption program if they have already registered for Summer Quarter, and they will be required to pay regular tuition for those credits.

Students participating in these programs are not entitled to other student services such as those available at the Hall Health Center and the Intramural Activities Building. Therefore, UW student cards will not be issued to students enrolling under the faculty/staff or Washington state classified employee exemption programs. Faculty/staff identification cards may be used for library services. Washington state employees participating in the program may contact the Student ID Card Center in 229 Schmitz Hall for an ID card to be used for library services.
**University Of Washington**  
**Student Telephone Assisted Registration (STAR)**  
**Summer Quarter 1992 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)  
   (On UW campus call, 9-548-STAR)
2. Enter Quarter Code 3 = Summer
3. Enter your Student ID number: [ ] [ ] [ ] [ ] [ ] [ ] [ ]
4. Enter your birth date or assigned Private Access Code as six digits, followed by #: Example: 04 16 70 # for April 16, 1970. For security of your record, do not write your date of birth or Private Access Code on this work sheet.

II. You will only be asked to provide this information during your first call each quarter. Make sure your entry is 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 and Children Annual Insurance
2. ASUW membership [] Y = Yes  
   N = No
3. Contribute to Washington Student Lobby [] Y = Yes, add $1 for WSL to my bill  
   N = No
4. Contribute to WashPIRG [] Y = Yes, add $2 for WashPIRG to my bill  
   N = No
5. Address to use for Official UW mailings: [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]  
   L = Local Address  
   P = Permanent Address
6. Statement of Account  
   (Tuition and Fee Bill)
7. Grade Report

III a. To add courses NOT requiring Entry Code:

<table>
<thead>
<tr>
<th>Schedule Line Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>A [ ] [ ] [ ] [ ] [ ] [ ] [ ] [#]</td>
</tr>
</tbody>
</table>

You will be prompted to enter credits if course has variable credits.

III b. To add closed courses or courses requiring Entry Code:

<table>
<thead>
<tr>
<th>Schedule Line Number</th>
<th>Entry Code Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>A [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [#]</td>
<td>[ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [#]</td>
</tr>
</tbody>
</table>

Even if you receive an Entry Code from the department, you will not be able to add if the course is already overloaded to 115% of room capacity.

IV. To drop courses:

<table>
<thead>
<tr>
<th>Schedule Line Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>D [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [#]</td>
</tr>
</tbody>
</table>

You will be prompted to enter Entry Code if required to drop.

V. To list your schedule:

| L [ ] [ ] [ ] [ ] [#] |

Includes meeting days and times, building and room.

VI. To check course status: (Open/Closed)

<table>
<thead>
<tr>
<th>Schedule Line Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>S [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [#]</td>
</tr>
</tbody>
</table>

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.

VIII. Student Account and Loan Status Inquiries:

| 1 1 [ ] [ ] [ ] [ ] [#] |

To list current student account balance.

| 1 2 [ ] [ ] [ ] [ ] [#] |

To list summary of disbursed financial aid and aid check availability.

| 1 3 [ ] [ ] [ ] [ ] [#] |

To determine if outside lender loan funds are available.

| 1 4 [ ] [ ] [ ] [ ] [#] |

To list the latest recorded student account payment.

| 1 5 [ ] [ ] [ ] [ ] [#] |

To list this quarter's selected optional charges (WashPIRG, WSL, Insurance).

IX. To discard any partial entry and repeat previous message:

| [ ] [ ] [ ] [ ] [ ] |

X. To call STAR (terminate call) and receive information on Registration Confirmation and ID Cards:

| J [ ] [ ] [ ] [ ] [ ] [ ] |

7/31/90
Grades, Tuition and Billing

Grade information

Course withdrawals
Students who drop a course beginning with Registration Period IV (July 6-Aug. 7) will have a "W" recorded on the transcript.

Hardship withdrawal
Hardship withdrawals are for dropping individual courses only after the seventh week of the quarter. The $20 change of registration fee will be assessed. See section on Complete withdrawal from the University, page 138, for procedure to follow for dropping all courses for the quarter.

A student may petition the Registrar for a hardship withdrawal if: (1) the student is unable to complete the course in question because of a severe mental or physical disability, or (2) unusual or extenuating circumstances beyond the student's control prevented the student from dropping the course by the drop deadline. See the University of Washington General Catalog for complete information.

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 Registration in 225 Schmitz Hall to elect the S/NS grade option. STAR will not accommodate the S/NS grade option.

The S/NS grade option can be elected only through the 10th class day (July 29 for Fall Term). A $20 fee is charged beginning the sixth class day.

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. In cases of withdrawal, a W is recorded. N, I, and X are recorded until the instructor reports the final grade or, in cases of incompletes received by undergraduates, until the I is converted by the Registrar.

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, because the only grades assigned by the instructor are CR (credit) or NC (no credit). Neither CR nor NC is included in the grade-point average. In cases of withdrawal, a W is recorded. N, I, and X are recorded until the instructor reports the final grade or, in cases of incompletes received by undergraduates, until the I is converted by the Registrar.

Auditors
Students must register on STAR for courses they wish to audit and then select the audit option in person at the Registration Office, 225 Schmitz Hall. Students may select the audit option through the seventh week of the quarter. Attendance in courses as an auditor is by consent of the instructor involved and is conditional on the space available. 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, registered courses changed to audit after the second week of the quarter will be recorded on undergraduate academic transcripts with a "W" and a number designating the week of the quarter in which the course change occurred; for graduates and professional students a "W" will be recorded. 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.

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. A grade earned in a repeat course will not be recorded as an incomplete conversion grade. See the UW General Catalog on incomplete conversion deadlines.

Grade appeals
See the UW General Catalog for appeal procedure.

Tuition/billing information

Tuition forfeitures or refunds
Students will be billed for the number of credits, including audit hours, on their programs at the beginning of the quarter. Courses added after this date may result in additional fees. Only partial fee reductions will be made for full-quarter and Term b courses dropped after June 28. Term b courses dropped by July 29 still result in full refund of fee differential.

For each category of courses (full-quarter, Term a or Term b), there is a period during which students owe one-half the fees associated with dropped courses.

Type of course Half-payment period
Full-quarter June 29-July 10
a Term June 29-July 10
b Term July 30-Aug. 12

After these final dates, there is no reduction in the fees owed, due to drops or withdrawal. The effective drop date is the date the drop is processed on STAR or in Registration, 225 Schmitz.
**Tuition payment guidelines**

It is the student's responsibility to see that tuition is paid in full by the tuition due date (third Friday of each quarter). Bills are sent at the beginning of each quarter to facilitate payment. However, failure to receive a tuition bill does not nullify the student's responsibility for payment by the due date. Account balances are available through STAR. Students must select their permanent or local address on STAR for fee statement mailing, or call 543-3868 if they need to make a change of address. Students who have not received a fee statement by July 6 should contact the Student Accounts and Cashiers Office, or call STAR for the amount of tuition due.

Students may pay fees in person in the Student Accounts and Cashiers Office or mail them to UW, Student Accounts and Cashiers Office, 129 Schmitz, PE-10, Seattle, WA 98195, before the tuition due date. Fees must be paid by July 10 for all summer terms whether or not a billing statement has been received. Checks and money orders must be in U.S. dollars and drawn on a U.S. or Canadian bank. If a person other than the student is paying tuition, the student may use STAR by pressing 11# to determine if the account has been paid. Payments postmarked on or before the due date are accepted without a late fee. Mailed mail received after the due date is subject to the penalties described below.

If students fail to pay by the deadline, they may continue to pay their tuition the week following the due date, plus a late fee as follows:

<table>
<thead>
<tr>
<th>Past Due Balance</th>
<th>Late Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Over $250</td>
<td>$30</td>
</tr>
<tr>
<td>$30-$250</td>
<td>$10</td>
</tr>
<tr>
<td>Less than $30</td>
<td>$0</td>
</tr>
</tbody>
</table>

If payment has not been received in the Student Accounts and Cashiers Office by July 17, students' registrations will be canceled. Students permitted to reregister after cancellation for nonpayment will be charged a $75 fee, in addition to their tuition.

If reregistering, 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.) If students want to drop any course after reregistering, they may do so on STAR until Aug. 9 for a full-term course, July 10 for a Term, and Aug. 12 for 6 Term. A $20 change fee will be processed. No reregistration will be possible after the last day of instruction. 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 will be subject to an interest charge of one percent per month, or fraction of a month (12 percent A.P.R.), beginning with the month following the end of the quarter.

**Application of payments to a student's account**

As a rule, payments received for a student's account are applied to charges 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 Student Account 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.

---

**Summer tuition schedule**

*Tuition schedule subject to change without notice.*

**Undergraduate:** Resident and nonresident (including nonmatriculated and fifth-year)

<table>
<thead>
<tr>
<th>Full-time (More than 9 credits)</th>
<th>$758</th>
</tr>
</thead>
<tbody>
<tr>
<td>9 credits</td>
<td>$682</td>
</tr>
<tr>
<td>8 credits</td>
<td>606</td>
</tr>
<tr>
<td>7 credits</td>
<td>530</td>
</tr>
<tr>
<td>6 credits</td>
<td>454</td>
</tr>
<tr>
<td>5 credits</td>
<td>378</td>
</tr>
<tr>
<td>4 credits</td>
<td>302</td>
</tr>
<tr>
<td>3 credits</td>
<td>226</td>
</tr>
<tr>
<td>2 credits (minimum)</td>
<td>150</td>
</tr>
</tbody>
</table>

**Graduate and Law:** Resident and nonresident

<table>
<thead>
<tr>
<th>Full-time (More than 6 credits)</th>
<th>$758</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 credits</td>
<td>650</td>
</tr>
<tr>
<td>5 credits</td>
<td>542</td>
</tr>
<tr>
<td>4 credits</td>
<td>434</td>
</tr>
<tr>
<td>3 credits</td>
<td>326</td>
</tr>
<tr>
<td>2 credits (minimum)</td>
<td>218</td>
</tr>
</tbody>
</table>

**Medical and Dental**

<table>
<thead>
<tr>
<th>Resident</th>
<th>Nonresident</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full-time (More than 12 credits)</td>
<td>$1,916</td>
</tr>
<tr>
<td>12 credits</td>
<td>$1,769</td>
</tr>
<tr>
<td>11 credits</td>
<td>1,622</td>
</tr>
<tr>
<td>10 credits</td>
<td>1,475</td>
</tr>
<tr>
<td>9 credits</td>
<td>1,328</td>
</tr>
<tr>
<td>8 credits</td>
<td>1,181</td>
</tr>
<tr>
<td>7 credits</td>
<td>1,034</td>
</tr>
<tr>
<td>6 credits</td>
<td>887</td>
</tr>
<tr>
<td>5 credits</td>
<td>740</td>
</tr>
<tr>
<td>4 credits</td>
<td>593</td>
</tr>
<tr>
<td>3 credits</td>
<td>446</td>
</tr>
<tr>
<td>2 credits (minimum)</td>
<td>299</td>
</tr>
</tbody>
</table>

*The additional fee per credit hour for more than 18 credits does not apply to Summer Quarter.*

This tuition schedule does not reflect full-time load requirements for loan deferments, teaching assistantships, or other programs. For more information, consult the section titled Full-Time Student Requirements, page 139.

**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 added instructional or laboratory costs.
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
The Halbert Robinson Center for the Study of Capable Youth each summer offers high school level courses in English (analytical reading), history, geography, mathematics, chemistry, and biology for students who have completed the seventh, eighth, or ninth grades. The program, which in 1992 will have three weekly class meetings of five hours each from June 22 to July 23, allows a student to complete the equivalent of a full academic year of study in one subject.

Some high schools award credit for these courses; for more information, students or parents can call the center at (206) 543-4160.

Besides vigorous academic challenge, the capable youth summer program provides students with the opportunity to complete high school requirements earlier.

Admission is based on the students' performance on the Scholastic Aptitude Test (SAT) or Washington Pre-College Test (WPCT). Some students have taken the SAT through the Johns Hopkins Talent Search; the WPCT can be taken at the center. The cost is $435 per student; scholarships and payment plans are available. The application deadline is May 15; late applicants will be accepted on a space-available basis.

The center also offers a two-part program for bright young people who are ready for college-level work before they enter high school. The program is for the few extraordinary students (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 15 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.

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 15. 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 Admissions, PC-30, Seattle, WA 98195:

- 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 $25 application fee.

Students who graduate from high school in 1992 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 undergraduate course fees (page 131).

Students should also review the information on pages 118-120, 122-131, and 133-139. 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 Arts and Sciences Central Advising Office, (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.

Evening and correspondence courses
High school students can also supplement their high school coursework and earn college-level credit with the evening credit classes and correspondence study available through UW Extension. Independent Study by Correspondence courses are listed on pages 115-116. For information about evening credit classes, refer to the quarterly UW Extension catalog, available by calling (206) 543-2230.
UW Student Services and General Information

Academic advising
Students planning on continuing their summer studies into Autumn Quarter and beyond are encouraged to see an academic adviser to discuss educational objectives and assess progress toward completion of degree requirements. For information regarding registration, course restrictions, requirements, etc., see an adviser or staff member in Arts and Sciences Advising, 9 Communications, (206) 543-2550; call UW Extension and Summer Quarter 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. Summer-only students, or those who plan to complete degrees elsewhere, do not need to see an academic adviser. If they have questions, they are free to call any of the above numbers.

Address change telephone service - call 543-3868
Students are responsible for notifying the Registrar's Office when their addresses change. An Address Change Telephone Answering Service is available 24 hours a day, seven days a week, for changes of local and permanent addresses and telephone numbers, restricting release of directory information, and where to mail registration confirmations and ID cards, tuition billing statements, and final grades. Students should always leave a forwarding address with the U.S. Postal Service whenever they move. Addresses may also be changed at the Registration Office, 225 Schmitz Hall.

If you have applied for financial aid, you must also report your address change to the Office of Financial Aid.

Bookstore
Textbooks and supplies for all courses may be purchased at the University Book Store, 4326 University Way NE. (hours: Monday through Saturday, 9 a.m.-8 p.m.; Thursday, 9 a.m.-9 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 and marine 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) 272-8080. 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) 666-3300.

Burke Memorial Washington State Museum
The recently renovated Burke Museum is a natural history museum with collections numbering well over four million specimens. Long-term exhibits focus on the natural and cultural heritage of the Pacific Region. Many special exhibits are featured throughout the year.

Hours: Monday through Friday, 10 a.m. to 5 p.m.; Thursdays, 10 a.m. to 8 p.m.; and Saturdays and Sundays, 10 a.m. to 5 p.m. The cafe is open Mondays through Fridays, 7 a.m. to 8 p.m., and Saturdays and Sundays, 9 a.m. to 5 p.m.

Location: The museum is located near the 17th Ave. NE and NE 45th St. entrance to the campus.
Telephone: (206) 543-5990.
Admission: By donation, requested $2.50. Free for UW students and senior citizens.

Center for Career Services
The Center for Career Services provides comprehensive career and job search information and services for students and alumni to facilitate their transition from academic programs of the UW to the broader society. 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, a Minority Job Placement Program, on-campus interviews, job opportunity bulletins, a placement/credential file service, and career and degree-related summer jobs/internships. To participate in the on-campus interview program, students must attend an orientation session. For more information, please come to the Center for Career Services at 301 Loew Hall, FH-30, or call (206) 543-0355.

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, the Student Union Building (HUB), and the South Campus Center. For more information, visit the Childcare Coordinating Office, 466 Schmitz. Telephone: (206) 543-1041.

Computing services
UW Computing & Communications supports computing for instruction and research for the entire campus. Students, faculty, and staff can use computers for coursework and independent research projects; or write their own programs or use existing programs for statistical analysis, managing data, graphics, and many other applications. IBM-compatible or Macintosh personal computers are also available for use.

UW Computing & Communications also offers noncredit classes in general computer knowledge, programming, selecting microcomputers, using available resources, and other topics. A list of courses can be obtained by calling (206) 685-2763.

UW Computing & Communications maintains a central facility at 3737 Brooklyn Ave. NE. Computer sites also have been installed in some residence halls. For a complete list of remote sites, or information about services or class schedules and fees, or a copy of The Guide to Computing, call (206) 543-5970.

Correspondence study
Many UW courses are available by correspondence. You can study wherever you are, on your own schedule. You have as much as a year to complete a course. Independent Study by Correspondence courses are listed on pages 115-116. For more information or an Independent Study by...
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Housing

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Counseling Center

All matriculated students (carrying nine or more hours) at the University may use the services of the Counseling Center and its staff of psychologists and vocational counselors to discuss educational progress, personal adjustment or career goals.

A free intake appointment is available to determine if the Counseling Center's services are needed. Individual and vocational counseling appointments cost $10 each. For students financially unable to pay the fee, efforts are made to find other alternatives. The center is located in 401 Schmitz Hall. Telephone: (206) 543-1240.

Disabled students

Various support services, including priority registration, are available to students with disabilities. Contact the Coordinator for Disabled Student Services (DSS), 482 Schmitz, (206) 543-8924, (206) 543-8925 voice and TDD, for information on equipment services, accessibility, and accommodations to meet individual needs.

Students with disabilities who require special accommodations for science labs, internships, etc., should contact the DSS Director and the academic adviser of that department for appropriate services.

The STAR Work Sheet and instructions are available from DSS in alternate media, including tape recording and large print. Students with disabilities which would limit their ability to use STAR may register through DSS or at the Registration Office, 225 Schmitz Hall.

Financial aid

Students who need financial assistance during Summer Quarter should inquire at the Office of Student Financial Aid, 105 Schmitz, telephone (206) 543-6101, concerning Pell Grant eligibility for summer and the Guaranteed Student Loan (through a private lender, bank, or credit union). In order to be eligible for any type of need-based aid, a student must be a regularly admitted, matriculated student. Students who wish to apply for a Summer Quarter Guaranteed Student Loan should begin the application process with the Office of Student Financial Aid in early spring. Student loans can take between three and four months to arrange.

Campus housing

To obtain an application for housing for Summer Quarter, contact the Housing and Food Student Services Office, 301 Schmitz Hall, PC-50, University of Washington, Seattle, WA 98195. Telephone: (206) 543-4059.

Friday Harbor Laboratories

Friday Harbor Laboratories in the San Juan Islands provide year-round facilities for research in various areas of marine science.

Because of the nature of the courses offered at the Friday Harbor Laboratories and the amount of time devoted to the laboratory studies and to field work on board the research vessels, the schedule for Summer Quarter extends over a 10-week period, June 15-Aug. 22, and is divided into two terms of five weeks each. The schedule for this summer includes coursework in marine botany (intermediate and advanced), invertebrate zoology (intermediate and advanced), comparative invertebrate embryology, fisheries, and oceanography. All formal courses are offered during either the first or second term and meet for five and one-half days each week; seminars, research courses, and thesis supervision may be available through academic departments during both terms. A full program

of study can be made up of formal courses and/or research; call academic departments for information.

Although the program of instruction is primarily for graduate students, advanced undergraduate students may be admitted with the consent of the director and professors of the courses for which they wish to register. Preference is given to students who register for at least 12 credits and expect to remain in residence for the entire Summer Quarter.

Application for admission to the Friday Harbor Laboratories must have been made to the director before Feb. 1 for all investigators and Spring Quarter students and before March 1 for Summer Quarter students.

Requests for additional information and all correspondence concerning application, courses, research facilities, and room and board costs should be addressed to the Director, Friday Harbor Laboratories, 620 University Road, Friday Harbor, WA 98250. A bulletin is available on request.

Henry Art Gallery

The Henry Art Gallery, donated by Seattleite Horace C. Henry in 1926, is the University of Washington's art museum.

Hours: Tuesday through Friday, 10 a.m. to 5 p.m.; Saturday and Sunday, 10 a.m. to 5 p.m.; and Thursday, 10 a.m. to 9 p.m. It is closed Mondays.

Location: The gallery is located near the 15th Ave. NE and NE 41st St. entrance to campus. Telephone: (206) 543-2280.

Admission: UW students, faculty, and staff, children ages 11 and under, and Henry Gallery Association Members, free; non-UW students and senior citizens, $1.50; general admission, $3. Admission to the gallery is free to all on Thursdays.

Housing

Residence halls

Convenient accommodations are available during Summer Quarter in the residence halls. A limited number of parking spaces are available for an additional fee.

Half- and full-quarter accommodations: For single students staying at least one half-term, accommodations are usually provided in double occupancy rooms. Some single rooms are available at a higher rate. Each room is furnished with twin beds. Bathrooms are shared. Students provide their own linens.

Accommodations in a double room, with a dining plan, costs approximately $1,000 for the full quarter.

To obtain an application for housing for Summer Quarter, contact the Housing and Food Student Services Office, 301 Schmitz Hall, PC-50, University of Washington, Seattle, WA 98195. Telephone: (206) 543-4059. 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.

Workshop and short course accommodations: If you will be attending a Summer Quarter or Extension program that does not follow the a or b Term or full-quarter schedule, you can obtain on-campus housing on a space-available basis through the Conference Housing and Special Services Office, McCarty Hall, GR-10, University of Washington, Seattle, WA 98195. Telephone: (206) 543-7636. Rooms are available June 22-Sept. 8.
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 $29. Special rates apply for those
sharing rooms and for those staying longer than two weeks.

For more information about the on-campus accommoda-
tions 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 can­
not be mailed out and must be consulted in person.

**Language Learning Center**

The Language Learning Center is a resource within the
College of Arts and Sciences that provides support for the
teaching and learning of languages. Services include: facil­i-
ities for listening to language cassette tapes (with the capa-
bility of individual recording and replay); sale of pre­
recorded cassettes for home study; major language courses
only); language duplication on a student's cassette; and self-
paced language instruction. The center also features a Lan-
guage Corner, a multi-purpose environment for enhanced
language learning including conversation tables, film, cable
and video viewings and other activities. The center is located
in 108 Denny; the lab is in 113 Denny. Telephone: (206) 543-
0356.

**Libraries**

The University of Washington Libraries are composed of the
Suzzallo Library and the Allen Library, with collections pri-
marily in the social sciences and humanities; the Odegaard
Undergraduate Library; the Health Sciences Library and In-
formation Center; the East Asia Library; and 17 specialized
branch libraries.

All students, staff, faculty and other researchers with valid
University identification cards may borrow from these li-
braries. 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 cir-
culation desks.

Reference service is available in all library units for users
needidng information about library facilities, services and
research with problem. Formal instruction ses-
sions in the use of library resources and group orientation
tours of individual libraries are scheduled throughout the
year.

The Summer Quarter hours for the libraries are available at
all circulation desks. Telephone: (206) 543-0140.

**Medical care**

The University provides outpatient health and medical care
for students through the Hall Health Center. All undergradu-
ate and graduate students, registered for full- or part-time
courses and paying student fees, are eligible for health ser-
vice upon presentation of a current University student iden-
tification card. Students must pay for pharmacy prescrip-
tions, mental health services, physical examinations, and
some other services as well as for outside laboratory work.
Services provided through the Hall Health Center should
not be confused with the student health insurance, available
through the University and purchased at the time of regis-
tration (see page 136). A student may use Hall Health Cen-
ter services without having student insurance. For details,
consult the Hall Health Center brochure. Telephone: (206)
685-1011.

The University Hospital Emergency Room handles emer-
gencies when the Health 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 di-
ing the emergency call number, 9-911. University Hospi-
tal 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 Hospi-
tal emergency room care.

**Minority affairs**

The Educational Opportunity Program, administered by the
Office of Minority Affairs, provides a variety of services to
students from minority and economically disadvantaged
backgrounds. These services include recruitment, admis-
sions, academic advising, tutoring, personal and career
counseling, housing and financial aid advising, and other
assistance. For more information, call (206) 543-6598.

Educational Opportunity Program counselors are available
on the third floor of Schmitz Hall, Monday through Friday,
from 8 a.m. to 5 p.m. Those who would like to discuss the
possibility of enrolling in the University, whether for Sum-
mer Quarter or some other quarter, are welcome; no appoint-
ments are necessary.

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, located at 1307 NE 40th St, open Monday through
Friday from 8 a.m. to 5 p.m. Telephone: (206) 543-4240.

The Ethnic Cultural Center and Theatre offer a variety of
educational, cultural, and performing arts programs for stu-
dent and community participation.

**Parking for students**

The University encourages alternate forms of transportation.
During Summer Quarter, carpooling spaces are available in
the Central Plaza Garage, Padsford Garage, Level N-18, and
Parking Area N-5 for vehicles with three or more persons
arriving after 7 a.m. (depending upon space availability).
Daily parking fee for carpools is $1 in those garages and is
payable upon entry. If the single occupant vehicle is the only
option available, student parking is available on a daily pay
basis in Montlake Parking Area E-1 for 75 cents, and E-4 and
E-5 for 50 cents.

Summer Quarter permits (automobiles $48 per quarter, cycles
$9 per quarter or $36 per year) may be purchased the first
day of the quarter at the Parking Division, 3901 Uni-
versity Way NE. Student ID validated for the Summer Quar-
ter is required. Limited permit parking adjacent to the resi-
dence halls is available for students living in the halls and
may be purchased for the term or the quarter at a higher rate
than commuter parking. All parking rates are subject to
change. For a brochure, call (206) 685-1543.
Disabled students with a confirming letter of disability from Hall Health Center may apply to the Parking Division for assignment to parking in areas convenient to class locations. A free campus shuttle bus for disabled students is also available. Call (206) 685-1511 for information.

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) 543-8579; and the Waterfront Activities Center (WAC), (206) 543-9433. For information about operational hours and activities offered, call the telephone numbers indicated above.

Intramurals provide an opportunity for students and faculty/staff to participate in special events, leagues, and tournaments such as flag football, 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 18, 1992. Contact the Sports Skills Office at (206) 543-2571 for more information.

Sports Clubs 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 $17.25, beginning Tuesday, May 26, 1992. 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, 4:30-6:30 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 beginning Saturday, June 27, 1992. Remember, you must retain your Spring Quarter Student ID Card to purchase summer facility use privileges.

Student affairs
The Vice President for Student Affairs is responsible for a range of services designed to address the extracurricular needs and interests of University students and to foster their general welfare. The services offered include admissions and registration, financial aid, counseling, housing and food, as well as placement, supervision of student activities and recreational programs, among others. In addition, the vice president advises the president and other University officers on student issues and concerns.

Students are encouraged to contact the Vice President’s Office, 476 Schmitz, telephone: (206) 543-4072, for additional information on the services mentioned above or other aspects of campus life.

Student associations
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 $1 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 $2 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.

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. A student’s membership choice will not affect tuition payment in any way. Information about the ASUW can be obtained from the ASUW Office in Room 204L Student Union Building.

Student Employment Office
The Student Employment Office, a division of the Office of Student Financial Aid, 172 Schmitz, has job listings for part-time, temporary, and summer jobs, most of which are off campus. Currently registered students and those who graduated in the past quarter are welcome to use this service.

Student insurance
The University offers a voluntary accident and sickness insurance plan to supplement the services available at the Hall Health Center. Seattle campus students (except nonmatriculated students and those enrolled in programs administered by UW Extension and UW faculty/staff or Washington state classified employees attending classes under the employee tuition exemption program) who remain registered through at least the first six days of instruction in the quarter are eligible to enroll in the plan.

Students may sign up for the plan when they register for classes. If students are registered for classes by their academic departments, and no plan is indicated, they will be enrolled in the student-only quarterly plan. The insurance premium will be included on the quarterly tuition statements and must be paid by the quarterly tuition due date. In most cases, financial aid will not pay insurance directly so students must make sure the premium is paid on time. There is no late payment period for the insurance premium.

If students are billed for student insurance and wish to add, cancel, or change coverage, they should complete the appropriate section on the remittance advice copy of the billing statement and pay the revised amount, or make payment in person at the Student Accounts and Cashiers Office by the tuition due date. Changes to student insurance may be made by calling the Registration Office, (206) 543-8380, prior to the sixth class day of the quarter.
International students must subscribe to the student insurance plan unless they are covered by another plan. Summer-only nonmatriculated students and students admitted for Summer/Autumn must submit proof of coverage to the International Services Office by July 12. Waivers for continuing students who have already presented proof of coverage for the current academic year (Autumn 1991 through Spring 1992) are valid through Summer Quarter. Students holding insurance policies that expire during the academic year are responsible for obtaining new waivers, as necessary.

Brochures describing the plan in more detail are available at the Hall Health Center, the HUB, and the second floor information window in Schmitz Hall. Plan benefits may change each academic year, so students are encouraged to review the brochure carefully.

**Student Union Building**

The Student Union Building (HUB) facilities include the Husky Den, which provides food service from 7 a.m. to 4 p.m.; the games area, in the basement; a campus-wide lost and found; an information center; meeting rooms; study lounge; music listening lounge; ticket office; and an art gallery exhibiting student work.

Other services include a self-service postal vending station; a micro-computer lab; a branch of U.S. Bank offering limited services; two cash machines; a bike repair shop; a carpool listing; an off-campus housing center; and a branch of the University Book Store. Telephone: (206) 543-8131.

The South Campus Center is a branch of Student Activities and Union Facilities, and offers many of the same services as the HUB. It is located on Portage Bay. Telephone: (206) 543-0530.

**Transit**

Buses commute daily through the campus and to the University district. Several buses come onto campus and stop along Stevens Way at five different bus stops. Other stops are located on Montlake Blvd., NE Pacific St., 15th Ave. NE, University Way, or NE 49th St. Timetables are available at Information Centers at the HUB and South Campus Center. Information can be obtained by calling Metro, (206) 553-3000. Buses to the UW Campus are also scheduled by Community Transit (Snohomish County). Call (206) 778-2185 for information.

**U-PASS**

A U-PASS validation sticker is mailed with students' registration confirmation each quarter. The U-PASS is valid on all Metro and most Community Transit routes at all times and provides parking privileges to carpoolers, riding privileges to vanpool and Night Ride passengers, and merchant discounts. The quarterly fee of $20 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 tuition payment, or returned in person at the Student Accounts and Cashiers Office.

Students who withdraw through the seventh calendar day of the quarter without returning the U-PASS sticker will owe $75 for the U-PASS. Students who withdraw after the seventh calendar day will be charged the applicable tuition and may retain the pass for $20 or return it no later than the tuition due date to have the $20 fee waived. There will be no U-PASS refunds after the tuition payment deadline.

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 the first week of the quarter. Replacement stickers issued after the first week will cost $10. Lost ID cards bearing a U-PASS sticker will be replaced for a $15 fee, which includes a new U-PASS sticker. Replacement fees are nonrefundable. Students issued replacement stickers will not be permitted to cancel the $20 U-PASS fee by returning a sticker.

Students who have not already purchased a U-PASS sticker may do so at the Registration Office, 229 Schmitz, any time during the quarter. The fee will remain $20 throughout the quarter.

The U-PASS is not transferable. The U-PASS program and replacement policies are subject to change without notice.

**General Information**

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**Veterans information**

Veterans and military personnel who entered military service on or after Jan. 1, 1977, may be entitled to educational benefits from the Department of Veterans Affairs. Those individuals with active duty prior to the above date may have eligibility under certain exceptional circumstances.

Veterans receiving compensation for a service-connected disability may be eligible for educational benefits under the Vocational Rehabilitation Program.

Children and spouses of certain deceased or disabled veterans are also entitled to assistance.

Students who enlisted in the selected reserve for a period of six years or more on or after July 1, 1985, are entitled to a modified benefit program.

Individuals who are eligible or have questions concerning eligibility should contact the Office of Special Services for more information.

**Tuition and fee exemptions and reduction for veterans**

Veterans who served in Southeast Asia or had service during World War II are eligible for reduced tuition. Children of a parent who was a Washington resident who was declared to be in POW or MIA status after Feb. 19, 1961, are eligible for tuition and fee waivers under certain conditions. Check with the Office of Special Services for more information.
### University Policies

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The University and its colleges and schools reserve the right to charge fees, rules, and the calendar regulating admission and registration, instruction in, and graduation from the University and its various divisions; and any other regulations affecting the student. The University also reserves the right to withdraw courses and programs at any time.

**Class attendance guidelines**

To provide enrollment space for others, students who do not attend regularly scheduled class meetings during the first week of the quarter are subject to being dropped at the discretion of the teaching departments. Affected courses may be identified in the *Time Schedule* and posted in departmental offices.

Students must not assume that departments will automatically initiate a drop for nonclass attendance. Students who register for courses they do not attend are responsible for officially dropping the courses through the Registrar's Office. The consequence of not officially dropping courses is a 0.0 grade.

Students should contact the instructor or teaching department if they plan to be absent any day during the first week of the quarter.

No person, other than a faculty member attending informally with the approval of the instructor, may attend a University course in which that person has not been officially registered through the Registrar's Office. An instructor may allow a student to attend his or her class only if the student's name appears on the official class list from the Registrar's Office. Instructors may permit students attending class under a faculty/staff tuition exemption or the Washington state classified employee tuition exemption program to attend class prior to registration on Wednesday or Thursday respectively of the first week of the quarter provided space is available.

**Complete withdrawal from the University**

### Dropping all courses for the quarter

It is the student's responsibility to withdraw completely if he or she is unable to attend for the quarter. Students must write the Registration Office, 225 Schmitz Hall, 10-10, University of Washington, Seattle, WA 98195, or withdraw in person at 225 Schmitz Hall. Complete withdrawal for the quarter is not available via STAR. Withdrawals by mail are effective on the date of the postmark.

Tuition owed will be based upon the date the complete withdrawal is received in person at the Registration Office, or the postmark date for withdrawals received by mail. No withdrawals are accepted after the last day of instruction for the quarter.

Students who withdraw before the first day of the quarter will be required to submit a former student application to the Registration Office by the published deadline. 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 are not recorded on the student's UW transcript; however, the date of the complete withdrawal is recorded.

Students are required to turn in their student ID cards when they withdraw from the University and are not eligible to continue using University services or facilities after their withdrawal.

Continuing students who withdraw during the first week of two consecutive quarters (Summer Quarter excepted) will not be eligible to register as continuing students for the third quarter. Such students must reapply as former students returning to the University. For example, a student who withdraws during the first week of Spring Quarter and Autumn Quarter must reapply as a returning former student for Winter Quarter.

**The forfeiture schedule for completely withdrawing from the University is as follows:**

- Students withdrawing before the sixth day of the quarter do not pay tuition. New and returning students forfeit their $50 enrollment confirmation deposit.
- Students withdrawing in the second and third week continue to owe one-half of their tuition.
- Students withdrawing after the third week 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 of that course by contacting the ESL Office in 102 Lewis Hall at the same time they withdraw from the University.
- Students who drop classes in the second or third week of the quarter that result in lower tuition, will owe one-half of the tuition associated with the reduced credit hours.

**Following rules and regulations**

It is the University's expectation that a student will follow University rules and regulations as they are stated in the General Catalog. In instances where no appeal procedure is spelled out and the student believes that a special set of circumstances makes appeal reasonable, he or she may appeal
the application of specific rules or regulations in an academic matter to the office of the dean of the school or college in which he or she is enrolled, or in a nonacademic matter to the Office of Student Affairs. These offices will either render a decision on the appeal or refer the student to the proper office for a decision.

**Full-time student requirement**

To be considered full-time, an undergraduate or professional student must register for 12 or more credits and a graduate student must register for 9 or more credits.

It is important to note that differing criteria and standards for full-time enrollment exist for eligibility in certain programs, e.g., veterans benefits, athletic eligibility, Bureau of Indian Affairs, Vocational Rehabilitation, and various forms of financial aid. Information on full-time requirements of the Department of Veterans Affairs may be obtained at 460 Schmitz, or by calling (206) 543-6122. Consult the Financial Aid Office at 105 Schmitz, or by calling (206) 543-6101, for its requirement on satisfactory student progress.

Full-time immigration and naturalization requirements may be obtained at the International Services Office, 459 Schmitz, or by calling (206) 543-0840.

**Registration tampering**

A student who tampers or attempts to tamper with the registration records of another student, including but not limited to dropping courses and adding courses, may be subject to disciplinary sanctions as defined in the Student Conduct Code (WAC 478-120).

**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 either of the two offices listed below:

- Ombudsman for Sexual Harassment, (206) 543-0283
- Human Rights Office, (206) 543-7217

Personnel in these offices will be available to discuss and provide assistance in resolving the complaint.

**Student directory information**

The University will routinely release student directory information, unless requested otherwise by the student. Directory information is defined as student's name, address, telephone number, place of birth, major field of studies, weight and height of members of athletic teams, dates of attendance, degrees and awards received, and the most recent previous educational institution attended by the student. If you do not wish to authorize directory information release and do not want your name and address to appear in the Student Directory, you may call the address change service at (206) 543-3868 to restrict access to this information. If you wish to change your authorization and allow release, you must go to the Registration Office, 225 Schmitz and present identification.

**Undergraduate satisfactory progress**

Students admitted to the University to pursue baccalaureate degrees are expected to make satisfactory progress toward the attainment of that degree, and are expected to enter upon graduation after completion of a reasonable number of credits. Refer to the General Catalog for additional information.

**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. 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.

**Notice to students of their privacy rights**

Under the provisions of the Family Educational Rights and Privacy Act (FERPA), students have the right to: 1) inspect and review information contained in education records, 2) challenge the contents of their education records, 3) 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.

**University Policies**

- Following rules and regulations (con't)
- Full-time student requirement
- Registration tampering
- Sexual harassment grievance procedure
- Student directory information
- Undergraduate satisfactory progress
- Disclosure of student records
- Notice to students of their privacy rights
Guide to Classroom Locations

The three letter abbreviation is spoken on STAR and accompanied by the classroom number when the list schedule transaction (L8) is performed. The classroom abbreviation is also printed with the classroom number on your printed registration confirmation.

ACC Academic Computing Center (13-C)
ADM Administration Building (10-G)
AER Aerospace and Engineering Research Building (12-I)
AND Anderson Hall (15-H)
ARC Architecture Hall (11-F)
ART Art Building (6-I)
ATG Atmospheric Sciences-Geophysics Building (12-G)
BAG Bagley Hall (13-G)
BGH Botany Greenhouse (14-F)
BLD Blood Hall (15-H)
BLM Balmer Hall (5-H)
BMM Burke Memorial Washington State Museum (4-F)
BNS Benson Hall (13-G)
BRY Bryant Building (14-A)
CAB* Cabrini Hospital
CDC Child Development and Mental Retardation Center (19-H)
CHL Chemistry Library Building (12-F)
CDH Condon Hall (9-B)
CLF 3731 University Way NE (14-D)
CLK Clark Hall (7-J)
CMA* Ceramic and Metal Arts Building
CMH* Con Bera Mental Health
CMU Communications Building (8-I)
CNH Canoe House (19-M)
COH* Children's Hospital
CQS Center for Quantitative Science (15-D)
CSB Seattle Central Community College
CSH Conibear Shellhouse (13-M)
CTU Clinical Training Unit (within CDC) (19-H)
DEN Denny Hall (6-G)
DSC 3939 University Way NE (11-D)
ECC Ethnic Cultural Center (11-C)
EDP Edmundson Pavilion (14-L)
EEB Electrical Engineering Building (13-I)
EEU Experimental Education Unit (within CDC) (19-H)
EGA Engineering Annex (12-J)
EGL Egleson Hall (7-E)
ELB Engineering Library (11-J)
EMC* Eastside Mental Health Center
EVH* Evergreen Hospital
FIS Fisheries Center (18-G)
FLK Fluke Hall (10-K)
FRH* Friday Harbor Laboratories
FST* Fox Sunset Home
FTR Fisheries Teaching and Research Building (14-B)

GA1 Guthrie Annex 1 (12-E)
GA2 Guthrie Annex 2 (11-E)
GA3 Guthrie Annex 3 (11-E)
GDR* Golf Driving Range
GHM* Group Health Hospital
GLD Gould Hall (11-D)
GTH Guthrie Hall (12-F)
GUG Guggenheim Hall (11-I)
GWN Gowan Hall (9-H)
HAG Henry Art Gallery (9-E)
HCK Hitchcock Hall (Biological Sciences Building) (14-E)
HHL Harris Hydraulics Laboratory (17-E)
HLL Hall Health Center (9-K)
HM*C Harborview Medical Center
HMH* Harborview Community Health Center
HND Henderson Hall (10-A)
HPH Hughes Playhouse (9-D)
HRC* Fred Hutchinson Cancer Research Center
HS2 Magnuson Health Sciences Annex 2 (16-F)
HSA Health Sciences Building wings A, B, and C (16-G)
HSB Health Sciences Building wings AA and BB (17-H)
HSD Health Sciences Building wings D, E, F, G, and H (16-F)
HSI Health Sciences Building wing I (16-F)
HSJ Health Sciences Building wing J (15-E)
HSR Health Sciences Building wing RR (18-H)
HST Health Sciences Building wing T (15-G)
HUB Student Union Building (10-J)
HUT Hutchinson Hall (5-I)
HWS* Highline-West Seattle Mental Health Center
ICH Cunningham Hall (11-F)
ICT Instructional Center/Theater (10-C)
IMA Intramural Activities Building (12-M)
JHA Johnson Annex A (11-G)
JHN Johnson Hall (11-H)
KHD* King County Health Department
KIN Kincaid Hall (13-F)
KLN* Kline Galland Nursing Home
KNE Kane Hall (8-G)
LEW Lewis Hall (6-J)
LOW Loew Hall (11-J)
MAR Marine Studies Building (14-C)
MDG* Madison General Hospital
MEB Mechanical Engineering Building (12-J)
MKZ Mackenzie Hall (6-H)
MNY Meany Hall (10-F)
MLR Miller Hall (8-I)
MOR More Hall (14-I)
MSB Marine Sciences Building (14-C)
MUE Mueller Hall (formerly Roberts Underground) (14-I)
MUS Music Building (7-I)
NOC Not on Campus
NPL Nuclear Physics Laboratory (4-K)
NRB Nuclear Reactor Building (13-J)
NSC* North Seattle Community College
NSM* Northshore Manor
OBS Observatory (4-G)
OCE Oceanography Building (18-F)
ORB Ocean Research Building (16-D)
OTB Oceanography Teaching Building (16-E)
OUG Odgegaard Undergraduate Library (9-F)
OVL* Overlake Hospital
PAR Parrington Hall (8-F)
PDL Padelford Hall (8-J)
PHF* U.S. Public Health Hospital
PHY Physics Hall (11-H)
PLT Plant Laboratory (14-C)
PMC* Pacific Medical Center
PSC* Pacific Science Center
PTH Penthouse Theater (4-H)
RAI Raitt Hall (7-H)
RCC* Ravenna Convalescent Center
ROB Roberts Hall (14-J)
SAV Savery Hall (8-G)
SDP* Seattle Doctors Pavilion
SCH* Seattle General Hospital
SHC* Shoreline Community College
SHD* Snohomish Community Health Department
SIG Sieg Hall (11-J)
SKV* Skagit Valley Community College
SMH* Seattle Mental Health Center
SMI Smith Hall (9-H)
SMZ Schmitz Hall (9-D)
STC* Seattle Treatment Center
STV* Stevens Memorial Hospital
SUZ Suzzallo Library (10-H)
SWH* Swedish Hospital
SWS Social Work/Speech and Hearing Sciences Building (8-E)
TGB Graves Building (13-L)
THO Thomson Hall (9-I)
UMC University Medical Center wings CC, EE, NE, NN, NW, SE, SS, and SW (18-H)
UME University Medical Center wings EA, EB, and EC (18-I)
VAG* Veterans Administration Hospital
VGH* Valley General Hospital
VMH* Virginia Mason Hospital
WCL Wilson Ceramic Laboratory (15-J)
WFS Winkenwerder Forest Science Laboratory (15-I)
WIL Wilcox Hall (14-J)
WLN* Wintonia House
WLS* Wilsonian Ballroom

* Off-campus facilities
() Map coordinates
Directory of Information Sources

**Academic and administrative offices**

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</tr>
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<td>Veterans Affairs, Office of Special Services</td>
<td>543-6122</td>
</tr>
<tr>
<td>Summer Quarter Office</td>
<td>5001 25th Ave. NE</td>
</tr>
</tbody>
</table>

**Telephone Audio Library Information System (TALIS)**

TALIS is a touchtone telephone audio library service of the University of Washington that answers most commonly asked questions. These messages are free, although there will be a charge if you are calling long distance.

How to use TALIS
1. Using a touchtone telephone, call TALIS at 543-9000.
2. After the greeting, press the 4-digit code followed by # associated with the information you desire.
3. You may go directly to another message at any time by pressing the associated 4-digit code followed by #.
4. When you are finished, just hang up.
5. Our courteous staff will be happy to answer any additional questions, 8 a.m.-5 p.m., weekdays.

**TALIS codes**

**Admissions**
1101# Admission information

**Graduation**
2101# Graduation application dates and information

**Military/civil service tuition exemptions**
2111# Previous Washington residents currently on active duty out-of-state
2112# Active duty military stationed in Washington

**Registration**
2121# How to add and drop courses
2122# Address change information
2123# Enrollment verification and loan deferments

Quarterly academic calendar:
2124# Autumn Quarter
2125# Winter Quarter
2126# Spring Quarter
2127# Summer Quarter

Registration period dates and information:
2128# Autumn Quarter
2129# Winter Quarter

2130# Spring Quarter
2131# Summer Quarter

Residency classification
2141# Requirements for financially independent students
2142# Requirements for financially dependent students
2143# Application due dates
2144# To request an application

Student accounts and aid disbursement
3101# Aid check disbursement schedule
3102# Student insurance premiums
3103# Tuition/fees payment procedures
3104# Tuition rates

State classified employee tuition exemption program
2171# Information

Student loans
Loan information:
4101# Loan application information
4102# Bank loan availability lists
4103# Loan signature hours and locations
4104# Loan exit interview times and dates

Loan repayment:
4111# Billing service information
4112# Past due loan accounts information
4113# Loan deferment information
4114# Loan postponement and cancellation

Transcripts
2151# How to order a transcript by phone
2152# How to order a transcript by mail
2153# How to order a transcript in person

U-PASS
5101# Community transit information
5102# Metro transit information
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5104# U-PASS program

Washington Public Interest Group (WASHPIRG)
6101# Information

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2161# How to completely withdraw for a quarter
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University of Washington summer-only 1992 application form*

A $25 nonrefundable application fee must accompany the application. Make check or money order payable to 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.

Mail completed application form and $25 fee to:

- If you have never attended UW credit classes return to: Office of Admissions, PC-30, 320 Schmitz Hall, University of Washington, Seattle, WA 98195.
- If you have previously attended UW credit classes and have been assigned a student I.D. number, return to: Registration, PD-10, 225 Schmitz Hall, University of Washington, Seattle, WA 98195.

Please type or print clearly:

1. Social Security number
2. Sex: ☐ Male ☐ Female
3. Legal name (last) ☐ (first) ☐ (middle)
4. Former name(s)
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. Are you a veteran? ☐ Yes ☐ No
9. Date of birth (month/day/year) Place of birth
10. Are you a Washington resident? ☐ Yes ☐ No
    How long have you resided in Washington? From To
    Country of Citizenship, if not USA
    Type of visa
11. If UW or state classified employee, will you be attending on the tuition exemption program? ☐ Yes ☐ No
12. Have you ever enrolled for a credit course at UW? ☐ Yes ☐ No
    If yes, (Student number) (Last quarter and year enrolled) (Major)
    Have you earned a bachelor’s degree at another college since last attending the UW? ☐ Yes ☐ No
    If yes, (Name of degree) (College issuing degree) (Date)
13. Will you still be enrolled in high school in 1992-93? ☐ 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 generally required.)
14. (Optional) What race do you consider yourself to be?
    ☐ White ☐ Black / African American ☐ Eskimo ☐ Aleut ☐ Indian (Amer.)
    Asian or Pacific Islander (API)
    ☐ Chinese ☐ Filipino ☐ Hawaiian ☐ Korean
    ☐ Vietnamese ☐ Japanese ☐ Asian Indian ☐ Samoan
    ☐ Guamanian ☐ Other API (Please print) ☐ Other Race (Please print)
    Are you or are you not of Spanish/Hispanic origin?
    ☐ No (not Spanish/Hispanic) ☐ Yes, Mexican, Mexican-Am, Chicano
    ☐ Yes, Puerto Rican ☐ Yes, Cuban ☐ Yes, other Spanish/Hispanic
    (Print one group, for example: Argentinian, Colombian, Dominican, Nicaraguan, Salvadoran, Spaniard, etc.)
15. 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 completed (month/day/year) ____________

*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.

(SQA 1-92)
Attend the University of Washington this Summer

- Choose from over 1,500 courses in Seattle. See pages 70-71 for summer classes at UW branch campuses in Bothell and Tacoma.

- Earn a year's language credit in nine weeks.

- It's easy to apply and register. See page 1 for details.

- More than 100 College of Education courses are scheduled. See the Guide to Courses for Educators, page 47.

- High-achieving high school students may also attend. For more information, see Advanced Study Program, page 132.