



CHICANO EDUCATION

Carlos Maldonado, Program Director
 198 Monroe Hall
 359-2404
 MS-170

FACULTY

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PROGRAM DESCRIPTION

The Chicano Education Program's (CEP) central mission is to actively contribute towards enhancing the opportunity and participation of Chicanos/Latinos in higher education. This mission is premised on the conviction that education will promote self determination in the Chicano/Latino community. CEP is committed to staging activities which adhere to its mission. The Chicano Education Program is divided into three distinct components. These include the following:

Chicano Studies Minor

The minor in Chicano Studies will provide students with a comprehensive understanding of the Chicano/Latino community through its Chicano Studies course offerings. Emphasis is placed upon the study of the Mexican American. Lower division courses such as Introduction to Chicano Culture and Chicano History, encourage students to develop valid concepts and generalizations regarding Chicano issues. Two upper division courses expand on aspects of the Chicano/a experience. These include Chicano-Latino Politics in America and Survey of Chicano Literature. The minor will enhance the academic preparation of students planning to teach at the secondary or elementary level or those who desire occupations as counselors, or social service agents.

Recruitment

The Chicano Education Program's student recruitment efforts focus on various activities aimed at attracting and encouraging Chicano/Latino students to pursue higher education. Specific recruitment activities include staging college campus visits, participating in high school career fairs, providing college information at parent information sessions, visiting high

schools with Chicano/Latino students. In addition, CEP assists the students' transition into the university by contacting university offices (e.g., Admissions, Financial Aid, and Department of Housing and Residential Life) on the students' behalf.

Support Services

The Chicano Education Program also provides a variety of academic and non-academic support services. These include academic and personal counseling, career advising, job referrals, tutoring, scholarship information and other support service efforts. CEP also assists students to understand university regulations and advocates in the students' behalf with other university departments and offices. CEP also operates the "Chicana/Latina Focus Initiative," a program effort promoting Chicana leadership and issues relevant to women.

The Chicano Education Program maintains contact with both the Chicano and non-Chicano communities throughout the state of Washington. The program's outreach effort includes seminars, lectures, art and cultural exhibits and workshops.

The Program also publishes a quarterly newsletter, *Q-VO*, which informs students, parents and the community about CEP activities and efforts. On a national level, the CEP actively participates with the National Association for Chicana/Chicano Studies. Presently, CEP houses the national headquarters of the National Association for Chicana/Chicano Studies.

Cultural Consultant Initiatives

CEP faculty offer cultural consultant and resources to public and private organizations interested in enhancing their employee's knowledge and appreciation of the Chicano-Latino community.

Minor

Chicano Studies

DEGREE REQUIREMENTS

Minor: Chicano Studies—25 credits

Required Courses: 25 credits

CHST 101 Introduction to Chicano Culture (5)

CHST 218 Chicano History (5)

CHST 300 Survey of Chicano Literature (5)

CHST 320 Chicano-Latino Politics in America (5)

CHST 499 Directed Studies: Field Research in Chicano Studies (5)

COURSE DESCRIPTIONS

Chicano Studies (CHST)

101 INTRODUCTION TO CHICANO CULTURE - 5 cr A study of Chicano culture providing an initial overview of its roots and conflicts. Specific components discussed are cultural identity, customs, language, psychology and the arts. (Satisfies Cultural and Gender Diversity Graduation Requirement.) [Cross-listed ANTH 161]

218 CHICANO HISTORY - 5 cr A study of Chicano history from the time of the Treaty of Guadalupe Hidalgo in 1848, to the present. Specific themes discussed include the Mexican American War, the Treaty of Guadalupe Hidalgo of 1848, the economic, political and social conditions after the Anglo-American conquest of the southwest, Mexican immigration to the U.S., Chicano labor history, the Chicano movement and other Chicano themes. (Satisfies Cultural and Gender Diversity Graduation Requirement.) [Cross-listed HIST 218]

300 SURVEY OF CHICANO LITERATURE - 5 cr This course will offer students an overview of the historical development and current trends in Chicano Literature. The course will focus on the literary forms of poetry, novel, and the short story. The class will give students an understanding of various theoretical approaches utilized in critically analyzing literary works. Students will be expected to read, discuss, and apply theoretical techniques on specific Chicano literary works. Recommended: CHST 101 or 218. [May be cross-listed ENGL 498]

320 CHICANO-LATINO POLITICS IN AMERICA - 5 cr The purpose of this course is to study the political reality of Latinos in the United States: a heterogeneous group made up largely of Mexican, Puerto Rican, Cuban American origin and others (Central and South Americans). The focus taken in this class is to look at the Latino population in terms of its orientation to the political system, its institutions and actors and their participation in the electoral process. The course will examine the political orientation of the Latino community towards power, authority, role of government, and actions taken by governmental bodies and linkages to political participation. Overall, the goal of the course is for students to have a better understanding of the political experience of the second largest racial/ethnic group in the United States. Recommended: CHST 101 or 218. [May be cross-listed GOVT 350]

498 CHICANO EXPERIENCE - Variable cr Chicano topics discussed from various disciplines including the humanities and social sciences.

499 DIRECTED STUDY - Variable cr An in-depth, independent research project.



CHINESE

See MODERN LANGUAGES AND LITERATURES.



COMMUNICATION DISORDERS

Sanford E. Gerber, Chair

108 Communication Building

359-6622

MS-106

FACULTY

C. Balthazar, D. Evans, J. Galentine, S. E. Gerber, D. Haugen, P. Hendryx

PROGRAM DESCRIPTION

Professional practice in Communication Disorders is concerned with impairments and disabilities of speech, language, and hearing processes. A speech-language pathologist is qualified to diagnose and treat language and speech disorders; an audiologist is qualified to provide diagnostic hearing assessment and rehabilitative services.

The department has a strong clinical orientation. The program's general goal (through the Master's degree is to provide a sound academic background and to complement that instruction with clinical knowledge and experience sufficient to equip the student to provide competent diagnostic and treatment services to the spectrum of communication disordered individuals in a variety of employment settings.

The program is designed to begin in the junior year, typically following completion of general education requirements. Supervised clinical practicum is reserved for the graduate level. The baccalaureate degree is considered to be preprofessional, and the master's degree is required for certification at state and national levels. Employment opportunities include those in clinics, hospitals, private practice, and community agencies. The majority of the positions, however, are in the public schools and the placement outlook remains good.

The Department of Communication Disorders is located in the communication building at the Cheney campus. Clinical practicum is conducted at the University Programs in Communication Disorders' Speech and Hearing Clinic in Spokane and in numerous off-campus sites in the area. The program is accredited by the Educational Standards Board of the American Speech-Language-Hearing Association.

DEGREE/MAJOR-OPTIONS/MINORS/CERTIFICATION DESCRIPTIONS

A foreign language is required by Eastern Washington University for a major under the Bachelor of Arts (BA). To fulfill this requirement you need either two years of a single foreign language in high school or one year of a single foreign language at the college level.

Bachelor of Arts (BA)

Major: Communication Disorders

Bachelor of Arts in Education (BAE)

Major: Communication Disorders/Secondary

Certification

Completion of the undergraduate curriculum and the Master of Science degree satisfies the requirements for the Certificate of Clinical Competence (CCC) issued by the American Speech-Language-Hearing Association. Completion of courses in the CDS option and the master's degree is required for certification as a Speech-Language Pathologist in the schools by the state of Washington. Students anticipating obtaining their master's degree from Eastern Washington University should take a course in statistics.

ADMISSION REQUIREMENTS/PREPARATION

This major requires a foreign language.

High School Students:

No specific courses are required. High school students may find it useful to take typing/computer skills, four years of English and available speech and science courses.

Pre-major students:

Freshman and Sophomore students are encouraged to complete their GEGRs and begin with those courses offered by other departments in support of the major (e.g., Applied Psychology, Communication Studies,) prior to enrollment in the major's required Communication Disorders courses (i.e., COMD 301 through COMD 475).

Transfer students:

Transfer students should satisfy the GEGRs and consult with department faculty to plan their program.

All Students:

A minimum grade point average of 2.75 is required for admission to the program. Students must complete a department application form and pay an application fee.

All students must include in their preparation 18 credits of basic science coursework consisting of: 4 credits in biological/physical sciences and mathematics; 4 credits in behavioral and/or social sciences; and 10 credits in basic human communication process to include the anatomic and physiologic bases, the physical and psychophysical bases, and the linguistic and psycholinguistic aspects. It is advised that these courses be included in the GEGR selections.

DEGREE REQUIREMENTS**BACHELOR OF ARTS**

■ **Major:** Communication Disorders—83 - 90 credits

Required Courses: 62 credits

- COMD 301 Introduction to Communication Disorders (5)
- COMD 304 Phonetics (3)
- COMD 311 Observation in Communication Disorders (2)
- COMD 321 Speech and Voice Science (5)
- COMD 322 Neuroanatomy of Communication Disorders (3)
- COMD 341 Assessment Principles and Techniques (3)
- COMD 342 Intervention in Communication Disorders (3)
- COMD 351 Neurological Communication Disorders (3)
- COMD 358 Articulation and Phonological Disorders (3)
- COMD 371 Audiology (3)
- COMD 372 Audiometry (3)
- COMD 431 Language Development in the Normal Child (3)
- COMD 456 Stuttering (4)
- COMD 457 Language Disorders in Children (5)
- COMD 461 Clinical Practicum (1-4) (repeat for a total of 4 credits)
- COMD 475 Aural Rehabilitation (5)
- CMST 300 Public Speaking (5)

Required Supporting Courses: 20-27 credits**Communication Process:** Select 2 courses 10 credits

- CMST 309 Communication and Information (5)
- CMST 312 Nonverbal Communication (5)
- CMST 331 Interviewing (5)

Exceptionality: Select 2 courses 6-9 credits

- APSY 363 Psychology of Exceptionality (4)
- APSY 405 Psychology of the Mentally Retarded (4)
- APSY 406 The Socially-Emotionally Disturbed Child (4)
- APSY 407 Learning Disabilities (4)
- APSY 408 The Severely Profoundly Handicapped (3)
- APSY 409 Early Child Education for the Handicapped (3)
- EDUC 407 Education of Exceptional Children I (4)
- EDUC 408 Education of Exceptional Children II (3)
- PSYC 302 Abnormal Psychology (5)

Other: Select 2 courses 6-10 credits

- ANTH 445 Anthropological Linguistics (5)
- APSY 351 Infancy and Early Childhood (3)
- APSY 352 Middle Childhood Development (3)
- APSY 353 Adolescent Development (3)
- APSY 354 Adult Development (3)
- COMD: Select any Communication Disorders classes not listed as required courses.
- EDUC 463 Production of Instructional Materials (5)
- ESLG 481 Methodology in Teaching English as a Second or Foreign Language (4)
- PSYC 432 Psychology of Aging (3)
- SOCI 484 Sociology of Aging (5)

Note: Courses not taken as part of required courses offered outside the Department of Communication Disorders may be used as electives.

Note: The above major does not require the completion of a minor.

Speech/Language Pathologist Certification**Required Courses:** 21 credits typically taken at the graduate level

- COMD 405 Communication Disorders Services in the Schools (3)
- COMD 406 Preparation for Certification (1)
- COMD 461 Clinical Practicum in Communication Disorders (1-4) (repeat for a total of 5 credits)
- COMD 697 Clinical Field Experience (12)

BACHELOR OF ARTS IN EDUCATION

■ **Major:** Communication Disorders/Secondary

Required Courses: 84 credits

See those listed for Bachelor of Arts Major in Communication Disorders

CDS Certification Courses: 22 credits

See those listed for Bachelor of Arts Major in Communication Disorders

Professional Education Requirements/Secondary Education: 39-41 credits
See the Department of Education section of this catalog. Prerequisites may also apply.

Note: Consult with a department adviser to determine if the above major will require the completion of a minor.

COURSE DESCRIPTIONS

Communication Disorders (COMD)

301 INTRODUCTION TO COMMUNICATION DISORDERS - 5 cr Surveys typical communication handicaps and remedial procedures for the problems of delayed speech and language, articulation, hearing loss, cleft palate, cerebral palsy and stuttering. Intended as an introductory course for majors, to provide general information for other professionals and to assist teachers in understanding communication problems commonly found in the classroom.

304 PHONETICS - 3 cr English speech sounds, their analysis and production. Emphasizes learning and use of the international phonetic alphabet.

311 OBSERVATION IN COMMUNICATION DISORDERS - 2 cr Observation and analysis of clinician-client interaction in clinical speech, language, and hearing settings. Prerequisites: COMD 301, COMD 304, or prior permission of the instructor.

321 SPEECH AND VOICE SCIENCE - 5 cr A practical study of the sciences of anatomy, physiology, and physics as they are involved in the speech process.

322 NEUROANATOMY OF COMMUNICATION - 3 cr Examines the normal anatomy and physiology of the nervous system and the system's role in the communication process, including language processing and control of musculature for articulation, respiration, phonation and resonance. Prerequisite: COMD 321 or prior permission of the instructor.

341 ASSESSMENT PRINCIPLES AND TECHNIQUES - 3 cr Examines commercial materials available for diagnosis of speech and language disorders, including theoretical background and development. It provides experience in test administration and development of screening test and augmentative assessment methods. Prerequisites: COMD 304, 358.

342 INTERVENTION IN COMMUNICATION DISORDERS - 3 cr Designed to give information about therapy program construction, evaluation and administration. Also includes techniques for data collection and interpretation. Prerequisite: COMD 341.

351 NEUROLOGICAL COMMUNICATION DISORDERS - 3 cr Examines the characteristics and diagnostic and remediation techniques for specific communication disorders (aphasia, apraxia, dysarthria, agnosia) which result from neurological deficit or insult. Prerequisite: COMD 322.

358 ARTICULATION AND PHONOLOGICAL DISORDERS - 3 cr Normal acquisition of the articulatory process and the phonological system; etiology, assessment and intervention of articulatory and phonological disorders. Prerequisite: COMD 322 or prior permission of the instructor.

371 AUDIOLOGY - 3 cr Audition, anatomy and physiology of hearing mechanism, etiology of hearing loss, and considerations for management.

372 AUDIOMETRY - 3 cr The principles and techniques of auditory testing and interpretation of hearing tests. Prerequisite: COMD 371.

376 SIGN LANGUAGE I - 3 cr This introduction to American Sign Language (ASL) includes a brief history of its development, grammatical principles and vocabulary rules. Vocabulary, finger-spelling and sentence structure is developed.

377 SIGN LANGUAGE II - 3 cr Further instruction in the development of expressive and receptive skills in American Sign Language, development of more advanced vocabulary, and the use of space and expression as a part of the linguistic form of this visual language. Includes exploration into the structure of the deaf culture. Prerequisite: Sign Language I or prior permission of the instructor.

405 COMMUNICATION DISORDERS SERVICES IN THE SCHOOLS - 3 cr Designed to precede student teaching experience; provides further information about the special issues and problems encountered in the public school situation. Prerequisites: COMD 461 or prior permission of the instructor and fulfillment of additional state requirements.

406 PREPARATION FOR CERTIFICATION - 1 cr Policies and procedures for preparing for certification as a Speech/Language Pathologist in the state of Washington. Prerequisites: COMD 405 and at least 60 clinical clock hours.

407 SURVEY OF PSYCHOLINGUISTICS - 3 cr A survey of psycholinguistic processes: language comprehension, production and acquisition. Prerequisite: ENGL 360. [Cross-listed ENGL 461]

431 LANGUAGE DEVELOPMENT IN THE NORMAL CHILD - 3 cr Normal acquisition of language. Designed to give practical experience in the analysis of the language skills of normal young children.

456 STUTTERING - 4 cr Therapy, research and methodology in diagnosis and treatment of stuttering. Prerequisite: COMD 301 or prior permission of the instructor.

457 LANGUAGE DISORDERS IN CHILDREN - 5 cr Etiology, diagnosis, and remediation of delayed language.

459 COMMUNICATION PROBLEMS IN MENTAL RETARDATION - 3 cr
Description, assessment and treatment of communication disorders in mentally retarded children and adults. Prerequisites: COMD 301, 461, or prior permission of the instructor.

461 CLINICAL PRACTICUM IN COMMUNICATION DISORDERS 1-4 cr
Supervised clinical work with speech-defective children and adults. May be repeated for a maximum of 12 credits. Prerequisite: COMD 341 or prior permission of clinic director.

475 AURAL REHABILITATION - 5 cr Objectives, theory, and techniques in managing the hearing impaired individual. Prerequisite: COMD 371 or prior permission of the instructor.

497 WORKSHOP - 3 cr

498 DEPARTMENTAL SEMINAR - Variable cr

499 DIRECTED STUDY 1-5 cr Individual study projects in a selected special field of communication disorders. Limited to senior and graduate students. Prerequisite: Prior permission of the instructor.

COMMUNICATION STUDIES

David L. Cornelius, Chair
229 Communications Building (Cheney)
359-2313 (Cheney)
218 Spokane Center (Spokane)
623-4271 (Spokane)
MS-108

FACULTY

D. Cornelius, R. Gilbert, E. Kissling, I. Klyukanov, T. Puckett, D. Sharp, J. Stafford, S. Stearns, L. Wilson.

PROGRAM DESCRIPTION

Communication Studies focuses on the theory and practice of message production, transmission, and effects in several contexts: interpersonal, organizational, public and mass communications. In the last 20 years, the field of communications has grown three-fold. New computer technologies for networking now joins faculty with colleagues on every continent.

The Department of Communication Studies is directed by an interdisciplinary team of scholars and practitioners who are active in research, publication, and consulting. Specialties of the faculty include: human information processing, interpersonal communication, inter-cultural communication, organizational communication, rhetorical studies, semiotics, cultural studies, language studies, cognitive studies, decision-making, and research methods. Courses and programs emphasize the use of the human communication principles and skills in a professional setting. The nature of the curriculum requires the student to develop high levels of competency in performing the practical applications of communication theory and skills.

DEGREE/MAJOR-OPTIONS/MINORS/CERTIFICATION DESCRIPTIONS

Bachelor of Arts (BA)

Major: Communication Studies
Options: General Communication
Interpersonal Communication
Public Communication (Rhetoric)

The Bachelor of Arts degree offers major options in General Communication, Interpersonal Communication, and Public Communication (Rhetoric). Graduates with the BA degree typically obtain employment in sales, promotion, management, human services and law. Graduates also are academically prepared for post-baccalaureate studies in communications or related fields.

Bachelor of Science (BS)

Major: Communication Studies
Options: Public Relations
Organizational Communication

The Bachelor of Science in Communications is offered as an interdisciplinary degree. There are two optional tracks: Public Relations or Organizational Communication. Only one track can be selected. A minor is required for both tracks. Majors are expected to complete an internship during the senior year. This supervised practical experience may be in any area of student interest, including: business/professional and non-profit organizations.

Minor

Communication Studies

Certification

Endorsements Associated with Baccalaureate Majors and Minors: Speech

Communication/Secondary (BAE) major satisfies the Primary Endorsement: 4-12; Speech Communication/Secondary (BAE) minor satisfies the Supporting Endorsement: 4-12.

ADMISSION REQUIREMENTS/PREPARATION

Due to limited space, equipment and faculty, the Department of Communication Studies must exercise control over the demands placed upon it. Therefore, effective September 1993, admission to major programs within the department will be granted according to the policy stated below. Any student meeting the pre-selection requirements may apply and will be admitted at the discretion of the department.

I. PRESELECTION REQUIREMENTS

- A. Completion of admittance to the university;
- B. An overall university grade point average of 2.50 based on a minimum of 45 credit hours;
- C. Declaration as a pre-communication major (PCOM) at the General Undergraduate Advising Office;
- D. Completion of the following courses, with a grade of 2.7 or better in each course:
 - CMST 300 Public Speaking (5)
 - CMST 309 Communication and Information (5)
 - CMST 383 Communication Assessment (1) **Note:** Based on assessment evaluation additional courses may be required for admission or students may be denied admission. CMST 383 is graded P/NC only.
1. Passing grades, under the pass/no credit option, for 300 and 309 courses will not be accepted and the student will be required to repeat such courses for a numeric grade.
2. Transfer courses must be numerically equivalent; for example, a 200-level course cannot be substituted for a 300-level course.
3. At least one of the above courses must be taken in the Eastern Washington University Communication Studies Department.

II. SELECTION PROCESS

- A. Students may submit applications during the quarter in which they are completing pre-selection requirements. A selection committee will meet each quarter to select students for admission for the following quarter. (If submission is made at the same time you are taking the above required courses, turn in your Admission Application with your Application Statement as soon as possible during that same quarter.) APPLICATIONS ARE ACCEPTED ANYTIME, BUT REVIEWED OCT. 15, JAN. 15, AND APRIL 15.
- B. THE FOLLOWING MUST BE IN THE DEPARTMENT OFFICE BEFORE APPLICATIONS WILL BE CONSIDERED:
 1. Your file from General Undergraduate Advising containing all current transcripts. (Must be declared as a Pre-Com with the Department and General Undergraduate Advising.)
 2. Your pre-assessment form and your application form with an Application Statement of 400-500 words (essay form), typed and double-spaced, of career goals, how enrollment in the Department will further these goals, and the communication experiences, interests and abilities which will contribute to progress in the Department.
 3. A Department of Communication Studies faculty member must have consented to recommend you to the committee. The name of this faculty member must be on the form.
- C. Openings will be filled on a competitive basis. The number of openings available at any one time will depend on the facilities and faculty available.

III. SUMMARY OF CRITERIA FOR ADMISSION

- A. Overall school GPA;
- B. GPA in the classes listed above;
- C. Application Statement which includes **career goals, experiences, interests, abilities, why candidate would make a successful major, etc.** Both the substance and the style of the essay will be considered.
- D. Strength of the recommendations from department and other faculty.

Student applications will be evaluated on a competitive basis by the entire faculty of the Department of Communication Studies.

Applicants who have completed the pre-selection requirements will be notified of their admission or denial within four weeks of their application being reviewed. Applicants who are in the process of completing the pre-selection requirements during the quarter in which they make application will be considered in the next quarter's Application Review. Students who are denied admission may request reconsideration of the application at the Department office.

It is the students' responsibility to confirm their admission to the program.

Grade requirements for majors and minors graduating with any of the baccalaureate Communication Studies degrees are:

1. Minimum of 2.0 in each course applied toward major, including required courses.

2. Minimum overall GPA of 2.25 in major. Students with a minor in Communication Studies must maintain a minimum grade point average of 2.00 in each course applied toward the minor.

DEGREE REQUIREMENTS

- Grade Requirement:**
2.0 in each course
2.25 cumulative average

BACHELOR OF ARTS

Major: Communication Studies

- **Option:** General Communication—57 credits

Required Courses: 17 credits

- CMST 300 Public Speaking (5)
- CMST 309 Communication and Information (5)
- CMST 310 Interpersonal Communication (5)
 - or CMST 350 Small Group Communication (5)
- CMST 383 Communication Assessment (1)
- CMST 483 Portfolio Assessment (1)

Electives: 40 credits (Choice of eight) (No fewer than four 400-level classes are required)

- CMST 301 Political Communication (5)
- CMST 310 Interpersonal Communication (5)
- CMST 312 Nonverbal Communication (5)
- CMST 331 Interviewing (5)
- CMST 340 Intercultural Communication (5)
- CMST 350 Small Group Communication (5)
- CMST 351 Communicative Reasoning (5)
- CMST 400 Message Design (5)
- CMST 401 Speech Criticism (5)
- CMST 402 Rhetorical and Communication Theory (5)
- CMST 403 Persuasion (5)
- CMST 410 Language and Social Interaction (5)
- CMST 413 Communication and Personal Relationships (5)
- CMST 414 Gender and Communication (5)
- CMST 430 Communication in Organizations (5)
- CMST 435 Communication in Leadership (5)
- CMST 440 International Communication (5)
- CMST 470 Research Methods in Communication (5)
- CMST 497 Workshop in Communication Studies (2-5)
- CMST 498 Seminar in Communication Studies (with permission of adviser) (2-5)
- CMST 499 Special Studies in Communication Studies (with permission of adviser) (2-5)

Note: Two years of a single high school foreign language or one year of a single foreign language at college level is required for the above major.

Note: The above major requires the completion of a minor. Suggested minors: Art, Black Studies, English, Indian Studies, Music, Radio and Television, Recreation, Theatre, Women's Studies.

Major: Communication Studies

- **Option:** Interpersonal Communication—57 credits

Required Courses: 37 credits

- CMST 300 Public Speaking (5)
- CMST 309 Communication and Information (5)
- CMST 310 Interpersonal Communication (5)
- CMST 312 Nonverbal Communication (5)
- CMST 350 Small Group Communication (5)
- CMST 383 Communication Assessment (1)
- CMST 410 Language and Social Interaction (5)
- CMST 413 Communication and Personal Relationships (5)
- CMST 483 Portfolio Assessment (1)

Electives: 20 credits (Choice of four)

- CMST 301 Political Communication (5)
- CMST 331 Interviewing (5)
- CMST 340 Intercultural Communication (5)
- CMST 351 Communicative Reasoning (5)
- CMST 400 Message Design (5)
- CMST 401 Speech Criticism (5)
- CMST 402 Rhetorical and Communication Theory (5)
- CMST 403 Persuasion (5)
- CMST 414 Gender and Communication (5)
- CMST 430 Communication in Organizations (5)
- CMST 435 Communication in Leadership (5)
- CMST 440 International Communication (5)
- CMST 470 Research Methods in Communication (5)
- CMST 497 Workshop in Communication Studies (2-5)
- CMST 498 Seminar in Communication Studies (with permission of adviser) (2-5)
- CMST 499 Special Studies in Communication Studies (with permission of adviser) (2-5)

Note: Two years of a single high school foreign language or one year of a single foreign language at college level is required for the above major.

Note: The above major requires the completion of a minor. Suggested minors: Applied Psychology, Business, Economics, English, Psychology, Sociology, Technical Writing, Women's Studies.

Major: Communication Studies

- **Option:** Public Communication—57 credits

Required Courses: 37 credits

- CMST 300 Public Speaking (5)
 - CMST 309 Communication and Information (5)
 - CMST 310 Interpersonal Communication (5)
 - or CMST 350 Small Group Communication (5)
 - CMST 351 Communicative Reasoning (5)
 - CMST 383 Communication Assessment (1)
 - CMST 400 Message Design (5)
 - CMST 403 Persuasion (5)
 - CMST 483 Portfolio Assessment (1)
- Choice of one:
- CMST 301 Political Communication (5)
 - CMST 401 Speech Criticism (5)
 - CMST 402 Rhetorical and Communication Theory (5)

Electives choice of four: 20 credits

- CMST 301 Political Communication (5)
- CMST 310 Interpersonal Communication (5)
- CMST 312 Nonverbal Communication (5)
- CMST 331 Interviewing (5)
- CMST 340 Intercultural Communication (5)
- CMST 350 Small Group Communication (5)
- CMST 401 Speech Criticism (5)
- CMST 402 Rhetorical and Communication Theory (5)
- CMST 410 Language and Social Interaction (5)
- CMST 413 Communication and Personal Relationships (5)
- CMST 414 Gender and Communication (5)
- CMST 430 Communication in Organizations (5)
- CMST 435 Communication in Leadership (5)
- CMST 440 International Communication (5)
- CMST 470 Research Methods in Communication (5)
- CMST 497 Workshop in Communication Studies (2-5)
- CMST 498 Seminar in Communication Studies (with permission of adviser) (2-5)
- CMST 499 Special Studies in Communication Studies (with permission of adviser) (2-5)

Note: Two years of a single high school foreign language or one year of a single foreign language at college level is required for the above major.

Note: The above major requires the completion of a minor. Suggested minors: Anthropology, Foreign Language, Government, History, Sociology.

BACHELOR OF SCIENCE

Required Communication Studies Core Courses for BS

Track: 16 credits

- CMST 300 Public Speaking (5)
- CMST 309 Communication and Information (5)
- CMST 310 Interpersonal Communication (5)
 - or CMST 350 Small Group Communication (5)
- CMST 383 Communication Assessment (1)

Major: Communication Studies

- **Option:** Public Relations—57 credits

Communication Studies Core: 16 credits

Required Courses: 41 credits

- CMST 430 Communication in Organizations (5)
- CMST 470 Research Methods in Communication (5)
- CMST 480 Pre-Internship Workshop (2)
- CMST 481 Internship Workshop (2)
- CMST 495 Internship (5)
- JRNM 330 Mass News Media (5)
- JRNM 332 News Writing (5)
- JRNM 451 Introduction to Public Relations Theory (4)
- JRNM 452 Public Relations Writing (4)
- JRNM 453 Advanced Public Relations Theory (4)

Note: The above major requires the completion of a minor. Recommended minors: Business, Economics, English, Government, History, Sociology.

Major: Communication Studies

- **Option:** Organizational Communication—67 - 69 credits

Communication Studies Core: 16 credits

Required Courses: 51-53 credits

- CMST 331 Interviewing (5)
 - CMST 430 Communication in Organizations (5)
 - CMST 435 Communication in Leadership (5)
 - CMST 470 Research Methods in Communication (5)
 - CMST 480 Pre-Internship Workshop (2)
 - CMST 481 Internship Workshop (2)
 - CMST 495 Internship (5)
- Three of the following: 14-15 credits
- CMST 340 Intercultural Communication (5)

- CMST 351 Communicative Reasoning (5)
- CMST 403 Persuasion (5)
- CMST 413 Communication and Personal Relationships (5)
- CMST 414 Gender and Communication (5)
- CMST 440 International Communication (5)
- CMST 497 Workshop in Communication Studies (2-5)
- CMST 498 Seminar in Communication Studies (with permission of adviser) (2-5)
- CMST 499 Special Studies in Communication Studies (with permission of adviser) (2-5)
- JRNM 451 Introduction to Public Relations Theory (4)
- One of the following: 4-5 credits
 - AOMG 302 Business Communication (4)
 - ENGL 205 Introduction to Technical Writing (5)
- One of the following: 4 credits
 - TECH 265 Graphic Communication (4)
 - TECH 467 Desktop Publishing (4)

Note: The above major requires the completion of a minor. Recommended minors: Applied Psychology, Business, Economics, English, Government, History, Psychology, Sociology.

Minors

Minor: Communication Studies—20 credits

Required Courses: 20 credits chosen in consultation with an adviser, with a minimum of one course at the 400-level.

Select from the following (choose four):

- CMST 300 Public Speaking (5)
- CMST 301 Political Communication (5)
- CMST 309 Communication and Information (5)
- CMST 310 Interpersonal Communication (5)
- CMST 312 Nonverbal Communication (5)
- CMST 331 Interviewing (5)
- CMST 340 Intercultural Communication (5)
- CMST 350 Small Group Communication (5)
- CMST 351 Communicative Reasoning (5)
- CMST 400 Message Design (5)
- CMST 401 Speech Criticism (5)
- CMST 402 Rhetorical and Communication Theory (5)
- CMST 403 Persuasion (5)
- CMST 410 Language and Social Interaction (5)
- CMST 413 Communication and Personal Relationships (5)
- CMST 414 Gender and Communication (5)
- CMST 430 Communication in Organizations (5)
- CMST 435 Communication in Leadership (5)
- CMST 440 International Communication (5)
- CMST 470 Research Methods in Communication (5)
- CMST 498 Seminar in Communication Studies (2-5)

Minor: Communication Studies Education/Secondary Emphasis—29 credits (For Teacher Certification Only)

Required Courses: 24 credits

- CMST 300 Public Speaking (5)
- CMST 310 Interpersonal Communication (5)
- CMST 350 Small Group Communication (5)
- CMST 351 Communicative Reasoning (5)
- CMST 420 Secondary Speech Communication Methods (4)
- or CMST 499 Directed Study in Methods (4)

Electives: 5 credits

Communication course chosen with the approval of an adviser.

After your required courses and minor you may need additional hours to meet the University requirement of 180 hours. You should choose these courses, with your needs in mind, from either the communication studies offerings or other university offerings. Generally these courses should be 300 and 400 level courses.

COURSE DESCRIPTIONS

Communication Studies (CMST)

120 SPEECH COMMUNICATION COMPETENCY - 1 cr A 10-hour examination of speech communication proficiencies in articulation, oral reading, listening comprehension, group discussion and presentational speaking. P/NC grade. **Note:** Examination course only—this is not an instructional course.

200 INTRODUCTION TO SPEECH COMMUNICATION - 4 cr Analyzes verbal interaction, barriers to communication, effective listening, and the application of fundamental principles to one-to-one, small group, and one-to-many experiences.

203 PARLIAMENTARY PROCEDURE - 3 cr Rules of order for the conduct of formal meetings. Practical training in group leadership.

210 INTERPERSONAL COMMUNICATION FOR THE HEALTH SCIENCES - 4 cr Analysis and application of the principles and skills of effective interpersonal communication in the health science setting.

300 PUBLIC SPEAKING - 5 cr Study of the basic principles of public communication. Junior level course in design, delivery, organization, and presentation of speeches for public groups. Emphasis on informative and persuasive speeches, message delivery, and presentation/visual aids.

301 POLITICAL COMMUNICATION - 5 cr How Americans use oral and televisual communication to confront and change their environment. Emphasis on American speakers in American political contexts. Topics vary.

305 MESSAGE DELIVERY - 4 cr Analysis and application of message delivery techniques, focusing on voice and articulation, modes of delivery and style, communication apprehension, situational factors and visual support. Prerequisite: Junior standing or prior permission of the instructor.

306 PRESENTATION GRAPHICS - 2 cr Analyzes the elements and techniques for creating visual messages. Discusses integration of visual techniques for the presentation speaker. Prerequisite: Junior standing or prior permission of the instructor.

309 COMMUNICATION AND INFORMATION - 5 cr An introduction to the history and development of communication theory. This is the first course in the communication major as well as the first course in communication theory. Topics include theory development, observation techniques, a survey of theories, and ethical questions.

310 INTERPERSONAL COMMUNICATION - 5 cr Explores the human communication process as it occurs between individuals, including the perceptual and attribution processes surrounding messages, the construction of verbal and nonverbal messages, the functions of messages in interaction, and the role of interpersonal communication processes on a variety of interpersonal relationship types.

311 LISTENING: THEORY AND PRACTICE - 4 cr Identification of problem areas in human listening; application to personal listening, comprehension skills, and intensive study in the theory and process of listening as related to content and interpersonal relationships.

312 NONVERBAL COMMUNICATION - 5 cr Studies the other-than-words side of human interaction within different cultures, genders, relationships, and situations. Factors include body movement, physical appearance, the environment; and the use of voice, touch, and physical distances in regards to their communication potential. Additionally, there will be an emphasis on the basic theories of nonverbal communication and the interaction between nonverbal and verbal communication.

325 PUPPETRY - 4 cr Verbal and nonverbal communication of ideas through the medium of puppets. Includes using puppets to present messages in education, recreation, community relations, business, and other organizations.

326 FORENSICS 1-3 cr Competitive intercollegiate and public debate, oratory, discussion, after-dinner speaking, extemporaneous speaking. May be repeated for a total of 9 credits.

327 DIRECTING FORENSIC ACTIVITIES - 2 cr Objectives and methods of establishing and administering a forensic activities program for the secondary school.

330 INTERPERSONAL COMMUNICATION FOR BUSINESS AND THE PROFESSIONS - 4 cr Application of interpersonal communication theory, strategies, and practices in the organizational setting. Emphasis on developing credibility, observational/analytic skills, critical thinking, and appropriate communication strategies. (Not for Communication Studies majors.)

331 INTERVIEWING - 5 cr This course is an introduction to the principles of interviewing theory and practice. It is considered to be the first course in the BS in Organizational Communication major. The communication components of interviewing are examined from both the interviewER's and the interviewEE's perspective. Topics include the process of planning, managing, and analyzing the interview. Then, a variety of topical interviews such as selection, performance review, counseling, discipline, termination, focus groups, research, information gathering, information giving, media, sales, and client intake are examined through this process in an organizational and communication context.

335 CONFERENCE MANAGEMENT - 4 cr Focuses on the analytical and critical investigation of the communication process in the conference setting as a means of enhancing communication effectiveness. Provides hands-on experience in selecting a conference theme, designing a public conference, recruiting resource people, advertising the conference, registering participants, and conducting the conference. Prerequisites: CMST 300, 350.

340 INTERCULTURAL COMMUNICATION - 5 cr Study of the basic principles of face to face interaction in intercultural and cross-ethnic situations. Topics include perception, stereotypes, prejudice, world views, ethnocentrism, racism, the attribution process, and uncertainty reduction. (Satisfies Cultural and Gender Diversity Graduation Requirement.)

350 SMALL GROUP COMMUNICATION - 5 cr Its application to various task oriented groups. Emphasizes problem-solving communication and participant-leadership skills.

351 COMMUNICATIVE REASONING - 5 cr Logical development and support of arguments, analysis of evidence, briefing of arguments, and practice in debate. In addition, this course is designed to prepare students to

use practical reasoning applied to persuasive communication situations, to give students a general background on the basic principles of argumentation, and to engage critical and analytical thinking skills in order to identify, understand, and resolve communication problems. Prerequisite: Junior standing or permission of the instructor.

383 COMMUNICATION ASSESSMENT - 1 cr This course is an introduction to the Department of Communication Studies, required of all majors, providing students with the information necessary to develop their required portfolios during their junior and senior years and to diagnose students' visual, written, oral, mathematical, and computer competence. This course is the first in a two part sequence in which the Bachelor of Arts students will take CMST 483 in their senior year and the Bachelor of Science students will take CMST 481 in their senior year.

395 FIELD WORK IN COMMUNICATION STUDIES 1-5 cr Directed student participation in the communication processes or problems of an industry, a political campaign, or a non-profit organization.

396 EXPERIMENTAL COURSE IN COMMUNICATION STUDIES 1-15 cr

399 SPECIAL STUDIES 1-5 cr Subjects reflect recent developments in the field of human communication. Prerequisite: Prior permission of the instructor.

400 MESSAGE DESIGN - 5 cr An investigation of message construction for large, public audiences. Stress on invention, organization, and style. Includes speech writing and written message design. Prerequisite: CMST 300 or ENGL 308.

401 SPEECH CRITICISM - 5 cr Methods of analysis, interpretation, and evaluation of oral discourse. Prerequisite: Junior standing or prior permission of the instructor.

402 RHETORICAL AND COMMUNICATION THEORY - 5 cr Survey of historical and contemporary theories of oral communication. Prerequisite: Junior standing or prior permission of the instructor.

403 PERSUASION - 5 cr Interaction of source, message, and receivers in effect-centered oral communication. Stresses preparation of persuasive messages, promotions, and campaigns. Prerequisite: Junior standing or prior permission of the instructor.

404 WOMEN AND MEN IN COMMUNICATIONS - 1 cr This course explores issues which directly affect both male and female classroom experiences. We will study unexamined cultural patterns which can affect communication in elementary, secondary, baccalaureate or post-baccalaureate education and will examine choices in curriculum planning, textbook selection, and teacher/student interaction patterns which affect educational experiences of students in the classroom. Specific suggestions for change and classroom activities will be developed. [Cross-listed WMST 404]

409 PSYCHOLOGY OF COMMUNICATION - 4 cr Cognitive development and use of symbolic language systems in humans (child through adult). Special emphasis on uses of these language systems to evoke meaning/images at both surface and hidden levels. Prerequisite: Junior standing or prior permission of the instructor.

410 LANGUAGE AND SOCIAL INTERACTION - 5 cr A study of language and communication from two aspects: form and strategy. The formal study entails the examination of patterns, rules and structures of language, conversation, and discourse. The strategy study focuses on the use of language and communication for accomplishing identity goals, relational goals, and instrumental goals. Prerequisite: One 300-level interpersonal course.

413 COMMUNICATION AND PERSONAL RELATIONSHIPS - 5 cr An advanced examination of the verbal and nonverbal communication processes in the development, maintenance, breakdown, and repair of personal relationships, including romantic, friendship, and family relationships. Prerequisite: CMST 310 or permission of the instructor.

414 GENDER AND COMMUNICATION - 5 cr This course examines current research on the interactions among language, gender, and communication in contemporary social and cultural contexts. Prerequisite: One 300-level course in Communication or Women's Studies or permission of the instructor. [Cross-listed WMST 414]

420 SECONDARY SPEECH COMMUNICATION METHODS - 4 cr Objectives and methods of establishing an effective speech communication program for junior and senior high school students. Prerequisite: Junior standing or prior permission of the instructor.

430 COMMUNICATION IN ORGANIZATIONS - 5 cr The study of communication systems, channels, networks, and barriers; the role of communication in organizational assessment and change; the relationship between communication practices and organizational effectiveness, corporate image, and credibility. Prerequisite: Junior standing or prior permission of the instructor.

435 COMMUNICATION IN LEADERSHIP - 5 cr Applying communication leadership in planning, conducting, and evaluating conventions, conferences, workshops, programs, and other sponsored meetings. Introduction to parliamentary procedure and other techniques needed by officers, chairpersons, and other leaders. Prerequisites: CMST 331, 430, an organizational behavior class or permission of the instructor.

440 INTERNATIONAL COMMUNICATION - 5 cr A study of culturally conditioned communication behavior as it affects intercultural relationships between people from different nations. Includes value and belief

orientations, language and thought, speech styles, world views, nonverbal codes, communication breakdowns, and acculturation. (Satisfies International Studies Graduation Requirement.) Prerequisite: CMST 340 or permission of the instructor.

455 NEGOTIATION SKILLS AND STRATEGIES - 4 cr The application of face-to-face negotiating skills and strategies across personal and professional settings using the generic communication principles of listening, questioning, thinking/reasoning, speaking, responding, and observing. Emphasizes the preferred negotiation outcome of mutual, win/win agreement with compromise as a backup. Course does not include collective bargaining, mediation or large group-to-large group negotiations. Prerequisite: CMST 331. CMST 351 recommended.

470 RESEARCH METHODS IN COMMUNICATION - 5 cr This is a survey to research in speech communication, designed for seniors and beginning graduate students. Course introduces (1) the characteristics of empirical research, (2) the role of empirical research in the communication discipline, (3) quantitative research methods, (4) qualitative research methods, (5) how to read research reports, and (6) the assumptions of scientific arguments. Prerequisite: CMST 402 or 409 or graduate standing.

480 PRE-INTERNSHIP WORKSHOP - 2 cr Must be taken at least one quarter before internship. May be taken as early as the first quarter of the junior year.

481 INTERNSHIP WORKSHOP - 2 cr Must be taken at the same time as the internship.

483 PORTFOLIO ASSESSMENT - 1 cr This course is a senior level required course for all students enrolled in the Bachelor of Arts in Communication Studies. It is designed for students to exhibit their communication skills and knowledge by presenting their portfolios to faculty members in the Department of Communication Studies, by making a presentation, and by taking a final comprehensive exam. Prerequisite: Senior standing.

495 INTERNSHIP 3-15 cr Directly supervised student practicum in the internal and/or external communication processes of a business or professional organization. Prerequisite: CMST 480. Must be taken concurrently with CMST 481.

496 EXPERIMENTAL COURSE IN COMMUNICATION STUDIES 1-5 cr See Announcement of Courses for current listings.

497 WORKSHOP IN COMMUNICATION STUDIES 1-5 cr Training programs or workshops designed to give you practical knowledge and skills in specific areas of communication.

498 SEMINAR IN COMMUNICATION STUDIES 1-5 cr Major speech communication issues in the areas of public address, group communication, rhetorical theory, speech education, speech criticism, argumentation, persuasion, or intercultural communication. May be repeated for credit.

499 SPECIAL STUDIES IN COMMUNICATION STUDIES 1-5 cr Individual study projects in a selected area of human communication. Prerequisites: Junior standing, prior permission of the instructor.



COMPUTER SCIENCE

Ray O. Hamel, Chair
202-A Computer Science Building
359-6260, 359-6065
MS-86

Ronald C. Turner, Director of Internships
Room 202-E, Computer Science Building
359-6260, 359-4274
MS-86

Margo Dalager Stanzak
Operations Manager
202-C Computer Science Building
359-4734
MS-86

FACULTY

D. Bickerstaff, B. Britt, R. W. Clark, A. Hale, R. Hamel, D. Horner, R. Keefer, L. Kieffer, K. Rudin, R. Sevenich, S. Simmons, R. Turner
Adjunct Faculty: T. Rigles

PROGRAM DESCRIPTION

Computer Science is a rapidly evolving and exciting discipline, dealing with the theory and practice of organizing, representing, manipulating and presenting information in an automatic processing environment. Computerized information systems are being developed for and are critical to almost every field, and continue to evolve. As computer applications have increased in number and complexity, so has the need for highly-trained specialists in computer systems hardware and software. Research in computer science continues to broaden and extend our knowledge and to provide new opportunities.

A study of computer science has several strong advantages. First of all, it provides a challenging and satisfying intellectual activity which can be carried forward into graduate school and throughout one's life. Secondly, the demand for students graduating in this discipline remains high. Our graduates have had a high degree of success in building careers in both public and private sectors. In addition, high school teachers in all disciplines continue to need advanced computing skills. Graduate students are finding opportunities for public and private employment in jobs requiring more advanced knowledge and skills in computer science.

Research Facilities and Equipment

The campus network links a VAX 7000-620 cluster (including a VAXvector 6000-510) with several hundred microcomputers, including both Macintosh and Intel platforms. Internet provides connections to the global research community and to remote computing resources. More specialized computing facilities include:

The Software Engineering Lab, located at SIRTl, supports work in:

- ◆ software engineering
- ◆ leptomally parallel computing
- ◆ artificial intelligence

Supporting equipment includes:

- ◆ Sun Sparcstations
- ◆ Silicon Graphics Workstations
- ◆ SuperSet 16 Plus Transputer Hypercube
- ◆ color printer
- ◆ computer animation video equipment
- ◆ software such as Vertigo, AVS, ArcInfo, KHOROS, and AutoCad.

This center also houses complete production and editing equipment for computer graphics, video animation, and image processing.

The Multimedia Lab is based on Macintosh/Power PC platforms with

- ◆ color scanner
- ◆ laser disks
- ◆ CD drives
- ◆ sound processing devices.

The Digital and Embedded Systems Lab supports:

- ◆ small scale robotics and control projects
- ◆ signal equipment such as generators, oscilloscopes, and a Hewlett-Packard logic analyzer.

Upper-division majors may check with the department operations manager concerning the possibility of applying for work-study and departmental positions as student teaching assistants, paper graders, tutors, or computer consultants. If hired, a student may work up to 19 hours per week. Many of our students are able to obtain internships with both local and distant companies as well as governmental organizations where they not only put to test the theory and skills learned in the academic setting, but also gain a great deal of new knowledge and an understanding of the current practices in the work place. These students find the internship experience an excellent opportunity to refine their own career aspirations and to make valuable contacts for future employment. The Director of Internships directs the student internship program.

All students in our programs are strongly urged to join the student chapter of the Association for Computing Machinery (ACM). This group sponsors colloquia, field trips, programming contests, and social events.

DEGREE/MAJOR-OPTIONS/MINORS/CERTIFICATION DESCRIPTIONS

Bachelor of Science (BS)

Majors: Computer Science
Computer Information Systems

Computer Science

The Bachelor of Science degree in Computer Science is accredited by the Computer Science Commission of the Computing Sciences Accreditation Board. This program provides majors with a sound educational base from which they can either extend their knowledge through graduate study and research, or branch out into a variety of occupation-oriented specialty areas. The objective of the program is to ensure that graduates have a solid foundation for life-long learning coupled with specific skills which will prepare them to deliver on the promises of computer technology. The program contains a rich blend of software, hardware, and theory courses. During the junior and senior years, the program allows the student a choice of up to three sequence specialties from the following areas: automata and compiler design, artificial intelligence, computer architecture, computer graphics, operating systems, software engineering, and mathematics. The program also includes the requirements for minors in Mathematics and Physics.

The four-year program is designed for the computer literate freshman who is qualified to begin Calculus and the Writing Proficiency course. To finish in four years the student must be prepared to take full loads of up to eighteen credits some quarters, though averaging sixteen credits. Most students will require more than twelve quarters, necessitating part of a fifth year or summer sessions. After an advising session, we can write a tuition guarantee

contract which will include a customized schedule for completion of this program.

Computer Information Systems

The Computer Information Systems (CIS) program—a professional program concerned with the development, implementation and maintenance of information systems in the business environment—is designed to provide a solid foundation in the technical aspects of computer systems and an understanding of the role of computer information systems in organizations. It is culminated by a two-quarter senior sequence in software development which includes the analysis, specification and design of a software system using software engineering principles and project management skills. Each CIS student also participates in a professional internship experience where the previously learned computer science and business skills are applied in a work place information systems environment. The CIS degree is a less theoretical and more applied degree than the CS degree. It is designed for students desiring a career in business, non-profit agency or governmental information systems.

This four-year program is designed for the computer literate freshman who is qualified to begin the Writing Proficiency course. To finish in four years, the student must be prepared to take full loads of up to eighteen credits, though averaging fifteen credits. After an advising session, we can write a tuition guarantee contract which will include a customized schedule for completion of this program.

Bachelor of Arts (BA)

Major: Computer Science
Option: Mathematics

Many problems in computer science require the application of mathematical concepts to develop effective solutions. The Bachelor of Arts degree in Computer Science, Mathematics Option, provides the student with a well developed background in mathematical techniques as well as in computer hardware and software principles. This program is intended to prepare students both for life-long learning and for innovative and productive problem solving.

The program contains a balance of computer science and mathematics courses, both theoretical and applied. A minor in Mathematics is included. The program allows the student a choice of up to three sequence specialties among nine elective courses in computer science and mathematics during the junior and senior years.

This four-year program is designed for the computer literate freshman who is qualified to begin Calculus. To finish in four years the student must be prepared to take full loads of up to eighteen credits, though averaging fifteen credits. After an advising session, we can write a tuition guarantee contract which will include a customized schedule for completion of this program.

Bachelor of Arts in Education (BAE)

Major: Computer Science/Secondary

With the advent of the low-cost microcomputer, interest in and use of the computer has spread to every level of education. The state-approved Computer Science Education program provides students with the knowledge and skills to teach computing and use the computer effectively in instructional applications.

Students majoring in Computer Science Education are encouraged to complete a mathematics cognate of courses totaling 30 or more credits to obtain a mathematics endorsement for Teacher Certification. Students also are encouraged to consult with their departmental advisers in both the Departments of Computer Science and Education to determine which courses should be taken or substituted in pursuit of their endorsement.

Minors

Computer Science
Computer Science/Secondary

Students majoring in other fields may wish to minor in Computer Science since a basic knowledge of the theory and practice of computing is useful in a wide variety of fields.

Computer Science: Students minoring in Computer Science must earn a 2.50 GPA in Computer Science course work and earn a 2.0 minimum grade in each required Computer Science course counted towards the minor.

Computer Science/Secondary: A minor in Computer Science Education provides the student with the State of Washington 4-12 Primary/Endorsement. Students must earn a 2.50 GPA in Computer Science course work and earn a 2.0 minimum grade in each required Computer Science course counted towards the minor.

Certification

Endorsements Associated with Baccalaureate Majors and Minors: Computer Science/Secondary (BAE) major satisfies the Primary Endorsement: 4-12; Computer Science/Secondary (BAE) minor satisfies the Supporting Endorsement: 4-12.

Endorsement Add-On(s): Computer Science, 4-12.

ADMISSION REQUIREMENTS/PREPARATION

High school students who want to pursue a major in this department should complete four years of high school mathematics, including two years of algebra, one year of geometry and one year of pre-calculus mathematics. Students should take computer science courses that are available in their high schools, but not at the expense of mathematics courses. High school students are also urged to take laboratory science courses, four years of English, and a keyboarding course.

All prospective department majors should contact the Computer Science Department to obtain the department entrance requirements and the latest information to aid them in planning a program of study. Prerequisites are strictly enforced by the department to ensure that material in advanced courses can be taught and learned for the maximum benefit to the student. For all of our courses requiring prerequisites, students are expected to have earned at least a 2.0 in each of these prerequisites. Our operations manager is available by appointment for advising prospective majors.

Special Admission Policy—Computer Science Programs

Admission to major programs in Computer Science, Computer Science/Mathematics Option, Computer Information Systems, and Computer Science Education will be provided to those who, in the judgment of the faculty, are most likely to succeed in the program. Because of the dynamic nature of Computing Sciences programs, the degree program in effect at the point of admission shall determine graduation requirements. Contact the operations manager for more information.

How and When to Apply

Students entering Eastern with an interest in computer science are encouraged to become computer science pre-majors. All that is required is a short advising session with the operations manager. Formal admission to the department comes later after the student has successfully completed a few indicator courses. Any student meeting (or currently completing) the admission prerequisites may apply. Application for formal admission to a major is started by obtaining an appropriate application package at the department office. This package includes detailed instructions about how to complete the application process. Students will be required to have their transcripts from all universities and colleges other than Eastern sent to the Computer Science Department. They will also prepare and submit a formal cover letter addressed to the Department Operations Manager. This letter will address the student's career goals, the elements of his or her background that he or she feels demonstrates the aptitude to be a computer scientist, and explanatory remarks concerning his or her academic career to date. This cover letter must include a statement that the student has read, understood and will comply with the Computer Science Department's Canons of Ethical Conduct. Handouts of these canons are provided in the introductory computer classes and are also included in the application package. Note that acceptance by the department of an application does not guarantee admittance to the program.

Students who intend to major in any of our programs must be admitted to the program before taking any Computer Science course numbered above 400. Students accepted into other majors will be allowed to take these courses with the approval of the course instructor or department chair. Any student not satisfying these requirements is subject to disenrollment.

Admission Prerequisite Guidelines

1. Achieve at least a 2.5 in CSCD 326, CSCD 260.
2. Achieve at least a 2.5 in the following program-specific courses:
BS Computer Science: MATH 162; MATH 225;
BS Computer Information Systems: MATH 200 or MATH 162; and
MATH 301 or MATH 225;
BA Computer Science, Mathematics Option: MATH 162; MATH 225;
BAE Computer Science Education: MATH 162; MATH 225.
3. Have an overall university grade point average of at least 2.50.
4. Achieve at least a 2.5 in ENGL 201 or equivalent. Students who receive a grade of 2.0 to 2.4 in ENGL 201 or equivalent must complete ENGL 205 with a grade of at least 2.0.

Selection Process

A faculty committee will select students for admission. Criteria will include:

- ◆ Overall GPA
- ◆ Work experience
- ◆ Grades in required and elective courses
- ◆ Communication skills
- ◆ A sense of dedication and purpose
- ◆ Well-roundedness and involvement (as demonstrated by membership in a computer professional society, a service club, ASEWU, or as a community volunteer)

DEGREE REQUIREMENTS

BACHELOR OF SCIENCE

■ Major: Computer Science—135 - 146 credits

This degree is accredited by the Computer Science Accreditation Commission of the Computing Sciences Accreditation Board, a specialized body recognized by the Council on Postsecondary Accreditation and the U.S. Department of Education. This program includes the course requirements for minors in Mathematics and Physics, and for most students will require more than twelve quarters to complete.

Required Courses: 101-102 credits

- ENGR 160 Digital Circuits (3)
- CSCD 224 Introductory Computer Science Laboratory (0 or 1)
- CSCD 225 Programming Principles I (5)
- CSCD 226 Programming Principles II (3)
- ENGR 250 Digital Hardware (2)
- CSCD 260 Micro-Assembly Language (3)
- CSCD 325 Object-Oriented Programming (3)
- CSCD 326 Data Structures I (4)
- CSCD 327 Data Structures II (4)
- CSCD 360 Advanced Assembly Language (4)
- CSCD 400 The Computer, the Individual, and Society (4)
- CSCD 420 Finite State Automata (4)
- CSCD 435 Principles of Programming Languages (3)
- CSCD 440 Operating Systems I (5)
- CSCD 460 Computer Systems Architecture and Design I (5)
- CSCD 461 Computer Systems Architecture and Design II (5)
- MATH 161 Calculus I (5)
- MATH 162 Calculus II (5)
- MATH 163 Calculus III (5)
- MATH 225 Foundations of Mathematics (5)
- MATH 231 Linear Algebra (5)
- MATH 385 Probability and an Introduction to Statistics (4)
- PHYS 151 General Physics I (4)
- PHYS 152 General Physics II (4)
- PHYS 153 General Physics III (4)
- Choose three of the following : 3 credits
 - PHYS 161 Mechanics Lab (1)
 - PHYS 162 Heat and Optics Lab (1)
 - PHYS 163 Instrumentation Lab I (1)
 - PHYS 164 Instrumentation Lab II (1)

Required Cognate Courses: 8-12 credits

Select two courses—at least eight credits. Some of these courses may satisfy General Education Core Requirements.

- BIOL 171 Biology I (4)
and BIOL 270 Biological Investigation (3)
(BIOL 171, 270 counts as one course)
- BIOL 172 Biology II (4)
- CHEM 151 General Chemistry (5)
- CHEM XXX Any 5-credit Chemistry course numbered above CHEM 151 (5)
- GEOL 201 Physical Geology (5)
- GEOL 202 Physical Geology (5)
- PHYS 221 General Physics IV (4)
- PHYS XXX Any 3 credit Physics course numbered above PHYS 221 with 1 credit lab (4)
- PHYS XXX Any 4 credit Physics course above PHYS 221 (4)
- HONS 103 Modern Science and Society (8) and HONS 104 Honors Science Laboratory (1) (contributes 5 credits towards cognate)
or 400-level Science-Based Capstone (with prior approval of CS Department Chair)

Concentration: Select one of the following two-course sequences 8-10 credits

- CSCD 421 Automata and Languages (4)
and CSCD 422 Compiler Design (4)
- CSCD 441 Operating Systems II (4)
and CSCD 442 Operating Systems III (4)
- CSCD 450 Software Engineering I (5)
and CSCD 451 Software Engineering II (5)
- CSCD 470 Computer Graphics Programming (4)
and CSCD 471 Advanced Graphics Programming (4)
- CSCD 481 Artificial Intelligence I (4)
and CSCD 482 Artificial Intelligence II (4)

Electives: 18-23 credits

Select five courses including at least one upper-division mathematics course and at least seven credits of computer science courses.

- MATH 241 Calculus IV (5)
- MATH 261 Continuous Functions (4)
- MATH 345 Numerical Analysis I (4)
- MATH 347 Introductory Differential Equations (4)
- MATH 386 Applied Statistics (4)
- MATH 431 Introduction to Modern Algebra I (4)
- MATH 445 Numerical Analysis II (4)
- MATH 447 Differential Equations (4)
- CSCD 333 Local Area Networks (3)

- CSCD 328 Programming in a Windowing Environment (3)
- CSCD 425 Database Management Systems (4)
- CSCD 436 Advanced Programming in Ada (4)
- CSCD 480 Introduction to Artificial Intelligence (4)
- CSCD 495 Internship (approved by department) (5)
- CSCD 4XX Any unused course from the concentration list (4)

Note: The above major does not require the completion of a minor. Students must maintain a Computer Science GPA of at least 2.50 and earn at least 2.0 in each Computer Science course in this major.

■ **Major:** Computer Information Systems—107 - 115 credits

Required Courses: 53-54 credits

- ENGR 160 Digital Circuits (3)
- CSCD 224 Introductory Computer Science Laboratory (0 or 1)
- CSCD 225 Programming Principles I (5)
- CSCD 226 Programming Principles II (3)
- CSCD 260 Micro-Assembly Language (3)
- CSCD 325 Object-Oriented Programming (3)
- CSCD 326 Data Structures I (4)
- CSCD 327 Data Structures II (4)
- CSCD 360 Advanced Assembly Language (4)
- CSCD 400 The Computer, the Individual, and Society (4)
- CSCD 440 Operating Systems I (5)
- CSCD 450 Software Engineering I (5)
- CSCD 451 Software Engineering II (5)
- CSCD 495 Internship (approved by department) (5)

Mathematics Courses: 15 credits

- MATH 200 Finite Mathematics (5)
- or MATH 162 Calculus II (5)
- MATH 301 Discrete Mathematics (5)
- or MATH 225 Foundations of Mathematics (5)
- MATH 380 Elementary Probability and Statistics (5)

Management Information Systems Courses: 8 credits

- MISC 312 Management Information Systems (4)
- MISC 481 Systems Analysis and Design (4)

Accounting Courses: 8-9 credits

- ACCT 251 Principles of Financial Accounting (5)
- or ACCT 301 Financial Accounting (4)
- ACCT 252 Principles of Managerial Accounting (4)
- or ACCT 302 Management Accounting (4)

Economics Courses: 10 credits, select two courses

- ECON 100 General Education Economics (5)
- ECON 200 Introduction to Microeconomics (5)
- or ECON 300 Microeconomics (5)
- ECON 201 Introduction to Macroeconomics (5)
- or ECON 301 Macroeconomics (5)

Required Cognate Courses: 13-19 credits

Select four courses from the following list.

- ACCT 356 Cost Accounting (4)
- ACCT 359 Accounting Systems (4)
- CSCD 328 Programming in a Windowing Environment (3)
- CSCD 333 Local Area Networks (3)
- CSCD 411 Multimedia Techniques (4)
- CSCD 412 Multimedia Design and Implementation (4)
- CSCD 495 Internship (an additional five credits approved by department) (5)
- CSCD 4XX Approved CSCD courses numbered 420 or above (3 to 5)
- FINC 335 Financial Management (4)
- MISC 380 Business Computer Programming (4)
- MISC 484 Advanced Business Programming (4)

Note: The above major does not require the completion of a minor. Students must maintain a Computer Science GPA of at least 2.50 and earn at least 2.0 in each Computer Science course in this major.

BACHELOR OF ARTS

Major: Computer Science

● **Option:** Mathematics—97 - 103 credits

Computer Courses: 33-34 credits

- ENGR 160 Digital Circuits (3)
- CSCD 224 Introductory Computer Science Laboratory (0 or 1)
- CSCD 225 Programming Principles I (5)
- CSCD 226 Programming Principles II (3)
- CSCD 260 Micro-Assembly Language (3)
- CSCD 325 Object-Oriented Programming (3)
- CSCD 326 Data Structure I (4)
- CSCD 327 Data Structure II (4)
- CSCD 360 Advanced Assembly Language (4)
- CSCD 400 The Computer, the Individual, and Society (4)

Mathematics Minor: 29 credits

- MATH 161 Calculus I (5)
- MATH 162 Calculus II (5)
- MATH 163 Calculus III (5)

- MATH 225 Foundations of Mathematics (5)
- MATH 231 Linear Algebra (5)
- MATH 385 Probability and an Introduction to Statistics (4)

Electives: 35-40 credits

Select two courses from each of three groups and one course from each remaining group (nine elective courses):

Group 1:

- MATH 241 Calculus IV (5)
- MATH 261 Continuous Functions (4)

Group 2:

- MATH 347 Introductory Differential Equations (4)
- MATH 431 Introduction to Modern Algebra I (4)
- MATH 445 Numerical Analysis II (4)
- MATH 485 Theoretical Probability and Mathematical Statistics (4)
- MATH 4XX 400-level Math course approved by CS department (3-5)

Group 3:

- MATH 345 Numerical Analysis I (4)
- MATH 386 Applied Statistics (4)
- MATH 447 Differential Equations (4)
- MATH 4XX 400-level Math course approved by CS department (3-5)

Group 4:

- CSCD 440 Operating Systems I (5)
- CSCD 441 Operating Systems II (4)

Group 5:

- CSCD 420 Finite State Automata (4)
- CSCD 421 Automata and Languages (4)

Group 6:

- CSCD 333 Local Area Networks (3)
- CSCD 328 Programming in a Windowing Environment (3)
- CSCD 4XX Any approved 400-level CSCD courses (3-5)

Note: Two years of a single high school foreign language or one year of a single foreign language at college level is required for the above major.

Note: The above major does not require the completion of a minor. Students must maintain a Computer Science GPA of at least 2.50 and earn at least 2.0 in each Computer Science course in this major.

BACHELOR OF ARTS IN EDUCATION

■ **Major:** Computer Science Education/Secondary—70 - 72 credits

Required Courses: 70-72 credits

- ENGR 160 Digital Circuits (3)
 - CSCD 224 Introductory Computer Science Lab (0 or 1)
 - CSCD 225 Programming Principles I (5)
 - CSCD 226 Programming Principles II (3)
 - CSCD 260 Micro-Assembly Language (3)
 - CSCD 325 Object-Oriented Programming (3)
 - CSCD 326 Data Structures I (4)
 - CSCD 327 Data Structures II (4)
 - CSCD 339 Microcomputer Programming (4)
 - CSCD 360 Advanced Assembly Language (4)
 - CSCD 392 Methods of Teaching Computer Science (2)
 - CSCD 400 The Computer, the Individual, and Society (4)
 - CSCD 425 Database Management Systems (4)
 - or CSCD 426 Micro Database Programming (4)
 - CSCD 435 Principles of Programming Languages (3)
 - CSCD 440 Operating Systems I (5)
 - CSCD 480 Introduction to Artificial Intelligence (4)
 - or CSCD 460 Computer Systems Architecture and Design I (5)
 - or Computer Science elective selected with prior approval of your adviser
 - MATH 161 Calculus I (5)
 - MATH 162 Calculus II (5)
 - MATH 225 Foundations of Mathematics (5)
- Recommended Cognate Courses include:** 29 credits
- MATH 161 Calculus I (5)
 - MATH 162 Calculus II (5)
 - MATH 163 Calculus III (5)
 - MATH 225 Foundations of Mathematics (5)
 - MATH 370 Survey of Geometries (4)
 - MATH 493 Methods of Teaching Secondary Mathematics (5)
- Professional Education Requirements/Secondary Education: 39-41 credits.
See Department of Education section of this catalog.

Note: The above major takes more than 12 quarters at 15-16 credits a quarter.

Note: The department recognizes that the individual will teach in a second area, and therefore recommends that students complete the mathematics cognate area of 29 minimum credits listed above. Students must maintain a Computer Science GPA of at least 2.50 and earn at least 2.0 in each Computer Science course in this major.

Minors

Minor: Computer Science—28 - 32 credits

Required Courses: 21-22 credits

- ENGR 160 Digital Circuits (3)
- CSCD 224 Introductory Computer Science Lab (0-1)
- CSCD 225 Programming Principles I (5)

CSCD 226 Programming Principles II (3)
 CSCD 260 Micro-Assembly Language (3)
 CSCD 325 Object-Oriented Programming (3)
 CSCD 326 Data Structures I (4)

Electives: 7-10 credits

Select two 3-5 credit courses from upper division CSCD courses (at least 7 credits). Prior permission is needed for courses 311, 339, and courses 395-399, 495-499 (7-10)

Note: It is possible to earn the CS Minor taking only courses given in Spokane. Students must maintain a Computer Science GPA of 2.50 and earn at least 2.0 in each required Computer Science course counted toward the minor.

Minor: Computer Science/Secondary—35 - 36 credits

Required Courses: 35-36 credits

ENGR 160 Digital Circuits (3)
 CSCD 224 Introductory Computer Science Lab (0-1)
 CSCD 225 Programming Principles I (5)
 CSCD 226 Programming Principles II (3)
 CSCD 260 Micro-Assembly Language (3)
 CSCD 325 Object-Oriented Programming (3)
 CSCD 326 Data Structures I (4)
 CSCD 339 Microcomputer Programming (4)
 CSCD 392 Methods of Teaching Computer Science (2)
 CSCD 400 The Computer, the Individual, and Society (4)
 CSCD 425 Database Management Systems (4)
 or CSCD 426 Micro Database Programming (4)

Course Requirements for Teacher Certification/Add-On

Endorsement(s) Computer Science: 4-12/30-32 credits

(For students who currently possess Washington state's Initial Teaching Certificate)

CSCD 224 Introductory Computer Science Lab (0-1)
 CSCD 225 Programming Principles I (5)
 CSCD 226 Programming Principles II (3)
 CSCD 260 Micro-Assembly Language (3)
 or CSCD 592 Fundamentals of Microcomputer Hardware and Fundamentals of Software Development (4)
 CSCD 325 Object-Oriented Programming (3)
 CSCD 326 Data Structures I (4)
 CSCD 591 Logo and the Learning Environment (4)
 CSCD 593 Structured Problem Solving with Computers (4)
 CSCD 594 Strategies for CAI (4)

COURSE DESCRIPTIONS

Computer Literacy and Applications (CPLA)

100 COMPUTER LITERACY I - 1 cr An introduction to computer concepts. Hardware, software, and operating systems are presented on both the DOS and Mac platforms. An introduction to word processing and graphic application is included. Passing this course gives clearance of Computer Literacy Part I. Does not count towards the 180 credit requirement. (Satisfies the Pre-University Basic Skills, Computer Literacy.) Course fee required.

101 COMPUTER LITERACY II - 1 cr An introduction to spreadsheet, database and telecommunications software is presented on both the DOS and Mac platforms. Library searches are required. An introduction to the societal issues of security, privacy, viruses and computer crime will be included. Passing the literacy exam at the end of this course gives clearance of Computer Literacy Part II. (Satisfies the University Competencies, Computer Literacy.) Prerequisite: CPLA 100 or Computer Literacy Part I clearance. Course fee required.

120 COMPUTER FUNDAMENTALS WITH PROGRAMMING CONCEPTS - 5 cr Fundamental computer concepts designed to give an overview of computers. Discover what computers are all about, surf the Internet and the World Wide Web, create your own web page, discover how the computer can help you with your homework and become creative with authoring software. No previous computer background is assumed. EWU computer resources are used for this course. This course includes the material and testing of Computer Literacy I and II so that students may satisfy Computer Literacy Requirements by taking this course and passing the literacy tests.

121 MICRO-SOFTWARE DESIGN AND USE - 5 cr A study of popular microcomputer software to include but not limited to word processing, electronic spread-sheets, database, desktop publishing, painting and drawing programs. In-depth study of software use, performance and capabilities in relation to hardware, software design and the operating system. Course uses the IBM compatible or the Mac environment in alternate offerings; check with the instructor. Prerequisite: CPLA 120 or CPLA 100 and 101.

311 COMPUTERS IN THE CLASSROOM - 4 cr An introduction to educational applications of integrated productivity software, utility

programs, Computer-Assisted Instruction (CAI) software, telecommunications, Internet and World Wide Web, the process of software and hardware selection for educational purposes, and methods of effectively integrating technology into the classroom. Assignments will include computer projects using productivity software, utility software, and construction of a CAI software using high level authoring systems. Ethical and equity issues for educational computing will be discussed. Prerequisites: CPLA 100 and 101 or Computer Literacy I and Computer Literacy II clearance, and admission to Education Department.

Computer Science (CSCD)

132 BASIC PROGRAMMING - 3 cr Fundamental BASIC statements, loops, representations of strings, PRINT USING statements, subroutines, files in BASIC and array manipulations. Students use EWU computers.

221 STRUCTURED PROGRAMMING II - 5 cr The principles of structured programming and top-down design as used with a procedural language. In-depth look at data structures available such as arrays, records, sets, files, pointer types, and linked lists. Discussion about recursive subprograms. Programming standards and documentation. Programming projects are done in a procedural language such as Pascal, C, MODULA-2, or Ada. Prerequisites: CSCD 220, and MATH 106 or 200 or equivalent.

224 INTRODUCTORY COMPUTER SCIENCE LABORATORY - 1 cr This course provides a hands-on introduction to the programming environment and programming concepts used in CSCD 225. Programming environment topics include installation and configuration of the software, compiling, saving, printing and running programs, and using the debugger. Programming concepts covered will consist of a review of those presented in CSCD 225, including syntax, program structure, and program design. Concurrent enrollment in CSCD 225 is required. Prerequisite: Computer Literacy Clearance.

225 PROGRAMMING PRINCIPLES I - 5 cr Introduction to the concepts and practices of information representation, computer algorithms, hardware organization and computer program design and implementation. Course allows student to write, run, debug, analyze and evaluate computer programs written in a current programming language, such as C++ or SmallTalk. Prerequisites: Computer Literacy Clearance and MATH 104 or equivalent.

Students with limited prior computer experience should concurrently enroll in CSCD 224. Others must receive department clearance.

226 PROGRAMMING PRINCIPLES II - 3 cr An introduction to simple data structures, such as arrays and structures, using a current programming language such as C++ or SmallTalk. Fundamental sorting and searching algorithms are examined and evaluated. Prerequisite: CSCD 225.

230 SCIENTIFIC PROGRAMMING IN FORTRAN - 5 cr A thorough study of the FORTRAN language and computer programming, in which programs are written based on problems from scientific and engineering disciplines. Prerequisite: MATH 106 or equivalent.

260 MICRO-ASSEMBLY LANGUAGE - 3 cr Fundamental microcomputer hardware and the instruction set for a single tasking, single user microprocessor. Homework assignments will include assembly language programming emphasizing I/O device access and features that support high level languages. Prerequisites: ENGR 160; Programming Language such as CSCD 132 or 225; MATH 104 or equivalent.

298 SEMINAR 1-5 cr

299 SPECIAL STUDIES - Variable cr Subjects studied vary according to student and faculty interest. Prerequisites: Prior permission of the instructor and the department chair.

310 INTRODUCTION TO UNIX - 2 cr An introduction to the use of the UNIX operating system. The use of interactive shells, common text editors, utility programs, electronic mail, and graphical user interfaces are covered as well as file system structure and accessing the Internet. Prerequisite: Computer literacy.

312 CLASSROOM USES OF INTEGRATED SOFTWARE - 2 cr Study of major components of an integrated software system (word processing, spreadsheet, and data base programs). Classroom applications are studied. No previous computer experience assumed. Additional laboratory time required. Prerequisite: Junior standing.

315 INTERNET BASICS - 3 cr Investigation of the Internet. The tools of electronic mail, FTP, Telnet, Gopher, Archie, WAIS, and WWW will be presented. Issues associated with Internet use will be discussed including privacy, commercialization and social impact. Projects utilizing the Internet are major parts of the course. Prerequisites: Computer Literacy I and Computer Literacy II clearance.

325 OBJECT-ORIENTED PROGRAMMING - 3 cr More advanced programming concepts such as recursion and object-oriented concepts such as classes, inheritance, and polymorphism. Projects will be written in an object-oriented language. Prerequisite: CSCD 226.

326 DATA STRUCTURES I - 4 cr Basic abstract concepts of data structures. Linear data structures including stacks, queues, and linked lists. Linked, multi-linked and contiguous representation. Analysis of hashing and recursion. Mathematical analysis of complexity of searching and sorting

algorithms. Requires programming projects with formal documentation. Prerequisite: CSCD 325.

327 DATA STRUCTURES II - 4 cr Formal properties of non-linear data structures, including binary trees and general trees. General directed graphs and networks. Symbol tables and search trees. File organization, n-ary retrieval trees and B-trees. Requires programming assignments with formal documentation. Prerequisites: CSCD 326, ENGL 201 and MATH 225 or 301.

328 PROGRAMMING IN A WINDOWING ENVIRONMENT - 3 cr Introduction to general techniques of programming in a graphical, windowed environment. System events, shared resources, menu systems, Object Linking and Embedding, clipboards and general Graphical User Interface programming techniques are among the selected topics. Special emphasis on multitasking and device-independent programming. Requires programming projects. Prerequisite: CSCD 326 or concurrent enrollment in CSCD 326.

333 LOCAL AREA NETWORKS - 3 cr Principles of local area networks with emphasis on the installation, maintenance, and interconnection of several different varieties of local area networks. Prerequisites: CSCD 260, 325.

335 C PROGRAMMING LANGUAGE - 4 cr A comprehensive study of syntax and programming techniques of the C language. Students will study and write programs involving all aspects of the language from simple statements through structures, pointers and linked lists and will learn the use of operating system calls. Prerequisite: CSCD 221.

339 MICROCOMPUTER PROGRAMMING - 4 cr An introduction to programming and problem solving on the microcomputer. Particular attention is paid to approaches, attitudes, and ideas that can be used in teaching programming in the public schools. Fundamental ideas will be introduced in the Logo language and further developed in a high level authoring language/system. Prerequisite: Previous computer experience advised.

360 ADVANCED ASSEMBLY LANGUAGE - 4 cr Assembly language programming in the environment of a multi-user, multi-tasking system. Access to basic system services and low level support for high level languages will be explored. Prerequisites: CSCD 260 or TECH 276; CSCD 226; MATH 105 or 200 or equivalent.

392 METHODS OF TEACHING COMPUTER SCIENCE - 2 cr The formulation of objectives and goals in computer education and development activities designed to attain those goals. Prerequisites: Computer literacy and knowledge of at least one structured programming language.

399 DIRECTED STUDY 1-5 cr Prerequisites: Prior permission of the instructor and the department chair.

400 THE COMPUTER, THE INDIVIDUAL, AND SOCIETY - 4 cr Computers as tools from a societal-cultural perspective; impacts of information systems in an organizational environment, on society and on the individual, and the future directions in which the forces of technology and computing are tending to move us. Prerequisites: Computer Literacy, ENGL 201 and MATH 115 or clearance.

411 MULTIMEDIA TECHNIQUES - 4 cr Study of computer generated media; text, still graphics, animation and sound. The strengths of each media will be explored and a computer presentation using each medium will be created with appropriate software. A final presentation will be multimedia. The student will develop an electronic portfolio using the different media. Prerequisite: Computer Literacy.

412 MULTIMEDIA DESIGN AND IMPLEMENTATION - 4 cr Study of system design and the software development cycle of computer generated multimedia applications. The user interface will be studied. The design and implementation of a "Real World" Multimedia project will be part of the class. Prerequisite: CSCD 411 or permission of the instructor.

415 AUTHORIZING LANGUAGES I - 2 cr A study of an object oriented authoring language on either the Macintosh or DOS platform. This course is designed for non-programmers. The objects, tools and structure of the language will be presented. A project will be part of the course. Prerequisite: Computer Literacy.

416 AUTHORIZING LANGUAGES II - 2 cr A study of the scripting language of an object oriented authoring language on either the Macintosh or DOS platform. This course is designed for non-programmers. Decision statements and repetition will be introduced. Various applications of the scripting language will be studied. A project will be part of the course. Prerequisite: CSCD 415.

420 FINITE STATE AUTOMATA - 4 cr A study of sequential machines—their algebraic, structural, and logical properties. Programming assignments. Prerequisites: CSCD 327, 360, MATH 225 or 301.

421 AUTOMATA AND LANGUAGES - 4 cr Correspondence between automata, languages, and logic circuits. Also covered are the relationships between Turing machines, computability and transducers as algebraic systems. Theory is applied to the first phases of compiler design. Programming assignments are required. Lab. Prerequisite: CSCD 420.

422 COMPILER DESIGN - 4 cr Analysis of syntactic structures as applied to context-free and type 3 grammars. Theoretical development of parsing schema as well as practical applications in implementing such strategies. Programming assignments, oral presentations and written reports are required. Lab. Prerequisite: CSCD 421.

425 DATABASE MANAGEMENT SYSTEMS - 4 cr A study of the logical,

physical, and administrative aspects of database management systems. The hierarchical, network and relational data models and representative implementations are presented. A commercial DBMS will be used for programming assignments, oral presentations and written reports. Lab. Prerequisite: CSCD 327.

426 MICRO DATABASE PROGRAMMING - 4 cr Studies the theory and implementation of a relational database on a micro computer at both the query and programming level. Explores database design and usage. Requires a final project consisting of an implementation at the programming level.

435 PRINCIPLES OF PROGRAMMING LANGUAGES - 3 cr A study and comparison of programming languages by evolution, formal specifications, structures, features, and application domains. Implementation of syntax and semantics and program run-time behavior for several languages will be considered. Each student will give an oral presentation of a term report in this class. Prerequisites: CSCD 327, 360 and the 2nd course in the Junior Enrichment Sequence, or permission of the instructor.

436 ADVANCED PROGRAMMING IN ADA - 4 cr A study of the Ada programming language and environment with emphasis on such topics as error handling, packages, and tasking. Course allows the writing programs and benchwork analysis of various implementations of algorithms in Ada. At least 3 hours of laboratory work per week are expected. Prerequisite: CSCD 327.

440 OPERATING SYSTEMS I - 5 cr Major concepts in the design and modeling of operating systems for digital computers. Topics will include: historical development of operating systems, methods used in simulations, memory management, system protection mechanisms, I/O management, CPU scheduling, process management, file systems. Requires programming assignments, program analyses, and written reports. Prerequisites: CSCD 327, 360.

441 OPERATING SYSTEMS II - 4 cr Studies in concurrent systems, basic networking, and security of systems. Further, an in-depth study of a specific operating system will be performed; this will involve disk partitioning, actual installation of a new operating system onto the student's own hardware, and learning the intricacies of that new system. Prerequisite: CSCD 440.

442 OPERATING SYSTEMS III - 4 cr An analysis of code segments and data structures used in the operating system worked with in CSCD 441. Emphasis will be on the degree to which the hardware/CPU dictates implementation decisions. Projects for interfacing hardware devices to the system will be assigned; individual oral presentations and the development of technical documents detailing the projects will be included. Prerequisite: CSCD 441.

450 SOFTWARE ENGINEERING I - 5 cr Application of software engineering principles to the analysis, specification and design of software systems, with particular emphasis on client/server systems. Topics will include software life cycle models, classical and object-oriented analysis and design, reuse, testing, graphical user-interface design, tools, metrics and project management. Students will work in teams to specify and design software systems based on requirements documents. Each student will use CASE, relational DBMS and project management software. Programming assignments, oral presentations and written reports are required. Prerequisites: CSCD 327.

451 SOFTWARE ENGINEERING II - 5 cr Extension of CSCD 450 to a study of alternative design techniques with particular emphasis on object-oriented design. Topics will include structured design, relational database design, human factors, configuration management, quality assurance, print and on-line documentation, training and maintenance. Students will work in teams to design in detail, implement, install, test and document the software systems defined in CSCD 450. Each team will include members from the ENGL 404 Software Documentation class. Programming assignments, oral presentations and written reports are required. Prerequisite: CSCD 450. Credit is not given for both CSCD 425 and 451.

460 COMPUTER SYSTEMS ARCHITECTURE AND DESIGN I - 5 cr The hardware components of a modern computing system and the use of microprogramming to develop particular logic structures. Requires programming assignments and the use of computer aided circuit design, analysis, and simulation tools. Prerequisites: ENGR 250, CSCD 327, 360.

461 COMPUTER SYSTEMS ARCHITECTURE AND DESIGN II - 5 cr Utilization of material learned in CSCD 460 to a hardware application developed as a group project. Current literature is read. Oral and/or written reports are submitted for evaluation. Prerequisite: CSCD 460.

470 COMPUTER GRAPHICS PROGRAMMING - 4 cr Programming principles and techniques for 2-D and 3-D computer graphics. Included topics: graphics hardware interfaces, generation of 2-D graphics primitives, 2-D and 3-D translation, rotation, scaling and clipping algorithms and modeling/representation of three-dimensional objects. Requires programming assignments. Prerequisites: MATH 163, CSCD 326 and 335 (or equivalent experience with the C Language).

471 ADVANCED GRAPHICS PROGRAMMING - 4 cr Theory and programming techniques for advanced three dimensional computer graphics and photorealistic rendering. Included topics: spline curves and surfaces, solid modeling of 3D objects, light and color modeling, and photo-realistic object rendering using various shading techniques and ray tracing. Requires programming assignments. Prerequisite: CSCD 470 or equivalent.

480 INTRODUCTION TO ARTIFICIAL INTELLIGENCE - 4 cr This course introduces the student to the topic of developing intelligent machine

behavior. Covered material will include state of the art topics, and may vary somewhat. Representative techniques described include artificial intelligence programming techniques, pattern recognition, rule-based systems, neural networks, fuzzy logic, and machine learning. These techniques will be applied to several application areas, such as intelligent agents and robots, intelligent user interfaces/assistants, and control systems. This course is the first in the three quarter Artificial Intelligence series, and topics not covered in this course may be covered in the remaining two courses of the series. This course requires individual and/or group programming projects. Prerequisite: CSCD 326.

481 ARTIFICIAL INTELLIGENCE I - 4 cr This course is a continuation of the Artificial Intelligence series. This course requires individual and/or group programming projects. Prerequisite: CSCD 480 or permission of the instructor.

482 ARTIFICIAL INTELLIGENCE II - 4 cr This course is a continuation of the Artificial Intelligence series. This course requires individual and/or group programming projects. Prerequisite: CSCD 481 or permission of the instructor.

485 DESIGN OF OFFICE AUTOMATION SOFTWARE I - 4 cr Covers general design of text editors for and extensions to other types of software including word processors, electronic spreadsheets, command parsers, menu systems, and electronic mail. Topics include memory management, redisplay algorithms, windows, user interfaces, and customization. Class members design and implement their own editors, preferably in LISP. Prerequisite: CSCD 480.

486 DESIGN OF OFFICE AUTOMATION SOFTWARE II - 4 cr Continuation of Design of Office Automation Software I. Prerequisite: CSCD 485

495 INTERNSHIP - Variable cr

497 WORKSHOPS, SHORT COURSES, CONFERENCES 1-5 cr Selected topics to be arranged in consultation with the requesting organization.

498 SEMINAR 1-5 cr Prerequisite: Prior permission of the instructor.

499 DIRECTED STUDY 1-5 cr Prerequisites: Prior permission of the instructor and the department chair.

● ● ● ● ● CRIMINAL JUSTICE

J. M. Moynahan, Chair
319 Senior Hall
359-2209
MS-17

FACULTY

R. Morgenstern, J. Moynahan
Instructors: L. O'Neel

PROGRAM DESCRIPTION

The Department of Criminal Justice was approved by the Washington State Council on Post Secondary Education in 1976. It is authorized to offer a bachelor of arts degree with broad options in the study of criminology.

Criminology is the scientific study of crime and has been a recognized major on American university campuses since early in this century. Pioneer programs at the University of California, Washington State University and Northwestern University have educated nearly nine decades of men and women in criminology. The programs of study at Eastern Washington University are dedicated to an American pioneer in criminal justice education, Dr. V. A. Leonard (1898-1984).

To assist students in planning their programs, faculty of the department are available each term for advising. The final choice of courses and study program is by faculty decision following consultation with the student. Errors and omissions due to a student's self-advising may delay normal degree progress.

The criminology major features a required core of courses with an elected concentration sufficient to meet or surpass the 68-credit minimum. Electives taken toward the major must be selected from the list provided below. In certain cases additional courses may be elected after consultation with the faculty advisor.

Special programs may be arranged on an individual basis. Lifetime occupational skills credits may be granted through the university's General Studies Program. Upper-division credit will not be granted for lower-division, community college or military transfer courses.

DEGREE/MAJOR-OPTIONS/MINORS/CERTIFICATION DESCRIPTIONS

Bachelor of Arts (BA)

Major: Criminology

Minor

Criminology

ADMISSION REQUIREMENTS/PREPARATION

Students entering study in criminology must be able to type and be computer literate. In addition they must demonstrate basic technical writing skills prior to the accumulation of 20 major credits. Students may meet this requirement by taking ENGL 205, Introduction to Technical Writing (5) or ENGL 305, Professional Writing (5) or by challenging the requirements through examination. Criminology majors must satisfy the General University Requirements before enrolling in the required internship.

CRIM 398, CRIM 495 and CRIM 498 may not be repeated because of a low grade. All other major courses may be repeated only once. Repeated course failure or acts prohibited by the student code of conduct will be grounds for dismissal from the major.

Applicants who have been convicted of serious crimes will be denied acceptance into certain required courses in this major. Students already enrolled will be dropped from study if convicted of a serious misdemeanor or felony crimes. Drug and/or alcohol abuse offenders will be dropped from active study.

DEGREE REQUIREMENTS

BACHELOR OF ARTS

■ Major: Criminology—69 credits minimum

Required Courses: 52 credits

- CRIM 300 Introduction to Criminal Justice (5)
- CRIM 310 Criminal Pathology I: Violence and Society (4)
- CRIM 314 A History of the American Criminal Justice System (5)
- CRIM 386 Basic Concepts of Criminal Law (5)
- CRIM 398 Professional Development Seminar (5)
- CRIM 410 Criminal Pathology II: The Violent Offender (4)
- CRIM 495 Internship in Criminal Justice (10)
- CRIM 498 Seminar in Criminal Justice (5)
- DSCI 245 Data Analysis for Business (5)
- MGMT 326 Organization Theory and Behavior (4)

Electives: 17 credits minimum

Select courses from the following:

- CRIM 299 Individual Study (Var)
- CRIM 302 Criminal Justice Systems and Development (4)
- CRIM 304 Forensic Inquiry (5)
- CRIM 305 Controversial Criminal Justice Topics (4)
- CRIM 307 Special Topics in Criminal Justice (Var)
- CRIM 330 University Law Enforcement and Security (5)
- CRIM 382 Criminal Justice Organization and Administration (5)
- CRIM 383 Development and Organization of the Jail (4)
- CRIM 399 Individual Study (Var)
- CRIM 404 Forensic Identification (4)
- CRIM 416 Comparative Criminal Justice Systems (5)
- CRIM 460 Penology (5)
- CRIM 485 Correctional Counseling: Group Methods (5)
- CRIM 491 Criminal Justice Education and Training (5)
- CRIM 496 Experimental Course in Criminal Justice (5)
- CRIM 497 Workshop in Criminal Justice (5)
- CRIM 499 Individual/Independent Study (Var)
- APSY 355 Psychology of Childhood and Adolescence (5)
- GOVT 300 Law and the Legal Process (5)
- GOVT 302 Criminal Procedures (5)
- GOVT 311 Introduction to American Public Management (5)
- GOVT 330 American Local Government and Politics (5)
- PLAN 261 Community Development (5)
- RCLS 125 Recreation and Leisure Services Activities (1)
- SOCI 459 Community Based Corrections (3)

Note: Two years of a single high school foreign language or one year of a single foreign language at college level is required for the above major.

Note: The above major does not require the completion of a minor.

Minor

Minor: Criminology

Required Courses: 18 credits

- CRIM 300 Introduction to Criminal Justice (5)
- CRIM 310 Criminal Pathology I: Violence and Society (4)
- CRIM 314 A History of the American Criminal Justice Society (5)
- CRIM 410 Criminal Pathology II: The Violent Offender (4)

Electives: 10 credits

Select courses from any other CRIM prefix courses.

COURSE DESCRIPTIONS Criminal Justice (CRIM)

299 INDIVIDUAL STUDY - Variable cr Individual study in criminology. Topics are mutually agreed upon by the instructor and student. Prerequisite: Prior permission of the instructor.

300 INTRODUCTION TO CRIMINAL JUSTICE - 5 cr This course is taught from the perspective of the criminologist and emphasizes the interaction within and between the systems of law enforcement, the courts and treatment.

302 CRIMINAL JUSTICE SYSTEMS AND DEVELOPMENT - 4 cr A survey and analysis of the origins and development of the contemporary criminal justice system in America.

304 FORENSIC INQUIRY - 5 cr Scientific methods of inquiry used in forensic investigations. Includes methodologies from social science, natural science, law, and criminology. For majors only.

305 CONTROVERSIAL CRIMINAL JUSTICE TOPICS - 4 cr A variety of controversial topics which exist in the criminal justice system. Examples may include vice, police unions, capital punishment, and prisoners' rights. May be taken under two separate titles.

307 SPECIAL TOPICS IN CRIMINAL JUSTICE - Variable cr An open topics course on contemporary criminal justice practice. May be taken under two separate titles.

310 CRIMINAL PATHOLOGY I: VIOLENCE AND SOCIETY - 4 cr A theoretical examination of violence and society. Examines historical and contemporary theorists to determine causation and control of interpersonal violence. Prerequisite: Junior standing.

314 A HISTORY OF THE AMERICAN CRIMINAL JUSTICE SYSTEM - 5 cr A historical survey of the origins and development of the American criminal justice institution.

320 INSTRUMENTAL DETECTION OF DECEPTION - 4 cr A study of the development and use of the polygraph in the 20th century. Emphasizes theory and practice.

330 UNIVERSITY LAW ENFORCEMENT AND SECURITY - 5 cr A lecture, laboratory and field course in University Law Enforcement and Security. Lecture covers general knowledge and specific protection problems, laboratory and supervised field experience teaches methods of patrol and protection. Requires evening and weekend activities.

382 CRIMINAL JUSTICE ORGANIZATION AND ADMINISTRATION - 5 cr Basic organization and management of criminal justice agencies. Discusses line, personnel, and auxiliary functions.

383 DEVELOPMENT AND ORGANIZATION OF THE JAIL - 4 cr A study of the development and organization of the jail as found in the United States.

386 BASIC CONCEPTS OF CRIMINAL LAW - 5 cr A survey of the basic concepts and content of the American substantive criminal law, including purposes, basic concepts, defenses, and selected substantive offenses.

398 PROFESSIONAL DEVELOPMENT SEMINAR - 5 cr Required of all majors. Covers values, ethics and personal development. For majors only.

399 INDIVIDUAL STUDY - Variable cr Individual study in criminology. Topics are mutually agreed upon by the instructor and student. Prerequisite: Prior permission of the instructor.

404 FORENSIC IDENTIFICATION - 4 cr An advanced laboratory course in Forensic Facial Reconstruction, Forensic Osteology and Computer Applications to Forensic Identification. Prerequisites: CRIM 304 and prior permission of the instructor. Limited to 15 students.

410 CRIMINAL PATHOLOGY II: THE VIOLENT OFFENDER - 4 cr A scientific study of the individual who commits interpersonal violence. Topics include insanity, psychopathology, murder, assault, and sexual assault. Prerequisite: Junior standing.

416 COMPARATIVE CRIMINAL JUSTICE SYSTEMS - 5 cr A comparative approach to understanding the different criminal justice systems found throughout the world.

460 PENOLOGY - 5 cr A study of the contemporary practice of penology in the western world with special attention to the United States and Washington state. Lecture, laboratory and required field trips to Northwest Custodial Institutions. Enrollment limited. Special fees. Students pay food and lodging expenses. CJ majors have priority. Prerequisite: Acceptable background security check.

483 ADMINISTRATION OF THE AMERICAN JAIL - 3 cr Emphasizes theory and role of administration in both city and county jails.

485 CORRECTIONAL COUNSELING: GROUP METHODS - 5 cr Examines group methods used with criminal offenders, both juvenile and adult. Includes treatment programs, evaluation and therapeutic environments.

491 CRIMINAL JUSTICE EDUCATION AND TRAINING - 5 cr Presents a laboratory approach for preparation of the professional training officer. Methods include instruction in preparation and delivery of lectures; process learning; dramatic methods; simulations and commercial sources of instructional information.

495 INTERNSHIP - Variable cr The intern earns credits through participation in a full-time work experience. The length of time is determined by the amount of credit. Normally it will be 10 weeks. Requirements include an on site visit, detailed written report and additional assignments. Internships are limited to the state of Washington and some selected Idaho and Oregon locations. Applications and approval must be obtained prior to the internship experience. Credit for unapproved internship or life experience is not granted. Prerequisites: 1) 2.50 GPA, 2) at least four core courses, 3) CRIM 486, 4) accepted member of Department, and 5) prior permission of intern instructor.

496 EXPERIMENTAL COURSE - Variable cr

497 WORKSHOP - Variable cr

498 SEMINAR - 5 cr A required seminar for majors. For majors only. Prerequisites: 1) ENGL 205, 2) DSCI 245, 3) 40 major credits, and 4) prior permission of the instructor.

499 INDIVIDUAL/INDEPENDENT STUDY - Variable cr For individual/independent study in criminal justice. Topics are mutually agreed upon by the instructor and the student. Not open to students with a GPA below 3.00. Prerequisite: Prior permission of the instructor.



DENTAL HYGIENE

Gayle Orton, Department Chairperson

Spokane—Paulsen Medical Center, Suite 252, W. 407 Riverside Ave
(Program Office and Clinic)

623-4319

MS-5

Advisers: S. Harris Sledge and K. Barber Ocheltree

FACULTY

P. Ellingson, C. Garvin, S. Harris Sledge, D. McHenry, A. Nickerson, G. Orton

PROGRAM DESCRIPTION

The Department of Dental Hygiene functions within the university setting and offers a baccalaureate degree in dental hygiene which combines a strong liberal arts background with a professional education. General education courses, basic, dental and dental hygiene science courses are integrated into the practice of dental hygiene. The faculty of the department are committed to creating an educational environment that will facilitate the development of responsible professionals who can function effectively in a constantly changing society.

Bachelor of Science in Dental Hygiene (BDH)

Major: Dental Hygiene

Program Goals

The following goals direct the design of the program at Eastern Washington University. Upon completion of this program, graduates will be competent to:

- ◆ apply the Code of Ethics of the American Dental Hygienists' Association, managing the ethical issues of dental hygiene practice in a rapidly changing environment.
- ◆ acquire and synthesize information in a critical, scientific, and competent manner and be able to effectively communicate this information orally and in writing.
- ◆ provide educational services using appropriate interpersonal communication skills and educational strategies to promote optimum health.
- ◆ assume responsibility for health promotion and assist in the treatment of oral diseases within diverse populations.
- ◆ function as entry-level dental hygiene professionals in assessing, planning, implementing and evaluating dental hygiene care.
- ◆ assume responsibility for life-long learning as a professional, citizen and individual.
- ◆ function as a team member in the delivery of comprehensive oral care.

The dental hygiene program consists of a minimum of one year of pre-dental hygiene courses followed by a three-year professional curriculum. The professional segment of the three-year curriculum includes emphasis on dental sciences, community dental health, health research theory, and clinical practice in traditional and expanded functions. Dental clients are treated at the EWU clinic and at the Veterans' Administration Medical Center. The program is fully accredited by the Council on Dental Education of the American Dental Association and leads to a specialized Bachelor of Science in Dental Hygiene degree. It is the only traditional baccalaureate dental hygiene program in Washington State. Interdisciplinary degree possibilities are available for dental hygienists from two-year institutions who desire baccalaureate degree; transcripts and inquiries should be directed to the admissions adviser of the dental hygiene program, Eastern Washington University.

Placement Record

EWU dental hygiene graduates have an excellent placement record in Spokane and statewide. The program has a 21-chair clinic located in the Paulsen Medical Center in Spokane. The clinic provides dental services to the general public by students under direct faculty supervision.

ADMISSION REQUIREMENTS/PREPARATION

General: All students enrolling in dental hygiene courses must hold a current CPR Certification.

High School Students: Those students interested in dental hygiene should complete one year of high school chemistry, biology, and algebra. Two years of high school foreign language is encouraged.

Transfer Students: Students transferring from either four-year institutions or community colleges must first apply for admission to the university through the EWU Admissions Office, which will evaluate transfer course work and, upon request, send a copy of the transcript evaluation to the Dental Hygiene Program.

Once admitted to EWU, transfer students should declare their major and contact the Dental Hygiene Program to meet with a program adviser for curricular planning.

Applications to the dental hygiene program will not be processed until students have been formally admitted to the university and a copy of their transcript evaluation has been sent from Admissions to the Dental Hygiene Program.

Students interested in majoring in dental hygiene should request current information on application procedures and seek advising early in their university program. During the first year(s) of study, students complete General Education Core Requirements and dental hygiene prerequisite courses. During the final year of prerequisites (either Fall or Winter Quarter), students must formally apply for admission to the Dental Hygiene Department, which begins its session the following Fall Quarter. Applications are available in the program office.

All applicants must complete the Allied Health Professions Admissions Test (AHPAT) during their final year of prerequisites. The test is given throughout the nation in September, November, January, and April. The test application deadlines are 30 days before each date. In order to have the test results in on time, students are urged to take the test in September, November, or January of their final year of prerequisites. AHPAT booklets/applications may be obtained from the dental hygiene office in Spokane, or by writing to the Psychological Corporation, 7500 Old Oak Blvd., Cleveland, Ohio, 44130.

Students are urged to maintain contact with program advisers during their prerequisite year(s) because admission criteria are revised periodically. Since enrollment into the program is limited and the admission process is competitive, no assurance can be given that all applicants admitted to the university and successfully completing the prerequisite course work will be admitted to the dental hygiene program.

DEGREE REQUIREMENTS

BACHELOR OF SCIENCE IN DENTAL HYGIENE

■ **Major:** Dental Hygiene—152 - 155 credits

Required Courses: 150-153 credits

DNHY 300 Head and Neck Anatomy (3)
 DNHY 301 Dental Anatomy (3)
 DNHY 302 Histology/Embryology (3)
 DNHY 310 Radiography (3)
 DNHY 311 Radiography (2)
 DNHY 320 Pharmacology and Dental Emergencies (3)
 DNHY 321 Pain Control (3)
 DNHY 330 Preclinical Dental Hygiene I (4)
 DNHY 331 Preclinical Dental Hygiene II (4)
 DNHY 332 Preclinical Dental Hygiene III (3)
 DNHY 341 Pathophysiology I (3)
 DNHY 342 Pathophysiology II (3)
 DNHY 350 Clinical Dental Hygiene I (4)
 DNHY 351 Clinical Dental Hygiene II (4)
 DNHY 352 Clinical Dental Hygiene III (4)
 DNHY 360 Preventive Dentistry (2)
 DNHY 380 Introduction to Restorative Duties I (3)
 DNHY 381 Principles of Restorative Duties II (2)
 DNHY 421 Periodontology I (3)
 DNHY 422 Periodontology II (2)
 DNHY 430 Oral and General Dentistry Pathology (3)
 DNHY 450 Clinical Dental Hygiene IV (3)
 DNHY 451 Clinical Dental Hygiene V (5)
 DNHY 452 Clinical Dental Hygiene VI (5)
 DNHY 453 Clinical Dental Hygiene VII (6)
 DNHY 460 Community Dental Health I (2)
 DNHY 461 Community Dental Health II (2)
 DNHY 466 Career Strategies (1)
 DNHY 470 Research Methods (3)
 DNHY 471 Ethics and Jurisprudence (3)
 DNHY 480 Restorative Clinic I (3)
 DNHY 481 Restorative Clinic II (2)
 DNHY 482 Restorative Clinic III (2)
 DNHY 498 Seminar (2-3)
 BIOL 232 Human Anatomy and Physiology (5)
 BIOL 233 Human Anatomy and Physiology (5)
 BIOL 234 Human Anatomy and Physiology (5)
 BIOL 335 Elementary Medical Microbiology (5)
 CHEM 161 General Chemistry for the Health Sciences (5)
 CHEM 162 Organic Chemistry for the Health Sciences (5)

CHEM 163 Biochemistry for the Health Sciences (5)
 CMST 210 Interpersonal Communication for the Health Sciences (4)
 FNNDT 356 Nutrition (5)
 or HLED 372 Applied Nutrition and Physical Fitness (3)
 PSYC 100 General Psychology (5)

Electives: 2-7 credits (2 credits minimum)

Select elective courses from the following:

DNHY 423 Advanced Periodontology (3)
 DNHY 462 Advanced Community Dental Health (2)
 DNHY 483 Specialties of Restorative Treatment (2)

Note: The above major does not require the completion of a minor.

COURSE DESCRIPTIONS Dental Hygiene (DNHY)

300 HEAD AND NECK ANATOMY - 3 cr A detailed study of head and neck anatomy, including bones, musculature, blood, lymphatic and nerve supply. Prerequisite: Admitted to Dental Hygiene program.

301 DENTAL ANATOMY - 3 cr A detailed anatomical study of human teeth, their eruption, exfoliation and occlusion. Prerequisite: Admitted to Dental Hygiene program.

302 HISTOLOGY/EMBRYOLOGY - 3 cr A detailed study of oral histology and embryology. Development of the face and oral cavity; microscopic anatomy of the oral cavity. Prerequisite: Admitted to Dental Hygiene program.

310, 311 RADIOGRAPHY - 3, 2 cr Clinical and physical principles of x-ray production, hazards, and safety procedures, with an orientation to oral anatomy and completion of acceptable full-mouth surveys on dental clients. Techniques for advanced skills and panoramic radiography emphasized in 311.

320 PHARMACOLOGY AND DENTAL EMERGENCIES - 3 cr Principles of pharmacological and therapeutic action of drugs used in dentistry and orientation in dental emergencies.

321 PAIN CONTROL - 3 cr This course is designed to give the student an understanding of the history, theory and use of nitrous oxide sedation and dental local anesthetic agents. Prerequisite: Admission in Dental Hygiene program.

330, 331 PRECLINICAL DENTAL HYGIENE I, II - 4 cr each The first two of three courses focusing on the introduction to clinical dental hygiene treatment, emphasizing the importance and techniques of infection control procedures, the oral evaluation and physical evaluation of the client. Prerequisite: Admittance into the Dental Hygiene program or waiver by instructor.

332 PRECLINICAL DENTAL HYGIENE III - 3 cr The third of three courses focusing on the introduction to clinical dental hygiene treatment, continuing emphasis on those topics covered in 330 and 331 and introducing the removal of deposits from the dentition. Prerequisite: Admittance into the Dental Hygiene program or waiver by instructor.

341 PATHOPHYSIOLOGY I - 3 cr Medical conditions and their implications for dentistry focusing primarily on allergic reactions, cardiovascular system and recognition of child abuse and neglect.

342 PATHOPHYSIOLOGY II - 3 cr Medical conditions and their implications for dentistry focusing on pulmonary, renal, muscular-skeletal, nervous, endocrine, hemopoietic and digestive systems.

350, 351, 352 CLINICAL DENTAL HYGIENE I, II, III - 4 cr each Supervised experience in clinical procedures of dental hygiene, increasing in scope of opportunity as skill is attained. Prerequisite: Admittance into the Dental Hygiene program or waiver by instructor.

360 PREVENTIVE DENTISTRY - 2 cr Course emphasis is placed upon gaining a working knowledge of all aspects of preventive dentistry, including self care, fluorides, dental caries, periodontal diseases and hard and soft deposits.

380 INTRODUCTION TO RESTORATIVE DUTIES I - 3 cr Introducing dental materials with technique, laboratory, and clinical experience in the restorative duties that can legally be assumed by the dental hygienist. Prerequisite: Admittance into the Dental Hygiene program or waiver by instructor.

381 PRINCIPLES OF RESTORATIVE DUTIES II - 2 cr Introducing additional dental materials from those experienced in DNHY 380.

421 PERIODONTOLOGY I - 3 cr A detailed study of the various periodontal diseases, with emphasis on histological and clinical recognition as well as treatment of the diseases. Prerequisite: Acceptance in Dental Hygiene program or waiver.

422 PERIODONTOLOGY II - 2 cr Continued study of the recognition and treatment of periodontal diseases, especially as they relate to dental hygiene practice. Prerequisite: DNHY 421.

423 ADVANCED PERIODONTOLOGY - 3 cr This elective course will provide a transition from "academic" periodontics to clinical periodontics in the private practice setting. Prerequisite: Admittance into the Dental Hygiene program or waiver by instructor.

430 ORAL AND GENERAL PATHOLOGY - 3 cr A histopathological study of oral lesions, pathogenic conditions of particular significance to dentistry, and principles of general pathology.

450 CLINICAL DENTAL HYGIENE IV - 3 cr The first of four quarters of supervised experiences in clinical procedures of dental hygiene, increasing in scope of opportunity as skill is attained. Prerequisite: Admittance into the Dental Hygiene program or waiver by instructor.

451, 452 CLINICAL DENTAL HYGIENE V, VI - 5 cr each The second and third of four quarters of supervised experiences in clinical procedures of dental hygiene, increasing in scope of opportunity as skill is attained. Prerequisite: Admittance into the Dental Hygiene program or waiver by instructor.

453 CLINICAL DENTAL HYGIENE VII - 6 cr The last of five supervised experiences in clinical procedures of dental hygiene, increasing in scope of opportunity as skill is attained. Prerequisite: Admittance into the Dental Hygiene program or waiver by instructor.

460 COMMUNITY DENTAL HEALTH I - 2 cr A survey of various community dental health programs, with field experience in dental health instruction in schools, nursing homes, community centers and hospitals. Emphasis is placed on research methodology.

461 COMMUNITY DENTAL HEALTH II - 2 cr A survey of various community dental health programs, with field experience in dental health instruction in schools, nursing homes, community centers, and hospitals.

462 ADVANCED COMMUNITY DENTAL HEALTH - 2 cr This elective course will provide application of community dental health in the public sector. Prerequisite: Admittance into the Dental Hygiene program or waiver by instructor.

466 CAREER STRATEGIES - 1 cr A survey of employment search skills specifically targeted for the graduating Dental Hygiene student.

470 RESEARCH METHODS - 3 cr Basic principles of research and the facilitation of the development of analytical skills for evaluation of professional research. Prerequisite: Admittance into the Dental Hygiene program or waiver by instructor.

471 ETHICS AND JURISPRUDENCE - 3 cr History, interrelations, and ethics of branches of dentistry. Also a study of the laws governing the practice of dental hygiene. Prerequisite: Admittance into the Dental Hygiene program or waiver by instructor.

480 RESTORATIVE CLINIC I - 3 cr The first of three quarters of clinical practice in restorative duties. For selected dental clients, insertion of silver amalgam and tooth-colored restorations in teeth prepared by dentist supervisors. Prerequisite: Admittance into the Dental Hygiene program or waiver by instructor.

481, 482 RESTORATIVE CLINIC II, III - 2 cr each The second and third of three quarters of clinical practice in restorative duties. For selected dental clients, insertion of silver amalgam and tooth-colored restorations in teeth prepared by dentist supervisors. Prerequisite: Admittance into the Dental Hygiene program or waiver by instructor.

483 SPECIALTIES OF RESTORATIVE TREATMENT - 2 cr This elective course provides facilitation of knowledge of various restorative specialties and procedures designed to give the student information on advanced restorative procedures. Prerequisite: Admittance into the Dental Hygiene program or waiver by instructor.

498 SEMINAR 2-3 cr Individual and small-group development of projects which relate to each student's interests and goals.



EARTH SCIENCE

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Department of Geography and Anthropology
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359-7940

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359-7473

FACULTY

Varies

PROGRAM DESCRIPTION

The Earth Science major and minor are interdisciplinary, with required courses from geography, geology, physics, chemistry, biology, and natural science. Earth Science is offered as a major for secondary education and as a minor for both secondary and elementary education. Both the secondary major and minor meet state endorsement requirements. A minor is required with this major. Recommended minors include biology, mathematics, chemistry, physics, and computer science.

Teaching opportunities for students graduating from the Earth Science program have been moderately good, particularly for those students who obtain complementary preparation through a minor and electives.

DEGREE/MAJOR-OPTIONS/MINORS/CERTIFICATION DESCRIPTIONS

Bachelor of Arts in Education (BAE)

Major: Earth Science/Secondary

Minor

Earth Science/Elementary or Secondary

The purpose of this major and minor is to prepare students to teach Earth Science in public and private schools (grades 4-12). Generally Earth Science is taught in the junior high school or middle school. Also, it is occasionally taught as a high school elective or in the upper elementary grades.

Certification

Endorsements Associated with Baccalaureate Majors and Minors: Earth Science/Secondary (BAE) major satisfies the Primary Endorsement: 4-12; Earth Science/Secondary (BAE) minor satisfies the Supporting Endorsement: 4-12.

ADMISSION REQUIREMENTS/PREPARATION

High school students who plan to enter this program are encouraged to take three or four years of both science and mathematics in high school. University students should generally complete their GECR requirements particularly in the Natural Sciences and MATH 115 prior to entering the program. Students are encouraged to contact the Earth Science advisers to aid them in selecting these GECR courses.

DEGREE REQUIREMENTS

Grade requirement for BAE:

2.50 cumulative average
2.0 in each course

BACHELOR OF ARTS IN EDUCATION

■ **Major:** Earth Science/Secondary—62 - 63 credits

Required Courses: 57-58 credits

BIOL 100 Introduction to Biology (5)

CHEM 100 Introduction to Chemistry (5)

GEOG 204 Atmospheric Environment (5)

or GEOG 314 Weather and Climate (5)

GEOG 305 Introduction to Oceanography (5)

GEOG 310 Geography of Landforms (4)

or GEOG 410 Geomorphology (5)

GEOG/GEOL 390 Earth Science Methods (3)

GEOL 201 Physical Geology (5)

GEOL 202 Physical Geology (5)

GEOL 307 Rocks and Minerals (5)

GEOL 314 Historical Geology (5)

PHYS 100 Physical Science I (5)

PHYS 121 Descriptive Astronomy (5)

Electives: 5 credits

Select from the following after consultation with the Earth Science Adviser

GEOG 201 Field Methods (5)

GEOG 204 Atmospheric Environment (5)

GEOG 300 Physical Geography (5)

GEOG/BIOL 306 Forest and Rangelands (5)

GEOG/BIOL 312 Fundamentals of Soil Science (4)

GEOG 315 Introduction to Surface Hydrology (4)

GEOG 316 Environmental Conservation (5)

GEOG 317 Resources and Conservation (3)

GEOG 327 Cartography II: Applied Cartography (5)

GEOG 329 Air Photo Interpretation (5)

GEOG 410 Geomorphology (5)

GEOG 414 Regional Climatology (3)

GEOL 205 Geology of the National Parks (5)

GEOL 220 Environmental Geology (4)

GEOL 308 Life in the Geologic Past (5)

GEOL 310 Mineralogy (Crystallography) (4)

GEOL 311 Mineralogy (Chemical) (4)

GEOL 360 Geologic Hazards (4)

GEOL 408 Invertebrate Paleontology (4)

GEOL 411 Stratigraphy (4)

GEOL 412 Structural Geology (4)

Professional Education Requirements/Secondary Education: 39-41 credits

See the Department of Education section of this catalog. Prerequisites may also apply.

Note: The above is an interdisciplinary major. See an adviser to determine if courses required by this major may be taken in partial fulfillment of the GECR. A minor is required with the above major.

Note: The above major takes more than 12 quarters at 15-16 credits a quarter.

Minors

Minor: Earth Science/Elementary—18 - 20 credits

Required Courses: 10 credits

GEOG 100 Fundamentals of the Physical Environment (5)

GEOL 100 Discovering Geology (5)

Electives: 8-10 credits

Select courses in physical Geography: 4-5 credits

Select courses in Geology: 4-5 credits

Minor: Earth Science/Secondary—48 credits

Required Courses: 48 credits

BIOL 100 Introduction to Biology (5)

CHEM 100 Introduction to Chemistry (5)

GEOG 204 Atmospheric Environment (5)

or GEOG 314 Weather and Climate (5)

GEOL 201 Physical Geology (5)

GEOL 202 Physical Geology (5)

GEOG 305 Introduction to Oceanography (5)

GEOL 314 Historical Geology (5)

GEOG/GEOL 390 Earth Science Methods (3)

PHYS 100 Physical Science I (5)

PHYS 121 Descriptive Astronomy (5)

COURSE DESCRIPTIONS

Earth Science (ESCI)

See Course Descriptions listed under the participating programs and departments: Chemistry and Biochemistry, Geography and Anthropology, Geology, Mathematics, Natural Science, and Physics.

ECONOMICS

Shik Young, Chair
304 Patterson Hall
359-2281
MS-36

FACULTY

T. Bonsor, L. Brown, D. Bunting, T. Karier, L. Kiser, T. Liu, A. Neils, D. Orr, C. Poirot, W. Trulove, S. Young

PROGRAM DESCRIPTION

Economics deals with factors influencing employment, inflation, and business cycles as well as those that determine wages, profits, and interest rates. Basic to the study of economics is how supply and demand determine prices and output, how employers utilize productive resources, and how consumers choose among goods and services. Topics of interest to economists include production and distribution, competition and monopoly, sexism and discrimination, urban and regional development, international trade and finance, money and banking, poverty and unemployment, labor, and natural resources.

A major in Economics prepares students for employment in the private or public sector as well as for graduate study in advanced economics, law, public policy, or business administration. While based in the liberal arts, the economics program nonetheless provides sufficient technical and applied instruction so that students are prepared for careers in a wide variety of occupations.

Upon graduation, majors in economics have taken such jobs as stockbrokers, union business officers, insurance salespersons, quality control inspectors, market analysts, management trainees, and computer programmers. Majors have begun their work careers with export/import firms, public utility consultants, railroads, banks, and with a variety of local, state, and federal agencies. Those who have continued their economics education have gone to graduate schools such as Yale, Purdue, UCLA, Rice, Oregon, Washington State and the University of Washington, as well as to a number of separate law schools and MBA programs.

The Department of Economics offers a number of options for its majors. Students Seeking a liberal arts education can select the Economics I major (60-64 credits), while the Economics II major (75-79 credits) provides a strong general economics education with some specialization. Students preparing for graduate school or a career in technical economic analysis should select the joint economics-mathematics major. While more difficult, this joint major prepare students to apply advanced techniques from economics, statistics, and mathematics to theoretical and practical problems. To provide students with a related-field of study, the following options in the following eleven areas are offered: business, environmental studies,

geography, government, health service administration, history, international affairs, journalism, labor relations, pre-law, and urban-regional planning. For teacher preparation, a bachelor of arts in education: Economics/Elementary and Secondary is also available.

In addition, the Department of Economics offers a twenty-credit minor for students majoring in some other subject, and a choice of two minors for education majors.

More information regarding the above majors and minors may be obtained by contacting the department chair.

DEGREE/MAJOR-OPTIONS/MINORS/CERTIFICATION DESCRIPTIONS

Bachelor of Arts (BA)

Major: Economics

Options: Business Minor
Labor Relations

Major: Economics I
Economics II
Economics and Mathematics

Bachelor of Arts in Education (BAE)

Major: Economics/Elementary or Secondary

Minors

Economics

Economic/Elementary or Secondary

Certification

Endorsements Associated with Baccalaureate Majors and Minors:
Economics/Elementary or Secondary (BAE) major satisfies the Primary Endorsement: 4-12; Economics/Elementary or Secondary (BAE) minor satisfies the Supporting Endorsement: 4-12;

Endorsement Add-On(s): Economics 4-12; Social Science Education, 4-12. (See Social Science Education Program in the Fields of Study section of this catalog.)

Labor Studies Certificate

ADMISSION REQUIREMENTS/PREPARATION

Students considering a major in economics should note that all upper-division courses generally assume satisfaction of the university requirement of competency in basic mathematics and English. Further, all major programs require some college-level mathematics, as well as statistics an use of computer. Students are strongly urged to consult with a department adviser early in their academic careers to plan not only an interesting but also an efficient program in economics.

DEGREE REQUIREMENTS

Economics Required Core: 35-39 credits

ECON 200 Introduction to Microeconomics (5)

ECON 201 Introduction to Macroeconomics (5)

ECON 304 Intermediate Microeconomic Theory (5)

ECON 305 Intermediate Macroeconomic Theory (5)

ECON 492 Outcome Assessment (1)

CSCD 120 Computer Fundamentals with Programming Concepts (5)

or MISC 311 Information Technology in Business (4)

MATH 200 Finite Mathematics (5)

or MATH 161 Calculus I (5)

DSCI 245 Data Analysis for Business (5) and DSCI 246 Advanced Data Analysis for Business (3)

or MATH 380 Elementary Probability and Statistics (5)

BACHELOR OF ARTS

■ **Major:** Economics I—60 - 64 credits

Economics Core: 35-39 credits

Electives: 25 credits

Select upper-division economics courses.

Note: Two years of a single high school foreign language or one year of a single foreign language at college level is required for the above major.

Note: The above major requires the completion of a non-economics minor.

■ **Major:** Economics II—75 - 79 credits

Economics Core: 35-39 credits

Electives: 40 credits

Select upper-division economics courses.

Note: Two years of a single high school foreign language or one year of a single foreign language at college level is required for the above major.

Note: The above major does not require the completion of a minor.

Major: Economics

● **Option:** Business Minor—81 - 85 credits

Economics Core: 35-39 credits

Required Courses: 38 credits

ACCT 251 Principles of Financial Accounting (5)
 ACCT 252 Principles of Managerial Accounting (4)
 MGMT 326 Organization Theory and Behavior (4)
 ECON 435 Managerial Economics (5)
 20 additional credits in upper-division economics

Select one of the following options: 8 credits

Option in General Business: select 2 courses

FINC 335 Financial Management (4)
 HUMR 328 Personnel Management (4)
 MKTG 310 Principles of Marketing (4)
 OPSM 330 Operations Management (4)

Option in Marketing:

MKTG 310 Principles of Marketing (4)
 MKTG 311 Marketing Analysis (4)

Option in Accounting and Finance:

ACCT 356 Cost Accounting I (4)
 FINC 335 Financial Management (4)

Option in Operations Management:

OPSM 330 Operations Management (4)
 OPSM 425 Operations Management Analysis (4)

Note: Two years of a single high school foreign language or one year of a single foreign language at college level is required for the above major.

Note: The above major does not require the completion of a non-economics minor.

Major: Economics

● **Option:** Labor Relations—77 - 83 credits

Economics Core: 35-39 credits

Required Course: 5 credits

ECON 321 Labor Economics (5)

Electives: 37-39 credits

20 credits from the following:

ECON 420/HIST 489 Labor History (5)
 ECON 422 Economics of Trade Unions (5)
 ECON 423 Collective Bargaining (5)
 ECON 426 Labor Legislation and Public Policy (5)
 ECON 427 The Economics of Women and Work (5)

17-19 credits from the following:

HUMR 328 Personnel Management (4)
 HUMR 427 Compensation Administration (4)
 MGMT 327 Organizational Behavior (4)
 PSYC 482 Social Psychology of Interpersonal Behavior (5)
 PSYC 484 Industrial and Organizational Psychology (5)
 SOCI 471 Sociology of Work (5)

Note: Two years of a single high school foreign language or one year of a single foreign language at college level is required for the above major.

Note: The above major requires the completion of a non-economics minor.

■ **Major:** Economics and Mathematics—85 - 88 credits

Required Courses: 74 credits

ECON 200 Introduction to Microeconomics (5)
 ECON 201 Introduction to Macroeconomics (5)
 ECON 304 Intermediate Microeconomic Theory (5)
 ECON 305 Intermediate Macroeconomic Theory (5)
 ECON 430 Introduction to Mathematical Economics (5)
 ECON 431 Mathematical Economics (5)
 ECON 437 Econometrics (5)
 CSCD 120 Computer Fundamentals of Programming Concepts (5)
 MATH 161 Calculus I (5)
 MATH 162 Calculus II (5)
 MATH 163 Calculus III (5)
 MATH 225 Foundations of Mathematics (5)
 MATH 231 Linear Algebra (5)
 MATH 347 Introductory Differential Equations (4)
 MATH 384 Introduction to Probability and Statistics (5)

Select one of the following concentrations: 11-14 credits

Economics Concentration: 11 credits

ECON 492 Outcome Assessment (1)
 10 credits from upper-division economics

Mathematics Concentration: 14 credits

MATH 345 Numerical Analysis I (4)
 MATH 385 Probability and An Introduction to Statistics (4)
 MATH 445 Numerical Analysis II (4)
 or MATH 485 Theoretical Probability and Mathematical Statistics (4)
 MATH 494 Senior Seminar (2)

Note: Because the above is an interdisciplinary major, it is necessary to consult with an adviser to determine if courses required by this major may be used to fulfill the GEQR. Students considering graduate study in Mathematical Economics are advised to take MATH 261 and 361. The above major is offered jointly by the Departments of Mathematics and Economics.

Note: Two years of a single high school foreign language or one year of a single foreign language at college level is required for the above major.

Note: The above major does not require the completion of a minor.

BACHELOR OF ARTS IN EDUCATION

■ **Major:** Economics/Elementary or Secondary—56 - 58 credits

Required Courses: 18 credits

ECON 200 Introduction to Microeconomics (5)
 or ECON 300 Microeconomics (5)
 ECON 201 Introduction to Macroeconomics (5)
 or ECON 301 Macroeconomics (5)
 ECON 412/HIST 487 Economic History of the United States (5)
 ECON 490 Economic Education (3)
 or equivalent directed study (3)
 or preapproved economic education workshop (3)

Electives: 24-25 credits

ECON 321 Labor Economics (5)
 or ECON 340 Public Finance (5)
 or ECON 344 Money and Banking (5)
 and ECON 470 International Economics (5)
 or ECON 475 Capitalism and Socialism (5)
 or ECON 480 Economic Development (5)
 and Additional electives chosen from the courses listed below: 14-15 credits
 ECON 304 Intermediate Microeconomic Theory (5)
 ECON 305 Intermediate Macroeconomic Theory (5)
 ECON 410/HIST 450 Economic History of Europe (5)
 ECON 449 Political Economy (5)

Professional Education requirements/Elementary Education: 65-69 credits

or

Secondary Education: 39-41 credits

See the Department of Education section of this catalog.

Minors

Minor: Economics—20 credits

Required Courses: 10 credits

ECON 200 Introduction to Microeconomics (5)
 ECON 201 Introduction to Macroeconomics (5)

Electives: 10 credits

Select upper-division courses in Economics.

Minor: Economics/Elementary or Secondary—28 credits

Required Courses: 18 credits

ECON 200 Introduction to Microeconomics (5)
 or ECON 300 Microeconomics (5)
 ECON 201 Introduction to Macroeconomics (5)
 or ECON 301 Macroeconomics (5)
 ECON 412/HIST 487 Economic History of the United States (5)
 ECON 490 Economic Education (3)
 or equivalent directed study (3)
 or preapproved economic education workshop (3)

Electives: 10 credits

ECON 321 Labor Economics (5)
 or ECON 340 Public Finance and Taxation (5)
 or ECON 344 Money and Banking (5)
 and ECON 470 International Economics (5)
 or ECON 475 Capitalism and Socialism (5)
 or ECON 480 Economic Development (5)

Minor: Economics—18 credits

Required Courses: 18 credits

ECON 200 Introduction to Microeconomics (5)
 or ECON 300 Microeconomics (5)
 ECON 201 Introduction to Macroeconomics (5)
 or ECON 301 Macroeconomics (5)
 ECON 412 Economic History of the U.S. (5)
 ECON 490 Economic Education (3)
 or equivalent directed study (3)
 or preapproved economic education workshop (3)

Course Requirements for Teacher Certification/Add-On Endorsement(s) Economics: 4-12/38 credits

(For students who currently possess Washington state's Initial Teaching Certificate)

ECON 200 Introduction to Microeconomics (5)
 or ECON 300 Microeconomics (5)
 ECON 201 Introduction to Macroeconomics (5)
 or ECON 301 Macroeconomics (5)
 ECON 321 Labor Economics (5)
 ECON 340 Public Finance (5) or ECON 344 Money and Banking (5)
 and ECON 470 International Economics (5)
 ECON 412 Economic History of the U.S. (5)
 ECON 490 Economic Education (3)
 or equivalent directed study (3)
 or preapproved economic education workshop (3)
 ECON 475 Capitalism and Socialism (5)
 or ECON 480 Economic Development (5)

COURSE DESCRIPTIONS

Economics (ECON)

100 GENERAL EDUCATION ECONOMICS - 5 cr General consideration of economic reasoning and methodology through examination of fundamental concepts in micro- and macroeconomics and through extension and applications of economic theory. (Satisfies the GE CR for Social Sciences, List 1, Economics and Government.)

200 INTRODUCTION TO MICROECONOMICS - 5 cr General functioning of a price system, fundamentals of supply and demand, the variety of market forms, the theory of factor incomes and government intervention to promote efficiency and equity.

201 INTRODUCTION TO MACROECONOMICS - 5 cr Continues ECON 200. National income accounts, determinants of the level of national income, and the impact of monetary and fiscal policy on aggregate performance. Specific problems such as full employment, price stability, economic growth, and international economic relations. (Completion of the sequence ECON 200 and 201 satisfies the GE CR for Social Sciences, List 1, Economics and Government; counts as one course.) Prerequisite: ECON 200.

222 BLACK ECONOMICS - 5 cr Economic conditions of Black Americans, presenting an analysis of economic problems confronting them, and institutional aspects of those problems. [Cross-listed BLST 222]

299 DIRECTED STUDY - 3 cr Individual reading and research. Restricted to sophomores who have completed ECON 201 and freshmen and sophomore participants in Model United Nations.

300 MICROECONOMICS - 5 cr Accelerated introduction to microeconomics for students in professional programs; requires research project; substitutes for ECON 200.

301 MACROECONOMICS - 5 cr Accelerated introduction to macroeconomics for students in professional programs; requires research project; substitutes for ECON 201. Prerequisite: ECON 300.

304 INTERMEDIATE MICROECONOMIC THEORY - 5 cr Theoretical basis of exchange, production, private markets and their forms, income distribution, the public sector, resource allocation, welfare economics and application of economic theory to public and private decision making. Prerequisites: ECON 201 and MATH 200 or equivalent or prior permission of the instructor.

305 INTERMEDIATE MACROECONOMIC THEORY - 5 cr Theoretical framework and factual background of aggregate and sectoral behavior of an economy to explain the level of output, level of employment, level of general prices, rate of economic growth and related problems. Prerequisites: ECON 201 and MATH 200 or equivalent or prior permission of the instructor.

311 THE EVOLUTION OF ECONOMIC SCIENCES - 5 cr General consideration of the evolution of economic societies from premodern times to the present by examining historical experiences and theoretical explanations.

321 LABOR ECONOMICS - 5 cr Supply and demand for labor and important institutions in the labor market, especially the upgrading of labor via education and vocational training, the mobility of labor, the influence of trade unions on wages, the effects of race and sex discrimination on wages, and labor's inflation unemployment problems. Prerequisite: ECON 201.

340 PUBLIC FINANCE AND TAXATION - 5 cr Basic principles of public finance, emphasizing the effects of principal taxes on the distribution of income, allocation of production factors, and economic welfare. Prerequisite: ECON 201.

344 MONEY AND BANKING - 5 cr A survey of the theory of money, credit, and banking. Commercial banking and the Federal Reserve; monetary policy.

399 SPECIAL STUDIES 3-5 cr Subjects studied vary according to faculty and student interest.

401 ECONOMIC RESEARCH METHODS - 5 cr Research topics such as data sources and collection, index number, times-series analysis, simulation of economic models, input-output analysis and linear programming related to economic problems. Prerequisites: ECON 201 and DSCI 246 or equivalent.

405 ECONOMIC FLUCTUATION AND FORECASTING - 5 cr Economic fluctuations at the aggregate and sectoral levels, recent business cycle theory, and the techniques of forecasting. Prerequisites: ECON 201 and DSCI 246 or equivalent.

410 ECONOMIC HISTORY OF EUROPE - 5 cr The economic history of Europe from the latter days of the Roman Empire to the 20th century, principally, Europe's transition from traditional to modern economic life. Prerequisite: Junior standing. [Cross-listed HIST 450]

412 ECONOMIC HISTORY OF THE UNITED STATES - 5 cr Economic development of the United States from the early colonial period to the present; explorations, westward movement, labor, rise of great industries, world trade, and post-war economic problems. Prerequisite: Junior standing. [Cross-listed HIST 487]

415 HISTORY OF ECONOMIC THOUGHT - 5 cr Economic thought to the early 20th century; special attention to selected writers including Aristotle, the Mercantilists, the Physiocrats, Hume, Smith, Malthus, Ricardo, Marx, the Marginalists and Marshall. Prerequisite: ECON 201.

420 LABOR HISTORY - 5 cr A chronological examination of labor movements in the United States. Focuses on trade union activity and the impact unions have had on their members and society. Draws occasional

examples from European and Latin American labor history for purpose of comparison, and examines various labor history theories. [Cross-listed HIST 489]

422 ECONOMICS OF TRADE UNIONS - 5 cr This course covers the effects of unions on wages, benefits, quit rates, productivity, trade, and profits. Additional topics cover the role of unions in politics, other countries, management decisions, and job training programs. Prerequisites: ECON 200 and 201 or permission of the instructor.

423 COLLECTIVE BARGAINING - 5 cr Principles and practices of collective bargaining, mediation and arbitration of industrial disputes; grievance procedures and administration of labor-management agreements. Prerequisite: ECON 201 or prior permission of the instructor.

424 ECONOMICS OF POVERTY AND ECONOMIC SECURITY PROGRAMS - 5 cr Causes of poverty and evaluation of possible remedies, especially current and proposed programs. Prerequisite: Junior standing. [Cross-listed BLST 424]

425 ECONOMICS OF HUMAN RESOURCES - 5 cr Current economic approaches to examine the use of human resources in employment, education, health, and retraining situations. Prerequisite: ECON 201.

426 LABOR LEGISLATION AND PUBLIC POLICY - 5 cr Appraisal of labor law, particularly federal statutes and court decisions; consideration of proposed legislation.

427 THE ECONOMICS OF WOMEN AND WORK - 5 cr Economic impact of the increasing participation of women in the paid labor force of the United States. Economic theories of labor force participation, discrimination and occupational segregation. Current issues such as comparable worth, affirmative action, nontraditional careers, corporate policies, sexual harassment, child care and social welfare programs. [Cross-listed WMST 427]

429 WOMEN AND MEN IN THE U.S. ECONOMY - 1 cr In the course we examine the economic activity and labor force participation of women and men in the United States. Employment issues, such as labor market discrimination, affirmative action, and comparable worth will be discussed. Other topics include income distribution, poverty, welfare programs, and the tax system. [Cross-listed WMST 402]

430 INTRODUCTION TO MATHEMATICAL ECONOMICS - 5 cr Mathematical methods and techniques applied to economic problems. Prerequisites: ECON 201, MATH 200 or equivalent.

431 MATHEMATICAL ECONOMICS - 5 cr Advanced mathematical methods applied to both micro- and macroeconomic systems, emphasizing dynamic analysis. Prerequisites: ECON 201 and either 430 or MATH 231.

435 MANAGERIAL ECONOMICS - 5 cr Economic principles applied to various areas of business administration, with emphasis on management decision-making by formulating problems in a quantitative manner capable of numerical solution. Prerequisites: ECON 201 and DSCI 246 or equivalent.

437 ECONOMETRICS - 5 cr Application of mathematical economic theory and quantitative statistical methods to economic problems in particular, with respect to estimation, testing, revision, construction, and simulation of econometric models. Prerequisites: ECON 201 or prior permission of the instructor, and either DSCI 246, MATH 385 or 485.

443 ECONOMICS OF MEDICAL CARE - 5 cr Economic analysis of medical care, including factors influencing the demand and supply of medical services and the roles for insurance and government activity in medical care markets. Prerequisite: ECON 200.

446 GOVERNMENT AND BUSINESS - 5 cr Government and business relations. Antitrust experiences and other techniques of industry control and their specific and general impact upon the economy of the nation. Prerequisite: ECON 200.

448 PUBLIC UTILITY AND TRANSPORTATION ECONOMICS - 5 cr Transportation systems and market structure; case for and progress of public control of transportation agencies. Economic aspects, development, legal basis, and methods of regulation of public utilities. Prerequisite: ECON 200.

449 POLITICAL ECONOMY - 5 cr How public decisions can be made more rational, more productive of welfare, or more in the general interest. Selected literature from economics, political science, and related disciplines provides an analytical framework for the discussion of a number of social problems. Prerequisites: ECON 200 and prior permission of the instructor.

470 INTERNATIONAL ECONOMICS - 5 cr Interaction of national economics and the problems arising therefrom, particularly trade and payments problems and the development of regional and international economic institutions. Prerequisite: ECON 201.

475 CAPITALISM AND SOCIALISM - 5 cr Economic systems of the advanced industrial nations, particularly the general functioning of capitalistic and socialistic economies, criteria for evaluation system performance, system maturation and reform, the impact of modern technology on economic institutions and system performance, political and economic democracy, the transition to post-industrial economic life and prospects for system convergence. Prerequisite: ECON 200. ECON 201 recommended.

477 NATURAL RESOURCE ECONOMICS - 5 cr Economic analysis of natural resource utilization and conservation. Topics covered: economic theory and analytical tools, natural resources management and the environment, economics of conservation and natural resources regulatory problems. Analysis applied to agriculture, forestry, land, minerals, energy,

water, and outdoor recreation. Emphasizes the Northwest where possible. Prerequisite: ECON 201 or equivalent.

478 REGIONAL ECONOMICS - 5 cr Economic analysis of regional problems. Topics covered: spatial economic theory; the economics of regional and inter-regional growth and stability; economics of land use, resource use and the environment; methods of analysis. With emphasis on the Pacific Northwest. Prerequisite: ECON 201.

479 URBAN ECONOMICS - 5 cr Economics of urban problems and policies. Topics included: urban growth and development, land use, housing, government services and finance, transportation and public sector economics. Prerequisite: ECON 201.

480 ECONOMIC DEVELOPMENT - 5 cr Development prospects of present-day underdeveloped countries. Historical development of industrial countries by analogy. Attention given to both economic and non-economic factors in the development process and to population problems and human resource development. Prerequisite: ECON 201.

482 DEVELOPMENT IN LATIN AMERICA - 5 cr Economic, sociological and political structures and trends in representative countries of Latin America, including Mexico, Brazil, Argentina, and Cuba.

490 ECONOMIC EDUCATION - 3 cr Designed primarily for those who teach or who anticipate teaching economics in twelfth grade capstone course or as units or lessons in other courses in grades four through twelve. Emphasizes content, materials, and teaching strategies. Class time is devoted to laboratory activities as well as to lectures and discussions. Prerequisites: ECON 200 or 300, 201 or 301, and EDUC 341 or 339 or equivalent.

492 OUTCOME ASSESSMENT - 1 cr Includes review of the major economic topics in undergraduate study, taking national examination, writing two case studies, and completing exit questionnaire. Prerequisite: Senior economic major.

495 INTERNSHIP 3-5 cr

497 WORKSHOPS 1-5 cr

498 SEMINAR 3-5 cr

499 DIRECTED STUDY 1-5 cr Independent study projects in selected fields of economics. Limited to senior and graduate students. Prerequisites: Prior permission of the instructor and the department chair.

● ● ● ● ● EDUCATION

William Shreeve, Chair
310 Williamson Hall
359-2232
MS-90

FACULTY

H. Alvy, G. Ayot, B. Brucker, M. Brunn, J. Dickerson, P. Edmundson, W. Goetter, M. Grace, W. Hall, N. Hosking, R. Hubbard, W. Katz, J. Leach, J. Logan, J. Martin, G. Martinen, K. Midgley, C. Miller, B. Mitchell, B. Odell, R. Phillips, M. Radebaugh, J. Reitsch, R. Salsbury, R. Seedorf, W. Shreeve, M. Siera, A. Sippola, S. Spacek, A. Stueckle, A. Teberg, N. Todd, R. Wilkens, W. Williams

PROGRAM DESCRIPTION

Teaching is among the most challenging and personally rewarding of professions. The essential role of the professional educator is to bring together his/her knowledge of subject matter, instructional strategies, and interpersonal skills to provide learning experiences for students. In addition, the contemporary teacher must be able to individualize instruction and must be sensitive to developmental and socio-cultural issues involving the learner.

The EWU Department of Education offers a comprehensive Teacher Certification program, culminating with a baccalaureate degree and an Initial Teaching Certificate, to students who wish to teach in either elementary or secondary school settings. In addition, students enrolled in other professional and academic departments of the university may obtain Initial Teaching Certificates by meeting Department of Education and state of Washington criteria.

To obtain a Bachelor of Arts in Education degree, a student must satisfy the General Education Core Requirements, Professional Education Program requirements, and Major/Minor Fields of Study requirements of Eastern Washington University. Upon satisfying requirements for the baccalaureate degree, the student may be eligible to receive an Initial Teaching Certificate from the state of Washington, providing he/she meets academic certification and personal fitness standards. (The Department of Education Certification Office provides advisement for teachers seeking the Continuing Teaching Certificate.)

Undergraduate Program goals of the Department of Education are:

- To prepare teachers who can provide leadership and cope with the complex problems of rural and urban society. In compliance with the National Council for Accreditation of Teacher Education (NCATE)

standards, the Department of Education has the responsibility for supervising and coordinating teacher education for the university and for providing a professional program which prepares students for teaching at the elementary and secondary level.

- To promote research designed to investigate best practices for the instruction of and learning by P/K-12 students.
- To ensure continuous involvement in programs designed to reform and improve the quality of instructional techniques and theory.
- To provide for university students solid, contemporary, and challenging instructional programs which are theoretically sound and experientially based.

Statement of Assurance

EWU's Department of Education assures that each candidate is able to apply the teaching strategies, the classroom management/school discipline methods, and the measurement and evaluation process necessary for success as a first-year certificated teacher.

This assurance guarantees that the candidate has successfully completed EWU's (Department of Education) Teacher Education Program, as approved by the Washington State Office of Public Instruction and NCATE. The assurance is contingent upon appropriate placement of the candidate within certification endorsement areas.

In the event the candidate displays a lack of competency in any of these pedagogical practices during the first year of teaching experience, EWU's Department of Education will cooperate with the school district to assist the candidate in improving his/her performance. EWU services will be provided at no cost to the school district nor to the student.

This assistance will be offered by faculty members from the Department of Education and by appropriate faculty members from the Departments of Art, Biology, Business Education, Chemistry, Child Development, Computer Science, English, French, Health, Physical Education, History, Mathematics, Music, Social Science Education, Special Education and Technology.

DEGREE/MAJOR-OPTIONS/MINORS/CERTIFICATION DESCRIPTIONS

Bachelor of Arts in Education (BAE)

MAJOR/MINOR FIELDS OF STUDY

Elementary

Elementary teaching candidates must declare a major and a minor.

Contact the academic major and minor department for advisement.

Majors: art, child development, English, French, German, health, mathematics, music, natural science, physical education, reading, social studies, Spanish, special education, and theatre.

Minors: American Indian Studies, applied psychology, art, choral music, early childhood, early childhood/special education, earth science, English, English as a Second Language, French, German, gifted/talented education, handicapped learner in the regular classroom, health, history, instrumental music, learning resources (library science), mathematics, physical education, psychology, reading, Spanish, and theatre.

Secondary

Secondary teaching candidates must declare a major and a minor with the exception of majors that require 60 credits or more unless otherwise noted. Contact the academic major and minor departments for advisement. Since small schools prefer teachers who can instruct in three or four content areas, candidates are encouraged to consider additional minors.

Majors: art, biology, business education, chemistry, computer science, earth science, economics, English, French, German, geography, health education, marketing, mathematics, music, physical education, physics, psychology, reading, social studies, sociology, Spanish, technology, and theatre.

Minors: American Indian Studies, anthropology, art, biology, chemistry, choral music, communication studies, computer science, earth science, economics, English, English as a Second Language, French, geography, German, government, health, history, instrumental music, learning resources (library science), mathematics, physical education, physics, psychology, reading, social studies, sociology, Spanish, technology, and theatre.

Certification

The state of Washington issues two basic teaching certificates: The Initial Teaching Certificate and the Continuing Teaching Certificate. Each certificate issued requires payment of a state fee plus an EWU processing fee of \$5. In addition, the student must give evidence of good character and fitness, including a Washington State Patrol and FBI fingerprint background check. A candidate who holds or has held a professional education certificate or permit authorizing teaching or other education services in any school district in the United States must report such certification.

The Initial Teaching Certificate: A student seeking the Initial Teaching Certificate should apply to the EWU Department of Education, Certification Office, Williamson 310 two quarters prior to student teaching. The Initial

Certificate is awarded upon completion of a baccalaureate degree and the Professional Education Requirements. This teaching certificate allows the holder to teach in the state of Washington within the endorsement areas approved by the University. The final authority for approval of endorsements, however, resides within the State Board of Education and in the event that the State Board changes certification requirements, the student must adhere to the new requirements. An endorsement is an authorization to teach a specific subject (or to perform a specific type of service) at a particular grade level(s), and an indication of such will appear on the Initial and Continuing Certificates.

The Initial Teaching Certificate is valid for four years and may be renewed for three more years upon completion of 15 quarter credits that have been earned since the last Initial Teaching Certificate.

The Continuing Teaching Certificate is granted for those teachers who have met the requirements for the Initial Teaching Certificate; have 45 quarter hours of upper division credit; course work or in-service program on issues of abuse; two endorsements; have completed 180 days of teaching experience, of which 30 days must be with the same district. Specific requirements for the Continuing Certificate are listed in the EWU Graduate Catalog.

ADMISSION REQUIREMENTS/PREPARATION

Teacher Education Program

1. Application Procedure - In making application to the EWU Teacher Education Program, the student must complete the Application/Admission packet. The packet can be purchased at the EWU Bookstore. To begin the application process, first review the packet forms, then contact the receptionist in Williamson 312 or call (509) 359-2232, for assignment to an adviser in the Department of Education. The student's academic background and skills will be assessed to ensure that he/she is academically ready to work with students in the classroom. All students must receive Washington State Patrol clearance prior to field experiences in K-12 schools.
2. Admission to the Program - In consultation with the Education Adviser and prior to enrolling in EDUC 303, Evaluation in Education, the student seeking admission must:
 - Be formally accepted into Eastern Washington University after having met the university GPA and SAT standards.
 - A minimum 2.50 GPA calculated on the basis of the most recent 45 quarter credits.
 - Receive clearances in certification eligibility, computer literacy, cultural diversity, mathematics, speech, and writing (see Prerequisites for Admission to the Elementary/Secondary Professional Education Program).
 - Complete EDUC 201 and APSY 302 with a minimum GPA of 2.0 in each course.

NOTE: Students must complete clearances, prerequisites, and Application Packet for Admission to the Teacher Education Program before enrolling in EDUC 303.

3. Professional Degree Candidacy, EDUC 420 - The student seeking advancement to candidacy must have satisfied the Application/Admission steps and must have completed the following:
 - Two thirds of the total credit hours in his/her major and minor.
 - Candidates must have a minimum GPA of 2.50 in each of the following: major, minor, and Professional Education Program.
 - No individual course below a grade of 2.0 in each of the following: major, minor, or Professional Education Program.

Elementary: Must have completed EDUC 303; 304; 337; 338; 339; and 340.
Secondary: Must have completed Secondary Methods course in Major; EDUC 303; 340; and 341.

The elementary/secondary teaching candidate must complete the Professional Degree Candidacy interview. As part of EDUC 420, the department will schedule for each student an interview with the Professional Candidacy Committee. The purpose of the interview will be to consider the student for recommendation to Professional Degree Candidacy. The student who is admitted to Professional Degree Candidacy may continue to complete his/her course sequence and apply for student teaching.

4. Student Teaching - The purpose of Student Teaching is to provide the teacher candidate with direct teaching/learning experience in K-12 schools. The student has the opportunity during this time to observe teachers, to plan and teach under the supervision of master teachers, and to participate in the total school program.

Application for Student Teaching is not a substitute for university course registration. The student first must apply to the Coordinator of Professional Laboratory Experiences, Williamson 310, for a student teaching assignment. Next, he/she must register for the student teaching course and pay appropriate fees before beginning the student teaching experience. The student teacher candidate who does not meet stated deadlines will be considered for assignment only if openings are available.

To qualify for an Initial Teaching Certificate, the teacher candidate is required to earn 16 credits as a student teacher. These credits are to be earned in one quarter, during which time the candidate is assigned full time to a K-12 school. The Student Teaching assignment is considered a full student load and no additional credits may be earned during the quarter except by written consent of the Coordinator of Professional Laboratory Experiences. Student teaching may be done in selected school districts throughout the state of Washington. The student will be notified of his/her student teaching assignment by letter from the Coordinator of Professional Laboratory Experiences.

To qualify for Student Teaching, the candidate must:

- Pass EDUC 420; maintain the required 2.50 GPA in each of the following: major, minor and Professional Education Program.
- Receive no individual course below a 2.0 in any of the following: major, minor, or Professional Education Program.
- Receive a signed registration form from the Coordinator of Professional Laboratory Experiences before registering for Student Teaching.
- Have received clearance from the WSP and FBI fingerprint background check.
- The Special Education Major also must complete the following major course requirements prior to Student Teaching: APSY 363, APSY 405, APSY 406, APSY 407, APSY 457, APSY 491, EDUC 407, EDUC 408.

Both Washington state endorsement and EWU requirements for Student Teaching by Special Education majors are filled by successful completion of EDUC 424, Internship Elementary Level. Students may receive EWU recommendation for endorsement as a regular classroom teacher by completing, in addition to EDUC 424, a student teaching experience appropriate to the Education Department's methods option that they filled; namely, EDUC 423, Elementary Student Teaching, to accompany the Elementary Teaching Methods package, or EDUC 426, Secondary Student Teaching, to accompany the Secondary Teaching Methods package.

5. Exit Evaluation - The exit evaluation requires evidence that the candidate has completed all requirements as specified in this document for completion of an Eastern Washington University Bachelor of Arts in Education degree.

DEGREE REQUIREMENTS

Grade Requirement:

- 2.0 in each course
- 2.50 cumulative average

Prerequisites for Admission to the Elementary/Secondary Professional Education Program: 26-34 credits

Before a student is admitted into the Professional Education Program, he/she must complete the following prerequisites with a minimum GPA of 2.00 in all prerequisite courses:

- EDUC 201**, Intro to Education (3)
- APSY 302**, Educational Psychology (5)
- Computer Literacy Requirement:** CSCD 100, Computer Literacy I and CSCD 101, Computer Literacy II, or a computer literacy test clearance
- Speech Requirement:** Either CMST 200, Intro to Speech Communication (4); CMST 120, Speech Communication Competency (1); or an approved equivalent
- English Requirement:** ENGL 101 and 201, or equivalent
- Mathematics Requirement:** MATH 115, Mathematical Reasoning, or an approved equivalent for all secondary education majors
 - MATH 211 and MATH 212, Structure of Elementary Mathematics I and II for all elementary education majors
- Certification Eligibility:** A student will be asked to give evidence of good character and fitness.
- GPA Requirement:** A minimum 2.50 GPA calculated on most recent 45 quarter credits

After the above prerequisites have been met, the student then has the choice of two education programs in which to concentrate: Elementary or Secondary.

Elementary Required Courses: 65 - 69 credits

- EDUC 303 Evaluation in Education (5)
- EDUC 304 Introduction to Elementary Reading (3)
- *EDUC 337 Learning Lab (1)
- *EDUC 338 Introduction to Language Arts in the Elementary School (3)
- *EDUC 339 Social Studies and Science in the Elementary School (4)
- *EDUC 340 Classroom Experience (3)
- EDUC 418 Classroom Management - Elementary (3)
- **EDUC 488 Learning Lab - Reading (1)
- **EDUC 490 Reading Methods in the Elementary School (3)
- MATH 390 Methods of Teaching Elementary School Mathematics (5)
- EDUC 420 Admission to Professional Candidacy (3)
- EDUC 423 Elementary Student Teaching (16)
- ART 390 Art in the Elementary School (3)
- MUSC 490 Music for the Elementary Classroom Teacher (3)
- PHED 390 Health and Physical Education in the Elementary Schools (3)
- One course from the following: 3-5 credits
 - CSCD 311 Computer Fundamentals for Teachers (4)

- APSY 460 The Handicapped Child in the Regular Classroom (4)
- ENGL 391 The Teaching of English in the Elementary School (5)
- GNML 390 Foreign Language Methods (4)
- HLED 472 Health Fundamentals and Procedures (5)
- TECH 475 Technology for Elementary Teachers (3)
- One course from the following: 3-5 credits
- CMST 340 Intercultural Communication (5)
- EDUC 325 Teaching in a Pluralistic Society (3)
- SOCI 320 Racism & Sexism: Institutional Oppression of Minority Groups (5)
- 30-hour multicultural education laboratory requirement
- The following course is recommended:
- APSY 363 Psychology of Exceptional Children (4)
- *Must be taken concurrently
- **Must be taken concurrently

Secondary Required Courses: 39 - 41 credits

- EDUC 303 Evaluation in Education (5)
- *EDUC 340 Classroom Experience (3)
- *EDUC 341 Secondary Strategies (3) and EDUC 419 Classroom Management - Secondary (3)
- or EDUC 342 Secondary Teaching and Management (6)
- EDUC 413 Content Area Reading (3)
- EDUC 420 Admission to Professional Candidacy (3)
- EDUC 426 Secondary Student Teaching (16)
- One course from the following: 3-5 credits
- CMST 340 Intercultural Communication (5)
- EDUC 325 Teaching in a Pluralistic Society (3)
- SOCI 320 Racism & Sexism: Institutional Oppression of Minority Groups (5)
- 30-hour multicultural education laboratory requirement
- *Must be taken concurrently

BACHELOR OF ARTS IN EDUCATION

- **Major:** Reading/Elementary or Secondary—36 credits
- Required Courses:** 33 credits minimum
- EDUC 410 Student-Centered Reading Programs (4)
- EDUC 411 Reading for Language-Diverse Students (3)
- EDUC 412 Storytelling (3)
- EDUC 413 Content Area Reading (3)
- EDUC 414 Developmental Reading for Middle/Secondary School (3)
- EDUC 415 Introduction to Reading Assessment and Remediation (4)
- *EDUC 494 Practicum Seminar for Reading Majors (2)
- *EDUC 495 Practicum For Reading Majors (5)
- LBSC 420 Children's Literature (3)
- LBSC 430 Adolescent Literature (3)
- Electives:** Select a minimum of 3 credits from the following list:
- COMD 301 Introduction to Communication Disorders (5)
- COMD 431 Language Development in the Normal Child (3)
- EDUC 483 Workshop in Reading (3)
- EDUC 497 Approved Reading Workshops, Short Courses or Conferences (var)
- ENGL 360 Language Structure and Use (5)
- ENGL 391 The Teaching of English in the Elementary School (5)
- ESLG 483 Reading Instruction in A Second Language (3)
- THTR 326 Creative Dramatics (3)

*Must be taken concurrently.
 Note: This major requires the completion of a minor.

Minors

- Minor:** Early Childhood Education—17 credits
- Required Courses:** 17 credits
- APSY 476 Child and Family Guidance (3)
- EDUC 455 History, Theory & Current Programs in Early Childhood Education (4)
- EDUC 456 Curriculum in the Preschool (3)
- EDUC 457 Teaching in the Preschool (3)
- EDUC 479 Education in the Kindergarten (4)
- Minor:** Early Childhood Education/Elementary—24 credits
- Required Courses:** 24 credits
- EDUC 455 History, Theory & Current Programs in Early Childhood Education (4)
- EDUC 456 Curriculum in the Preschool (3)
- EDUC 457 Teaching in the Preschool (3)
- APSY 476 Child and Family Guidance (3)
- EDUC 479 Education in the Kindergarten (4)
- EDUC 480 Education in the Kindergarten Workshop (3)
- EDUC 487 Seminar in Issues in Early Childhood Education (4)
- Minor:** Gifted/Talented Education—26 credits
- Required Courses:** 26 credits
- EDUC 362 Development of Higher-Level Thinking Strategies (3)
- EDUC 363 Inquiry Strategies (3)
- EDUC 370 Creativity in the Classroom (3)
- EDUC 409 Teaching the Gifted and Talented Child (3)

- EDUC 435 Field Experience in Gifted/Talented Education (3)
- APSY 404 Psychology of the Gifted/Talented Child (3)
- CSCD 311 Computer Fundamentals for Teachers (4)
- CSCD 339 Microcomputer Programming (4)

Minor: Library Science/Elementary or Secondary—27 credits

- Required Courses:** 27 credits
- EDUC 463 Production of Instructional Materials (5)
- LBSC 420 Children's Literature (3)
- LBSC 430 Adolescent Literature (3)
- LBSC 450 Selection of Library/Media Center Materials (3)
- LBSC 460 Reference Work with Children and Young People (3)
- LBSC 480 Cataloging and Classification (4)
- LBSC 490 Administration of the School Library/Media Center (3)
- LBSC 495 Practicum in the Library/Media Center (3)

Note: This minor is in addition to classroom teacher preparation. This minor may be taken in conjunction with an elementary major in English, but only with the prior approval of the Education Department.

Minor: Reading/Elementary or Secondary—27 credits

- Required Courses:** 27 credits
- EDUC 304 Introduction to Elementary Reading (3)
- EDUC 410 Student-Centered Reading Programs (4)
- EDUC 413 Content Area Reading (3)
- EDUC 414 Developmental Reading for Middle/Secondary Schools (3)
- EDUC 415 Introduction to Reading Assessment and Remediation (4)
- *EDUC 488 Learning Lab - Reading (1)
- *EDUC 490 Reading Methods in the Elementary School (3)
- LBSC 420 Children's Literature (3)
- LBSC 430 Adolescent Literature (3)

*Must be taken concurrently.

Course Requirements for Teacher Certification/Add-On Endorsements

(For students who currently possess Washington state's Initial Teaching Certificate)

- Elementary Education K-8 Endorsement:
 - APSY 302 Educational Psychology (5)
 - EDUC 418 Classroom Management - Elementary (3)
 - EDUC 490 Reading Methods in the Elementary School (3)
 - MATH 211 Structures of Elementary Mathematics (5)
 - MATH 390 Methods of Teaching Elementary School Mathematics (5)
 - *EDUC 338 Introduction to Language Arts in the Elementary School (3)
 - *EDUC 339 Social Studies and Science in the Elementary School (4)
 - *EDUC 340 Classroom Experience (3)
 - or *EDUC 300 Introduction to Classroom Experience (2)
 - ART 390 Art in the Elementary School (3)
 - MUSC 490 Music for the Elementary Classroom Teacher (3)
 - PHED 390 Health and Physical Education in the Elementary School (3)
- Strongly Recommended:
 - EDUC 304 Introduction to Elementary Reading (3)

*EDUC 338, 339, 340/300 must be taken concurrently. See Williamson Hall 310 before registering for the EDUC 340/300 option.

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 For students who currently possess a Washington State Initial Teaching Certificate and wish to add-on other endorsements, please refer to the degree requirement listings in the appropriate academic section of the EWU Catalog. Add-ons of Early Childhood Education, Library Science, and Reading are listed under the minor section above.

**COURSE DESCRIPTIONS
 Education (EDUC)**

- 101 SOCIETY AND EDUCATION - 4 cr** Surveys the problems and controversies surrounding education with an analysis of these problems through a sociological-historical approach. Emphasizes the close relationship between society and education. Designed as a general education course.
- 146 COLLEGE READING AND STUDY TECHNIQUES - 5 cr** Individual evaluation, prescription, and practice for improvement of study reading, note-taking, spelling, and study techniques.
- 201 INTRODUCTION TO EDUCATION - 3 cr** Orientation to the EWU Teacher Education Program; overview of the role of the schools in a democratic society; introduction of reflective thinking concept for professional educators; analysis of various philosophical views of teaching and learning and introduction to the restructuring of the K-12 educational system in the state of Washington.
- 299 SPECIAL STUDIES - Variable cr** Subjects studied vary according to faculty and student interests.
- 300 INTRODUCTION TO CLASSROOM EXPERIENCE 1-4 cr** Observation and participation in the public school classroom management and

instruction. Your schedule must be arranged so time can be spent in a public school classroom during the school day. Many students schedule this experience between quarters. Instructor approval required before registration.

301 FIELD EXPERIENCES IN READING INSTRUCTION - 3 cr Classroom observation of reading programs in operation and orientation to the reading major.

303 EVALUATION IN EDUCATION - 5 cr Developing objectives, lesson planning, measurement, and evaluation for the total school program. Prerequisites: EDUC 201 and a completed application to the Teacher Education Program.

304 INTRODUCTION TO ELEMENTARY READING - 3 cr A course investigating reading processes, emergent literacy, word identification, vocabulary, and comprehension in elementary reading programs. Prerequisite: Junior level standing.

325 TEACHING IN A PLURALISTIC SOCIETY - 3 cr Methods of identifying and supporting multi-culture value patterns and life-styles in the school and community curricula related to cultural patterns. Alternative curricular solutions and teaching strategies to deal with the various values and life-styles of a pluralistic society. Ethnic-specific instructional methodologies.

337 LEARNING LAB - 1 cr Students are provided with (1) knowledge of current textbook series, curriculum sequences, materials, and equipment; and (2) complete selected experiments and exercises currently being used in elementary school science and social studies classrooms. Prerequisites: Concurrent enrollment in EDUC 340, 338, and 339.

338 INTRODUCTION TO LANGUAGE ARTS IN THE ELEMENTARY SCHOOL - 3 cr The place of listening, speaking, and writing skills in the total elementary program. Prerequisites: Junior standing, and EDUC 303, concurrent enrollment in EDUC 337, 339, and 340.

339 SOCIAL STUDIES AND SCIENCE IN THE ELEMENTARY SCHOOL - 4 cr Includes formulation of goals for subjects, selection of content to be taught at each grade level, development of daily lesson plans, and unit plans utilizing recommended teaching strategies, participation in teaching lessons in an elementary classroom. Prerequisites: Concurrent enrollment in EDUC 340, 337, and 338.

340 CLASSROOM EXPERIENCE - 3 cr Requires 9-10 hours per week of field experience in a public school classroom. Field experience activities may include observation, performing aide duties, teaching of lesson plans and units, and using a variety of methods and strategies. Requires teaching a minimum of eight lessons. Prerequisites: Elementary: concurrent enrollment in EDUC 337, 338, and EDUC 339; Secondary: concurrent enrollment in EDUC 341. Sign-up in the Education Department during the prior quarter.

341 SECONDARY STRATEGIES - 3 cr Deals with teaching/learning procedures appropriate for courses in the junior and senior high school. Demonstrates a variety of teaching strategies and develops your skills in a few basic instructional techniques. The course is designed to supplement methods course work taken in your major department. Prerequisites: EDUC 303, APSY 302, and concurrent enrollment in EDUC 340.

342 SECONDARY TEACHING AND MANAGEMENT - 6 cr Deals with teaching-learning strategies appropriate for junior middle and senior high school classes, and the management and discipline practices to support them. Substitutes for EDUC 341 Secondary Strategies and EDUC 419 Classroom Management-Secondary. The course is designed to supplement methods course work in the academic major. Prerequisites: EDUC 303, APSY 302, and concurrent enrollment in EDUC 340.

360 DISCUSSION STRATEGIES - 3 cr A micro-teaching course developed around the Far West Laboratory film series on questioning techniques in the classroom. After viewing eight tapes of the sessions, you modify and re-teach the same lessons in a self-instructional sequence.

361 INDIVIDUALIZING INSTRUCTION - 3 cr Assessment of individual needs and techniques for accommodating these needs in instruction by modification of organizational patterns, modes of instruction, and the conditions of learning.

362 DEVELOPMENT OF HIGHER LEVEL THINKING STRATEGIES - 3 cr Develops skill in programming and instructing a unit which systematically develops higher-level thinking abilities by using the thinking processes of concept diagnosis, interpretation of data, and application of knowledge.

363 INQUIRY STRATEGIES - 3 cr Designed to develop your skills in using interaction patterns and in developing the conditions which must exist if pupils are to produce personal ideas and understandings rather than consume the ideas and understandings of others. Includes diagnosis and evaluation to place you on a continuum of acquired growth.

364 INTERACTIONAL ANALYSIS - 3 cr The scientific investigation of classroom verbal interaction between teacher and student, or between student and student to enhance teacher-learner effectiveness of instruction.

365 INTERPERSONAL COMMUNICATION SKILLS - 4 cr Course provides a laboratory for interpersonal skills development, allowing you to rehearse and demonstrate specific skills using video and audio tape equipment. Emphasizes skills necessary for counseling school age children and their parents.

366 TEACHER'S CLASSROOM INFLUENCE - 3 cr Covers basic concepts of the process of parent-teacher power roles, how to identify a characteristic style of using and responding to power, and how to influence and practice basic skills of influencing.

368 EXPANDING THE BASAL READING PROGRAM - 1 cr Designed to provide techniques for adapting the basal reading text to specific needs of

the individual in the classroom. Prerequisite: EDUC 304.

370 CREATIVITY IN THE CLASSROOM - 3 cr Explores the psychological ramifications of the creative thinking processes through the study of such experts as Guilford, Torrance, Brown, Barron, and Maslow. Analyzes school conditions impeding creativity and studies teaching and organizational strategies which can nourish its creativity.

373 GREATNESS IN TEACHING - 1 cr Analyzes those qualities and factors which go beyond the parameters of professional requirements and produce greatness in teaching.

382 NUTRITION METHODS IN THE ELEMENTARY SCHOOL - 3 cr Provides experience in behavioral objective writing, planning, executing and evaluating lesson and unit preparation, teaching procedures, and the production of materials appropriate for teaching nutrition to elementary school students.

399 DIRECTED STUDY 1-5 cr Prerequisites: Prior permission of the instructor and the department chair.

406 SENIOR SEMINAR - 3 cr Discussion of problems and issues common to both elementary and secondary levels of curriculum and teaching. Specific help in meeting individual needs. Prerequisite: Completion of student teaching.

407 EDUCATION OF EXCEPTIONAL CHILDREN I - 4 cr Classroom procedures, techniques, and strategies utilized in the education of exceptional children.

408 EDUCATION OF EXCEPTIONAL CHILDREN II - 3 cr Selection, evaluation, and use of instructional materials for the education of exceptional children.

409 TEACHING THE GIFTED AND TALENTED - 3 cr Analyzes the characteristics of educational programs for the gifted and talented. Helps you develop teaching strategies and curriculum materials designed to provide appropriate educational programs for the gifted and talented.

410 STUDENT-CENTERED READING PROGRAMS - 4 cr Provides a theoretical background, teaching techniques, management techniques and evaluation procedures for student-centered reading programs (e.g., individualized, literature-based approaches; language experience approaches). Prerequisites: EDUC 304, 490/488, LBSC 420.

411 READING FOR LANGUAGE-DIVERSE STUDENTS - 3 cr Analyzes the influence of cultural and language differences on learning to read. Helps you adapt strategies for teaching the language-diverse student. Prerequisite: EDUC 410 or prior permission of the instructor.

412 STORYTELLING - 3 cr This course allows students to become proficient storytellers of quality children's literature and to link storytelling to K-8 curriculum. Prerequisite: LBSC 420. [Cross-listed LBSC 412]

413 CONTENT AREA READING - 3 cr Suggests a wide variety of strategies for improving K-12 students' comprehension of content area materials and techniques for analyzing the appropriateness of written materials. Prerequisite: At least 15 credits in major.

414 DEVELOPMENTAL READING FOR MIDDLE/SECONDARY SCHOOL - 3 cr Designed to provide teachers of reading with the skills and information to develop and carry out a classroom reading program for middle and secondary students. Emphasizes the reading needs and interests of adolescents and techniques appropriate for extending their comprehension of written information. Prerequisites: EDUC 304, 490/488, LBSC 430.

415 INTRODUCTION TO READING ASSESSMENT AND REMEDIATION - 4 cr Presents a current model of the reading process, including basic strategies for assessing reading difficulties, strategies for remediation and techniques for professional reporting. Prerequisites: EDUC 338, 410 or permission of the instructor.

418 CLASSROOM MANAGEMENT - ELEMENTARY - 3 cr Strategies for handling the classroom environment including management, discipline and individualizing skills. Instructional needs can be met by modifying the organizational pattern and modes, and the conditions of learning with reference to expectations at the elementary level.

419 CLASSROOM MANAGEMENT - SECONDARY - 3 cr Addresses organizational pattern, management skills, discipline practices, individual action and classroom environmental conditions toward providing an optimum learning environment at the secondary level.

420 ADMISSION TO PROFESSIONAL CANDIDACY - 3 cr Includes study of exceptionality, school law and professionalism. You are asked to demonstrate characteristics of desirable teacher-pupil relations. Evidence is presented to a Professional Admissions Interview Committee made up of one faculty member from the Department of Education, one faculty member from your major department, and one teacher from the K-12 schools. The committee either admits you to professional candidacy, recommends remedial assignment before admittance, or does not recommend you. Prerequisites: Elementary: EDUC 303, 304, 337, 338, 339, 340, and minimum number of credits in major; Secondary: EDUC 303, 341. Fee assessed.

421 ELEMENTARY METHODS AND INTERNSHIP - 16 cr Methods of teaching reading, language arts, social science, and science in the elementary school. Applying theory to classroom situations in an elementary school. Prerequisite: EDUC 420. Instructor approval required prior to registration.

422 STRATEGIES AND ELEMENTARY STUDENT TEACHING - 16 cr Development of strategies, assessment of individual student needs, and modes of instruction with major emphasis on student teaching in the

elementary school. Prerequisite: EDUC 420. Instructor approval required prior to registration.

423 ELEMENTARY STUDENT TEACHING K-6 or 8 16 cr Prerequisite: EDUC 420. Instructor approval required prior to registration.

424 INTERNSHIP ELEMENTARY LEVEL - Variable cr In this class you student teach in a special area such as P.E., music, library, special education or another area allowing you to get additional experience. Prerequisite: EDUC 420. Instructor approval required prior to registration.

425 INTERNSHIP SECONDARY LEVEL - Variable cr This class is designed to give you student teaching experience in a new area or provide you with additional student teaching experience. Prerequisite: EDUC 420. Instructor approval required prior to registration.

426 SECONDARY STUDENT TEACHING 7-12 16 cr Prerequisite: EDUC 420. Instructor approval required prior to registration.

427 GENERAL STUDENT TEACHING K-12 16 cr For information regarding prerequisites, arrangements, and assignments, contact the Department of Education. Prerequisite: EDUC 420. Instructor approval required prior to registration.

435 FIELD EXPERIENCE IN GIFTED/TALENTED EDUCATION - 3 cr Provides you with the opportunity to plan, initiate, and evaluate elementary school and/or secondary school programs in gifted/talented education. Prerequisite: EDUC 409.

455 HISTORY, THEORY, AND CURRENT PROGRAMS IN EARLY CHILDHOOD EDUCATION - 4 cr Historical background of British Infant Schools, Montessori Nursery Schools, and kindergartens; these programs in their current forms in addition to daycare and Head Start and comparisons among the programs.

456 CURRICULUM IN THE PRESCHOOL - 3 cr Teaching procedures, materials, and appropriate activities for individuals and groups in creative activities, language arts, math, science, and social studies in preschool programs.

457 TEACHING IN THE PRESCHOOL - 3 cr Field experience in planning, executing, and evaluating suitable learning activities for individuals, small groups, and class size groups in a preschool program. Prerequisites: EDUC 456; 5 hours per week in an E.C.E. classroom.

460 INSTRUCTIONAL GAMES AND SIMULATION - 3 cr Designing, producing and the utilization of instructional games, and simulation materials for teaching/learning enrichment programs. Fee assessed.

462 INSTRUCTIONAL MEDIA AND TECHNOLOGY - 3 cr Exploration and examination of new technologies and media for education as well as understanding and analyzing emerging technology trends. Orientation and utilization of media equipment including videocamcorder, CD-ROM, computer, VCR, traditional projection equipment, laser-disc, and satellite technology. Fee assessed. Prerequisite: Junior level standing.

463 PRODUCTION OF INSTRUCTIONAL MATERIALS - 5 cr For teachers in all areas, librarians, and media specialists, a practical laboratory experience including basic techniques in mounting, laminating, enlarging, lettering, displaying, making overhead transparencies and lifts and, 3-D instructional items. All items you produce remain your property, therefore, it is recommended that you bring to class the pictures and other visual material you wish to use. A fee for supplies will be charged.

464 WRITING LEARNING ACTIVITY PACKETS - 3 cr Writing learning activity packets and other self-instructional strategies for teachers and students in any academic area (education, business, industry, community college, military, etc.).

466 ADVANCED PRODUCTION OF TEACHING MATERIALS - 5 cr Advanced Production of Teaching Materials is for instructors in all areas. Laboratory experience includes practical, useful methods and experiences in advanced techniques in mounting, laminating, enlarging, lettering, displaying, making overhead transparencies, and other professionally produced instructional materials.

467 LEARNING CENTERS - 3 cr Developing, constructing, and writing plans for learning centers using a variety of strategies based on the objectives of the school curriculum and the needs of children.

468 INSTRUCTIONAL THEORY INTO PRACTICE (ITIP) - 4 cr Develops skills on teaching to an objective at the correct level of difficulty for the learner, monitoring the learner's progress, and making adjustments. Special consideration is given to the application and utilization by the teacher of selected principles of learning.

475 PHILOSOPHY OF EDUCATION - 4 cr The purposes of education in American democracy, the role of the teacher in the education process, the characteristics of society that are most important in determining the character of the teaching.

477 ENVIRONMENTAL EDUCATION FOR THE ELEMENTARY SCHOOL - 4 cr Acquaints preservice and inservice school personnel with environmental education in the elementary school. Emphasizes field and laboratory experiences.

478 SCIENCE IN THE ELEMENTARY SCHOOL - 4 cr Develops instructional competencies in elementary school science through extensive laboratory experiences.

479 EDUCATION IN THE KINDERGARTEN - 4 cr Deals with curriculum appropriate for kindergarten, including materials, equipment, and teaching procedures in the kindergarten. Recommended to be taken prior to student teaching if done at the kindergarten level.

480 EDUCATION IN KINDERGARTEN WORKSHOP - 3 cr Provides further study and experiences in early childhood education for students with some background in kindergarten or nursery school education. Prerequisite: EDUC 479 or equivalent.

482 WORKSHOP IN PUBLIC SCHOOL CURRICULUM 3-8 cr For experienced elementary and secondary teachers who wish to do intensive work on selected problems related to curriculum and techniques. Prerequisites: Senior standing, completion of student teaching or teaching experience beyond student teaching.

483 WORKSHOP IN READING - 3 cr The physical, emotional, social, and mental phases of reading. Special consideration given to setting up the classroom program leading to improvement of reading in various areas (primary or intermediate). Prerequisite: Completion of student teaching or teaching experience beyond student teaching.

485 SEXISM IN EDUCATION 1-3 cr An overview of current issues relating to sexism in education. Both sexes are considered in all issues relating to sexism.

487 SEMINAR IN ISSUES IN EARLY CHILDHOOD EDUCATION - 4 cr A presentation and discussion of current issues related to Early Childhood Education including types of daycare, preschool and kindergarten programs, factors influencing these programs and the advantages and disadvantages of various types of programs.

488 LEARNING LAB - READING - 1 cr Students complete exercises of review, evaluation, and utilization of reading curriculum materials and textbook series currently being used in elementary school classrooms. Prerequisite: Concurrent enrollment in EDUC 490.

489 REPORTING PUPIL PROGRESS - 3 cr Evaluation of pupil achievement; parent-teacher conferences; written reports to parents; use of cumulative materials in reporting. Prerequisite: Completion of student teaching or teaching experience beyond student teaching.

490 READING METHODS IN THE ELEMENTARY SCHOOL - 3 cr Processes involved in teaching reading or related to the total elementary school curriculum (K-8). Prerequisites: EDUC 304, concurrent enrollment in EDUC 488.

492 JUNIOR HIGH SOCIAL STUDIES—LANGUAGE ARTS BLOCK - 3 cr The teaching of social studies-language arts in a block; objectives, curricula, teaching materials. Prerequisite: Completion of student teaching or teaching experience beyond student teaching.

494 PRACTICUM SEMINAR FOR READING MAJORS - 2 cr Students analyze practicum experiences, management strategies for a reading program, and develop a personal philosophical foundation for reading instruction. Must be taken concurrently with EDUC 495. Prerequisites: EDUC 410, 411, 338.

495 PRACTICUM SEMINAR FOR READING MAJORS - 5 cr You are supervised while teaching reading in a classroom setting. Required before student teaching unless special permission is granted. Prerequisites: EDUC 410, 411, 338. EDUC 494 must be taken concurrently.

497 WORKSHOPS, SHORT COURSES, OR CONFERENCES - Variable cr Electives. Major in Reading (Elementary); must be a reading workshop.

498 SEMINAR - Variable cr

499 DIRECTED STUDY - Variable cr An opportunity for students with adequate background and experience to make intensive and independent study of some special problems in education. Prerequisites: Junior standing, prior permission of the instructor and the department chair.

Library Science (LBSC)

148 STUDY OF LIBRARY RESOURCES - 1 cr Introduction to the theory and practice of searching for published information with special emphasis on resources located in Kennedy Library.

408 LIBRARIES AND SOCIETY - 3 cr The history of libraries and their influence on society with special reference to the development of the school library movement.

412 STORYTELLING - 3 cr This course allows students to become proficient storytellers of quality children's literature and to link storytelling to K-8 curriculum. Prerequisite: LBSC 420. [Cross-listed EDUC 412]

420 CHILDREN'S LITERATURE - 3 cr History and development of children's books with special reference to criteria, format, and illustration. Objectives, materials, and methods for a quality literature program in the library media center. Emphasizes critical reading in books.

430 ADOLESCENT LITERATURE - 3 cr Study of the materials and issues in the field of literature for the young adult.

440 READING GUIDANCE FOR CHILDREN AND YOUNG PEOPLE - 3 cr Meeting the reading, listening, and viewing needs of children and young people with the materials in the library media center.

450 SELECTION OF LIBRARY MEDIA MATERIALS - 3 cr Selection policies, procedures, and sources of information for evaluation and acquisition of print and nonprint materials.

460 REFERENCE WORK WITH CHILDREN AND YOUNG PEOPLE - 3 cr Methods and materials used in building reference collections and teaching reference skills to students.

480 CATALOGING AND CLASSIFICATION - 4 cr Application of the Dewey classification system and Sears subject headings to library media center materials.

490 ADMINISTRATION OF THE SCHOOL LIBRARY MEDIA CENTER - 3 cr Planning and implementing an effective program of services in the public school.

495 PRACTICUM IN THE LIBRARY MEDIA CENTER 1-5 cr Participation in a school library media center program in administration, cataloging, teaching library skills, and other services. A learning contract is required. Prerequisites: LBSC 490 (or concurrent enrollment) and 12 quarter credits of library science course work completed.

497 WORKSHOPS, SHORT COURSES, OR CONFERENCES - 3 cr

498 SEMINAR IN SCHOOL LIBRARY PROBLEMS - 3 cr

499 DIRECTED STUDY 1-3 cr Prerequisites: Prior permission of the instructor and the department chair.



ENGINEERING

See TECHNOLOGY.



ENGLISH

Paulette Scott, Chair
250 Patterson Hall
359-2401/6201
MS-25

FACULTY

L. Beason, L. Briggs, D. Elder, A. Flinn, J. Geary, D. Goodwin, U. Hegi, J. Kaufman, J. Keeble, M. Lester, J. McAuley, S. McGinty, M. Nelson, R. Olafson, A. Raley, L. Reeves, R. Ridings, P. Scott, G. Smith, H-Y. Steiner, I. Urcia, N. Van Winckel, D. Wall, D. Weekes, P. Weller

PROGRAM DESCRIPTION

The study of English is basic at all levels of education. Its focus is the understanding and use of our written language. Usually English courses have emphasized the understanding of great literary works and the writing of interpretative essays; however, increasing emphasis is now being placed on the many types of literature and on the active practice of writing, both creative and practical.

In addition to its graduate degree programs, the Department of English offers undergraduate programs for both the major and non-major student. For the undergraduate non-major it offers courses in the University Writing Program (required of all students) and literature courses in the Humanities emphasis of the General Education Core Requirements, designed to help students appreciate and better understand their cultural heritage.

Traditional and Non-Traditional Career Paths for English Majors

For the major, the curricula in English are specifically designed to help prepare students in the following fields: teaching - elementary and secondary; creative writing; technical communications; and advanced studies in language and literature. The discipline of English is also one of the most recommended pre-professional majors; the development of verbal skills, especially written expression, is of great importance to students planning graduate work in government, business, law, or librarianship.

Students with general career goals already in mind should contact the director or co-director of the program in which they may concentrate. This contact should be made as soon as possible so that a program can be best planned to suit the student's individual interests and needs.

Students who are unsure of their career goals are invited to discuss their interests with the chair or any other Department of English faculty member.

Programs closely related to English include the Humanities, Journalism, and Religious Studies Programs. These programs, as well as their degree and course offerings, are listed individually in this section of the catalog.

Special Recognition of Outstanding English Majors

Two of the university's most prestigious academic scholarships are offered by the Department of English. The Tiejie and Kleiner scholarships are awarded to English majors at the end of their junior years for use in their senior years and represent a major portion of a student's yearly expenses. Outstanding students are nominated each spring quarter by English Department faculty.

DEGREE/MAJOR-OPTIONS/MINORS/CERTIFICATION DESCRIPTIONS

For the majors and minors in English, the Department offers course work leading to either the Bachelor of Arts or the Bachelor of Arts in Education degree. Requirements vary depending on the type of degree sought and the area of concentration.

Bachelor of Arts (BA)

Major: English

Options: Creative Writing

Literary Studies

Technical Communications

Under the Bachelor of Arts degree, the Department of English offers a studio program, a liberal arts program, and a professional program. These are distinguished by the following areas of concentration:

Creative Writing is a studio program designed to help students publish their artistic work. It is not intended to prepare a student for a specific career; however, our creative writing graduates, while publishing artistic work, have found diversified careers in editing, publishing, grant writing, teaching, professional school, and many careers less clearly related to their writing abilities. Courses in Technical Communications are complementary to these career interests.

The Creative Writing major is encouraged to register for five or more credits from the following list of General Education Core Requirements:

HUMN 210 Classics in Literature (5)

HUMN 211 Masterpieces of the Western World (5)

History courses appropriate to the student's area of literary interest.

Literary Studies is a liberal arts program. It often is recommended as a pre-professional program and is the most appropriate concentration for those students hoping to pursue the study of language and literature at the doctoral level. Many students pursue this concentration for personal enrichment or in preparation for other types of careers or professional schools. Literary Studies majors are generally successful wherever verbal skills are important.

Technical Communications is a professional program designed to help students pursue careers writing and editing for journals, businesses, science, industry, and government. An important feature of this concentration is the senior year internship (ENGL 405), requiring at least 200 hours of supervised work in a business, industry, or agency related to the student's academic preparation and career goals.

All Technical Communications majors are required to demonstrate word processing proficiency and are advised to acquire an understanding of a computer language.

Bachelor of Arts in Education (BAE)

Major: English/Elementary or Secondary

Under the Bachelor of Arts in Education degree, the Department of English offers two different programs for the major - one for the prospective elementary teacher and another for the prospective secondary teacher.

Minors

Minor programs are available for students interested in combining a general interest in English language and literature with a liberal arts major, for those wishing to study technical writing in preparation for a technical, scientific, professional, or communications career, and for those planning to teach at the elementary or secondary level.

Minor: English

Options: General Interest

Technical Writing

Elementary/Secondary

Certification

Endorsements Associated with Baccalaureate Majors and Minors: English/Elementary (BAE) major and English/Secondary (BAE) major satisfy the Primary Endorsement: 4-12; English/Secondary (BAE) minor satisfies the Supporting Endorsement: 4-12.

Endorsement Add-Ons: English, 4-12; Language Arts, 4-12.

ADMISSION REQUIREMENTS/PREPARATION

ENGL 201, or equivalent satisfaction of University Proficiencies in Writing, is required for all 300- and 400-level English courses.

Admission into a specific major program requires the completion of a set of departmental pre-major requirements. Students intending to major in any English program must complete the appropriate pre-major before enrolling in any 300- or 400-level English course except with the approval of the chair; otherwise, students are subject to disenrollment.

Common Departmental Pre-Major

- Complete ENGL 201, or equivalent, with at least a grade of 2.5.
- Pass the department editing exam.
- Pass ENGL 270, Introduction to Fiction, and ENGL 271, Introduction to Poetry, with a minimum grade of 2.5 in each course and at least a 3.00 average for the two courses together.

Specific programs may require a writing sample or an additional course in their pre-major beyond the common departmental pre-major requirements given above.

Pre-Major Admission Procedure

Students intending to major in English should contact the department chair for an initial interview and to fill out the major declaration form. Students then meet with the director of the program they wish to enter for advising. The department editing exam is offered in the first week of every term in both ENGL 270 and 271. Students who fail the exam may retake it later in the term. Students who do not pass the exam in either ENGL 270 or 271 by the end of the term cannot receive a grade higher than 2.4 for that course.

After the completion of all pre-major requirements, students submit a letter of application to the director of the program they wish to enter. The letter must include a statement of why they want to be in the program, what they hope to get out of the program, and when they plan to complete the program with draft schedules and timelines.

Foreign Language Requirements

Two years of a foreign language in high school or one year in college is required for graduation with a BA major in Creative Writing, Literary Studies, or Technical Communications. While a foreign language is not required for elementary or secondary BAE majors, it is strongly recommended.

DEGREE REQUIREMENTS

BACHELOR OF ARTS

Major: English

● **Option:** Creative Writing—65 credits

Pre-Major Requirements: 15 credits

ENGL 270 Introduction to Fiction (5)

ENGL 271 Introduction to Poetry (5)

Requires a minimum grade of 2.5 in each course and at least a 3.00 average for the two courses together. (See Admission Requirements for remaining requirements for the Common Departmental Pre-Major.)

This program also requires the following pre-major course:

CRWR 210 Introduction to Creative Writing (5)

Students must complete this course with a minimum grade of 3.0.

Required Literature Survey Courses: 25 credits

ENGL 330 Survey of British Literature through Neo-Classical Period (5)

ENGL 331 Survey of British Literature from Blake to Present (5)

ENGL 332 Survey of American Literature (5)

At least one of:

ENGL 350 Shakespeare (5)

ENGL 440 Medieval English Literature (5)

ENGL 441 Renaissance English Literature (5)

ENGL 442 Restoration and 18th Century Literature (5)

ENGL 443 Romantic Period Literature (5)

ENGL 444 Victorian Literature (5)

At least one of:

ENGL 430 American Literature to Whitman (5)

ENGL 431 American Literature: Twain to Dreiser (5)

ENGL 432 Twentieth Century American Literature (5)

ENGL 445 Twentieth Century British Literature (5)

Required Creative Writing Courses: 25 credits minimum

CRWR 311 Form and Theory of Fiction (5)

or CRWR 312 Form and Theory of Poetry (5)

CRWR 417 Creative Writing Workshop (Poetry) (5)

CRWR 417 Creative Writing Workshop (Fiction) (5)

CRWR 490 Senior Creative Writing Portfolio (5) (Cannot be taken until all other CRWR courses are completed.)

Five additional creative writing credits selected from the following: 5 credits

CRWR 311 Form and Theory of Fiction (5)

or CRWR 312 Form and Theory of Poetry (5)

CRWR 417 Creative Writing Workshop (5)

CRWR 491 Creative Writing in the Schools (5)

CRWR 495 Willow Springs Internship (1-3) (per quarter)

TECH 467 Desktop Publishing (4)

Note: The above major does not require the completion of a minor.

Major: English

● **Option:** Literary Studies—70 credits

Required Courses: 65 credits

Pre-Major Requirements: 10 credits

ENGL 270 Introduction to Fiction (5)

ENGL 271 Introduction to Poetry (5)

Requires a minimum grade of 2.5 in each course and at least a 3.00 average for the two courses together. (See Admission Requirements for remaining requirements for the Common Departmental Pre-Major.)

Department Core: 25 credits

ENGL 330 Survey of British Literature through Neo-Classical Period (5)

ENGL 331 Survey of British Literature from Blake to Present (5)

ENGL 332 Survey of American Literature (5)

(ENGL 330, 331, and 332 are prerequisites to corresponding 400-level literature courses.)

ENGL 350 Shakespeare (5)

ENGL 360 Language Structure and Use (5)

Required Literature Courses: 30 credits

American Literature: 5 credits minimum

Select one or more of the following period courses:

ENGL 430 American Literature to Whitman (5)

ENGL 431 American Literature: Twain to Dreiser (5)

ENGL 432 Twentieth Century American Literature (5)

British Literature: 10 credits minimum

Select two or more of the following period courses:

ENGL 440 Medieval English Literature (5)

ENGL 441 Renaissance English Literature (5)

ENGL 442 Restoration and 18th Century Literature (5)

ENGL 443 Romantic Period Literature (5)

ENGL 444 Victorian Literature (5)

ENGL 445 Twentieth Century British Literature (5)

Bible or Mythology: 5 credits

Select one of the following courses:

ENGL 385 Mythology (5)

ENGL 387 Literature of the Bible (5)

Major Figures: 5 credits

Select one of the following courses:

ENGL 450 Special Topics in Shakespeare (5)

ENGL 451 Poetry and Prose of Milton (5)

ENGL 452 Chaucer (5)

ENGL 453 Major Literary Figures (5)

Criticism: 5 credits

Select one of the following courses:

ENGL 470 History of Critical Thought (5)

ENGL 471 Theory and Practice of Modern Criticism (5)

ENGL 473 Narrative Strategies of Fiction (5)

Elective: 5 credits

Select 400-level literature course.

Note: The above major does not require the completion of a minor.

Major: English

● **Option:** Technical Communications—70 credits minimum

Required Courses: 55-56 credits

Pre-Major Requirements: 15 credits

ENGL 270 Introduction to Fiction (5)

ENGL 271 Introduction to Poetry (5)

Requires a minimum grade of 2.5 in each course and at least a 3.00

average for the two courses together. (See Admission Requirements for remaining requirements for the Common Departmental Pre-Major.)

This program also requires the following pre-major course:

ENGL 205 Introduction to Technical Writing (5)

Students must complete this course with a minimum grade of 3.0.

Department Core: 25 credits

ENGL 330 Survey of British Literature through Neo-Classical Period (5)

ENGL 331 Survey of British Literature from Blake to Present (5)

ENGL 332 Survey of American Literature (5)

ENGL 350 Shakespeare (5)

ENGL 360 Language Structure and Use (5)

Required Courses for Technical Communications: 15-16 credits

ENGL 305 Professional Writing (5)

ENGL 499 Directed Study: Portfolio Assessment (1) (to be taken in student's final quarter)

Internship: 5 credits minimum

Select credits from the following:

ENGL 395 Field work (1-10)

ENGL 405 Technical Writing Internship (1-12)

ENGL 495 Professional Internship (1-15)

Editing: 4-5 credits minimum

Select one or both of the following courses:

ENGL 409 General Editing Problems (5)

JRNM 337 Editing and Publishing (4)

Electives: 14-15 credits

Selected in consultation with English Technical Writing faculty and normally including at least one course in each of the following areas:

Computer Concepts, for example:

CSCD 400 The Computer, The Individual, and Society (4)

MISC 311 Information Technology in Business (4)

Printing/Production, for example:

TECH 265 Graphic Communication (4)

TECH 467 Desktop Publishing (4)

Oral Communication, for example:

CMST 200 Introduction to Speech Communication (4)

CMST 331 Interviewing (5)

Special Topics in Technical Writing, for example:

ENGL 404 Software Documentation (5)

ENGL 407 Proposal Writing (5)

JRNM 451 Public Relations (4)

Note: The above major does not require the completion of a minor.

BACHELOR OF ARTS IN EDUCATION

■ **Major:** English/Elementary—45 credits

Required Courses: 30 credits

Pre-Major Requirements: 10 credits

ENGL 270 Introduction to Fiction (5)

ENGL 271 Introduction to Poetry (5)

Requires a minimum grade of 2.5 in each course and at least a 3.00 average for the two courses together. (See Admission Requirements for remaining requirements for the Common Departmental Pre-Major.)

Required courses for Elementary English: 20 credits

ENGL 321 Children's Literature (5)

ENGL 360 Language Structure and Use (5)

ENGL 391 The Teaching of English in the Elementary School (5)

ENGL 459 Grammar for Teachers (5)

Electives: 15 credits

Select three 300- or 400-level literature courses in consultation with departmental adviser: 15 credits

Professional Education Requirements/Elementary Education: 65-69 credits

See the Department of Education section of this catalog. Prerequisites may also apply.

Note: The above major takes more than 12 quarters at 15-16 credits a quarter.

Note: The above major requires the completion of a minor.

■ **Major:** English/Secondary—70 credits

Required Courses: 60 credits

Pre-Major Requirements: 10 credits

ENGL 270 Introduction to Fiction (5)

ENGL 271 Introduction to Poetry (5)

Requires a minimum grade of 2.5 in each course and at least a 3.00 average for the two courses together. (See Admission Requirements for remaining requirements for the Common Departmental Pre-Major.)

Department Core: 25 credits

ENGL 330 Survey of British Literature through Neo-Classical Period (5)

ENGL 331 Survey of British Literature from Blake to Present (5)

ENGL 332 Survey of American Literature (5)

ENGL 350 Shakespeare (5)

ENGL 360 Language Structure and Use (5)

Required Courses for Secondary English: 25 credits

ENGL 408 The Composition Process (5)

ENGL 459 Grammar for Teachers (5)

ENGL 464 Grammar and Composition (5)

ENGL 493 Teaching Literature to Adolescents (5)

ENGL 494 The Teaching of English in Secondary Schools (5)

Electives: 10 credits minimum

Select two or more 300- or 400-level literature courses in consultation with departmental adviser.

Professional Education Requirements/Secondary Education: 39-41 credits

See the Department of Education section of this catalog. Prerequisites may also apply.

Note: ENGL 408, 459, 464, and 493 are prerequisites for ENGL 494 and cannot be taken concurrently with it. Minimum grade point for the major is 3.00 in ENGL 408, 459, 464, and 493. Majors must select HUMN 210 or HUMN 211 for partial fulfillment of their GEGR in Humanities unless they have AA degrees from an approved community college.

Note: The above major takes more than 12 quarters at 15-16 credits a quarter.

Note: The above major does not require the completion of a minor.

Minors

Minor: English

Option: General Interest—20 credits

Required Courses: 15 credits

ENGL 271 Introduction to Poetry (5)

ENGL 350 Shakespeare (5)

Choose one of the following courses: 5 credits

ENGL 330 Survey of British Literature through Neo-classical Period (5)

ENGL 331 Survey of British Literature from Blake to Present (5)

ENGL 332 Survey of American Literature (5)

Elective: 5 credits

Select 300- or 400-level English course.

Minor: English

Option: Technical Writing—25 credits

Required Courses: 25 credits

ENGL 205 Introduction to Technical Writing (5)

ENGL 271 Introduction to Poetry (5)

Select three 300- or 400-level English courses in consultation with Technical Writing faculty: 15 credits

Minor: English/Elementary—25 credits

Required Courses: 25 credits

ENGL 270 Introduction to Fiction (5)

ENGL 271 Introduction to Poetry (5)

ENGL 321 Children's Literature (5)

ENGL 360 Language Structure and Use (5)

ENGL 391 The Teaching of English in the Elementary School (5)

Minor: English/Secondary—40 credits

Required Courses: 40 credits

ENGL 270 Introduction to Fiction (5)

ENGL 271 Introduction to Poetry (5)

ENGL 350 Shakespeare (5)

ENGL 408 The Composition Process (5)

ENGL 459 Grammar for Teachers (5)

ENGL 493 Teaching Literature to Adolescents (5)

ENGL 494 The Teaching of English in Secondary Schools (5)

Choose one of the following courses:

ENGL 330 Survey of British Literature through Neo-Classical Period (5)

ENGL 331 Survey of British Literature from Blake to Present (5)

ENGL 332 Survey of American Literature (5)

Note: ENGL 408, 459, and 493 are prerequisites for ENGL 494 and cannot be taken concurrently with it. Minimum grade point for the minor is 3.00 in ENGL 408, 459, and 493. Minors must select HUMN 210 or HUMN 211 for partial fulfillment of their GEGR in Humanities unless they have AA degrees from an approved community college.

Course Requirements for Teacher Certification/Add-On

Endorsement(s) English: 4-12/30-35 credits

(For students who currently possess Washington state's Initial Teaching Certificate)

ENGL 270 Introduction to Fiction (5)

ENGL 271 Introduction to Poetry (5)

ENGL 321 Children's Literature (5)

or ENGL 493 Teaching Literature to Adolescents (5)

ENGL 360 Language Structure and Use (5)

ENGL 391 The Teaching of English in the Elementary School (5)

or ENGL 494 The Teaching of English in Secondary Schools (5) and ENGL

408 The Composition Process (5)

Select one 300- or 400-level literature course in consultation with departmental adviser: 5 credits minimum

Note: ENGL 321 and 391 are recommended for those students who wish to teach in the elementary schools. ENGL 408, 493, and 494 are recommended for those students who wish to teach in the secondary schools.

Language Arts: 4-12/66-67 credits

(For students who currently possess Washington state's Initial Teaching Certificate)

ENGL 270 Introduction to Fiction (5)

ENGL 271 Introduction to Poetry (5)

ENGL 321 Children's Literature (5)

or ENGL 493 Teaching Literature to Adolescents (5)

ENGL 360 Language Structure and Use (5)

ENGL 391 The Teaching of English in the Elementary School (5)

or ENGL 494 The Teaching of English in Secondary Schools (5)

ENGL 408 The Composition Process (5)

Select one 300- or 400-level literature course in consultation with departmental adviser: 4-5 credits minimum

CMST 327 Directing Forensic Activities (2)

CMST 350 Small Group Communication (5)

or CMST 310 Interpersonal Communication (5)

CMST 420 Secondary Speech Communication Methods (4)

or CMST 499 Directed Study in Methods (4)

JRNM 332 News Writing (5)

JRNM 337 Editing and Publishing (4)

JRNM 351 The Law of Journalism (4)

THTR/HUMN 202 Theatre in the Humanities (5)

THTR 321 Play Production (3)

COURSE DESCRIPTIONS

Creative Writing (CRWR)

210 INTRODUCTION TO CREATIVE WRITING - 5 cr Designed to introduce students to the process, techniques, and forms of creative writing - both poetry and fiction.

311 FORM AND THEORY OF FICTION - 5 cr Style and the techniques of fiction, including a delineation of the development of major technical trends in fiction. Prerequisite: CRWR 210.

312 FORM AND THEORY OF POETRY - 5 cr An intensive study of the history and current use of prosody and poetics and the application of traditional and innovative theories of contemporary poetry. Prerequisite: CRWR 210.

417 CREATIVE WRITING WORKSHOP - 5 cr Workshop in various genres, e.g., fiction, poetry, non-fiction, drama, scriptwriting, or translation. This

course may be repeated frequently. Different genres and subjects will be indicated in the Announcement of Courses and on the student's permanent record. Prerequisite: CRWR 210.

467 CONTEMPORARY WOMEN'S FICTION - 5 cr A look at changing perspectives in women's fiction from the 1970s to the present. Prerequisites: English majors must have grades of 2.5 or better in ENGL 201, 270, and 271; non-majors must have permission of the instructor. [Cross-listed ENGL 467, WMST 467]

469 LITERATURE OF THE PACIFIC NORTHWEST - 5 cr A survey of Northwestern literature from 1800 to the present time, including representative exploration journals as well as more recent works by such writers as Richard Hugo, James Welch, Carolyn Kizer, and Ursula LeGuin. Addresses questions of geography and regional culture. Prerequisite: ENGL 332. [Cross-listed ENGL 469]

490 SENIOR CREATIVE WRITING PORTFOLIO - 5 cr A class for senior creative writing majors. Students will revise poetry, fiction, and essays from previous creative writing classes, culminating in a final portfolio of polished literary work. Half of the class sessions will be workshops, and half private conferences with the instructor. Prerequisites: Completion of CRWR 311 and/or CRWR 312 and two CRWR 417 workshops.

491 CREATIVE WRITING IN THE SCHOOLS - 5 cr Designed for prospective teachers of Creative Writing in the schools (K-12). Initially the focus is on developing projects for poems and stories, concentrating on matters of diction, imagery, rhythm, form, and comparisons such as metaphor and simile. The bulk of the work may consist of classroom visitation in the Spokane area, with practical application of the projects developed by the students participating in this course.

495 WILLOW SPRINGS INTERNSHIP 1-3 cr Reading and critiquing manuscript submissions to EWU's nationally recognized literary journal. May be repeated for up to six quarters. Prerequisite: CRWR 417.

498 SEMINAR IN CREATIVE WRITING OR LITERATURE - 5 cr Special topics in creative writing or literature. May be repeated for credit; the topic covered will be listed on the student's permanent record. If topic is literature, this course has the following prerequisite and may be cross-listed with ENGL 498. Prerequisites: Grades of 2.5 or better in ENGL 270 and 271.

499 DIRECTED STUDY 1-5 cr Independent study under faculty direction, adapted to individual needs of the students. Prerequisites: Prior permission of the instructor and the coordinator of the Creative Writing program.

English (ENGL)

100 FUNDAMENTALS OF STANDARD ENGLISH - 5 cr Provides opportunities for students to acquire familiarity with the standard written language of college-educated Americans. Employs lectures, small group activities, tutoring, and counseling to encourage and lead students to practice a variety of language skills. Does not count toward the 180 credit requirement. Prerequisite: Prior permission of the Director of English Composition or General Advising.

101 WRITING AMERICAN ENGLISH - 5 cr Provides opportunities for students to develop and enhance their written communication skills. Stresses the organization, development, and support of ideas and perspectives in written discourse, familiarization with library resources, and application of the rules and conventions of standard American English. (Satisfies the University Competencies, Writing.) Prerequisite: Prior permission from the Director of English Composition or General Advising.

110, 111, 112 WRITING ENGLISH FOR INTERNATIONAL STUDENTS - 5 cr each English 110-111-112 form a series of courses designed for the international student and those students whose native language is not English. Content is adapted to the needs of students in such areas as idiom, usage, reading comprehension, vocabulary, and composition, as well as library activities. Depending on the progress shown, a student may enter one of the required English composition courses after one or more quarters of this sequence.

170 INTRODUCTION TO LITERATURE - 5 cr An examination of literary approaches in human experience including short fiction, poetry, and drama. Principal attention to the elements that make up literature, with supporting discussion of ideas, attitudes, problems, and values. (Satisfies the GEGR for Humanities and Fine Arts, List 1, Literature.)

201 PRINCIPLES OF EFFECTIVE THINKING AND WRITING - 5 cr For students whose background has included regular and recent application of the principles of prose discourse in its several forms—narration, description, exposition, and persuasion—together with wide and varied reading in texts reflective of significant ideas. A special study unit emphasizing effective use of library resources is required of all students. (Satisfies the University Proficiencies, Writing.) Prerequisite: Prior permission of the Director of English Composition or General Advising.

205 INTRODUCTION TO TECHNICAL WRITING - 5 cr To develop skills for presenting factual information through writing instructions; describing mechanisms, processes, systems; and preparing brief research papers. Writing for utilitarian purposes in the scientific, business, and technical disciplines. Prerequisite: ENGL 101 or 201.

270 INTRODUCTION TO FICTION - 5 cr The basic elements of fiction. Through class discussions and writing assignments, students analyze, interpret, and evaluate individual short stories and a novella which are broadly representative of a variety of historical periods and narrative genres. Prerequisite: ENGL 101; ENGL 201 recommended.

271 INTRODUCTION TO POETRY - 5 cr The basic elements of poetry. Presentation similar to ENGL 270. Prerequisite: ENGL 101; ENGL 201 recommended.

299 INDIVIDUAL STUDY 1-5 cr Special studies in English or composition. Such studies will vary according to faculty and student interest. Prerequisites: Prior permission of the instructor and the department chair.

300 SPECIAL PROBLEMS IN COLLEGE WRITING - 1 cr Offered on a tutorial basis for students whose written composition is considered unsatisfactory by the instructor of any course in the undergraduate curriculum of the university. Open only to students who have already completed their writing requirement. Normally, eligible students should not need more than two separate referrals, for a total of two credits in two different quarters.

301 THE INVESTIGATIVE PAPER - 5 cr For the upper-division student. Particular attention to skillful and comprehensive use of library resources; careful organization, interpretation, and evaluation of authoritative information; and adherence to the conventions of the academic paper. Prerequisite: ENGL 201.

304 ADVANCED WRITING MECHANICS - 3 cr Practical service course for upper-division and graduate students who want further training in the mechanics of expository writing, or are referred by their major departments. Class work may include writing projects associated with other courses. Students must have finished all composition requirements.

305 PROFESSIONAL WRITING - 5 cr Writing instruction manuals, company brochures, product descriptions, abstracts, newsletters, research reports, proposals, etc. Practical experience through participation in on-campus writing projects. Prerequisites: ENGL 201 and 205.

308 ADVANCED EXPOSITION - 5 cr A course for the upper-division student majoring in such traditional liberal arts areas as history, language, literature, and philosophy. Emphasis upon understanding the theory of classical and modern rhetoric, with regular provision for practice of the persuasive essay. Prerequisite: ENGL 201.

315 TOPICS IN LITERATURE AND CULTURE - 5 cr A thematically organized course dealing with literary and cultural topics as they are reflected in literature. Some representative topics are the following: The American Dream in Literature; The Image of Women in American Pioneer Literature; and The Colonial Experience in Literature. Course may be repeated for credit if taken with a different topic. Prerequisite: ENGL 201.

321 CHILDREN'S LITERATURE - 5 cr Major types of literature for children in the elementary grades, with the greatest emphasis upon the distinguished and lasting fiction, folklore, fantasy, picture books, and poetry. Prerequisite: ENGL 201.

330 SURVEY OF BRITISH LITERATURE THROUGH NEO-CLASSICAL PERIOD - 5 cr History of British literature from the Anglo-Saxon period to the end of the 18th century. The course focuses on representative works of representative authors, examining the changes in literary forms and in conceptions of culture and society. Prerequisites: English majors must have grades of 2.5 or better in ENGL 201, 270, and 271; non-majors must have permission of the instructor.

331 SURVEY OF BRITISH LITERATURE FROM BLAKE TO PRESENT - 5 cr History of British literature from the Romantics to the present. The course focuses on representative works of representative authors, examining the changes in literary forms and in conceptions of culture and society. Prerequisites: English majors must have grades of 2.5 or better in ENGL 201, 270, and 271; non-majors must have permission of the instructor.

332 SURVEY OF AMERICAN LITERATURE - 5 cr History of American literature from the beginnings of European colonization to the present. The course focuses on representative works of representative authors, examining the changes in literary forms and in conceptions of American culture and society. Prerequisites: English majors must have grades of 2.5 or better in ENGL 201, 270, and 271; non-majors must have permission of the instructor.

350 SHAKESPEARE - 5 cr Reading and interpretation of the principal comedies, histories, tragedies, and sonnets of Shakespeare; usually includes intensive study of one play. Prerequisites: English majors must have grades of 2.5 or better in ENGL 201, 270, and 271; non-majors must have permission of the instructor.

360 LANGUAGE STRUCTURE AND USE - 5 cr The nature and function of language; approaches, concepts, component areas of linguistics. Prerequisite: ENGL 201.

379 AMERICAN LITERATURE OF ETHNIC MINORITIES - 5 cr Any one of several major areas of ethnicity may be focused on: Native American, Asian American, Latin American/Chicano, and African American. Specialized sub-topics within these general areas may also be the subjects of this course in different offerings. Different subject matter will be indicated by words added to the title in the Course Announcement. Course may be taken more than once with different subject matter. (Satisfies Cultural and Gender Diversity Graduation Requirement.) Prerequisite: ENGL 201. [Cross-listed BLST 379, HUMN 379]

- 380 SURVEY OF NATIVE AMERICAN LITERATURES** - 5 cr Designed to introduce students to specific examples of narrative, ceremonial, ritualistic, religious, and secular literatures from the Oral Traditions of Indian Nations in North America and South America. Also introduces students to contemporary genres (i.e., poetry, the short story, the novel, and drama) as they emerge from the Oral Traditions, with the specific purpose of articulating the continuity as reflected in literary genres. (Satisfies Cultural and Gender Diversity Graduation Requirement.) Prerequisite: ENGL 201. [Cross-listed IDST 380]
- 381 CONTEMPORARY AMERICAN BLACK LITERATURE** - 4 cr Major American Black literature of the 20th century: fiction, poetry, essay, autobiography, and drama. Prerequisite: ENGL 201. [Cross-listed BLST 381]
- 382 STUDIES IN EPIC FANTASY** - 5 cr Selected works by Tolkien, Lewis, Eddison, Carter, Cabell, and others, with emphasis on the function of fantasy and its statements about contemporary society and the human imagination. Texts selected vary according to student interest. Prerequisite: ENGL 201.
- 384 FOLKLORE** - 5 cr Surveys the nature of folklore in its theories and practices, with special attention to the function of the folk imagination. Topics include the oral tradition possessed by every group, widespread folk practices and beliefs, and the methods of their collection and study. Prerequisite: ENGL 201.
- 385 MYTHOLOGY** - 5 cr A survey of classical Greek myths, with special attention to the stories used in literature, and an introduction to comparative mythology. Prerequisite: ENGL 201.
- 387 LITERATURE OF THE BIBLE** - 5 cr Studies the literature of the Bible, both Old and New Testaments, in its historical, cultural, and linguistic settings through selected readings. Prerequisite: ENGL 201.
- 389 WOMEN, LITERATURE, AND SOCIAL CHANGE** - 5 cr Examines fictional images of women as these images reflect the changing roles and status of women from Greece to present, focusing on the 19th and 20th centuries. (Satisfies Cultural and Gender Diversity Graduation Requirement.) Prerequisite: ENGL 201. [Cross-listed WMST 389]
- 391 THE TEACHING OF ENGLISH IN THE ELEMENTARY SCHOOL** - 5 cr An exploration of the English program in grades 1 through 8, with an emphasis on how to develop and teach creative and utilitarian writing lessons, small group and whole class discussion lessons. Prerequisites: English majors must have grades of 2.5 or better in ENGL 201, 270, and 271; non-majors must have permission of the instructor.
- 395 FIELD WORK** 1-10 cr
- 400 WOMEN AND MEN IN LITERATURE** - 1 cr This course teaches the integration of women authors, the ideas of men writing about women, and ideas interesting to women in the study of literature. We will deal with textbook selections and a comparative treatment of women and men in a literature survey course. The course will provide a feminist approach and review the literature on gender balance. [Cross-listed WMST 400]
- 404 SOFTWARE DOCUMENTATION** - 5 cr A study of the software documentation process. In collaboration with students in CSD 451, students acquire practical experience in developing document plans and then implementing them in the design and composition of printed user manuals and online help. In addition, students become acquainted with current issues in the field of software user education. Prerequisites: ENGL 201 and 205. ENGL 305 is strongly recommended, as well as familiarity with a word processing program.
- 405 TECHNICAL WRITING INTERNSHIP** 1-12 cr A minimum of 40 hours work per quarter as a student-intern in technical communications for a cooperating business, industry, or agency. Students may earn from 1 to 12 credits, depending on the number of hours worked during the quarter. May be repeated. Prerequisite: ENGL 305.
- 407 PROPOSAL WRITING** - 5 cr Investigation of funding sources, use of government documents for research, and evaluation of submitted proposals are among areas covered. Emphasis is on clear, concise writing of individualized student projects. Prerequisite: ENGL 201.
- 408 THE COMPOSITION PROCESS** - 5 cr Study and analysis of the cognitive steps taken and of the general process usually followed when a person writes clearly and effectively. Designed especially for those who are interested in the teaching of composition. Prerequisite: ENGL 201; ENGL 308 is recommended.
- 409 GENERAL EDITING PROBLEMS** - 5 cr Editing skills needed for a variety of specialized purposes, from technical manuals to literary magazines. Prerequisite: ENGL 201.
- 414 LITERARY EDITING AND DESIGN** - 5 cr The history of literary magazine publishing in America since 1950. Also typography, layout, graphics, and editorial vision. Students will be asked to examine and discuss various influential literary magazines of the past as well as the present and to produce a mock-up of their own literary magazine. Prerequisite: ENGL 201.
- 421 SPECIAL TOPICS IN CHILDREN'S LITERATURE** - 4 cr The Course Announcement will indicate specific topic to be considered. Offerings include picture books, fantasy literature, myths and folk tales, minority groups, and new trends in children's literature. Prerequisites: English majors must have grades of 2.5 or better in ENGL 201, 270, and 271; non-majors must have permission of the instructor.
- 430 AMERICAN LITERATURE TO WHITMAN** - 5 cr The literature of North America from colonial times to the Civil War, with emphasis on the New England renaissance. Prerequisite: ENGL 332.
- 431 AMERICAN LITERATURE: TWAIN TO DREISER** - 5 cr The literature of the United States from the Civil War to World War I, with emphasis on the prose and poetry of the realistic movement. Prerequisite: ENGL 332.
- 432 TWENTIETH CENTURY AMERICAN LITERATURE** - 5 cr Chief figures, works, and trends in the literature of the United States since World War I. Prerequisite: ENGL 332.
- 440 MEDIEVAL ENGLISH LITERATURE** - 5 cr Middle English literature in translation with some class reading of original texts. Readings may include Arthurian romances, Piers Plowman, Gower, Pearl, Sir Gawain, Mallory, ballads, and lyrics. Prerequisite: ENGL 330.
- 441 RENAISSANCE ENGLISH LITERATURE** - 5 cr Elizabethan lyrics; Spenser; Metaphysical and Cavalier poetry; Elizabethan and Jacobean drama. Prerequisite: ENGL 330.
- 442 RESTORATION AND 18th CENTURY LITERATURE** - 5 cr Major emphasis on Dryden, Pope, Swift, and Johnson. Lesser figures and the intellectual milieu of the period receive some attention. Prerequisite: ENGL 330.
- 443 ROMANTIC PERIOD LITERATURE** - 5 cr English writers of the Romantic period, with emphasis on Wordsworth, Coleridge, Blake, Keats, Shelley, Byron. Prerequisite: ENGL 331.
- 444 VICTORIAN LITERATURE** - 5 cr English poetry and prose (exclusive of novels) of the middle and late 19th century, with chief emphasis on the works of Tennyson, Browning, Arnold, and Hopkins. Prerequisite: ENGL 331.
- 445 20th CENTURY BRITISH LITERATURE** - 5 cr Literature of Great Britain from 1900 to contemporary times, including such figures as Shaw, Yeats, Joyce, Eliot, and Auden. Prerequisite: ENGL 331.
- 450 SPECIAL TOPICS IN SHAKESPEARE** - 5 cr Shakespeare for advanced students: special topics such as dark and light comedy, the tragic heroes, Shakespeare history, etc., at the choice of the instructor. Course is taught at a level advanced enough to require some background in literature. May be taken more than once; subject matter described by the added wording in the title. Prerequisites: ENGL 330 and 350.
- 451 POETRY AND PROSE OF MILTON** - 5 cr Milton's major poems and his most important prose. Attention to literary and historical backgrounds, to Milton's development as poet and thinker, and to selected problems of Milton scholarship. Prerequisite: ENGL 330.
- 452 CHAUCER** - 5 cr Reading and interpretation of the chief poetry of Geoffrey Chaucer. Prerequisite: ENGL 330.
- 453 MAJOR LITERARY FIGURES** - 5 cr Focuses on the work of major figures from either British, American, or world literature, considering their biography, the scope and development of their achievement, and the stature of their principal works. May be taken more than once; subject matter described by the added wording in the title. Prerequisite: ENGL 330, 331, or 332 (as appropriate).
- 456 COMPUTERS AND COMPOSITION** - 5 cr Survey of research literature on the use of computers for teaching composition. Review of existing software and computer-assisted instructional programs relevant to teaching composition. Develop prototype computerized classroom materials. Attain basic competency in word processing program. Prerequisite: ENGL 408 or equivalent.
- 459 GRAMMAR FOR TEACHERS** - 5 cr Major features of English grammar. Course covers word formation; part of speech identification; and the analysis of phrases, clauses, and sentences. Prerequisite: ENGL 201.
- 460 MODERN GRAMMAR** - 5 cr Analysis of major syntactic rules of English from the standpoint of transformational grammar. Prerequisite: ENGL 201; ENGL 360 is recommended.
- 461 SURVEY OF PSYCHOLINGUISTICS** - 3 cr A survey of psycholinguistic process: language comprehension, production, and acquisition. Prerequisite: ENGL 360. [Cross-listed COMD 407]
- 462 TOPICS IN SOCIO-LINGUISTICS** - 5 cr The study of language in relation to society. Topics covered may include varieties of language (such as gender varieties), speech as social interaction, the quantitative study of speech, dialectics, and language attitudes and standards. Prerequisite: ENGL 201; ENGL 360 is recommended.
- 464 GRAMMAR AND COMPOSITION** - 5 cr Analysis of basic writing problems (grammatical and punctuation errors, and syntactic immaturity) in the writing of secondary students and the development of remediation materials and strategies. Prerequisite: ENGL 459 or equivalent knowledge of traditional grammar.
- 467 CONTEMPORARY WOMEN'S FICTION** - 5 cr A look at changing perspectives in women's fiction from the 1970s to the present. Prerequisites: English majors must have grades of 2.5 or better in ENGL 201, 270, and 271; non-majors must have permission of the instructor. [Cross-listed CRWR 467, WMST 467]
- 468 HISTORY OF THE ENGLISH LANGUAGE** - 5 cr Origins and development of the English language from prehistoric times to the present. Prerequisite: ENGL 201; ENGL 360 is recommended.
- 469 LITERATURE OF THE PACIFIC NORTHWEST** - 5 cr A survey of Northwestern literature from 1800 to the present time, including representative exploration journals as well as more recent works by such writers as Richard Hugo, James Welch, Carolyn Kizer, and Ursula LeGuin. Addresses questions of geography and regional culture. Prerequisite: ENGL 332. [Cross-listed CRWR 469]

- 470 HISTORY OF CRITICAL THOUGHT - 5 cr** The history and development of Western literary criticism and theories of literature. Prerequisites: English majors must have grades of 2.5 or better in ENGL 201, 270, and 271; non-majors must have permission of the instructor.
- 471 THEORY AND PRACTICE OF MODERN CRITICISM - 5 cr** An analysis of various approaches used in modern (20th century) criticism with emphasis upon British and American literary critics. Prerequisites: English majors must have grades of 2.5 or better in ENGL 201, 270, and 271; non-majors must have permission of the instructor.
- 473 NARRATIVE STRATEGIES OF FICTION - 5 cr** An examination of theories of value and effect in prose fiction, concentrating upon the work of such writers and critics as James, Auerbach, Booth, Scholes, Lodge, and Iser. Prerequisites: English majors must have grades of 2.5 or better in ENGL 201, 270, and 271; non-majors must have permission of the instructor.
- 484 FOLK TALES IN THE CLASSROOM - 5 cr** The focus is on reading folk tales from around the world to see the similar concerns, problems, fears, and hopes expressed in these traditional narratives and to gain information about folk tales and materials and techniques for teaching folklore in language arts and multicultural classes. Designed primarily for prospective teachers and practicing teachers. Prerequisite: EDUC 303 or permission of the instructor.
- 493 TEACHING LITERATURE TO ADOLESCENTS - 5 cr** Study and analysis of adolescent literature and of methods for teaching literature to various grade levels. Designed primarily for those who will be teaching and dealing with adolescent responses to literature. Prerequisites: English majors must have grades of 2.5 or better in ENGL 201, 270, and 271; non-majors must have permission of the instructor.
- 494 THE TEACHING OF ENGLISH IN SECONDARY SCHOOLS - 5 cr** English programs in secondary schools relating to curriculum, materials, and methods of teaching. Prerequisites: Secondary English majors must have grades of 3.0 or better in ENGL 408, 459, 464, and 493; secondary English minors must have grades of 3.0 or better in ENGL 408, 459, and 493.
- 495 PROFESSIONAL INTERNSHIP 1-15 cr**
- 496 TUTORING INTERNSHIP 1-3 cr**
- 497 WORKSHOP 1-5 cr**
- 498 SEMINAR IN LITERATURE OR LANGUAGE 3-5 cr** Various periods of American, English, and world literature or special topics in language studies. Some representative topics are: American literature of ethnic minorities, Canadian literature, themes and archetypes in literature, contemporary Black American literature, American drama, literature of the American South, the European novel, linguistics. A student may take the seminar several times; the period or area covered will be listed on the student's permanent record. Prerequisites: ENGL 330, 331, or 332 (as appropriate) [May be cross-listed CRWR 498]
- 499 DIRECTED STUDY 1-5 cr** Independent study under faculty direction, adapted to individual needs of the students. Prerequisites: Prior permission of the instructor and the department chair.

ENGLISH LANGUAGE INSTITUTE

Mary Brooks, Director
354 Patterson Hall
359-2259
MS-34

FACULTY

B. Bent, M. Brooks, C. Hallanger, N. Heyer, V. Jenson, Y. Leland

PROGRAM DESCRIPTION

The goal of the non-credit English Language Institute is to develop American English language skills so that students are prepared to enter American colleges and universities.

The Institute offers a variety of core courses aimed at improving students' English language abilities in all four of the basic skill areas: listening, speaking, reading and writing. The core courses include listening/conversation and reading/writing/grammar. The university support courses include: research paper and university seminar.

Students in the ELI who have satisfied all academic requirements to EWU except for English language proficiency may move to credit status based on the recommendation of the ELI staff. TOEFL scores are not required for ELI students.

A special feature of the ELI is the International Peer Adviser Program in which EWU students work with small groups of English language students to provide conversation practice, to accustom students to American life and to organize special activities and field trips.

ENGLISH AS A SECOND LANGUAGE

Mary Brooks, Program Director
354 N Patterson Hall
359-6003
MS-34

FACULTY

J. Alden, B. Bent, M. Brooks, C. Hallanger, J. Josquin, Y. Leland, M. Mulvany, E. Renshaw, S. Stannard, R. Werkle

PROGRAM DESCRIPTION

The Teaching of English as a Second Language program (TESL) is offered as an interdisciplinary minor in cooperation with the Departments of English, Education and Geography/Anthropology. This program works closely with Spokane area English language programs to form a practical basis to the minor. Senior standing is preferred. One year of foreign language study or an equivalent is a prerequisite.

The minor in English as a Second Language is designed for teacher preparation for employment in the U.S. (English as a Second Language) and overseas (English as a Foreign Language). Students are prepared through the examination of fundamentals of linguistics and second language acquisition. Following this theoretical basis, methodology, curriculum design, materials development, assessment and teaching demonstration all enable the student to put theory into practice. This program is designed as a sequence through an academic year or in two summers. All courses in this program are writing enriched.

When taken as an Education minor (27 credits), students will earn a Washington State Endorsement. Non-education majors may earn an E.W.U. TESOL Certificate of Completion (26 credits). On completion of course requirements, a portfolio will be presented to the program Director for assessment and approval. The minimum cumulative grade point average for all courses applied to the majors and minors in the Department of Modern Languages and Literatures is 2.5. A minimum of 2.0 per course grade is required for Education majors.

DEGREE/MAJOR-OPTIONS/MINORS/CERTIFICATION DESCRIPTIONS

Minor

English as a Second Language

Certification

Endorsements Associated with Baccalaureate Minor: English as a Second Language minor satisfies the Primary Endorsement: K-12.

DEGREE REQUIREMENTS

Minor: English as a Second Language—26 - 27 credits

Required Courses: 19 credits

ESLG 480 Second Language Acquisition and Teaching (4)

ESLG 481 Methodology in Teaching English as a Second or Foreign Language (4)

ESLG 482 Second Language Materials Development and Adaptation (2)

ESLG 483 Reading Instruction in a Second Language (3)

ESLG 485 Assessment in English as a Second or Foreign Language (3)

ESLG 486 Effective Language Teaching (3)

Electives choose from the following: 7-8 credits

Highly Recommended:

ANTH 445 Anthropological Linguistics (5)

ENGL 360 Language Structure and Use (5)

ENGL 459 Grammar for Teachers (5)

ESLG 484 Language Arts and ESL Instruction (3)

Also Recommended:

ANTH 446 Sociolinguistics (3)

COMD 304 Phonetics (3)

ENGL 460 Modern Grammar (5)

ESLG 498 Seminar: Language and Culture in the Content Area (2)

This number will also describe other workshops:

Writing Seminar (2)

Pronunciation Seminar (2)

Literature Seminar (2)

ESLG 499 Directed Study (2)

Minor Endorsement Program

Education majors seeking Washington State Endorsement should follow the core course list and add two courses from the electives list to include:

ESLG 484 Language Arts and ESL Instruction (3)

One linguistics or grammar based course (3)

COURSE DESCRIPTIONS

English as a Second Language (ESLG)

480 SECOND LANGUAGE ACQUISITION AND TEACHING - 4 cr This course is designed to introduce students to the many language acquisition theories while demonstrating how methods have evolved because of these theories. A practical application of theory to practice will be the focus.

Prerequisites: One year foreign language study or equivalent, ENGL 459, ANTH 445 or linguistics course.

481 METHODOLOGY IN TEACHING ENGLISH AS A SECOND OR FOREIGN LANGUAGE - 4 cr This course is designed to provide exposure to the history of language learning methodology, to practical classroom application of strategies in each skill area and ultimately on an integration of skills. Prerequisite: ESLG 480.

482 SECOND LANGUAGE MATERIALS DEVELOPMENT AND ADAPTATION - 2 cr This course is designed to familiarize students with a variety of current ESL materials, to introduce students to a variety of L2 teaching strategies, to instruct students on how to evaluate ESL materials and to provide practical experience in preparing ESL lesson plans and teaching materials. Prerequisite: ESLG 481.

483 READING INSTRUCTION IN A SECOND LANGUAGE - 3 cr This course is designed to provide exposure to reading theory and research and to incorporate this with practical classroom application of specific reading skills. Prerequisite: ESLG 482.

484 LANGUAGE ARTS AND ESL INSTRUCTION - 3 cr This course is designed to familiarize students with the learning styles, cultures, needs and characteristics of limited English proficient students enrolled in K-12. The course will familiarize students with the factors involved in the acquisition and development of literacy and instruct students in the preparation and adaptation of content area lessons, utilizing the four skill areas in language learning: listening, speaking, reading and writing. Prerequisites: ESLG 480 and 481.

485 ASSESSMENT IN ENGLISH AS A SECOND OR FOREIGN LANGUAGE - 3 cr This course is designed to provide exposure to current testing techniques, critical and practical evaluation of test construction, administration and scoring in all skill areas congruent to the principals of communicative language teaching. Prerequisite: ESLG 483.

486 EFFECTIVE LANGUAGE TEACHING - 3 cr This capstone course is designed to provide an opportunity to put theory into practice in all skill areas. Following demonstrations in each skill area, students present mini-lessons then receive written and verbal critique from instructor and peers. Prerequisite: ESLG 485.

ENVIRONMENTAL STUDIES

Suzanne Schwab, Program Director
Hall of Sciences
359-4727
MS-72

FACULTY

Varies

PROGRAM DESCRIPTION

The Environmental Studies Program provides an interdisciplinary approach to a better understanding of basic and applied ecological principles.

The 25-credit minor, involving the resources and cooperation of 9 university departments, helps students better understand environmental problems in their biological, political, economic and social contexts.

Environmental Studies students may find employment in research, analysis, and enforcement activities in state, federal and local governments and private industry.

DEGREE REQUIREMENTS

Minor: Environmental Studies—25 credits

Required Courses: 10 credits

BIOL 100 Introduction to Biology (5)

BIOL/HUMN 320 The Human Prospect (5)

Electives: 15 credits from at least 2 Departments.

ANTH 101 Cultural Anthropology (5)

BIOL 210 Pacific Northwest Trees and Shrubs (2)

BIOL 311 Field Botany (5)

CHEM 121 Chemistry and its Role in Society (5)

ECON 412/HIST 487 Economic History of the United States (5)

ECON 477 Natural Resource Economics (5)

GEOG 204 Atmospheric Environment (5)

GEOG 305 Introduction to Oceanography (5)

GEOG 312 Fundamentals of Soil Science (5)

GEOG 316 Environmental Conservation (5)

GEOG 317 Resources and Conservation (3)

GEOL 205 Geology of National Parks (5)

GEOL 220 Environmental Geology (4)

SOCI 442 Environmental Sociology (5)

SOCI 443 Social Impact Assessment (5)

PLAN 406 Planning Law and Legislation (4)

PLAN 430 Environmental Planning (5)

PLAN 431 Environmental Impact Statements (3)

COURSE DESCRIPTIONS

Environmental Studies (ENST)

497 WORKSHOP 2-5 cr

498 SEMINAR 1-2 cr

499 DIRECTED STUDIES 1-5 cr

FINANCE

See BUSINESS ADMINISTRATION.

FOOD AND NUTRITION/ DIETETICS

Food and Nutrition/Dietetics does not offer a degree program, but the courses support other programs.

COURSE DESCRIPTIONS

Food and Nutrition/Dietetics (FNDT)

356 NUTRITION - 5 cr Nutrients, processes of digestion, absorption, metabolism and nutritive requirements. For health science majors.

Prerequisite: CHEM 162.

456 NUTRITION AND AGING - 3 cr Current information regarding nutrition and its relationship to aging. Topics covered are: theories and physical aspects of aging, nutrition and aging, dietary studies and nutrition programs serving the elderly. Class activities include development of nutrition education materials for this population group. Prerequisites: Successful completion of a 200-level English course and MATH 100 or Mathematics clearance by Test. (In addition, if you are earning an Aging Studies minor, you should have taken AGST 310 or have special permission of the instructor.)

FRENCH

See MODERN LANGUAGES AND LITERATURES.



GEOGRAPHY & ANTHROPOLOGY

Elwyn C. Lapoint, Chair
103 Isle Hall, MS-52
359-2433
MS-52

FACULTY

M. Folsom, J. Galm, S. Keller, E. Lapoint, R. Quinn, J. Ross, D. Stradling,
F. Strange, D. Turbeville, S. Warren

PROGRAM DESCRIPTION

The Department of Geography and Anthropology offers courses of study leading to the Bachelor of Arts and the Bachelor of Arts in Education. The Department's offerings are divided into two major programs: Geography and Anthropology. The Bachelor of Arts is offered in both Geography and Anthropology. Minors in Geography and Anthropology are offered under both baccalaureate degrees. Also, a Bachelor of Arts in Education with a Geography major is offered. A Bachelor of Arts in Education with a major or minor in Earth Science is offered in cooperation with the Department of Geology.

The Department of Geography and Anthropology has a number of physical facilities available for student use in conjunction with coursework. Included are: a physical anthropology laboratory, one cartography laboratory room, a darkroom and a map library. In addition, a GIS and computer mapping laboratory is available.

DEGREE/MAJOR-OPTIONS/MINORS/CERTIFICATION DESCRIPTIONS

Bachelor of Arts (BA)

Major: Geography

The Geography program has four major missions: 1) providing general education courses to enrich the liberal arts offerings in both the sciences and social sciences; 2) offering specialized or more advanced courses to service other programs in the university; 3) providing a solid academic major for students wishing to pursue graduate study or work as a professional; and 4) supporting research, consulting and other services for the region. Cooperative studies and programs are coordinated with Environmental Studies, Urban and Regional Planning, Area Studies and International Studies.

The major consists of six required courses, as well as required supporting courses in three of four emphases: physical geography, human geography, regional geography, and geographic techniques. In addition to fulfilling required courses, the student has the opportunity to take additional course work in physical or human geography, geographic education or in geographic techniques including cartography, air photo interpretation and Geographic Information Systems.

Major: Anthropology

Offers students the opportunity to explore the human condition in every part of the world and all periods of history and prehistory. Specifically, the Bachelor of Arts degree in Anthropology is designed to meet the needs of students who wish to:

1. Broaden their undergraduate exposure to other peoples and cultures of the world as a part of their general education;
2. Prepare for graduate studies in anthropology; or
3. Undertake an undergraduate program leading to professional studies in such fields as the social sciences, education, and law.

Bachelor of Arts in Education (BAE)

Major: Geography/Secondary

Geography: Within the geography major, options are offered in Social Science Education for grades 4-12. (See Social Science Education section of this Catalog.)

Minors

Anthropology
Geography
Anthropology/Secondary
Geography/Secondary

Anthropology: In support of the Social Science Education program, the Department offers Anthropology courses which may lead to a Bachelor of Arts in Education minor. A minor in anthropology will not be approved unless the student completes a Bachelor of Arts in Education major in history. (See Social Science Education section of this Catalog.)

Certification

Endorsements Associated with Baccalaureate Majors and Minors: Geography/Secondary (BAE) major satisfies the Primary Endorsement: 4-12; Anthropology/Secondary (BAE) minor satisfies the Supporting Endorsement: 4-12; Geography/Secondary (BAE) minor satisfies the Supporting Endorsement: 4-12;

Endorsement Add-On: Anthropology—4-12; Geography—4-12; Social Science Education, 4-12.

Students are encouraged to see the Social Science Education section of this catalog.

ADMISSION REQUIREMENTS/PREPARATION

Geography and Anthropology students who plan to become candidates for advanced degrees are advised to complete two years of a foreign language. Also, Geography majors are advised to take at least one course in statistics.

DEGREE REQUIREMENTS

BACHELOR OF ARTS

■ **Major:** Anthropology—60 credits

Required Courses: 30 credits

- ANTH 101 Cultural Anthropology (5)
- or ANTH 305 Social Anthropology (5)
- ANTH 301 Principles of Archaeology (5)
- ANTH 345 Physical Anthropology (5)
- ANTH 401 Anthropological Research Methods (5)
- ANTH 444 Development of Anthropological Theory (5)
- ANTH 445 Anthropological Linguistics (5)
- or Equivalent in linguistics (5)

Electives: 30 credits

Select in consultation with department adviser.

Note: Two years of a single high school foreign language or one year of a single foreign language at college level is required for the above major.

Note: The above major does not require the completion of a minor.

■ **Major:** Geography—45 credits

Required Courses: 38-40 credits

- GEOG 201 Field Methods (5)
- GEOG 227 Cartography I: Maps and Air Photos (3)
- GEOG 230 World Regional Geography (5)
- GEOG 300 Physical Geography (5)
- GEOG 301 Human Geography (5)
- GEOG 392 Seminar in History and Philosophy of Geography (2)

Select one course from three of the following four groups: must total 13-15 credits

Human:

- GEOG 101 Fundamentals of Human Geography (5)
- GEOG 250 Fundamentals of Economic Geography (3)
- GEOG 316 Environmental Conservation (5)
- GEOG 317 Resources and Conservation (3)
- GEOG 406 Women and Men in the Cultural Landscape (1)
- GEOG 450 Geography of Transportation (3)
- GEOG 451 Field Studies (2-10)
- GEOG 458 Historical Geography of the U.S. and Canada (3)
- GEOG 459 Political Geography (3)
- GEOG 465 Urban Geography (3)
- GEOG 470 Architectural Landscapes of the U.S. and Canada (3)

Physical:

- GEOG 100 Fundamentals of the Physical Geography (5)
- GEOG 204 Atmospheric Environment (5)
- GEOG 305 Introduction to Oceanography (5)
- GEOG/BIOLOG 306 Forest and Rangelands (5)
- GEOG 310 Geography of Landforms (4)
- GEOG/BIOLOG 312 Fundamentals of Soil Science (4)
- GEOG 314 Weather and Climate (5)
- GEOG 315 Surface Hydrology (4)
- GEOG 325 Wetland Science I (4)
- GEOG 410 Geomorphology (5)
- GEOG 414 Regional Climatology (3)
- GEOG 420 Applied Geography Studies (2-5)

Regional:

- GEOG 330 Geography of the Pacific Northwest (4)
- GEOG 331 Geography of the U.S. and Canada (3)
- GEOG 332 Geography of Latin America (4)
- GEOG 433 Geography of Monsoon Asia (4)
- GEOG 498 Seminar in Geography (1-5)

Techniques:

- GEOG 327 Cartography II: Applied Cartography (5)
- GEOG 328 Geographic Information Systems I (5)
- GEOG 329 Air Photo Interpretation (5)
- GEOG 420 Applied Geographic Studies (2-5)
- GEOG 427 Cartography III: Computer Cartography (5)
- GEOG 428 Geographic Information Systems II (5)

Electives: 5-7 credits

Select in consultation with a department adviser.

Note: Two years of a single high school foreign language or one year of a single foreign language at college level is required for the above major.

Note: The above major requires the completion of a minor.

BACHELOR OF ARTS IN EDUCATION

■ **Major:** Geography/Secondary—44 - 46 credits

Required Courses: 44-46 credits

GEOG 230 World Regional Geography (5)

GEOG 301 Human Geography (5)

GEOG 316 Environmental Conservation (5)

or GEOG 250 Fundamentals of Economic Geography (3)

GEOG 300 Physical Geography (5)

GEOG 330 Geography of the Pacific Northwest (4)

or GEOG elective—appropriate to teaching assignment (5)

Select at least one course from each of the following three concentrations: must total 20-21 credits

Human:

GEOG 316 Environmental Conservation (5)

or GEOG 250 Fundamentals of Economic Geography (3)

GEOG 317 Resources and Conservation (3)

GEOG 465 Urban Geography (3)

Regional:

GEOG 330 Geography of the Pacific Northwest (4)

GEOG 433 Geography of Monsoon Asia (4)

Methods:

GEOG 201 Field Methods (5)

GEOG 327 Cartography II: Applied Cartography (5)

GEOG 328 Geographic Information Systems I (5)

GEOG 329 Air Photo Interpretation (5)

GEOG 398 Seminar in History and Philosophy of Geography (2)

Professional Education Requirements/Secondary Education: 39-41 credits

See the Department of Education section of this catalog. Additional prerequisites may also apply.

Note: The above major requires the completion of a minor.

Minors

Minor: Anthropology—15 credits

Required Courses: 5 credits

ANTH 101 Cultural Anthropology (5)

or ANTH 305 Social Anthropology (5)

Electives: 10 credits

Select upper-division anthropology courses in consultation with department adviser.

Minor: Geography—14 - 15 credits

Required Courses: 10 credits

GEOG 300 Physical Geography (5)

GEOG 301 Human Geography (5)

Electives: 4-5 credits

Select courses in consultation with department adviser.

Minor: Anthropology/Secondary—25 credits

Required Courses: 15 credits

ANTH 101 Cultural Anthropology (5)

or ANTH 305 Social Anthropology (5)

ANTH 345 Physical Anthropology (5)

Select one course from the following: 5 credits

ANTH 301 Principles of Archaeology (5)

ANTH 343 Old World Prehistory (5)

ANTH 356 Archaeology of North America (5)

ANTH 455 Archaeology of Meso-America (5)

Electives: 10 credits

Select upper-division anthropology courses in consultation with department adviser.

Minor: Geography/Secondary—22 - 25 credits

Required Courses: 22-25 credits

GEOG 316 Environmental Conservation (5)

or GEOG 250 Fundamentals of Economic Geography (3)

GEOG 230 World Regional Geography (5)

GEOG 300 Physical Geography (5)

GEOG 301 Human Geography (5)

GEOG 330 Geography of the Pacific Northwest (4)

or GEOG elective—appropriate to teaching assignment (5)

Course Requirements for Teacher Certification/Add-On Endorsement(s) Anthropology: 4-12/25 credits

(For students who currently possess Washington state's Initial Teaching Certificate)

ANTH 101 Cultural Anthropology (5)

or ANTH 305 Social Anthropology (5)

ANTH 345 Physical Anthropology (5)

Select one course from the following: 5 credits

ANTH 301 Principles of Archaeology (5)

ANTH 343 Old World Prehistory (5)

ANTH 356 Archaeology of North America (5)

ANTH 455 Archaeology of Meso-America (5)

Select ten credits of upper-division anthropology courses in consultation with department adviser.

Geography: 4-12/23-25 credits

(For students who currently possess Washington state's Initial Teaching Certificate)

GEOG 230 World Regional Geography (5)

GEOG 301 Human Geography (5)

GEOG 316 Environmental Conservation (5)

or GEOG 250 Fundamentals of Economic Geography (3)

GEOG 300 Physical Geography (5)

GEOG 330 Geography of the Pacific Northwest (4)

or GEOG elective—appropriate to teaching assignment (5)

**COURSE DESCRIPTIONS
Anthropology (ANTH)**

101 CULTURAL ANTHROPOLOGY - 5 cr An introduction to the study of man with principal emphasis on culture. (Satisfies the GECE for Social Sciences, List 2, Anthropology, Geography, Psychology, and Sociology.)

161 INTRODUCTION TO CHICANO CULTURE - 5 cr A study of Chicano culture providing an initial overview of its roots and conflicts. Specific components discussed are cultural identity, customs, language, psychology and the arts. (Satisfies Cultural and Gender Diversity Graduation Requirement.) [Cross-listed CHST 101]

299 SPECIAL STUDIES - Variable cr Prerequisites: Prior permission of the instructor and the department chair.

301 PRINCIPLES OF ARCHAEOLOGY - 5 cr A comprehensive survey of the field of archaeology which will introduce students to the methods of field excavation and reconstruction employed by scientific archaeologists in the reconstruction of prehistoric cultures. Prerequisite: ANTH 101 or ANTH 305 or prior permission of the instructor.

305 SOCIAL ANTHROPOLOGY - 5 cr An advanced introduction to social and cultural anthropology emphasizing key concepts and the comparison of distinctive cultures. May substitute for Anthropology 101. Prerequisite: Junior standing or permission of the instructor.

342 TRIBES, BANDS AND CHIEFDOMS - 5 cr Approaches to understanding non-state societies and an examination of how their cultures contrast with each other and with our own way of life. (Satisfies International Studies Graduation Requirement.) Prerequisite: ANTH 101 or 305.

343 OLD WORLD PREHISTORY - 5 cr An introduction to European and Middle-Eastern prehistory with a secondary emphasis on Africa and Asia. Prerequisite: ANTH 101 or 305.

345 PHYSICAL ANTHROPOLOGY - 5 cr An introduction to the origin, genetic adaptation, and evolution of living and extinct humans.

347 PEOPLES OF AFRICA - 5 cr A comparative view of tradition and change in sub-Saharan Africa. Prerequisite: ANTH 101 or 305.

348 PEASANT SOCIETIES - 5 cr World survey of what it means to be a peasant; relationship between communities and larger political wholes; revolutionary and protest movements and their future prospects. (Satisfies International Studies Graduation Requirement.) Prerequisite: ANTH 101 or 305.

349 MAJOR CIVILIZATIONS OF ASIA - 5 cr An ethnographic survey of China, Islam, and India, emphasizing the core values of each. (Satisfies International Studies Graduation Requirement.) Prerequisite: ANTH 101 or 305.

353 PEOPLES OF THE PACIFIC - 5 cr An ethnographic survey of Polynesia, Melanesia, and Micronesia.

355 INDIANS OF NORTH AMERICA - 5 cr A comparative overview of distinctive Indian cultures. Opportunities for individual research provided. (Satisfies Cultural and Gender Diversity Graduation Requirement.)

Prerequisites: ANTH 101 or 305, Junior standing or permission of the instructor.

356 ARCHAEOLOGY OF NORTH AMERICA - 5 cr The pre-Columbian history of America north of the Valley of Mexico. Prerequisite: ANTH 101 or 305.

357 PEOPLES OF LATIN AMERICA - 5 cr An ethnographic survey of contemporary cultures of Central and South America, including both aboriginal and peasant societies. Emphasis is placed on the merging and clashing of European, Indian and African, rich and poor, and the continuing character of these conflicts into the present. (Satisfies International Studies Graduation Requirement.) Prerequisite: ANTH 101 or 305.

358 PRIMITIVE AND FOLK MEDICINE - 5 cr An ethnographic survey of the differences between primitive and folk psycho-medical systems. Emphasis is placed upon diagnosis, prognosis, curing, and areas of specialization. (Satisfies International Studies Graduation Requirement.) Prerequisite: ANTH 101 or 305.

359 SOUTH ASIAN CIVILIZATION - 5 cr A study of continuity and change in the culture and society of India, Pakistan, and Bangladesh. Prerequisite: ANTH 101 or 305 or permission of the instructor.

366 REVOLUTION AND DEVELOPMENT IN THE THIRD WORLD - 5 cr This course explores the alternative models available for understanding rapid cultural change in a worldwide array of postcolonial countries. Emphasis is placed on the historical origins of ethnic, nationalist, and class conflict in

local regions as studied by anthropologists. Opportunities are made available for pursuing students' regional interests. (Satisfies International Studies Graduation Requirement.) Prerequisite: ANTH 101.

399 SPECIAL STUDIES - Variable cr Prerequisites: Prior permission of the instructor and the department chair.

401 ANTHROPOLOGICAL RESEARCH METHODS - 5 cr A review of anthropological methods for the collection and analysis of cultural data. Prerequisites: ANTH 101 or ANTH 305, and advanced standing.

441 CULTURE, SOCIETY, AND PERSONALITY - 5 cr Synthesis of research, theory, and methodology concerning basic behavioral and interactional concepts of culture, society, and personality. Prerequisites: At least five hours each in sociology, anthropology, and psychology. [Cross-listed SOCI 441]

435 IRISH HISTORY AND CULTURE - 5 cr This course examines various aspects of Irish history and culture from prehistory to the present. Attention is given to religious, social, cultural, economic and political institutions and developments. Prerequisite: 5 credit hours of anthropology or 5 credit hours of history or advanced standing with permission of the instructor. [Cross-listed HIST 435]

444 DEVELOPMENT OF ANTHROPOLOGICAL THEORY - 5 cr Introduction to the development of theoretical anthropology which surveys alternative theories concerning man and culture. Prerequisite: ANTH 101 or 305.

445 ANTHROPOLOGICAL LINGUISTICS - 5 cr An anthropological perspective on language, incorporating an examination of contemporary approaches to phonology and syntax with an emphasis on language in culture. Prerequisite: ANTH 101 or 305 or prior permission of the instructor.

446 SOCIOLINGUISTICS - 3 cr The course deals with language in its social setting. It examines linguistic variation in relation to social status and interactional context. The political implications of linguistic variation are also considered. Prerequisite: ENGL 360 or ANTH 445 or permission of the instructor.

450 CULTURAL ECOLOGY - 5 cr The relationship between man, nature, and culture is contrasted in food collecting, simple farming, and technologically more complex cultures. (Satisfies International Studies Graduation Requirement.) Prerequisite: ANTH 101 or 305.

451 SOCIAL STRUCTURE - 5 cr A consideration of various current approaches to the basic social structure of several cultures. This course will emphasize both the theoretical implications of social structural theory and ethnographic detail of the cultures involved. Prerequisite: ANTH 101 or 305.

452 ARCHAEOLOGICAL FIELD TECHNIQUES - 5 cr Archaeological theory and method with emphasis on excavation procedures and skills and laboratory analysis. Opportunity for limited field experience. Prerequisite: ANTH 101 or 305.

454 MYTH, RITUAL AND MAGIC - 5 cr Religion as viewed by anthropology, in both urban cultures and smaller non-urban groups. Primary emphasis is on non-western cultures. Prerequisite: ANTH 101 or 305.

455 ARCHAEOLOGY OF MESO-AMERICA - 5 cr The pre-Columbian history of Mexico, Central America, and Western South America. Prerequisite: ANTH 101 or 305.

457 WITCHCRAFT, SORCERY, AND SHAMANISM - 5 cr An anthropological study of the cultural significance of witchcraft, sorcery, spirit possession, and shamanism. Prerequisite: ANTH 101 or 305 or prior permission of the instructor.

495 INTERNSHIP - Variable cr

497 WORKSHOPS 1-5 cr Special short-term programs of varying content, usually involving field work problems. Prerequisite: Prior permission of the instructor.

498 DEPARTMENTAL SEMINAR 1-5 cr Selected topics in anthropology.

499 DIRECTED STUDY 1-5 cr Independent study in selected areas of anthropology. Prerequisites: Prior permission of the instructor and the department chair.

Geography (GEOG)

100 FUNDAMENTALS OF THE PHYSICAL ENVIRONMENT - 5 cr An introduction to the principal components of the earth's natural systems of weather, climate, water, soils, natural vegetation and landforms and their interrelationships. (Satisfies the GECR for Natural Sciences, Geography.)

101 FUNDAMENTALS OF HUMAN GEOGRAPHY - 5 cr An introduction to the study of spatial variations among human cultures and the patterns of interaction between humans and the natural environment, with special emphasis on topics including language, religion, demography, political systems, technology, agriculture, manufacturing and urbanization. (Satisfies the GECR for Social Sciences, List 2, Anthropology, Geography, Psychology, and Sociology.)

201 FIELD METHODS - 5 cr This course presents the fundamentals of field research design.

204 ATMOSPHERIC ENVIRONMENT - 5 cr An introduction to the earth-atmosphere system. The course surveys the physical nature of the atmosphere including weather elements, weather systems, and climate. The course addresses the social and environmental issue related to natural and

human induced changes in the composition of the atmosphere. (Satisfies the GECR for Natural Sciences, Geography.) Prerequisite: Mathematics clearance.

227 CARTOGRAPHY I: MAPS AND AIR PHOTOS - 3 cr Entry-level survey of the physical properties and uses of topographic maps and air photographs. Special emphasis is placed upon the identification, analysis and interpretation of landscape elements utilized by geographers and planners. Lecture and laboratory.

230 WORLD REGIONAL GEOGRAPHY - 5 cr A survey of world geographical relationships. Includes an examination of the distribution of selected physical and human phenomena and the processes responsible for the distributions and the varying interrelationships from place to place between humans and the environment.

250 FUNDAMENTALS OF ECONOMIC GEOGRAPHY - 3 cr Patterns, structures and locational principles of economic activity, including regional/historical economic development, agriculture and resource land use, industrial location and distribution of service activity. Prerequisite: GEOG 101 or GEOG 230 or permission of the instructor.

299 SPECIAL STUDIES - Variable cr Subjects studied vary according to faculty and student interest.

300 PHYSICAL GEOGRAPHY - 5 cr Systematic study of physical events and processes within the human environment including elements of landforms, weather and climate, vegetation and soils. Prerequisite: GEOG 100 or prior permission of the instructor.

301 HUMAN GEOGRAPHY - 5 cr A study of humans, focused on their interaction with the physical and cultural environments of the earth. Prerequisite: Successful completion of ENGL 201.

305 INTRODUCTION TO OCEANOGRAPHY - 5 cr An introduction to the nature, occurrence, distribution and interrelationships of phenomena in the oceans, the basins and margins. Prerequisite: Mathematics clearance.

306 FOREST AND RANGELANDS - 5 cr An introduction to the pattern of North American vegetation, emphasizing the Pacific Northwest. Prerequisite: GEOG 100 or prior permission of the instructor. [Cross-listed BIOL 306]

310 GEOGRAPHY OF LANDFORMS - 4 cr A comprehensive introduction to the features and processes of landforms and their regional distribution. Prerequisite: GEOL 100 or GEOG 100 or prior permission of the instructor.

312 FUNDAMENTALS OF SOIL SCIENCE - 4 cr A general introduction to physical, chemical and biological properties of soils. Prerequisite: Successful completion of MATH 100 or Mathematics clearance by test. [Cross-listed BIOL 312]

314 WEATHER AND CLIMATE - 5 cr Includes the principles of meteorology, description and use of instruments, weather and climate controls. Prerequisite: GEOG 204 or prior permission of the instructor.

315 SURFACE HYDROLOGY - 4 cr A comprehensive treatment of the hydrologic environment of the earth. Topics include: components of the hydrologic cycles, hydrography of major climate regions, water quality assessment and global water resource problems. Prerequisite: Mathematics clearance.

316 ENVIRONMENTAL CONSERVATION - 5 cr An introductory, interdisciplinary study of human interaction with the environment in the context of political, economic, social and cultural institutions as well as biotic ecosystems, and with philosophies of conservation. Emphasizes the problems of environmental quality arising from human management of the environment.

317 RESOURCES AND CONSERVATION - 3 cr Studies the nature and distribution of natural resources, and problems and principles of their use and conservation.

325 WETLAND SCIENCE I - 4 cr An introduction to the fundamental processes that form and sustain wetlands. Emphasizes the distinctive hydrology, soils, and vegetation of wetlands and field experience in delineation. Examines issues of regulation. Focus is on Pacific Northwest wetlands. Prerequisite: Permission of the instructor.

327 CARTOGRAPHY II: APPLIED CARTOGRAPHY - 5 cr The application of introductory principles in the construction of maps. Emphasizes analysis of map components and the developing of skills in handling basic cartographic equipment. Prerequisite: GEOG 227 or prior permission of the instructor.

328 GEOGRAPHIC INFORMATION SYSTEMS I - 5 cr Introductory survey of geographic information systems. Focus is on (1) computer techniques for the input, storage, manipulation, analysis, and output of spatial data, and (2) the social and administrative creation and dissemination of geographic information. Lecture and laboratory. Prerequisite: Computer literacy.

329 AIR PHOTO INTERPRETATION - 5 cr Aerial photographs as records of the earth surface; recognition, measurement, and interpretation of natural and man-made features. Prerequisite: Junior standing or prior permission of the instructor.

330 GEOGRAPHY OF THE PACIFIC NORTHWEST - 5 cr An introduction to regional geographic studies on a local scale. A survey and appraisal of the interrelated elements of the economy, resources, population and physical environment as they affect the growth and development of the region. Prerequisite: Junior standing.

331 GEOGRAPHY OF THE U.S. AND CANADA - 3 cr A geographical analysis of U.S. and Canada based on patterns of physical environment, settlement, resources transportation, urbanization, manufacturing and

cultural/ethnic diversity. Prerequisite: GEOG 101 or 301 or prior permission of the instructor.

332 GEOGRAPHY OF LATIN AMERICA - 4 cr The study of the physical and human geography of the Americas south of the Rio Grande. Emphasizes explanatory description. Prerequisite: Junior standing.

390 EARTH SCIENCE METHODS - 3 cr For Earth Science majors planning to teach middle school, junior or senior high school. Includes the development of curriculum and the organization of teaching materials, techniques, and evaluation. Prerequisite: Twenty hours of Earth Science credits. [Cross-listed GEOL 390]

392 SEMINAR IN HISTORY AND PHILOSOPHY OF GEOGRAPHY - 2 cr The development of geographic thought from early to contemporary time. Prerequisite: Junior standing or prior permission of the instructor.

399 DIRECTED STUDY - Variable cr Individual study concerned with an appropriate problem closely directed by a geography staff member. Science or social studies credits may be earned depending on the nature of the problem undertaken. Maximum of 6 credits may be earned. Prerequisites: Prior permission of the instructor and the department chair.

406 WOMEN AND MEN IN THE CULTURAL LANDSCAPE - 1 cr The created landscape reflects human values and experience. This course examines ways in which women and men create, use, and experience the humanized landscape. We will examine spatial patterns of human activity from a variety of times and places, linking geographic theory to everyday environments. The course will include map work, slide analysis and a field exercise as tools for identifying and interpreting cultural landscapes. [Cross-listed WMST 406]

410 GEOMORPHOLOGY - 5 cr Treats the development of the surface features of the earth by mountain-building, weathering, erosion, and deposition. Prerequisite: GEOG 310 or GEOL 202 or prior permission of the instructor.

411 REGIONAL GEOMORPHOLOGY OF THE UNITED STATES - 4 cr A geomorphic treatment of the major physical divisions of the United States with an emphasis on the western provinces. Prerequisite: GEOG 310 or GEOL 202 or prior permission of the instructor.

414 REGIONAL CLIMATOLOGY - 3 cr Provides a study and analysis of nature, distribution and function of climate controls and elements, and the climate regions of the world. Prerequisite: GEOG 204 or 314 or prior permission of the instructor.

420 APPLIED GEOGRAPHIC STUDIES 2-5 cr Problem formulation and analysis as they apply to geographic studies. Practical use of geographical techniques mainly for student-originated studies. The course may be repeated for different problems. Credits vary, depending on type of study undertaken. Prerequisite: Junior or prior permission of the instructor.

427 CARTOGRAPHY III: COMPUTER CARTOGRAPHY - 5 cr Advanced production of maps and related graphics using computer techniques. Emphasis is placed on the design and creation of thematic maps. Lecture and laboratory. Prerequisite: GEOG 327 or prior permission of the instructor.

428 GEOGRAPHIC INFORMATION SYSTEMS II - 5 cr Advanced course in geographic information systems and their applications. Through detailed examination of conceptual issues and in-depth laboratory work, students develop and implement a project that involves the computer analysis of spatial data. Lecture and laboratory. Prerequisite: GEOG 328.

433 GEOGRAPHY OF MONSOON ASIA - 4 cr A regional study of non-Soviet Asia and adjacent islands, from humid monsoon lands of the Far East to the arid Eastern Mediterranean. Prerequisite: Junior standing.

450 GEOGRAPHY OF TRANSPORTATION - 3 cr The study of the movement of goods, people and information as a tangible expression of interaction between regions and places, combining the basic theory of network analysis with the technological development of transport over space and time. Prerequisite: GEOG 101 or 360 or permission of the instructor.

451 FIELD STUDIES 2-10 cr Extended field study of topics of special geographic interest in the U.S. or foreign areas. The course may be repeated for different problems, variable credit, or by prior permission of the instructor.

458 HISTORICAL GEOGRAPHY OF THE UNITED STATES AND CANADA - 3 cr Relates physical environment and human activity in the settlement and development of the United States and Canada. Prerequisite: Junior standing or prior permission of the instructor.

459 POLITICAL GEOGRAPHY - 3 cr Spatial aspects of political phenomena. Examines the geographical environment as it affects and is affected by political phenomena. Prerequisite: Junior standing or prior permission of the instructor.

465 URBAN GEOGRAPHY - 3 cr Cities as components of central place and related functional systems and the study of cities as spatial systems. Prerequisite: GEOG 250 or ECON 200 or prior permission of the instructor.

470 ARCHITECTURAL LANDSCAPES OF THE U.S. AND CANADA - 3 cr An analysis of the rural and urban built environments of the U.S. and Canada, this course examines the origins and diffusion of public, commercial and residential styles of architecture across the continent. Special emphasis is placed on the relationship between natural environments, building materials, technology, culture and political symbolism. Prerequisite: GEOG 101 or 301 or permission of the instructor.

495 INTERNSHIP - Variable cr

497 WORKSHOP - Variable cr

498 SEMINAR 1-5 cr Advanced group study. Discussion topics selected for each seminar. Prerequisite: 15 credits successfully completed in geography or prior permission of the instructor.

499 DIRECTED STUDY - Variable cr Prerequisites: Prior permission of the instructor and the department chair.



GEOLOGY

Linda B. McCollum, Chair
130 Hall of Sciences
359-2286
MS-70

FACULTY

J. Buchanan, E. Gilmour, J. Hoffman, M. Ikramuddin, E. Kiver, L. McCollum, W. Steele
Adjunct: A. Bookstrom, T. Frost, B. Johnson, T. Miller

PROGRAM DESCRIPTION

Geology is the science of planet Earth. Geologists use elements of chemistry, physics, biology, and mathematics in interpreting the evolution of the earth and its life forms. Applied geology addresses exploitation of earth resources, environmental quality and hazards, and practical understanding of the planet on which we live.

Geology is a field-oriented science, and our curriculum emphasizes field studies. However, geologists increasingly employ advanced chemical and physical analytic techniques and use computers to model natural systems. Facilities at Eastern include specialized laboratories for analytical geochemistry, paleomagnetism, X-ray and microprobe analysis, and scanning electron microscope investigations. Computer capabilities include access to the university mainframes as well as stand-alone systems in the department. Extensive collections of minerals, rocks, and fossils are available for study and research.

Nationwide, approximately half of recent geology graduates are employed in environmental fields while a third go on to graduate school. Most of the rest go into the petroleum industry, teaching, government, or mining. The Geology Department has close relations with geotechnical/environmental consulting firms, government agencies, and mining companies in the Pacific Northwest. These relationships help to place students and graduates in jobs.

Students should decide on a geology major early to ensure timely graduation with the many credits needed in the Bachelor of Science program. For the BS in Geology, students should take the Physics 150 course series, ENGL 205 Introduction to Technical Writing, and GEOG 328 and 428 Geographic Information Systems are desirable. Substitutions of courses in the Geology major must be approved by the department. Interested students should contact the department for guidance as early as possible. Most graduate schools require a full year of calculus.

The Geology program and faculty have been reviewed and approved by the American Institute of Professional Geologists (AIPG).

DEGREE/MAJOR-OPTIONS/MINORS/CERTIFICATION DESCRIPTIONS

Eastern's Geology Department offers undergraduate major programs leading to the Bachelor of Science and Bachelor of Arts degrees. A minor in Geology and endorsements for teacher certification in the Earth Sciences are also offered.

Bachelor of Science (BS)

Major: Geology
Options: Environmental
Geotechnical

The Bachelor of Science program prepares students for careers as professional geologists, and provides the basis for admission to graduate school. Senior students in the BS program are required to take an approved field camp.

The environmental option is designed to prepare students for employment in environmental geology. Students selecting this option should consult the faculty adviser early in their program to select courses suitable for the specific career they wish to pursue. Field camp is recommended but not required for this option.

The Geotechnical option is intended to provide individuals with a background in the expanding field of engineering geology.

Bachelor of Arts (BA)**Major:** Geology

The Bachelor of Arts serves students interested in geology-oriented fields which do not require the full range of professional training. It provides for a dual major in geology and a related field of the student's choice. Employment opportunities include such varied possibilities as park naturalist, environmental consultant, urban and regional planner, or geological technician.

Minor

Geology

ADMISSION REQUIREMENTS/PREPARATION

High school students planning to major in Geology should take two years of algebra, one year of geometry/trigonometry, and one year of chemistry and physics. They are also encouraged to take four years of English. The ability to express ideas and concepts clearly and concisely, both orally and in written form, is fundamental to all sciences.

Entering freshmen and transfer students electing to major in Geology should contact the Department for advising as soon as possible. Failure to do so may result in an additional year to finish the BS program. Especially important for beginning students is early completion of the chemistry sequence.

DEGREE REQUIREMENTS**Grade Requirement:**

- 2.0 in each course
- 2.50 cumulative average

BACHELOR OF ARTS**Major:** Geology—60 credits**Required Courses:** 40 credits

- GEOL 201 Physical Geology (5)
- GEOL 202 Physical Geology (5)
- GEOL 307 Rocks and Minerals (5)
- GEOL 314 Historical Geology (5)

Required Supporting: 20 credits

Select from two or more of the following departments

- Biology
- Chemistry
- Computer Science
- Geography
- Mathematics
- Physics

Electives: 20 credits

Select credits from upper-division Geology courses.

Note: Two years of a single high school foreign language or one year of a single foreign language at college level is required for the above major.

Note: An end of program assessment will be required.

Note: The above major requires the completion of a minor.

BACHELOR OF SCIENCE**Major:** Geology—105 credits**Required Courses:** 99 credits

- GEOL 201 Physical Geology (5)
- GEOL 202 Physical Geology (5)
- GEOL 310 Mineralogy (Crystallography) (4)
- GEOL 311 Mineralogy (Chemical) (4)
- GEOL 314 Historical Geology (5)
- GEOL 315 Petrology (5)
- GEOL 400 Capstone Course (4)
- GEOL 408 Invertebrate Paleontology (4)
- GEOL 411 Stratigraphy (4)
- GEOL 412 Structural Geology (4)
- GEOL 420 Geologic Field Methods (3)
- GEOL 421 Geology Field Camp (12)
- CHEM 151 General Chemistry (5)
- CHEM 152 General Chemistry (5)
- CHEM 153 General Chemistry (5)
- MATH 161 Calculus I (5)
- MATH 162 Calculus II (5)
 - or MATH 380 Elementary Probability and Statistics (5)
- PHYS 151 General Physics I (4)
 - or PHYS 131 Introductory Physics I (4)
- PHYS 152 General Physics II (4)
 - or PHYS 132 Introductory Physics II (4)
- PHYS 153 General Physics III (4)
 - or PHYS 133 Introductory Physics III (4)
- PHYS 161 Mechanics Lab (1)
- PHYS 162 Heat and Optics Lab (1)
- PHYS 163 Instrumentation Lab I (1)

Electives: 6 credits

Select credits from upper-division Geology courses.

Note: GEOL 307 and GEOL 308 may not be used to fulfill the upper-division electives for the BS degree in Geology.

Note: An end of program assessment will be required.

Note: The above major does not require the completion of a minor.

Major: Geology**Option:** Environmental—107 - 117 credits**Required Courses:** 48-51 credits

- GEOL 201 Physical Geology (5)
 - GEOL 202 Physical Geology (5)
 - GEOL 310 Mineralogy (Crystallography) (4)
 - GEOL 311 Mineralogy (Chemical) (4)
 - GEOL 314 Historical Geology (5)
 - GEOL 315 Petrology (5)
- Select 5 from the following: 20-24 credits
- GEOL 220 Environmental Geology (4)
 - GEOL 360 Geologic Hazards (4)
 - GEOL 411 Stratigraphy (4)
 - GEOL 412 Structural Geology (4)
 - GEOL 462 Principles of Geochemistry (5)
 - GEOL 463 Environmental Geochemistry (5)
 - GEOL 465 Analysis of Metals in Environmental Samples (5)
 - GEOL 470 Hydrogeology (4)
 - GEOL 486 Introduction to Geophysics (5)
 - GEOL 487 Groundwater Geophysics (4)

Required Supporting Courses: 59-65 credits

- CHEM 151 General Chemistry (5)
 - CHEM 152 General Chemistry (5)
 - CHEM 153 General Chemistry (5)
 - MATH 161 Calculus I (5)
 - MATH 162 Calculus II (5)
 - MATH 163 Calculus III (5)
- Select 1 additional year of Biology, Chemistry, Mathematics or Physics in consultation with the Geology Department (9-15)
- Select 20 credits from the following departments, in consultation with the Geology Department: Biology, Chemistry, Engineering, Geography, Geology, Mathematics, Physics.

Note: An end of program assessment will be required.

Note: The above major does not require the completion of a minor.

Major: Geology**Option:** Geotechnical—114 credits**Required Courses:** 90 credits

- GEOL 201 Physical Geology (5)
- GEOL 202 Physical Geology (5)
- GEOL 307 Rocks and Minerals (5)
- GEOL 314 Historical Geology (5)
- GEOL 411 Stratigraphy (4)
 - or GEOL 412 Structural Geology (4)
- CHEM 151 General Chemistry (5)
- CHEM 152 General Chemistry (5)
- CHEM 153 General Chemistry (5)
- ENGR 110 Engineering Graphics (5)
- MATH 161 Calculus I (5)
- MATH 162 Calculus II (5)
- MATH 163 Calculus III (5)
 - or MATH 380 Elementary Probability and Statistics (5)
- PHYS 151 General Physics I (4)
- PHYS 152 General Physics II (4)
- PHYS 153 General Physics III (4)
- PHYS 161 Mechanics Lab (1)
- PHYS 163 Instrumentation Lab I (1)
- PHYS 162 Heat and Optics Lab (1)
- TECH 317 Computer-Aided Drafting (4)
- TECH 340 Statics (4)
 - or ENGR 240 Statics (4)
- TECH 341 Strength of Materials (4)
 - or ENGR 241 Strength of Materials (4)
- TECH 382 Fluid Dynamics (4)

Electives: 24 credits

Choose at least one from geography, two from geology, and one from Technology. Substitutions may be approved by the department.

- GEOG 312 Fundamentals of Soil Science (4)
- GEOG 328 Geographic Information Systems I (5)
- GEOG 428 Geographic Information Systems II (5)
- GEOL 408 Invertebrate Paleontology (4)
- GEOL 411 Stratigraphy (4)
 - or GEOL 412 Structural Geology (4)
- GEOL 462 Principles of Geochemistry (5)
- GEOL 463 Environmental Geochemistry (5)
- GEOL 465 Analysis of Metals in Environmental Samples (5)
- GEOL 470 Hydrogeology (4)
- GEOL 486 Introduction to Geophysics (5)
- GEOL 487 Groundwater Geophysics (4)

GEOL 495 Practicum (1-5) May not be substituted for one of the courses on this list.

TECH 403 Computer-Aided Design (4)
TECH 467 Desktop Publishing (4)

Note: An end of program assessment will be required.

Note: The above major requires the completion of a minor.

Minors

Minor: Geology—30 credits

Required Courses: 15 credits

GEOL 201 Physical Geology (5)

GEOL 202 Physical Geology (5)

GEOL 314 Historical Geology (5)

Electives: 15 credits

Select 200-, 300-, or 400-level courses in Geology.

COURSE DESCRIPTIONS

Geology (GEOL)

100 DISCOVERING GEOLOGY - 5 cr This course explores the interactions between human beings and their geological environment. The earth is a dynamic planet affected by sudden, violent events such as volcanic eruptions, earthquakes and floods, as well as by slower processes operating over long time spans that create, move, and destroy continents and oceans. Other topics include study of energy, mineral and water resources and their importance to modern society. Topics are presented at a level intended for nonscience majors. Satisfies lab science requirement at most universities. (Satisfies the GECR for Natural Sciences, Geology.)

201 PHYSICAL GEOLOGY - 5 cr Introduction to physical geology for majors and others especially interested in geology. Emphasis on the interior of the earth, earthquakes, volcanoes, geologic time and geologic structures. Laboratory exercises and field trips. (Satisfies the GECR for Natural Sciences, Geology.) Prerequisite: Math clearance.

202 PHYSICAL GEOLOGY - 5 cr A continuation of GEOL 201. Emphasis on landforms, erosion, deposition and hazards produced by water, wind, ice and gravity. Local geology, fossil fuels, and other topics are covered in lecture, laboratory and on required field trips. (The completion of GEOL 201 and 202 satisfies the GECR for Natural Sciences, Geology; counts as two courses.) Prerequisite: GEOL 201 or prior permission of the instructor.

205 GEOLOGY OF THE NATIONAL PARKS - 5 cr Geological methods, concepts, materials, and processes illustrated through examples found in national parks in the United States. Rock formation, landform evolution, plate tectonics, physical, and climatological changes through geologic time are examined. Field trip or alternate assignment; laboratory and term paper required. Fee assessed. (Satisfies the GECR for Natural Sciences, Geology.)

220 ENVIRONMENTAL GEOLOGY - 4 cr Relationship of human activities with earth materials and processes. Water quality, atmospheric composition, waste disposal, natural resources, the importance of an interdisciplinary approach to environmental problems. Field trips emphasize local environmental problems. Laboratory. Prerequisite: GEOL 100 or BIOL 100 or CHEM 100 or prior permission of the instructor.

252 CAVES - 2 cr A survey of the cave environment with emphasis on its geologic development. Field trip to local cave required.

297 WORKSHOPS, SHORT COURSES, CONFERENCES - Variable cr At a lower division level.

299 SPECIAL STUDIES 1-5 cr Topics vary with interest of student and instructor. Prerequisite: Prior permission of the instructor.

307 ROCKS AND MINERALS - 5 cr Survey of the common rocks and minerals in the earth's crust, and their uses. Stresses identification methods. Laboratory exercises and field trip. (Does not satisfy elective requirements for the BS Degree in Geology.) Prerequisite: Junior or senior standing.

308 LIFE IN THE GEOLOGIC PAST - 5 cr Study of the origin and development of life through geologic time based on fossils. (Does not satisfy elective requirements for the BS Degree in Geology.) Prerequisite: Junior or senior standing.

310 MINERALOGY (CRYSTALLOGRAPHY) - 4 cr Determination of minerals and other crystalline compounds by crystallographic and optical methods. Theory of geometric crystallography and optical mineralogy and crystal chemistry. Emphasis on silicate minerals. Prerequisites: CHEM 151, 152, MATH 106.

311 MINERALOGY (CHEMICAL) - 4 cr Classification and determination of minerals by physical, chemical, and optical properties and geologic occurrence. Emphasis on non-silicate ore and rock-forming minerals. Prerequisites: GEOL 310, CHEM 151, 152.

314 HISTORICAL GEOLOGY - 5 cr Geologic development of the earth and evolution of life. Emphasis on methods used in geologic interpretation. Field trips and laboratory exercises. Prerequisite: GEOL 201 or prior permission of the instructor.

315 PETROLOGY - 5 cr An intermediate level study of the classification, description, and origin of igneous, metamorphic and sedimentary rocks.

Field trips and laboratory exercises. Prerequisite: GEOL 311.

338 DISCOVERING WOMEN IN SCIENCE - 1 cr The course uses several scientific themes to rediscover from the past, and find in contemporary research, the women who have made significant contributions to science. [Cross-listed BIOL 338, CHEM 338, HIST 338, PHYS 338, PSYC 338, WMST 338]

360 GEOLOGIC HAZARDS - 4 cr Introduction to geologic hazards affecting humankind; emphasis on earthquakes, volcanism, floods, landslides and groundwater pollution. Applications to geological site engineering and city/regional planning. Prerequisite: Junior standing.

390 EARTH SCIENCE METHODS - 3 cr For Earth Science majors planning to teach middle school, junior or senior high school. Includes the development of curriculum and the organization of teaching materials, techniques, and evaluation. [Cross-listed GEOG 390]

397 WORKSHOPS, SHORT COURSES, CONFERENCES - Variable cr

400 CAPSTONE COURSE - 4 cr A synthesis of present geological knowledge. An integration of information from all fields of geology with a special emphasis on results from geophysics and geochemistry. Applications of computer databases will be required. Prerequisites: Senior class standing, MATH 161, PHYS 153 or 133, CHEM 153 and prior permission of the Undergraduate Adviser.

408 INVERTEBRATE PALEONTOLOGY - 4 cr Principles of paleontology including methods of description and analyses of invertebrate fossils. Emphasis on principles of morphology and evolutionary development of invertebrates and the use of invertebrate fossils in biostratigraphy and paleoecology. Laboratory. Prerequisites: GEOL 202, 314, or prior permission of the instructor.

411 STRATIGRAPHY - 4 cr Interrelationships of depositional environment, tectonic controls, facies, and correlation. Use of regional sedimentation patterns in the interpretation of paleogeography, paleogeology, and paleoecology. Lecture and laboratory. Prerequisite: GEOL 314, 315 or 307, or prior permission of the instructor.

412 STRUCTURAL GEOLOGY - 4 cr Analysis of structure and deformation in the continental crust. Geometric description and interpretation of geologic structures. Mechanics of rock deformation: pure and simple shear; brittle and plastic deformation. Use of joints, faults, folds, and shear zones as kinematic indicators. Lecture and laboratory. Prerequisites: GEOL 310, 314, PHYS 131 or 151, and MATH 161 or prior permission of the instructor.

420 GEOLOGIC FIELD METHODS - 3 cr Introduction to surveying and geologic mapping on aerial photographs and topographic maps with emphasis on field exercises. Prerequisite: GEOL 412 or prior permission of the instructor.

421 GEOLOGY FIELD CAMP - 12 cr Application of geologic principles to the solution of field problems. Study includes geologic mapping, stratigraphic section measuring, and field trips into surrounding areas. Formal report of the field study is required. Prerequisites: GEOL 315, 408, 412, 420, or prior permission of the instructor.

442 PETROLEUM GEOLOGY - 4 cr Character, distribution, origin, and recovery of petroleum. Prerequisite: GEOL 314 or prior permission of the instructor.

451 CASCADE VOLCANOES FIELD TRIP - 2 cr A seven-day field study of selected Cascade volcanoes including their geologic development, eruption history, glacial geology, and geologic hazards. Fall quarter only, usually visits Mount St. Helens and Mount Rainier. Prerequisites: GEOL 202 or 305, GEOG 310 or 410, or prior permission of the instructor. Course fee required.

455 COLORADO PLATEAU GEOLOGY - 2 cr A week-long field study of the rocks and landforms of the Colorado Plateau region, specifically in Arches and Canyonlands National Parks. Geologic evolution and structural geology of the region will be discussed and the ancient sedimentary environments of deposition will be emphasized. Field trip held during the week of spring break. Prerequisite: GEOL 100 or 305 or permission of the instructor. Course fee required.

462 PRINCIPLES OF GEOCHEMISTRY - 5 cr Abundance of elements in the solar system. Origin, chemical evolution, and composition of the earth; distribution and migration of chemical elements; differentiation history of the earth into crust, mantle and core. Origin and evolution of the hydrosphere and atmosphere. Chemical processes involved in weathering of rocks, chemical sedimentation and diagenesis. Prerequisites: GEOL 310, 311, 315, or prior permission of the instructor.

463 ENVIRONMENTAL GEOCHEMISTRY - 5 cr Application of principles of geochemistry to environmental problems, including air and water pollution, water-rock interactions, weathering and soil formation. Origin, distribution and transport of inorganic contaminants in air, water, soils, sediments and plants. The behavior of trace elements in near surface environments. Prerequisites: Senior standing, GEOL 310, 311 or permission of the instructor.

465 ANALYSIS OF METALS IN ENVIRONMENTAL SAMPLES - 5 cr Practical application of flame, graphite furnace and cold vapor atomic absorption, inductively coupled argon plasma emission spectrometry and inductively coupled plasma mass spectrometry for analysis of major and trace elements in water, waste water, soils, sediments, solid wastes and biological samples. Emphasis on the Environmental Protection Agency's methods for the determination of metals in environmental samples, including quality

assurance and quality control procedures. Prerequisites: Senior standing, CHEM 151, 152, 153 or permission of the instructor.

470 HYDROGEOLOGY - 4 cr Relationship between groundwater and geologic materials, emphasizing quantitative analysis and principles governing groundwater flow. Lab. Prerequisites: GEOL 201 or 202, equivalent of one year of calculus, or prior permission of the instructor.

486 INTRODUCTION TO GEOPHYSICS - 5 cr Elementary discussion of the theory of physical geodesy, gravity, and gravity anomalies, seismology and the earth's interior, geomagnetism, the paleomagnetic method and its application to geology, and the principles of radiometric dating. Laboratory sessions devoted to the application of mathematics to solving geophysical problems. Prerequisites: MATH 161, PHYS 131, 132, 133, or prior permission of the instructor.

487 GROUNDWATER GEOPHYSICS - 4 cr Use of geophysical techniques for locating shallow water tables. Emphasizes refraction seismic, electrical resistivity, and frequency domain electromagnetic techniques. Some demonstration of the application of total field magnetic and microgravity methods to environmental problems. Prerequisites: Senior standing, MATH 161, PHYS 153 or 133, GEOL 201, 202, 314, or prior permission of the instructor.

490 SENIOR THESIS - 1 cr Directed research on a geological problem and organization of the results for oral and written presentation. Prerequisite: Upper division standing and prior permission of the instructor. May be repeated up to a maximum of three credits. Student must complete three quarters of Senior Thesis for Honors in Geology upon graduation.

495 PRACTICUM 1-5 cr Participation in supervised experiences involving acquisition of data or applications of knowledge to help solve geologic problems. Credits earned in this course are not applicable to degree requirements. Prerequisite: Prior permission of the department chair.

497 WORKSHOPS, SHORT COURSES, CONFERENCES - Variable cr

498 SEMINARS - Variable cr

499 DIRECTED STUDY 1-5 cr Seminar in a selected field of geology to suit a student's need. May be repeated for a total of 15 credits if a different study is undertaken each time. Prerequisite: Prior permission of the instructor.

GERMAN

See MODERN LANGUAGES AND LITERATURES.

GOVERNMENT

Niel T. Zimmerman, Chair
208 H Patterson Hall
359-2362, 359-2411
MS-30

FACULTY

D. Bell, K. Finegold, E. Gohlert, S. Mahoney, K. Quincy, J. Schuster, E. Swift, J. Wallace, N. Zimmerman

PROGRAM DESCRIPTION

The Department of Government offers courses focusing largely on the study of Political Science, a liberal arts discipline which seeks to understand the political condition and potential of humanity. Each of the department's five degree programs is designed to provide the student with the wide knowledge of political phenomena suitable to a liberal arts degree. Thus each, regardless of its specific content, requires courses in political philosophy, in American political institutions and processes, and in comparative and/or international politics. In addition, the three pre-professional programs are designed to prepare the student for particular vocational goals.

Although the discipline of Political Science - and therefore the program of the Department of Government - is committed to a liberal arts orientation, employment opportunities for graduates are varied. A number of those who graduate each year continue their studies in law or other professional programs, particularly Public Administration. A similar number find employment in the public sector, or with private domestic or international business concerns. Opportunities also exist in the realm of party politics - campaign organizations, with the military forces, or with the communications media. The department maintains a current file of available employment opportunities and stands ready to assist graduates in the obtaining of suitable employment.

In addition to providing required or elective courses for students in such diverse disciplines as Radio-Television and Urban and Regional Planning, the department maintains particularly close relations with the programs in Criminal Justice and in the International Affairs Program. In each, selected Government courses are required parts of the core curriculum. Department faculty are also active in teaching courses in the Graduate Program in Public Administration.

Internship and Work-Study Programs for Students

The department maintains a dynamic internship program which provides practical experience with local political and governmental agencies and annually sponsors a Winter Quarter in Olympia in which selected students intern with the Washington State Legislature. When possible, it is strongly urged that students in one of the three pre-professional programs include an internship as a part of their program. During Fall and Winter quarters of election years, students may participate in an on-going program of data gathering and evaluation of political attitudes and voting behavior in Spokane County.

In addition to external internships, students may gain practical experience through a combination of work/study and internship with a particular faculty member. Students qualifying for such programs assist the professor to whom they are assigned with research work in an area of the faculty member's interest. The department has an active faculty with diverse research interests—for example, the Hmong, Soviet military, non-governmental organizations and development, the transition to democracy in Thailand and Korea, the First Amendment, public health policy, jurisprudence, and criminal law, etc. Department members have produced books and monographs, presented papers at conventions of national and regional Political Science associations and of other, more specialized, scholarly organizations, and completed research grants funded by agencies of the government. The opportunity to assist in such work is of value particularly to those students planning to continue their studies or to work in the public sector in areas necessitating faculty guidance in research techniques.

Pi Sigma Alpha

In the Spring of 1982, the Nu Gamma Chapter of Pi Sigma Alpha, the National Political Science Honorary Society, was chartered at Eastern. This student organization serves as a vehicle for recognition of outstanding academic achievement in Government and complements the department's participation in the University Honors Program. Pi Sigma Alpha sponsors a number of social and intellectual programs for students and faculty, and with its help the department attempts to maintain contact with its graduates and to make available to students their experiences and insights into the value of an education in Government.

DEGREE/MAJOR-OPTIONS/MINORS/CERTIFICATION DESCRIPTIONS

Bachelor of Arts (BA)

Major: Government—45/65 credits
Options: Domestic Public Administration
International Public Administration
Pre-Law

The 45-credit major is designed for the student with a relatively casual interest in the political realm who wishes to combine such interest with study of another major or minor field. The 65-credit major is designed for those with a more concentrated interest in Government who do not wish to complete a structured minor or who may be interested in graduate study in Political Science. The three remaining options seek to prepare the student for careers in domestic or international public service, in those aspects of the private sector requiring systematic knowledge of the political, or for the study of law. The specific requirements for each degree option are listed below.

In no case may a single course be used to satisfy requirements for two components of a particular major program. Thus, for example, a student taking either GOVT 313 or GOVT 314 as a part of the core requirement must satisfy the field requirement in political philosophy by taking an additional course from those listed for the particular program.

Minors

Government
Government/Secondary

Certification

Endorsements Associated with Baccalaureate Majors and Minors:
Government/Secondary (BAE) minor satisfies the Supporting Endorsement: 4-12.

Endorsement Add-On: Government, 4-12; Social Science Education, 4-12.
Students are encouraged to see Social Science Education in this section of the catalog.

ADMISSION REQUIREMENTS/PREPARATION

Successful completion of ENGL 100 or its equivalent is required of all majors in Government; successful completion of a 200-level English course is strongly recommended for all majors in Government. Course offerings at the 300-400 level are designed to provide maximum flexibility for faculty and students. Consequently, formal prerequisites are not generally practical; however, students taking a 400-level course as a part of the major requirement are reminded that they must have completed a 300-level course in the same area.

DEGREE REQUIREMENTS**BACHELOR OF ARTS****■ Major: Government—45 credits**

Required Courses: 35 credits

GOVT 100 Modern Government in American Context (5)

GOVT 203 Introduction to Comparative Politics (5)

or GOVT 204 Introduction to International Politics (5)

GOVT 313 Classical Political Thought (5)

or GOVT 314 Modern Political Thought (5)

GOVT 336 Political Parties and Elections (5)

Select at least one 300-level offering from the listed courses in each of the following concentrations: 15 credits

American Political Institutions and Processes: 5 credits

GOVT 301 The Supreme Court and Public Policy (5)

GOVT 307 The Constitutional System (5)

GOVT 310 Administrative Politics in the U.S. (5)

GOVT 311 Introduction to American Public Management (5)

GOVT 330 American Local Government and Politics (5)

GOVT 331 American Federal System and State Politics (5)

GOVT 335 American Legislative Politics (5)

Political Philosophy: 5 credits

GOVT 315 Theoretical Problems of Modern Politics (5)

GOVT 316 The Foundations of Political Society (5)

GOVT 317 American Political Thought (5)

Comparative and International Politics: 5 credits

GOVT 320 The International System (5)

GOVT 321 International Organization (5)

GOVT 323 American Foreign Policy (5)

GOVT 325 Introduction to Soviet Politics (5)

GOVT 326 Politics of Western Europe (5)

GOVT 327 Politics of the Developing Nations (5)

GOVT 328 Politics of the People's Republic of China (5)

Electives: 10 credits

The student's program may be completed by taking one 400-level Topics course (or Honors Seminar) chosen from an area in which a cognate 300 level course has been completed, and any other 300 or 400-level 5-credit course numbered 495 or below.

Note: Two years of a single high school foreign language or one year of a single foreign language at college level is required for the above major.

Note: The above major requires the completion of a minor.

■ Major: Government—65 credits

Required Courses: 45 credits

GOVT 100 Modern Government in American Context (5)

GOVT 203 Introduction to Comparative Politics (5)

GOVT 204 Introduction to International Politics (5)

GOVT 313 Classical Political Thought (5)

or GOVT 314 Modern Political Thought (5)

GOVT 336 Political Parties and Elections (5)

Select one or more courses from each of the following concentrations: 20 credits

American Political Institutions and Processes: 5 credits

GOVT 301 The Supreme Court and Public Policy (5)

GOVT 307 The Constitutional System (5)

GOVT 310 Administrative Politics in the United States (5)

GOVT 311 Introduction to American Public Management (5)

GOVT 317 American Political Thought (5)

GOVT 330 American Local Government and Politics (5)

GOVT 331 American Federal System and State Politics (5)

GOVT 335 American Legislative Politics (5)

Political Philosophy: 5 credits

GOVT 313 Classical Political Thought (5)

GOVT 314 Modern Political Thought (5)

GOVT 315 Theoretical Problems of Modern Politics (5)

GOVT 316 The Foundations of Political Society (5)

GOVT 317 American Political Thought (5)

International Politics: 5 credits

GOVT 320 The International System (5)

GOVT 321 International Organization (5)

GOVT 323 American Foreign Policy (5)

Comparative Politics: 5 credits

GOVT 325 Introduction to Soviet Politics (5)

GOVT 326 Politics of Western Europe (5)

GOVT 327 Politics of the Developing Nations (5)

GOVT 328 Politics of the People's Republic of China (5)

Electives: 20 credits

Select two different 400-level Topics courses (or one Topics course and the Honors Seminar) chosen from areas in which cognate 300-level courses have been completed, plus an additional 10 credits at the 300 or 400 level.

Note: Two years of a single high school foreign language or one year of a single foreign language at college level is required for the above major.

Note: The above major does not require the completion of a minor.

Major: Government

● Option: Domestic Public Administration—85 credits

Required Courses: 75 credits

GOVT 100 Modern Government in American Context (5)

GOVT 203 Introduction to Comparative Politics (5)

or GOVT 204 Introduction to International Politics (5)

GOVT 304 Equality, Discrimination, and the Law (5)

or GOVT 307 The Constitutional System (5)

GOVT 310 Administrative Politics in the United States (5)

GOVT 311 Introduction to American Public Management (5)

GOVT 313 Classical Political Thought (5)

or GOVT 314 Modern Political Thought (5)

GOVT 330 American Local Government and Politics (5)

GOVT 331 American Federal System and State Politics (5)

GOVT 335 American Legislative Politics (5)

or GOVT 336 Political Parties and Elections (5)

Select one or more courses from each of the following concentrations: 15 credits

Political Philosophy: 5 credits

GOVT 315 Theoretical Problems of Modern Politics (5)

GOVT 316 The Foundations of Political Society (5)

GOVT 317 American Political Thought (5)

GOVT 320 The International System (5)

International Politics: 5 credits

GOVT 320 The International System (5)

GOVT 321 International Organization (5)

GOVT 322 Comparative Foreign Policy (5)

GOVT 323 American Foreign Policy (5)

GOVT 324 Multi-National Corporations: Social and Political Costs in the International System (5)

Comparative Politics: 5 credits

GOVT 325 Introduction to Soviet Politics (5)

GOVT 326 Politics of Western Europe (5)

GOVT 327 Politics of the Developing Nations (5)

GOVT 328 Politics of the People's Republic of China (5)

Select courses in consultation with the departmental adviser, normally including one course in each of the following concentrations: 15 credits

Economics, for example:

ECON 200 Introduction to Microeconomics (5)

ECON 201 Introduction to Macroeconomics (5)

English, for example:

ENGL 201 Principles of Effective Thinking and Writing (5)

ENGL 205 Introduction to Technical Writing (5)

Philosophy, for example:

PHIL 320 History of Ancient Western Philosophy (5)

PHIL 321 History of Modern Western Philosophy (5)

PHIL 322 History of Contemporary Western Philosophy (5)

Electives: 10 credits

Select two 400-level Topics courses (or Honors Seminar) chosen from areas in which a cognate 300-level course has been completed, or one such course and any other 300- or 400-level five-credit course.

Note: Two years of a single high school foreign language or one year of a single foreign language at college level is required for the above major.

Note: The above major does not require the completion of a minor.

Major: Government

● Option: International Public Administration—95 credits

Required Courses: 85 credits

GOVT 100 Modern Government in American Context (5)

GOVT 203 Introduction to Comparative Politics (5)

or GOVT 204 Introduction to International Politics (5)

GOVT 310 Administrative Politics in the United States (5)

GOVT 311 Introduction to American Public Management (5)

GOVT 313 Classical Political Thought (5)

or GOVT 314 Modern Political Thought (5)

GOVT 320 The International System (5)

or GOVT 321 International Organization (5)

GOVT 323 American Foreign Policy (5)

GOVT 324 Multi-National Corporations: Social and Political Costs in the International System (5)

GOVT 336 Political Parties and Elections (5)

Select one or more from each of the following concentrations: 15 credits

American Political Institutions and Processes: 5 credits

- GOVT 301 The Supreme Court and Public Policy (5)
- GOVT 307 The Constitutional System (5)
- GOVT 330 American Local Government and Politics (5)
- GOVT 331 American Federal System and State Politics (5)
- GOVT 335 American Legislative Politics (5)

Political Philosophy: 5 credits

- GOVT 315 Theoretical Problems of Modern Politics (5)
- GOVT 316 The Foundations of Political Society (5)

Comparative Politics: 5 credits

- GOVT 325 Introduction to Soviet Politics (5)
- GOVT 326 Politics of Western Europe (5)
- GOVT 327 Politics of the Developing Nations (5)
- GOVT 328 Politics of the People's Republic of China (5)

Select courses in consultation with a departmental adviser, normally including one course in each of the two concentrations and 15 credits in one foreign language: 25 credits

Economics, for example:

- ECON 200 Introduction to Microeconomics (5)
- ECON 201 Introduction to Macroeconomics (5)

English, for example:

- ENGL 201 Principles of Effective Thinking and Writing (5)
- ENGL 205 Introduction to Technical Writing (5)

Foreign Language:

- 15 credits of a single foreign language

Electives: 10 credits

Select two 400-level Topics courses (or Honors Seminar) chosen from areas in which a cognate 300-level course has been completed, or one such course and any other 300- or 400-level 5 credit course.

Note: Two years of a single high school foreign language or one year of a single foreign language at college level is required for the above major.

Note: The above major does not require the completion of a minor.

Major: Government

● **Option:** Pre-Law—89 - 90 credits

Required Courses: 79-80 credits

- GOVT 100 Modern Government in American Context (5)
- GOVT 203 Introduction to Comparative Politics (5)
 - or GOVT 204 Introduction to International Politics (5)
- GOVT 300 Law and the Legal Process (5)
- GOVT 301 The Supreme Court and Public Policy (5)
 - or GOVT 307 The Constitutional System (5)
- GOVT 302 Criminal Procedure (5)
- GOVT 303 The First Amendment (5)
 - or GOVT 304 Equality, Discrimination and the Law (5)
- GOVT 305 Jurisprudence (5)
 - or GOVT 306 Basic Concepts of Criminal Law (5)
- GOVT 313 Classical Political Thought (5)
 - or GOVT 314 Modern Political Thought (5)

Select one or more courses from each of the following concentrations: 20 credits

American Political Institutions and Processes: 5 credits

- GOVT 330 American Local Government and Politics (5)
- GOVT 331 American Federal System and State Politics (5)
- GOVT 335 American Legislative Politics (5)
- GOVT 336 Political Parties and Elections (5)

Political Philosophy: 5 credits

- GOVT 305 Jurisprudence (5)
- GOVT 315 Theoretical Problems of Modern Politics (5)
- GOVT 316 The Foundations of Political Society (5)
- GOVT 317 American Political Thought (5)

International Politics: 5 credits

- GOVT 320 The International System (5)
- GOVT 321 International Organization (5)
- GOVT 323 American Foreign Policy (5)
- GOVT 324 Multi-National Corporations: Social and Political Costs in the International System (5)

Comparative Politics: 5 credits

- GOVT 325 Introduction to Soviet Politics (5)
- GOVT 326 Politics of Western Europe (5)
- GOVT 327 Politics of the Developing Nations (5)
- GOVT 328 Politics of the People's Republic of China (5)

Select courses in consultation with a departmental adviser, normally including one course in each of the following concentrations: 19-20 credits

Accounting, for example:

- ACCT 251 Principles of Financial Accounting (5)
- ACCT 454 Federal Income Tax I (4)

Economics, for example:

- ECON 200 Introduction to Microeconomics (5)
- ECON 201 Introduction to Macroeconomics (5)

English, for example:

- ENGL 201 Principles of Effective Thinking and Writing (5)

ENGL 205 Introduction to Technical Writing (5)

Philosophy, for example:

- PHIL 320 History of Ancient Western Philosophy (5)
- PHIL 321 History of Modern Western Philosophy (5)
- PHIL 322 History of Contemporary Western Philosophy (5)

Electives: 10 credits

Select two 400-level Topics courses (or Honors Seminar) chosen from an area in which a cognate level 300 course has been completed, or one such course or seminar and any other 300- or 400-level 5-credit course.

Note: Two years of a single high school foreign language or one year of a single foreign language at college level is required for the above major.

Note: The above major does not require the completion of a minor.

Minors

Minor: Government—15 credits

Required Courses: 15 credits

- GOVT 100 Modern Government in American Context (5)
- GOVT 203 Introduction to Comparative Politics (5)
 - or GOVT 204 Introduction to International Politics (5)
- Select one course from the 300-400 level below 495 (5 credits)

Minor: Government/Secondary—25 credits

Required Courses: 25 credits

- GOVT 100 Modern Government in American Context (5)
- GOVT 203 Introduction to Comparative Politics (5)
 - or GOVT 204 Introduction to International Politics (5)
- GOVT 307 The Constitutional System (5)
- GOVT 308 The American Polity (5)
- GOVT 330 American Local Government and Politics (5)

Course Requirements for Teacher Certification/Add-On Endorsement(s) Government/Social Science Education: 4-12/25 credits

(For students who currently possess Washington state's Initial Teaching Certificate)

- GOVT 100 Modern Government in American Context (5)
- GOVT 203 Introduction to Comparative Politics (5)
 - or GOVT 204 Introduction to International Politics (5)
- GOVT 307 The Constitutional System (5)
- GOVT 308 The American Polity (5)
- GOVT 330 American Local Government and Politics (5)

COURSE DESCRIPTIONS

Government (GOVT)

100 MODERN GOVERNMENT IN AMERICAN CONTEXT - 5 cr A general introduction to the concepts, methods, and concerns involved in the study of Government, this course discusses fundamental ideas such as power, ideology, and constitutionalism; the citizen role in democratic politics; the structure and processes of major governmental institutions; and selected areas of policy making. Emphasizes the comparison of the American political system with that of other major, chiefly democratic, systems. (Satisfies the GEQR for Social Sciences, List 1, Economics and Government.)

203 INTRODUCTION TO COMPARATIVE POLITICS - 5 cr An introduction to concepts, such as state, power, ideology, and political phenomena, emphasizing similarities and differences in selected political systems. (Satisfies International Studies Graduation Requirement.)

204 INTRODUCTION TO INTERNATIONAL POLITICS - 5 cr A basic introduction to the nature of politics in the international arena, with special attention to the instruments of national power, diplomacy, international law, and the role of various international organizations and alliance systems. (Satisfies International Studies Graduation Requirement.)

205 THE STUDY OF LAW - 5 cr An introduction to the study of law emphasizing familiarity with the common law system, the development of skills in case and statutory analysis, the fundamentals of legal research and writing, and an introduction to the law school admission test. Intended for the student of any major who is thinking of going to law school. No prerequisites.

299 SPECIAL STUDIES 1-5 cr Subjects studied vary according to faculty and student interest.

300 LAW AND THE LEGAL PROCESS - 5 cr A survey of the role of law in society and processes by which disputes and ultimately public policy questions are settled through legal-judicial processes. This includes examination of judicial processes from the trial court level through the Supreme Court of the United States.

301 THE SUPREME COURT AND PUBLIC POLICY - 5 cr An examination of the functions, operations, and impact of the Supreme Court on American politics with emphasis on the processes of decision-making and on the court's relationships to the governmental structure.

302 CRIMINAL PROCEDURE - 5 cr An examination of the philosophic and legal bases for the protection of the rights of the criminally accused, with emphasis on Supreme Court decisions on the 4th, 5th, and 6th amendments

- and on the due process clause of the 14th amendment. Prerequisite: GOVT 300.
- 303 THE FIRST AMENDMENT - 5 cr** An examination of the philosophic and legal bases for the protection of the rights of free speech, press, assembly, and association, and the prohibition of the "establishment of religion" and of interference with freedom of religion as contained in the First Amendment to the Constitution, with emphasis on Supreme Court decisions bearing on these problems.
- 304 EQUALITY, DISCRIMINATION AND THE LAW - 5 cr** An investigation of the legal problems surrounding claims by various groups for equal treatment. The course emphasizes the problems of racial, economic, sexual, political, and religious discrimination.
- 305 JURISPRUDENCE - 5 cr** An examination of the fundamental concepts of law such as the nature of the legal order, the concept of rules, the idea of legal justice, and the nature of legal reasoning.
- 306 BASIC CONCEPTS OF CRIMINAL LAW - 5 cr** A survey of the basic concepts and content of the American substantive criminal law, including consideration of the purposes of the criminal law, the basic concepts utilized to define criminal offenses, defenses to criminal charges, and examination of selected substantive offenses; e.g., assault, homicide, larceny.
- 307 THE CONSTITUTIONAL SYSTEM - 5 cr** An examination, through the study of decisions of the United States Supreme Court, of the principal structural features of the American governmental system - particularly separation of powers and federalism, and of the development of the powers of the national government and its legislative, executive, and judicial branches in the light of the powers retained by the states.
- 308 THE AMERICAN POLITY - 5 cr** The study of a political system as a polity looks at the functioning of political institutions in their social and historical context. All modern states have governments which are thought to be necessary to the functioning of their societies, but the differences in the way those governments actually function often illustrate important differences in the societies they serve.
- 310 ADMINISTRATIVE POLITICS IN THE UNITED STATES - 5 cr** A survey of administrative politics in the United States, emphasis on the growth of the chief executive office (president, governor, mayor) in American politics; executive-legislative, executive bureau relations; and the role of the bureaucracy in our pluralist political system.
- 311 INTRODUCTION TO AMERICAN PUBLIC MANAGEMENT - 5 cr** A survey of the application of rational management methods to American government, with emphasis on the political theories underlying the use of rational management techniques in the United States, the interplay between political reform and the development of modern management science, and the conflicts between managerial and political values in the American governmental system.
- 313 CLASSICAL POLITICAL THOUGHT - 5 cr** This course acquaints students with the political ideas of the classical world as found in the writings of Plato, Aristotle, St. Augustine, Cicero, and Machiavelli.
- 314 MODERN POLITICAL THOUGHT - 5 cr** An examination of the contribution to our understanding of political life of the major political philosophers from Machiavelli to Marx.
- 315 THEORETICAL PROBLEMS OF MODERN POLITICS - 5 cr** Identification and analysis of a number of conceptual and evaluative issues. Some of the most salient are: the proper role of a citizen in the modern nation state; the nature of democracy and totalitarianism; the characteristics and appropriate limits of political power; the nature of the good society; and the question of revolution.
- 316 THE FOUNDATIONS OF POLITICAL SOCIETY - 5 cr** The general purposes served by the very existence of government may be grouped under three headings: maintenance of the social order, enforcement of moral conventions, and construction of institutions for coping with the environment. The complex relationships which subsist between various options which a society may choose are the subject of this course.
- 317 AMERICAN POLITICAL THOUGHT - 5 cr** A critical examination of the interplay of ideas and action in the American tradition. Examines questions such as authority, democracy, community, individualism, constitutionalism, and political economy through the writings of selected theorists and publicists.
- 320 THE INTERNATIONAL SYSTEM - 5 cr** An analysis of change and its direction in international politics. Assesses the historical past and explores future possibilities. Evaluates alternative theories of international behavior. Examines special problems such as nuclear armaments, coercion, diplomacy and morality in international politics.
- 321 INTERNATIONAL ORGANIZATION - 5 cr** A study of the purposes, structures, and approaches of international organizations within the world community. Focuses primarily on the United Nations system, its significance from the standpoint of global, national, and individual perspectives. (Satisfies International Studies Graduation Requirement.)
- 323 AMERICAN FOREIGN POLICY - 5 cr** An analysis of important cases in American foreign policy formulation since WW II. Emphasizes bureaucratic factors that shape foreign policy decisions.
- 324 MULTI-NATIONAL CORPORATIONS: SOCIAL AND POLITICAL COSTS IN THE INTERNATIONAL SYSTEM - 5 cr** Analysis of the structure and function of multinational corporations as actors in the international arena. Primary attention is given to questions of the logic and ideology of multinationalism, the shared culture of multinationals, their comparative social and economic impact, and the implications for international political order.
- 325 INTRODUCTION TO SOVIET POLITICS - 5 cr** A survey of Soviet political thought, governing institutions, and policy-making processes. Special attention is given to Marxist-Leninist ideology, the role of the Communist Party and mechanism of stability and change in the Soviet system.
- 326 POLITICS OF WESTERN EUROPE - 5 cr** An in-depth study of political life in Great Britain, France, and West Germany, with emphasis on the origins and contemporary practices of parliamentary democracy in Europe. (The course is taught from a comparative perspective with two main purposes in mind: to convey an important body of knowledge and to stimulate thought and discussion on the diversity of democratic government. The American experience with political democracy serves as a constant reference point for lectures and discussions.) (Satisfies International Studies Graduation Requirement.)
- 327 POLITICS OF THE DEVELOPING NATIONS - 5 cr** An analysis of the problems of political development in the developing nations emphasizing the dilemmas of political development in traditional and transitional societies with special reference to nation-building, economic development and social change; ideologies and political development; and elites, parties, military and bureaucracies.
- 328 POLITICS OF THE PEOPLE'S REPUBLIC OF CHINA - 5 cr** An examination of Chinese political institutions and their functions with emphasis on the political culture, party apparatus, military and leadership. Additional reference is made to the process of political socialization and recruitment.
- 329 SURVEY OF PACIFIC RIM: ASIA - 5 cr** An introduction to the dynamics of the diverse and independent Asian Pacific Rim Nations. Specific attention will be drawn to the dynamics of change, development strategies, regional and international trade, military and security relationships, political elites and the political process. (Satisfies International Studies Graduation Requirement.) Prerequisite: ENGL 201.
- 330 AMERICAN LOCAL GOVERNMENT AND POLITICS - 5 cr** Survey of local government in the United States with special emphasis on public policy formation and its political consequences.
- 331 AMERICAN FEDERAL SYSTEM AND STATE POLITICS - 5 cr** A survey of the background and operation of the American federal system, emphasizing the governments of the states and localities.
- 335 AMERICAN LEGISLATIVE POLITICS - 5 cr** An analysis and evaluation of the concept of representation, the structure and process of conventional representative institutions, and the relationships between these institutions and contemporary policy-making centers. The analysis considers the relationship between representation, policy and legitimate authority.
- 336 POLITICAL PARTIES AND ELECTIONS - 5 cr** An analysis and evaluation of political party systems with a focus on the party system as a channel for political participation and choice as a means of institutionalizing social conflict and as an agent providing leadership and direction for political change.
- 339 POLITICAL FIELD RESEARCH 1-5 cr** A project-oriented seminar emphasizing the gathering, processing, and analysis of primary research data. Techniques used, e.g., survey research, content analysis, voting analysis, explanatory modeling, etc., vary with the selection of a particular seminar project.
- 350 CONTEMPORARY POLITICAL PROBLEMS 1-5 cr** A topical course designed to accommodate the interest of the general student and the department faculty. Topics vary from quarter to quarter and are listed in the Announcement of Courses. Recent offerings include Citizen and the Law, and Pacific Rim. Analysis of contemporary problems may be under the guidance of one or more department members.
- 351 REASON IN PUBLIC POLICY - 4 cr** Policies are said to be means to ends, but where the policy is public, the question is whether policy can mirror the ends of the whole society or just some part of it. Selected political debates illustrate ideological, interest and "scientifically neutral" ways in which policies are justified in the name of the public.
- 397 WORKSHOP IN GOVERNMENT 1-5 cr** Specialized offerings in a workshop-type situation of materials emphasizing current topics and problems in the political arena.
- 400 TOPICS IN AMERICAN POLITICS - 5 cr** An intensive examination of selected questions in the arena of American political institutions, processes, and public policy. Topics vary from quarter to quarter and include executive reorganization, congressional reform, politics and the press, post-partisan politics and various policy impact studies that cover the values of individual choice and problems of political economy.
- 401 TOPICS IN POLITICAL THEORY - 5 cr** Each of the topics chosen for this course explores in some depth the fundamental relationship between such common political phenomena as obligation, consent, freedom, law, authority, etc. The course is structured so that even when the particular topic is quite narrow, its development touches on the major nodes in the web of relationships these phenomena have with one another.
- 402 TOPICS IN INTERNATIONAL RELATIONS AND COMPARATIVE POLITICS - 5 cr** Selected topics, depending on student and faculty research interests, including international law, international organization, problems

of the international political system, comparative political analysis, causes of political change and political stability, modernization and political development, causes and results of revolutions, and the impact of social forces on the political system.

403 HONORS IN GOVERNMENT - 5 cr Preferably upper-division standing and major in government. Topics to vary according to instructor's and students' interest. Invitation of the instructor only.

495 PUBLIC AFFAIRS INTERNSHIP 1-5 cr Guided field experience designed to acquaint you with the formation and instrumentation of public policy; involves actual work with a political party, interest group, legislative body, or administrative agency. Prerequisites: Prior permission of the instructor and the department chair.

498 SEMINAR 1-5 cr An in-depth analysis of particular political phenomena, with emphasis on student research. Usually offered on an interdisciplinary basis in cooperation with other departments offering similar courses.

499 DIRECTED STUDY 1-5 cr Projects in selected fields of government. Prerequisite: Prior permission of the instructor.

HEALTH EDUCATION

See PHYSICAL EDUCATION, HEALTH AND RECREATION.

HEALTH SERVICES ADMINISTRATION

Roe A. Roberts, Coordinator
358-2250
MS-3

FACULTY

R. Fisher, R. Roberts, J. Whiteley

PROGRAM DESCRIPTION

The Health Services Administration Program is offered by the College of Health, Social and Public Services. The program is designed for students interested in a variety of careers in the field of health services administration. Positions in this field include administration of long term care facilities, health maintenance organizations, mental health agencies, health insurance companies, home health agencies, health departments, academic medical centers, various regulatory agencies, and community-based agencies among others. Responsibilities carried out by health administrators include: budgeting/financial management, planning, human resource management, marketing and public relations, general and departmental administration.

The majority of required courses come from health administration. In addition, the program requires that the student complete an option in a specific sub-specialty such as private sector, government, or aging among others. The culmination of the student's experience in the program will be either an internship at a health facility or the completion of a senior project. The internship is designed to be completed over a ten week period with a total of twenty hours a week spent on site. The student maintains a log of her activities and writes a final paper exploring the application of theory to the practical day-to-day workings of the field. To qualify for the internship the student must have at least a 3.00 plus permission from the department. Those students who do not complete an internship must sign up for the senior project. This is a research orientated class intended to allow the student to strengthen their knowledge of some aspect of the field.

Students in the Health Services Administration Program must have a cumulative GPA of 2.25 and not less than a 2.0 in any given course. Also, students must complete one year of a foreign language such as Spanish or sign language.

Upon acceptance to the program students must complete at least 85-87 credit hours. Students choosing to minor in health services must complete 24-26 credit hours.

DEGREE/MAJOR-OPTIONS/MINORS/CERTIFICATION DESCRIPTIONS

Bachelor of Arts (BA)

Major: Health Services Administration
Options: Aging
Private Sector
Public Sector

Minor

Health Services Administration

DEGREE REQUIREMENTS

BACHELOR OF ARTS

Major: Health Services Administration

● **Option:** Aging—85 - 87 credits
(ADDITIONAL OPTION AREAS ARE POSSIBLE AFTER CONSULTATION WITH AN ADVISER.)

Required Courses: 75-77 credits

AOMG 302 Business Communications (4)
DSCI 245 Data Analysis for Business (5)
or DSCI 303 Applications of Statistics I (4)
HLED 256 Medical Terminology (3)
HSAD 300 Health Care Organization and Administration (4)
HSAD 310 Health Services Management (4)
HSAD 320 Health Care Organization Behavior and Development (4)
HSAD 410 Health Law and Bioethics (4)
HSAD 415 Health Economics (5)
HSAD 420 Financing Health Care (4)
HSAD 430 Advanced Seminar in Health Services Administration (4)
HSAD 440 Health Planning and Research (5)
HSAD 450 Community and Environmental Health Management (5)
HSAD 490 Senior Project (5)
or HSAD 495 Internship (4-5)
HUMR 328 Personnel Management (4)
MISC 311 Information Technology in Business (4)
MISC 312 Management Informations Systems (4)
MKTG 310 Principles of Marketing (4)
SOC1 479 Medical Sociology (5)

Electives: 10 credits (Choose from among the courses listed below)

AGST 310 Multidisciplinary Studies in Aging (5)
AGST 410 Minority Perspectives in Aging (3)
BIOL 343 Biology of Aging (3)
HSAD 460 Long Term Care Administration (4)
PSYC 432 Clinical Psychology of Adult Life and Aging (4)

Note: Two years of a single high school foreign language or one year of a single foreign language at college level is required for the above major.

Note: The above major does not require the completion of a minor.

Major: Health Services Administration

● **Option:** Private Sector—85 - 87 credits
(ADDITIONAL OPTION AREAS ARE POSSIBLE AFTER CONSULTATION WITH AN ADVISER.)

Required Courses: 75-77 credits

AOMG 302 Business Communications (4)
DSCI 245 Data Analysis for Business (5)
or DSCI 303 Applications of Statistics I (4)
HLED 256 Medical Terminology (3)
HSAD 300 Health Care Organization and Administration (4)
HSAD 310 Health Services Management (4)
HSAD 320 Health Care Organization Behavior and Development (4)
HSAD 410 Health Law and Bioethics (4)
HSAD 415 Health Economics (5)
HSAD 420 Financing Health Care (4)
HSAD 430 Advanced Seminar in Health Services Administration (4)
HSAD 440 Health Planning and Research (5)
HSAD 450 Community and Environmental Health Management (5)
HSAD 490 Senior Project (5)
or HSAD 495 Internship (4-5)
HUMR 328 Personnel Management (4)
MISC 311 Information Technology in Business (4)
MISC 312 Management Informations Systems (4)
MKTG 310 Principles of Marketing (4)
SOC1 479 Medical Sociology (5)

Electives: 10 credits (Choose from among the courses listed below)

ACCT 261 Business Law (4)
AOMG 329 Administrative Office Management (4)
FINC 335 Financial Management (4)
or OPSM 330 Operations Management (4)
MGMT 326 Organization Theory and Behavior (4)

Note: Two years of a single high school foreign language or one year of a single foreign language at college level is required for the above major.

Note: The above major does not require the completion of a minor.

Major: Health Services Administration

● **Option:** Public Sector—85 - 87 credits
(ADDITIONAL OPTION AREAS ARE POSSIBLE AFTER CONSULTATION WITH AN ADVISER.)

Required Courses: 75-77 credits

AOMG 302 Business Communications (4)
DSCI 245 Data Analysis for Business (5)
or DSCI 303 Applications of Statistics I (4)

- HLED 256 Medical Terminology (3)
- HSAD 300 Health Care Organization and Administration (4)
- HSAD 310 Health Services Management (4)
- HSAD 320 Health Care Organization Behavior and Development (4)
- HSAD 410 Health Law and Bioethics (4)
- HSAD 415 Health Economics (5)
- HSAD 420 Financing Health Care (4)
- HSAD 430 Advanced Seminar in Health Services Administration (4)
- HSAD 440 Health Planning and Research (5)
- HSAD 450 Community and Environmental Health Management (5)
- HSAD 490 Senior Project (5)
 - or HSAD 495 Internship (4-5)
- HUMR 328 Personnel Management (4)
- MISC 311 Information Technology in Business (4)
- MISC 312 Management Informations Systems (4)
- MKTG 310 Principles of Marketing (4)
- SOCI 479 Medical Sociology (5)
- Electives:** 10 credits (Choose from among the courses listed below)
 - GOVT 100 Modern Government in American Context (5)
 - GOVT 203 Introduction to Comparative Politics (5)
 - GOVT 311 Introduction to American Public Management (5)

Note: Two years of a single high school foreign language or one year of a single foreign language at college level is required for the above major.
Note: The above major does not require the completion of a minor.

Minor

- Minor:** Health Services Administration—24 - 26 credits
- Required Courses:** 16 credits
 - HSAD 300 Health Care Organization and Administration (4)
 - HSAD 310 Health Services Management (4)
 - HSAD 320 Health Care Organization Behavior and Development (4)
 - HSAD 410 Health Law and Bioethics (4)
- Electives:** 8-10 credits (Select two of the following courses.)
 - HSAD 415 Health Economics (4)
 - HSAD 420 Financing Health Care (4)
 - HSAD 440 Health Planning and Research (5)
 - HSAD 450 Public and Environmental Health Management (5)
 - HSAD 460 Long Term Care Administration (4)

- 420 FINANCING HEALTH CARE - 4 cr** A systematic look at how the health care industry is reimbursed, including: Private insurance, Medicare, Medicaid, managed care organizations, public and private initiatives. Prerequisites: HSAD 300, 415, ACCT 251, 252.
- 430 ADVANCED SEMINAR IN HEALTH SERVICES ADMINISTRATION - 4 cr** This course will allow students to demonstrate their ability to integrate knowledge obtained in previous required courses in making managerial decisions. The case study method will be utilized. Prerequisites: HSAD 300, 310, 320, 410, 415, 420, 440, 450.
- 440 HEALTH PLANNING AND RESEARCH - 5 cr** The primary objective of this course is to provide the student with research skills applicable to understanding of policy development and its application to health planning. The course represents an introduction to planning and evaluation methods currently used in health services administration. The health care system of a nation is often an outgrowth of its governmental policies and the planning which results as these policies are implemented. Prerequisites: DSCI 245 or 303, HSAD 300.
- 450 COMMUNITY AND ENVIRONMENTAL HEALTH MANAGEMENT - 5 cr** This course is intended to introduce the student to community health management with specific emphasis on the environmental sector. To achieve this end, the course will present an overview of community health and its history. It will further examine how demographics, epidemiology, and environmental factors impact and are impacted by, community health management. Prerequisites: DSCI 245 or 303, HSAD 300.
- 460 LONG TERM CARE ADMINISTRATION - 4 cr** The administration issues of care for long term patients will be addressed with specific discussion on the aged, and primary and extended care of the age. The peculiar social, cultural, and economic environment will be discussed as each is related to accessibility and availability of health services and the aspects of administration in long term care facilities. Prerequisites: HSAD 300.
- 490 SENIOR PROJECT - 5 cr** With the assistance of the instructor, students will complete a project based on original or library research related to a particular problem or issue in the field of Health Administration. Students will share the results of their research and assist each other in developing important information retrieval techniques and other research related competencies. Prerequisites: HSAD 300, 310, 320, 410, 415, 420, 440, 450 and permission of the instructor.
- 499 DIRECTED STUDY 3-5 cr** Individual study in a field of special interest. Prerequisites: Prior permission of the instructor and the department chair.

COURSE DESCRIPTIONS
Health Services Administration (HSAD)

Other course descriptions listed under the participating programs and departments: Accounting, Biology, Chemistry and Biochemistry, Economics, Government, Management (Finance, Management, and Marketing), and Management Information Systems.

300 HEALTH CARE ORGANIZATION AND ADMINISTRATION - 4 cr This is a survey course that looks at the multitude of health care entities (public and private), how they interact, and the issues that are in today's complex health care environment. Prerequisite: Admission to major or consent of instructor.

310 HEALTH SERVICES MANAGEMENT - 4 cr Topics covered include: tasks, education, roles, and values of health services managers in various settings; control, organization, design, professional integration, adaptation, and accountability. Case analysis method will be emphasized. Prerequisites: HSAD 300, admission to major or consent of instructor.

320 HEALTH CARE ORGANIZATION BEHAVIOR AND DEVELOPMENT - 4 cr Developing an understanding of organizational behavior concepts as they apply to health care organizations. Comparing entrepreneurial health services organization behavior with traditional nonprofit health organization behavior. Analysis of the behavior of the major players in health care organizations. Prerequisite: HSAD 300.

399 SPECIAL STUDIES - Variable cr Subjects vary according to faculty and student interest and need. Prerequisites: Prior permission of the instructor and the department chair.

410 HEALTH LAW AND BIOETHICS - 4 cr This course is an introduction to the specifics of health related legislation and programs, and their legal and ethical implications for providers and consumers of health care. The legal principles and issues for medical caseworkers, along with liability of health care facilities and staff for injuries to patients and abuses to patients' rights by the health care system will be examined. Topic areas also include malpractice suits and legislation, collection of bills, informed consent of patients to medical and surgical procedures. Prerequisite: HSAD 300.

415 HEALTH ECONOMICS - 4 cr Topics include consumer behavior, determinants of demand for health services, production theory, the role of competition and regulation in the health care industry, health risks and their economic impact, insurance and alternative financial mechanisms, cost-benefit analysis of health programs, theories of health care inflation. Prerequisites: HSAD 300, ECON 200.