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Eastern Washington State College general catalog, 1972-1973

Eastern Washington State College

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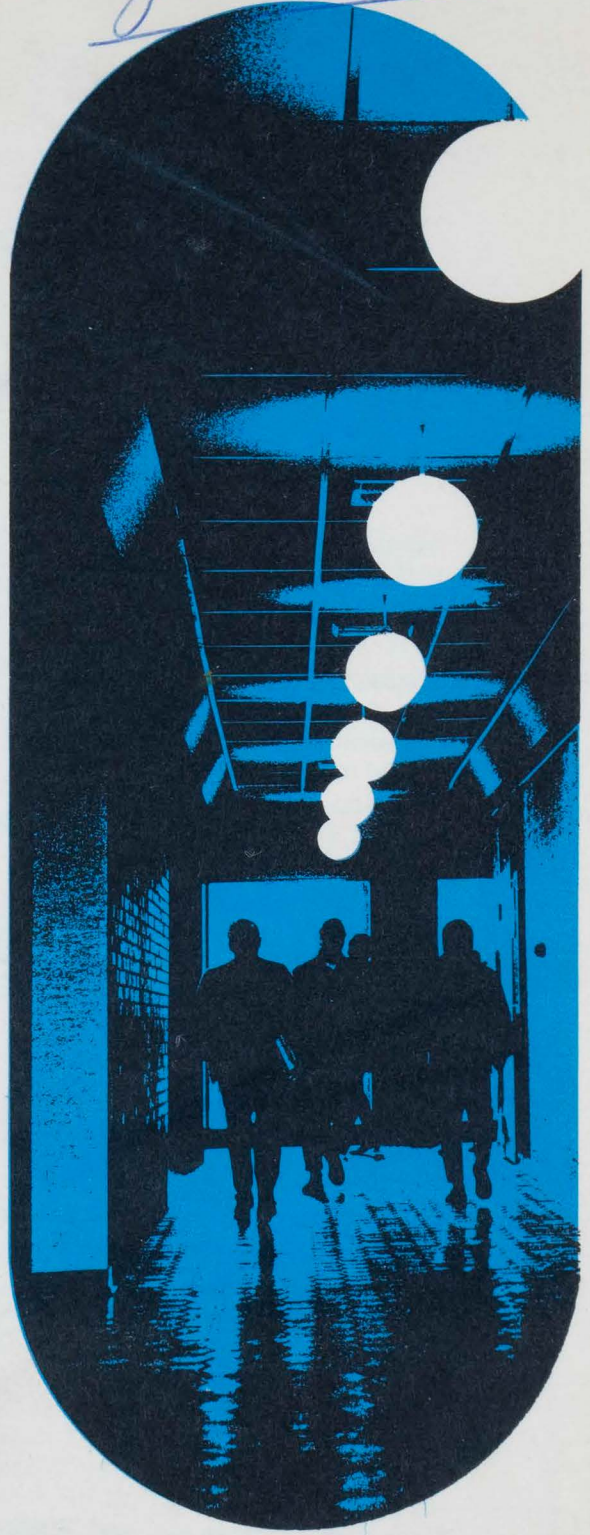
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José Alonso

ESWC Bulletin

CATALOG ISSUE
MARCH 1972



EASTERN WASHINGTON STATE COLLEGE • CHENEY, WASHINGTON

DILL JAMES '67

CORRESPONDENCE DIRECTORY

Officers of the College will be pleased to answer your questions. For prompt attention, address your inquiries in specific areas as follows:

For information concerning:

Admissions and Transfer of Credits
Alumni, Speakers Bureau
Black Studies
Business Services
Certification
Community Development
Dental Hygiene Program
Extension-Correspondence Courses
General Information
Graduate Study
Health Sciences
Housing, Student
Human Development Center
Indian Education Program
Placement
Public Information (News Media)
Registration—Grades
Scholarship and Student Aid
Speech and Hearing Clinic
Student Activities
Student Services
Summer Session
Teacher Education
Urban and Regional Planning

Address:

Director of Admissions
Office of the President
Dean of Undergraduate Studies
Bureau of Business Services
Certification Officer
Director, Center for Community Development
Director, Dental Hygiene Program
Dean of Continuing Education
Office of the President
Dean of Graduate Study
Executive Coordinator, Health Sciences
Housing Manager
Director, Human Development Center
Director of Indian Education Program
Director of Placement
Director of Public Information
Registrar
Director of Financial Aid
Director of Speech and Hearing Clinic
Director of Student Activities
Vice President for Student Services
Dean of Continuing Education
Executive Coordinator, Teacher Education
Director, Center for Urban and Regional Planning

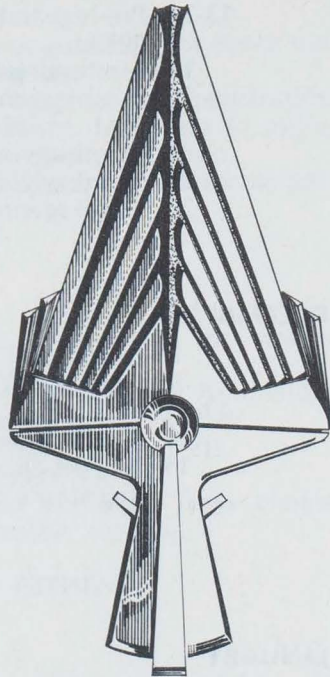
EASTERN WASHINGTON STATE COLLEGE

Cheney, Washington 99004
Telephone: 235-6221 (Area 509)
From Spokane, Phone 838-5271 (no toll)

1972/73

general catalog

**EASTERN
WASHINGTON
STATE
COLLEGE
BULLETIN**



NOTICE

Regulations of the College, even if in conflict with or changed from information in this Catalog, will govern. The College reserves the right to initiate changes in any of its regulations affecting the operation of the College. Such changes shall become effective after satisfying statutory requirements and conditions whenever the proper officials may determine and shall apply to both current and future operations.

**1972-73 General Catalog, Cheney, Washington 99004
March 1972
Eastern Washington State College Bulletin
Volume 68, Number 2**

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Table of Contents

CORRESPONDENCE DIRECTORY	Inside Front Cover
COLLEGE CALENDAR	2
GENERAL INFORMATION	3
The College	4
Admission Information	5
Registration	6
Expenses and Fees	8
STUDENT LIFE AND WELFARE	10
Services, Activities	10
Health Program	10
Financial Aid	11
Student Housing	11
EDUCATIONAL FACILITIES AND SERVICES	11
Library	12
Instructional Media Center	13
Human Development Center	14
Speech & Hearing Clinic	14
Dental Hygiene Clinic	14
CONTINUING EDUCATION	15
Summer Session	15
Community College Programs	15
Continuing Studies	15
ACADEMIC PROCEDURES	16
Credit by Examination	16
Credit/No Credit Program	17
Pre-Professional Programs	18
Grading System	18
Honors Program	19
Clearances	19
Academic Standards	19
CURRICULA OUTLINED	19
General Education Requirements	21
Specific Requirements for Bachelor of Arts Degree	21
Specific Requirements for B.A. in Education Degree	24
Teaching Certification	24
Specific Requirements for Bachelor of Science Degree	24
Graduate Study Program	25
Foreign Study	26
General Studies	26
Black Studies	26
Indian Education Program	26
Course Numbering	27
Key to Prerequisites	27
DEPARTMENTAL DESCRIPTIONS	29
Area Studies	32
Art	33
Biology	35
Business	35
Business Administration	36
Accounting & Quantitative Analysis	37
Management	38
Business Education	42
Chemistry	43
Community College Program	44
Dental Hygiene	44
Drama	45
Economics	48
Education	52
Library Science	53
English	56
Humanities	57
Journalism	59
Philosophy	59
Foreign Languages	61
French	62
General Foreign Languages	63
German	64
Russian	65
Spanish	68
Geography	70
Geology	71
Health Education	74
History	77
Home Economics	80
Industrial Education & Technology	82
Mathematics	82
Computer Science	84
Military Science	87
Music	88
Nursing	91
Physical Education	92
Recreation & Park Administration	93
Physics	94
Natural Sciences	94
Planning	94
Political Science	97
Psychology	100
Radio-TV	102
Social Science Education	102
Sociology	102
Anthropology	103
Social Work	104
Sociology	105
Speech & Speech Correction	109
DIRECTORY OF PERSONNEL	109
Board of Trustees	109
Council on Higher Education	109
Administration	109
Faculty	118
Emeriti	118
Academic Deans	118
Academic Programs & Services	118
Professional Library Staff	118
Support Staff	120
College Councils & Committees	122
Advisory Councils	126
INDEX	126
CAMPUS GUIDE	Inside Back Cover

CALENDAR 1972-73							SEPTEMBER													
							S	M	T	W	T	F	S	1	2					
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							10	11	12	13	14	15	16							
							17	18	19	20	21	22	23							
							24	25	26	27	28	29	30							
OCTOBER							NOVEMBER							DECEMBER						
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15	16	17	18	19	20	21	12	13	14	15	16	17	18	10	11	12	13	14	15	16
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29	30	31					26	27	28	29	30			24	25	26	27	28	29	30
														31						
JANUARY							FEBRUARY							MARCH						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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28	29	30	31				25	26	27	28			25	26	27	28	29	30	31	
APRIL							MAY							JUNE						
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29	30						27	28	29	30	31			24	25	26	27	28	29	30

CALENDAR 1972-73

SUMMER QUARTER

JUNE

1972

- 16 Graduate Exams: Area Tests
- 17 Graduate Record Examinations
- 20 Instruction begins. (Obtain Summer Quarter Schedule from Dean of Continuing Education)
- 20 Last date to apply for Fall 1972 graduation.

FALL QUARTER

SEPTEMBER

- 21 New Faculty Orientation.
- 22 All Faculty Orientation and planning session.
- 24 Residence halls open.
- 25 Advising for those not registered earlier.
- 26 Field House registration for those not pre-registered.
- 27 Classes begin. Late registration penalty in effect. Last date to apply for Winter 1973 graduation.
- 27 Deadline for Professional Admissions applications to be turned in.
- 27 Math Clearance Test.
- 28,29,Oct. 2 Dates reserved for schedule changes.

OCTOBER

- 3 Last day to register for Fall Quarter.
- 23 Veterans Day — No classes.
- 25 Last date to withdraw from classes without possible penalty.

NOVEMBER

- 2 Interviews for Admission to Professional Education Program.
- 13-22 Pre-registration for Winter Quarter 1973.
- 13 Master degree thesis certification due.
- 18 Washington Pre-College Test — 8:15 A.M. to 4:00 P.M.
- 22 Thanksgiving recess begins 5:00 P.M.
- 23-24 Thanksgiving Day holidays.
- 27 Thanksgiving recess ends 8:00 A.M.

DECEMBER

- 8 Graduate Exams: Area Tests.
- 9 Graduate Record Exams.
- 11-15 Final Examinations.
- 15 Commencement, Quarter ends.
- 18 All Fall Quarter grades are due in the Registrar's office by 9:00 A.M.

WINTER QUARTER

JANUARY

1973

- 2 Field House registration for those not registered earlier.
- 3 Instruction begins late registration penalty in effect. Last date to apply for Spring Quarter 1973 graduation.
- 4, 5, 8 Dates reserved for schedule changes.
- 9 Last date to register for Winter Quarter.
- 10 Deadline for Professional Admissions Applications to be submitted.
- 17 Math Clearance Test.
- 31 Last date to withdraw from classes without possible penalty.

FEBRUARY

- 3 Washington Pre-College Test — 8:15 A.M. to 4:00 P.M.
- 12-21 Pre-registration for Spring Quarter 1973.
- 15 Interviews for Admission to Professional Education Program.
- 19 Washington's Birthday — No classes.
- 20 Masters degree thesis certification due.
- 23 Graduate Exams: Area Tests.

MARCH

- 12-16 Final examination week.
- 16 Commencement, Quarter ends.
- 19 All Winter Quarter grades due in the Registrar's office by 9:00 A.M.

SPRING QUARTER

MARCH

- 26 Field House registration for those not registered earlier.
- 27 Instruction begins, late registration penalty in effect. Last date to apply for Summer 1973 graduation.
- 28, 29 30 Dates reserved for schedule changes.

APRIL

- 2 Last date to register for Spring Quarter.
- 4 Deadline for Professional Admissions applications to be submitted.
- 14 Graduate Exams: Area Tests.
- 18 Math Clearance Test.
- 24 Last date to withdraw from classes without possible penalty.

MAY

- 10 Interviews for admission to Professional Education Program.
- 14 Masters thesis certification due.
- 28 Memorial Day holiday.

JUNE

- 4-8 Final examination week.
- 8 Commencement exercises, quarter ends after commencement.
- 9 Washington Pre-College Tests — 8:15 A.M. to 4:00 P.M.
- 11 All Spring Quarter grades are due in the Registrar's office by 9:00 A.M.
- 15 Graduate Exams: Area Tests.
- 16 Graduate Record Exams.

SUMMER QUARTER

JUNE

- 19 Summer Quarter classes begin. (Obtain Summer Quarter schedule from Dean of Special Programs). Last date to apply for Fall 1973 graduation.

GENERAL INFORMATION

Eastern Washington State College is one of six four-year public institutions of higher education in the state. It is located at Cheney, Washington, 16 miles southwest of Spokane. It provides a liberal arts, general education program with majors in 52 areas.

History of the College

With roots reaching back to pre-statehood days, Eastern Washington State College is the oldest of the four-year state colleges, but forward-looking leadership in course offerings, facilities and philosophy has kept it in the forefront of service to students and the community.

Eastern's roots extend back to Benjamin P. Cheney Academy which opened its doors April 3, 1882.

In 1890, the trustees of the academy donated the building and eight acres of land to the state for the training of teachers. The State Normal School at Cheney first started classes October 13, 1890.

After 47 years as the Cheney State Normal School, the name was changed to Eastern Washington College of Education in 1937. The legislature approved, in 1961, the name Eastern Washington State College.

Objectives

The objectives of the College are to "aid students in becoming informed, responsible and appreciative members of democratic society who will, through an aroused and disciplined curiosity, continue their education throughout their lives."

Functions of the College

A multi-purpose, co-educational institution, Eastern Washington State College sees its role in education as fulfilling the following five functions:

1. Liberal education in the arts and sciences leading to the Bachelor of Arts or Bachelor of Science degree.
2. Teacher education for elementary and secondary teachers leading to the Bachelor of Arts in Education degree.
3. Graduate work leading to the Master of Arts or Master of Science degree with majors in selected areas.
4. Graduate work in education for teachers, school administrators, and other school specialists leading to state certification and the Master of Education degree.
5. Pre-professional studies for students interested in graduate work in certain professional schools.

Accreditation of the College

Eastern Washington State College is accredited by the Northwest Association of Secondary and Higher Schools, the National Council for the Accreditation of Teacher Education, and the Washington State Board of Education. The Northwest Association has approved the qualifications of the faculty, the adequacy of facilities, and competence of the administration for the teaching of the liberal arts and teacher education. The Washington State Board of Education has fully approved Eastern's program of teacher education. The College is also accredited by the Association for Physical and Mental Rehabilitation and the National Association of Schools of Music.

This College is approved by the United States At-

torney General as an institution for non-quota immigrant students. It is also on the approved list of the American Association of University Women. The College has institutional membership in various national associations. State laws empower the College to grant the degrees of Bachelor of Arts, Bachelor of Arts in Education, Bachelor of Science, Master of Education, Master of Arts and Master of Science.

Non-Discrimination Policy

It is the policy of Eastern Washington State College that no discrimination on the grounds of race, color, religion, sex, age or national origin will exist in any area of the College.

The College's policy states that EWSC has both a moral and a legal responsibility to eliminate discrimination among students and on all employment levels. Making Eastern an enjoyable place to work and attend college is also a priority goal.

In more formal terms, this policy includes, but is not limited to, the requirements of Federal Executive Orders 11246 and 11375, as amended, and applicable laws adopted by the Legislature of the State of Washington.

ADMISSION TO THE COLLEGE

How to Apply

The procedure for applying for admission is as follows:

1. A student who has graduated from high school and who has never enrolled at an institution of higher education will make application on a "Uniform Application for Admission to Four-Year Colleges and Universities in the State of Washington" form. These forms are available at all high schools in the state; they may also be obtained by writing to the Admissions Office at Eastern Washington State College.

The student will complete Section 1 of the application and have his high school complete Section 2. The high school will forward the completed application to the Admissions Office at Eastern.

2. A student transferring to Eastern from another college or university should apply using the "Uniform Application for Admission to Four-Year Colleges and Universities in the State of Washington;" Section 1.

The student will complete this form and return it to the Admissions Office. The student will also request the registrar of each college or university previously attended to forward directly to the Admissions Office at Eastern a complete official transcript of all work done at that institution. Transcripts coming directly from the student are not acceptable as official documents.

Academic Requirements for Admission

1. Resident High School Graduates. Any Washington resident who has graduated from an accredited high school will be considered for admission. Applications will be accepted and processed after December 1st of the senior year. Applicants who are granted admission on the basis of six semesters' work must file proof of graduation before their admission is final.

For fall quarter, the Admissions Office admits a maximum number of the best qualified applicants. The exact number of new students to be admitted is deter-

mined after a careful study of available space and operating funds.

Washington State residents with high school grade point averages of 2.50 or higher or who rank in the upper half of their graduating class are eligible for admission. Resident candidates with grade point averages of less than 2.50 or a lower class rank will be considered on an individual basis using all available evidence that might predict their success in college work.

Students not eligible for fall quarter admission may seek admission for one of the other quarters—winter, spring, or summer. These applications will be considered on an individual basis.

2. Non-Resident High School Graduates. Non-residents who have graduated from an accredited high school will be granted admission when their high school transcripts show that they have a cumulative grade point average of 2.75 or better.

3. Selected Non-High School Graduates may be admitted provided they have had educational experiences which are deemed to be equivalent to a high school education.

4. Transfers from other colleges or universities. Transfer students will normally be granted admission if they have a cumulative grade point average of 2.00 or better at a regionally accredited college. Applicants who have earned fewer than 16 quarter credits at another college must request their high school to send an official transcript to the EWSC Office of Admissions. Such applicants will be considered on the basis of both their high school and college work.

A transfer student whose transcript from the last college or university he attended indicates he was dropped for low scholarship will not be considered for admission to Eastern unless a year or more has elapsed since attending said college.

For students transferring to Eastern Washington State College or transferring from EWSC to another college, the standard formula for figuring credit hours from a quarter to a semester basis, or vice versa, follows: Semester hours times $1\frac{1}{2}$ equals quarter hours. Quarter hours times $\frac{2}{3}$ equals semester hours.

5. Special Students. A special student is one enrolled for not more than six quarter credits. Such a student may not necessarily be required to file his high school or college transcripts unless he plans to obtain a degree or certificate from EWSC. Special students must reapply for each term they wish to attend.

A special student is subject to the same rules and regulations as a regular student unless otherwise stated.

6. Foreign Students. Applicants from foreign countries are required to submit a complete official transcript from each secondary school and college formerly attended. In order to be considered for admission to EWSC the applicant must have the equivalent of a high school education.

In addition, foreign applicants are required to submit scores from the TOEFL (English proficiency test) before any action may be taken on their applications. No other measure of English proficiency is acceptable unless the applicant is personally interviewed and found proficient.

Foreign students are required to fill out and file in the Admissions Office an application for admission and a

Statement of Finance form. These forms are obtained from the Admissions Office of this college. It takes approximately six months to process application papers from a foreign student.

The final decision regarding the acceptance of any foreign student will rest with the Director of Admissions of this college.

GENERAL ADMISSION POLICIES

1. Students applying for admission must have the application and all transcripts on file with the Admissions Office at least two weeks prior to the first day of registration. Failure to comply with this rule may result in denial of admission to the College. Students will be notified of their admission status as soon as possible after all application papers and transcripts are received by the Admissions Office.

2. Students transferring from a two-year college will be governed by the following rule. The last half of a baccalaureate degree program (at least 90 quarter credits) must be taken in a baccalaureate degree-granting institution with the 45 credits of the senior year completed as a matriculated student at Eastern Washington State College.

Once 90 quarter credits have been accumulated at a 2-year or 4-year institution or a combination thereof, any additional credits earned at a 2-year college will not be accepted toward meeting the 180 minimum required for the baccalaureate degree unless special circumstances, as determined by the Academic Appeals Board, justify individual consideration.

3. Records and applications for admitted students who do not enroll are kept on file for one year. After this time, the papers are destroyed.

4. Transcripts, records, or other documents that have been filed at this College become the property of the College and may not be released.

5. Prepayment of Fall Quarter Fees. Eastern Washington State College requires from each applicant who is offered admission to the fall quarter a \$50.00 prepayment as part of his fall quarter fees and tuition. The student will be notified that this prepayment is due as soon as he is found eligible for admission. Considerable advantage in course selection accrues to the student who makes an early prepayment.

6. Freshman and transfer students under 25 years of age with fewer than 36 quarter credits entering this College for the first time must complete the Washington Pre-College Test. The test is given throughout the year at EWSC and at the various colleges and high schools. This test is used for guidance purposes only.

7. Entering freshmen are required to live in college residence halls unless they are over 21 years of age, live with their parents, or are married.

Re-enrollment for Former EWSC Students

Former students who have interrupted their program at EWSC for one or more quarters (excluding summer), and who subsequently desire to re-enroll must fill out a "Former Student Returning" card and file it in the Admissions Office not later than two weeks prior to the beginning date of the quarter in which they plan to register.

Those who have attended another college or univer-

sity since last attending EWSC are required to have filed in the Admissions Office at least two weeks prior to registration day, complete official transcripts from each institution. Such students will not be eligible to return to Eastern if their transcripts show evidence of their having been dropped for low scholarship unless a year or more has elapsed since attending said college. Former EWSC students who have attended another college will normally be granted re-admission if they have a cumulative grade point average of 2.00 or better.

REGISTRATION

The dates set aside for registration for each of the quarters will be found in the official College Calendar near the front of this catalog.

All students must register in person. Complete registration instructions are contained in the "Final Announcement of Courses." Students should follow these instructions carefully to avoid confusion and waste of time on registration days.

Students are officially registered and entitled to attend classes for credit only after they have completed the prescribed registration procedures, including the payment of fees.

Failure to appear for the first day of class may result in the loss of registration in that class and section.

Registration materials will be prepared for new students only after admission to the College has been accomplished.

Responsibility for Correct Registration

The responsibility for proper registration rests with each student. A student may not receive credit for a course or a section of a course unless he is officially enrolled. He will receive a withdrawal in any course or section of a course for which he is officially registered but is not attending.

Late Registration

After the close of the regular registration period students are not permitted to register except by special permission of the Registrar. A late registration fee will be assessed beginning with the first day of classes, payable at the time of registration. In no case will students be allowed to register after the date specified in the College Calendar.

Changes of Registration

When a student has completed registration, his choice of courses should be permanent. However, if unusual circumstances bring a need for a change of registration, the student must initiate the change in the Registrar's office within the time limits stated in the College Calendar.

Withdrawal from Courses and College

Students can withdraw from courses with a grade of W during the first four weeks of the quarter by contacting the Registrar's office. After four weeks, all grades, including the grade of W (Withdrawal) are established by the instructor concerned.

Withdrawal from the College follows the procedure as outlined above except that fee refunds will be determined on the date the Registrar's office is notified of the withdrawal.

EXPENSES AND FEES

General Tuition and Fees are established by the Board of Trustees within limits prescribed by the State Legislature. All fees are subject to change at any time. The following paragraphs list fees in effect or known changes when the catalog was printed, December, 1971. Unless specifically indicated, all fees are payable to Eastern Washington State College at the College Cashier's office in Showalter Hall.

REQUIRED TUITION AND FEES

The 1971 Washington State Legislature enacted legislation requiring a tuition and fee schedule charging different categories of students varying rates—Vietnam veterans meeting certain qualifications, regular State residents, non-residents and graduate students. The determination of Vietnam status for tuition and fee purposes is made by the Budget Officer. The conditions under which a Vietnam veteran may qualify are three:

1. Must have served after August 5, 1964,
2. must have served in the "southeast Asia theater of operations" defined as Vietnam, Thailand, Cambodia, Laos and adjacent waters, and
3. must have been a bonafide citizen or resident of the State of Washington for one year **immediately** prior to entry into the service.

Residency status is established by the Admissions office. Post baccalaureate students are to be charged an additional fee for graduate students unless certification is received from the Graduate office that they are not in a program leading to a graduate degree. Payment of the following fees is required of all students who are registered and entitled to attend classes for college credit:

A. Full-time Students (Registered for 10 quarter credits or more)

	Washington State Resident	Vietnam Veteran	Non- resident
Undergraduate			
(Quarterly)	\$165.00	\$120.00	\$ 453.00
Academic Year	\$495.00	\$360.00	\$1,359.00
Graduate			
(Quarterly)	\$185.00	\$120.00	\$ 473.00
Academic Year	\$555.00	\$360.00	\$1,419.00

B. Part-Time Students (Registered for 9 quarter credits or less)

Undergraduate and graduate part-time student rates are not distinguished between resident and non-resident classifications. The charges are as follows:

	Minimum— 2 Credit Hours Fee	Each Additional Credit Hour Fee	Maximum— 9 Credit Hours Fee
Undergraduate	\$30.00	\$15.00	\$135.00
Graduate	\$34.00	\$17.00	\$153.00
Vietnam Veteran:			
Undergraduate	\$30.00	\$15.00	\$120.00
Graduate	\$34.00	\$17.00	\$120.00

NOTE: Students taking six credit hours or less are not entitled to a student activity card.

C. Full Quarter Tuition and Fee Prepayment

All full-time newly admitted students and former

students returning are required to pay a \$50.00 Tuition and Fee Prepayment in order to reserve a class space for Fall Quarter. See General Admissions Policies, Page 5 for instructions pertaining to new applicant admissions procedures. Upon receipt of the remaining portion of full fee payments, the College applies the \$50.00 prepayment to the total applicable registration fee.

RESIDENT AND NON-RESIDENT STUDENT CLASSIFICATION

The term "resident students" shall mean full-time students who have been domiciled in Washington state for at least one calendar year prior to the date of their registration; military personnel and federal employees residing in Washington including their spouses and children, and spouses and children of staff members of the College. The term "non-resident students" shall mean all full-time students other than those classified as resident students. Residency status questions should be directed to the Office of Admissions.

OPTIONAL FEES AND CHARGES

In addition to required tuition and fees, those students who participate may be involved with one or more of the following fees and charges.

A. Board and Room Charges

See Page 11, Halls of Residence, for the proper procedure for application for room reservation in a residence hall.

1972-73 Board and Room Rates

The following table shows the rates for board and room for the year 1972-73 set by the EWSC Board of Trustees in January, 1972. Rates are subject to change by action of the Board and changes take effect as the Board determines.

	Single	Double
Diminishing Rate		
Fall Quarter	\$362.00	\$322.00
Winter Quarter	\$332.00	\$292.00
Spring Quarter	\$302.00	\$262.00
Total for Academic Year	\$996.00	\$876.00
Regular Rate*		
Winter Quarter	\$332.00	\$292.00
Spring Quarter	\$332.00	\$292.00
Total for 2 quarters	\$664.00	\$584.00

* Students who come into the dormitory winter and spring quarter will pay the regular quarter rate.

The above rates apply to Anderson, Dressler, Dryden, Morrison, Pearce and Streeter Halls.

Single occupancy rooms will be assigned only to those requesting single rooms and only to the extent that single rooms are available.

The above rates include the purchase of a regular meal ticket which is required of all students living in College residence halls.

Married Student Court: \$60.00 per month rental.

B. Degree Fees

Each successful candidate for either the Bachelor of

Arts, the Bachelor of Arts in Education, Bachelor of Science or a Master's Degree must pay a Degree Fee of \$10.00. Note: The Degree Fee must be paid when the student makes application for graduation.

C. Special Course Fees

Certain courses have special participation fees in addition to the regular fees that all students pay. Among the programs are some Health and PE courses, the Mexican Study Program, Tamarack Music Festival and Educational Development Services. Special fees will be assessed when the participating students pay their full fees at the Cashier's office.

D Change of Registration Fee

Students dropping or adding courses after regular registration day will be assessed a \$1.00 charge at each occurrence of course change.

E. Late Registration Fee

Beginning with the first day of instruction, a \$15.00 penalty fee will be charged for late registration. Students are expected to comply with registration dates indicated on the College calendar near the front of this catalog.

F. Certification Fee

Each successful candidate for a teaching certificate must pay a certification fee of \$1.00. The fee is payable when the student makes application.

G. Auditor's Fee

Students may enroll in a course on an audit basis upon payment of a two hour minimum fee of \$30.00 and \$15.00 per each additional credit hour. Admission to classes will be contingent on the availability of space after regular students have been considered. Audit students are exempt from examination and no college credit is granted. Participation in class work shall be at the instructor's discretion. A student may not change from "credit" to "audit" without the Registrar's approval.

H. Breakage Fee

A Breakage Fee of \$3.00 is assessed of all students participating in Biology and Chemistry laboratory courses. This fee is specifically to replace damaged equipment on the basis of costs incurred by the College. The fee is refundable based on the course instructor's approval after equipment has been secured.

I. Parking Fee

Parking space is available to students based on the purchase of a campus parking decal at a cost of \$5.00 per quarter or \$15.00 for a four quarter year. Decals are issued for as long as space is available.

J. Master's Thesis Binding Fee

Each candidate for a Master's degree who presents a thesis must pay \$20.00 for binding four copies.

K. Supplies

Students enrolling in certain business, industrial technology and art courses must pay for supplies in excess of course fees as determined by the department.

L. Personal Costs

Costs for clothing, transportation, and other personal

expenditures will be in addition to the above. The College does not provide textbooks for the personal use of students, but the Bookstore in the Isle Union Building is maintained to furnish all necessary books and supplies at reasonable prices.

M. Deposits

1. Campus Housing. For information concerning reservation payment and residence hall application, write to Housing Office, Room 122, Showalter, EWSC.
2. ROTC Uniform Deposit. The regulation Cadet Uniform is issued for the use of ROTC Cadets at Eastern Washington State College. Each student makes a \$10 deposit to the ROTC as a uniform and equipment guarantee. The deposit, less deductions for lost or damaged articles, is returned to the student when the uniform is turned in, and the student is required to reimburse the United States Government for any loss in excess of the deposit.

REFUNDS

Tuition and Fees Refunds

Procedure to follow: To receive a refund on Tuition and Fees, a student withdrawing officially from the College must follow procedures outlined below:

1. Unregistered New and Former Students

New and former students returning who have applied for admission and paid the \$50.00 Fall Quarter admittance prepayment and/or full fee payments and have not subsequently pre-registered or registered must apply for a refund to the ADMISSION OFFICE. Generally the prepayment is non-refundable except for good and sufficient reason beyond the control of the student.

2. Registered Students

New and former-students-returning who have gone through registration and continuing students who have paid the \$50.00 Fall Quarter prepayment and/or full fee payments may apply for a refund to the REGISTRAR'S OFFICE. Generally the prepayment is non-refundable except for good and sufficient reason beyond the control of the student.

3. The request for refund shall be made by completing a "Withdrawal Clearance" form available in the Registrar's office or by contacting the Admissions office. Requests for refund must be made by form or letter to the Admissions or Registrar's office on or before the deadlines stated below in the refund schedule.

4. Refunds will be available to the student approximately two weeks after the "Withdrawal Clearance" form is completed. An additional two weeks is required to process refund requests made by mail. NO refunds will be processed and available to the student at the time of formal withdrawal. The following is the refund amount schedule:

- a. A \$10.00 forfeiture to the College is deducted from any refund allowed by the College.
- b. The \$50.00 Tuition and Fee prepayment will not be refunded except for reasons beyond the student's personal control as determined by the College.
- c. Full fee refunds will be made in the case of

- complete withdrawal after the student has begun classes, but prior to 5:00 p.m. on the fifth class day of instruction of any quarter of the school year. If a student has paid full fees and withdraws prior to the first class day of Fall Quarter only, or has not attended classes, the \$50.00 prepayment will be forfeited.
- d. One-half of the total fees may be refunded if withdrawal is within the first thirty calendar days following the first day of instruction.
 - e. No fees will be refunded to any student dropped from the College because of disciplinary reasons.
 - f. Students drafted or called into the military service of the United States will receive a full refund of fees, provided academic credit is not granted for that particular quarter.
 - g. A full refund of Tuition and Fees or the \$50.00 prepayment will be granted if a student is officially separated by action initiated by the College. Included action may consist of classes dropped at the discretion of the College.
 - h. Students may petition for the forfeited \$50.00 prepayment to be applied for Tuition and Fee charges for another quarter during the 1972-73 academic year by contacting the Business Manager or Controller.

Board and Room Refunds

All refund procedures concerning board and room and the residence hall reservation payment are contained in the contract which is mailed in answer to a request mailed to the Housing office, Room 122, Showalter Hall, EWSC.

Student Court Refund

The renter must give 30 days' notice in writing to the Office of the Housing Manager before vacating. He is then entitled to a pro rata refund of rent. If he has not given 30 days' notice, he will be charged one month's rent from the date of his giving notice. He is entitled to a refund of his \$40.00 housing deposit if there is no damage, rental or other charges and he has checked out properly.

Refund Problems

Students should contact the Student Accounting Department, Room 320, Showalter Hall, to determine the status of any refund currently being processed.

STUDENT LIFE AND WELFARE

One of the outstanding characteristics of Eastern Washington State College is the emphasis placed upon student life and welfare. The day-by-day experiences of the students outside the classroom are regarded as extremely important resources for the growth of the student.

STUDENT SERVICES

Offices of Student Services and Dean of Women: These offices serve as the general administrative

agencies of the College in all matters pertaining to student life not specifically delegated to other offices.

Staff members of these offices are concerned with the interests and welfare of all students as individuals. They are prepared to assist any student with whatever matter he may wish to discuss. Problems of a personal, financial, social, curricular, or extra-curricular nature are often matters of discussion.

The Student Personnel Program, which is coordinated by the Vice President for Student Services, is composed of several elements: admissions and registration, counseling and advising, living arrangements, student activities, health service, financial aids, orientation of new students, and student conduct.

The emphasis of the student services staff is on the primary role of the academic program in student life and the complementary function of extra-curricular activities.

STUDENT GOVERNMENT

All regularly enrolled students are members of the Associated Students (ASEWSC) and participate in the election of representatives to the chief governing board, Associated Student Legislature. The chief responsibility of the legislature is to make policies which affect student life and welfare as well as advise the faculty and administration of student needs and opinion in matters of natural concern.

ACTIVITIES

Student activity fees support a variety of ASEWSC planned and organized activities. Cultural and social events include concerts, contemporary film series, retreats, guest lecturers, dramatic presentations and dances. Other programs and projects are sponsored to identify and to serve broad areas of student concern. Many programs, such as the commuter bus, nursery school, outdoor program and Tenants Union are designed to provide services beneficial to students. Service programs help students realize the rewards of cooperative group efforts to benefit not only students, but the entire campus as well. Other ASEWSC sponsored activities recognize the growing educational, social and political awareness of the student body and provide stimulating and rewarding experiences in both on-campus and off-campus activities. Legislative action groups, voter registration projects, curricular reform and student rights are some of the interests in this area.

A wide assortment of special interest clubs and organizations are also chartered by the Associated Students to involve students in specific activities of interest. These organizations provide valuable campus services as well as offer opportunities for group experiences and leadership growth.

National Honorary and Service Organizations

The honorary and service organizations on the campus play an important part in establishing and carrying on the Eastern spirit. Dedicated to the encouragement of leadership and proficiencies, they have the concentrated and focused efforts of our best students. Also these organizations serve the purpose of bringing students into direct relationship with students on other campuses.

National Sororities and Fraternities

Three national sororities, three national fraternities and one local fraternity maintain chapters on the campus. National sororities are: Alpha Xi Delta, Chi Omega and Sigma Kappa. National fraternities are: Lambda Chi Alpha, Pi Kappa Alpha and Sigma Nu. Theta Chi Upsilon, a colony of Sigma Alpha Epsilon, is a local fraternity. Membership in a sorority or fraternity is by invitation from the members of the group concerned; however, membership cannot be denied on the basis of race or creed.

Sororities and fraternities maintain self-government within their local chapters and conduct educational, social, recreational, cultural and philanthropic activities. The rushing programs are coordinated by the Panhellenic and Inter-Fraternity Councils.

Sorority members may be housed in college residence halls. Housing in chapter houses is available to fraternity members. For further information about sororities or fraternities, contact the Panhellenic Council or Inter-Fraternity Council, respectively, through the Office of Student Services.

ADVISING SERVICE

All students are welcome to use the Central Advising Office, Showalter Hall, for help in either planning or implementing their academic programs. The Central Advising Office serves as faculty adviser for all freshmen as well as initial adviser for all transfer students. It is a convenient source of reference to more specialized assistance available at the College.

COUNSELING CENTER

The Counseling Center offers students professional counseling on educational, personal, or career problems. The student may receive assistance in identifying aptitudes, interests, and personality traits for consideration in the choice of a vocation or educational program.

Assistance is also offered in dealing with emotional disturbances, personal problems, or situational aspects which detract from the student's ability to derive maximum benefit from his college experience. The Counseling Center provides complete psychological and aptitude testing as part of the counseling process and maintains a library of reference material on occupations, professions, and career opportunities. The staff is composed of counseling and clinical psychologists and professionals familiar with the needs and interests of college students.

The Counseling Center also administers a variety of national and local testing programs such as the Graduate Record Exam, Miller Analogies, Washington Pre-College Testing Program, Foreign Language Placement Tests, and the Mathematics Clearance Tests. Special testing is also offered when required for admission to graduate or undergraduate programs at other institutions.

Tutoring Service

The Tutoring Service provides a variety of resources to students who are having difficulties with their college study. Students may receive assistance with specific course problems, developing a better general under-

standing of subject material, and identifying and treating study skill deficiencies. Tutors are interested students familiar with the needs of college students. They are proficient in their major and related areas with special capabilities to clearly relate to students and provide suitable solutions to their problems. Tutors are available on an individual basis without charge to the student.

Rap-In

RAP-IN is the college and community Reference Agency for People In Need. Trained student and community volunteers serve as telephone answerers. Calls to RAP-IN are confidential. The aims of the volunteers are to provide complete and concise information concerning the campus and community and to be good listeners to those in personal distress.

ATHLETIC PROGRAM

Eastern Washington State College is a member of the Evergreen Conference. The other members of the Evergreen Conference are Central Washington State College, Western Washington State College, Oregon Technical Institute, Southern Oregon College, Oregon College of Education and Eastern Oregon College. This conference is considered to be one of the best organized conferences in the nation. It is governed by the rules and regulations set up by the National Association of Intercollegiate Athletics.

All Evergreen Conference members are required to field teams in the four major sports: football, basketball, baseball, and track. EWSC also fields teams in tennis, golf, swimming, gymnastics, cross-country, and wrestling.

Besides competing with all conference members in a full sports program, Eastern schedules games with strong independent teams in this area.

Eastern Washington State College women, along with women from Whitworth College, Gonzaga University, Spokane Falls Community College and North Idaho Jr. College, form the Pine League. Competition within the league is held in Volleyball, Badminton, and Tennis. Eastern also has a women's Gymnastic team, Swimming team, Field Hockey team, Ski team and a Dance Club.

In addition to the Pine League, Eastern's women participate in many tournaments sponsored by the Northwest College Women's Sports Association and the Association for Intercollegiate Athletics for Women.

Eastern Washington State College offers a well-rounded and comprehensive Intramural Program for both men and women who are interested in sports participation. The excellent facilities at Eastern make it possible to operate an extensive afternoon and evening program.

FEDERAL PROGRAMS

RELATING TO COLLEGE ENROLLMENT

A Federal Affairs Clerk is provided in the Registrar's Office to assist students involved in government programs as they relate to college enrollment. These government programs include Social Security Survivors Benefits, Selective Service, Certification of Military, Student, or Peace Corps Volunteer Status (NDEA Title II), Veterans Benefits under P.L. 89-358, and War Orphans Educational Assistance (P.L. 634).

Any questions regarding the above mentioned programs should be referred to the Federal Affairs Clerk in the Registrar's Office.

STUDENT HEALTH SERVICE

The college contracts with the Cheney Medical Associates, for limited medical facilities and services. In-patient care will be provided at the Health Center up to **five** days per quarter. Out-patient medical care is provided and includes the diagnosis and treatment for illness, including the use of x-ray and laboratory facilities as may be ordered by the attending physician. Chronic illness and illness contracted by the student prior to enrollment in the college shall be cared for on a **limited** visit arrangement. Prescription and injection drugs as ordered by the participating physician will be furnished free of charge to the student **except** for drugs for the treatment of chronic or pre-existing illnesses.

Health Service will provide one visit for evaluation purposes for any disorder, illness or injury. If the evaluation shows that the disorder is not covered by the Health Service contract, treatment will be done at the student's expense and/or under his own health insurance coverage.

EXCLUDED SERVICES

The following are not covered by the health service contract: treatment of injuries (other than first aid); hospitalization outside of the student health center; eye refraction; dental care; contraceptives, pregnancy, other than a diagnostic visit, excluding laboratory work; illness or injury due to drunkenness, drug abuse, vandalism (other than first aid) or any criminal act; major surgery and trauma; employment physicals; excuses from class for students not treated at the student health center; ambulance service.

Health center physicians will provide care for injured students as private patients on a regular fee basis. In case of an illness or injury requiring hospitalization, the student is usually admitted to one of the Spokane hospitals on his own responsibility or that of his parents. This professional care is offered by the Student Health Center staff but may be referred to the physician of the student's choice.

INSURANCE PLAN

The services of the Student Health Service are excellent but limited in scope. Accidents and serious illnesses requiring hospitalization and major surgery are not covered.

In order for the student to provide himself with complete coverage the college sponsors a health and accident insurance plan which is available to students on an optional basis. This group policy with a national company provides broad coverage and liberal benefits for a modest premium. Students who do not already carry adequate health and accident insurance are urged to take advantage of this plan.

Health Examination

Full-time students at Eastern are required to complete a Health Information form at the time of registration. It is recommended that a health examination be done by the individual's own physician prior to attendance at

EWSC. Special forms are provided by the College for this purpose. The College reserves the right to require a health examination if deemed necessary.

Health examinations are also required each year for varsity athletics and participating members of certain Physical Education classes, as specified by the instructor of the class. These examinations are given under the auspices of the College at the Health Center.

FINANCIAL AID

Students faced with serious financial problems who feel that their own and their parents' resources are inadequate to meet the costs of attending college should contact the Office of Student Financial Aid. The purpose of this office is to provide the needed financial assistance to students who, without this assistance, would find it impossible or difficult to enter or to remain in college.

Qualifications for assistance vary depending upon the program, but in most cases, proven financial need is the most important consideration. Students seeking assistance under any of the following programs, National Defense Student Loan, Educational Opportunity Grant, federally-funded College Work-Study Program, Nursing Assistance Program, tuition and fee waiver plan, and academic scholarships, must submit an application for financial aid and scholarship and a financial statement. The financial statement forms are available in the Office of Student Financial Aid, EWSC, or from high school counselors and are supplied by the College Scholarship Service. The application for financial aid and scholarship is available only in the EWSC Office of Student Financial Aid.

To be considered for financial aid or scholarships, the applicant must complete his application by July 1st. To meet the deadline, the financial statement must be submitted to College Scholarship Service at least six weeks before July 1st. Processing time will vary, but a minimum of six weeks should be allowed.

Students seeking assistance under the federally-insured Student Loan Program may contact the office for the appropriate forms. No deadline is established, but application should be made as soon as possible after July 1 of the year the student plans to enroll in college.

Students seeking assistance under the Law Enforcement Education Program should contact the Financial Aid Office for the appropriate forms by July 1, 1972.

Academic scholarships are also available. However, the number is limited, and only students with exceptional academic ability and financial need are considered.

Students seeking employment under the college-sponsored program (non-federally-funded) may apply in person after they have enrolled for fall quarter.

Renewals are not automatic under any of these assistance programs, and students must apply for and meet the respective program requirements each year to be considered. Applicants must be matriculated or admitted to the college before they can be considered for assistance.

For additional information and application forms, contact the Office of Student Financial Aid.

STUDENT RESIDENCE FACILITIES

Information concerning housing accommodations may be obtained from the Office of the Housing Manager, Room 122, Showalter Hall. The office is open Monday through Friday.

Halls of Residence

The objectives of the residence halls are to provide comfortable, democratic living conditions conducive to successful academic achievement and participation in the wholesome activities of campus life. There are six residence halls, housing 1945 students — Anderson, Dryden, Dressler, Pearce, Streeter and Morrison.

Most rooms in all halls are designed for two students, with the exception of a few singles in some halls. All rooms include built-in drawers, closets, dressing table and study desks and lamps. Community kitchens, lounges, recreation rooms, sewing and laundry rooms are available to all residents. Each hall has its own student government organization and sponsors social, cultural and athletic activities.

Meals are offered in a community dining hall, Tawanka Commons, with cafeteria style meals served three times a day except on Sunday when two are served. Room and board rates are the same for all residents, with no rebate permitted for weekend absences or reductions for meals eaten elsewhere.

Application for space in a residence hall can and should be made before official admission to the college. Information about residence halls and application forms are sent to students only upon request directed to the Office of the Housing Manager.

Hall Regulations

Entering freshmen are required to live in college residence halls unless they are over 21 years of age, live with their parents, or are married.

Residence halls are designed primarily for undergraduate, single students. Graduate students, married students and undergraduates over 25 years of age should request permission from the Office of Student Services to be granted accommodations. Priority will be given to freshmen. Older students may be placed on a waiting list until space becomes available.

Students are required to carry a minimum of 7 credits per quarter in order to live in a residence hall.

Complete hall regulations will be issued to the student by the hall director.

Married Student Housing

Thirty-six one-bedroom apartments are maintained for married students. These units are unfurnished except for stoves and refrigerators. The units are electrically heated; the student pays his electric bill. Application forms may be obtained from the Housing Office, Room 122 Showalter.

Off Campus Housing

Notices of off-campus rooms and apartments are posted on a bulletin board outside the Housing Office in Showalter Hall and at the Office of the Tenants Union in the Pence Union Building, third floor. **Mailing lists are not available.**

STUDENT PARKING

Any student attending Eastern Washington State College who has a car in his possession locally must register the car with the College. A student's college registration will not be considered complete until he has filled out a card indicating whether or not he has an automobile.

Automobile registration will be done during the regular college registration process. Students obtaining automobiles after the close of registration must register their vehicles in the Cashier's Office.

Students who use college parking lots must purchase a campus parking permit designating the lot to which they are assigned. Permits may be purchased at the Cashier's Office. People parking in unauthorized areas on campus, without the proper parking permit or in any area than that to which they are assigned, will be required to pay a fine.

EDUCATIONAL FACILITIES AND SERVICES

JOHN F. KENNEDY MEMORIAL LIBRARY

The Library building is a modern, functional, three-story building completed in 1967. Its contemporary furniture, excellent lighting, carpeted floors and convenience arrangement provide ideal study and research facilities. The building houses three distinct but related units.

The Library

The Library now contains a collection of almost 250,000 volumes and is adding new materials at the rate of 30,000 to 40,000 volumes per year. Virtually the entire collection is displayed on open shelves and most may be taken from the building for a reasonable loan period. In this portion of the building there is space for approximately 800 readers to work in air-conditioned comfort.

At present the collection is divided into several segments for easier use. Portions of the main book collection are located on all three floors. On the second floor can be found the Periodical Department, and a Curriculum Laboratory containing course guides, texts, educational games, models and similar materials plus the ERIC research materials. The busy main floor houses the chief service departments of circulation and reference. It also includes a large micro-text collection of 140,000 pieces. Through these micro-forms, the College is able to offer the student, for example, a complete file of the New York Times, many government publications no longer in print, and many books and journals now virtually unobtainable in any other form. A number of "readers" or viewers are available to facilitate use of the collection. For a nominal charge per exposure, the Library is able to provide the student with a readable copy of most of its printed materials, including those held in micro-form.

Since 1966 the Library has been a depository for U.S. Government publications. This collection now numbers over 60,000 pieces and is growing at a rate of 20,000

pieces per year. The Department servicing the Documents collection is located on the ground floor. This floor also provides space for the Special Collections room which contains the Northwest collection, and the Washington State document collection. Among the more than 6,000 volumes, the student will find material relating to the history and government of Washington, the Northwest, and the western United States.

The Library subscribes to over 2,000 journals, magazines, and newspapers from this country and abroad. Among these subscriptions are journals on almost any subject in the world's major languages. Newspapers are received daily from London, Paris and Moscow, as well as the major cities of the United States and many of the smaller cities of the Northwest.

Of special interest to the music lover is the Library's collection of disc and tape recordings housed in the Music Building. In addition to appropriate playback equipment, this branch unit contains a sizable collection of published scores.

The Library maintains a card catalog of its book holdings, and subscribes to numerous indexing and bibliographic services, such as the Reader's Guide to Periodical Literature, the Education Index, the Monthly Catalog of Government Publications and Chemical Abstracts. To facilitate study and research there is a variety of study spaces, including individual study tables, typing and group study rooms and locked carrels for graduate students and faculty.

Reference librarians assist students and faculty in the use of the library, provide inter-library loan service, and provide other bibliographic services.

INSTRUCTIONAL MEDIA CENTER

The Instructional Media Center is located in Kennedy Library. The Center offers instructors and students several specialized services: film booking, instructional television, graphics production, listening lab, audiovisual library, and equipment maintenance and dispatch. The overall objective of these services is to support and enhance instructional programs by making educational media readily available to instructors and students.

Film Booking

Requests for 16mm films should be directed to the film booking clerk who arranges loans and rentals, and coordinates showings. Faculty members are encouraged to schedule films as far in advance as possible. There is usually no charge to the department.

Instructional Television

Video tapes can be made and played back practically anywhere on campus. Micro lessons, athletic events, guest lectures, and special projects are typical subjects for video tape. Major productions are usually taped in the IMC studio using several cameras and a full range of sound equipment and visual effects.

Graphics Production

Production of slides, overhead transparencies, filmstrips, Super-8 loop films, black and white prints, charts, and similar items for the classroom is available. There is a self-service area in the graphics lab for students where they can mount and laminate pictures,

make transparencies, spirit copies and signs, and prepare materials for class presentations and student teaching lessons.

Listening Lab

All cataloged, non-print materials such as filmstrips, audio and video tapes, film loops, and slides are available in the listening lab. Students and faculty may view or listen to these materials in the lab, or check them out.

Audiovisual Library

The audiovisual librarian maintains current files of catalogs and advertisements for practically all of the nonprint items that are published. She also advises and assists in ordering new materials.

Equipment Maintenance

All repair and maintenance of equipment is handled by IMC technicians. Special audiovisual setups (public address systems, taping concerts, etc.) are handled by the technicians.

Equipment Dispatch

IMC can supply a variety of AV equipment. Both faculty and students may check out most types of equipment. Faculty members have the equipment delivered and picked up at delivery points near their classrooms; students may check out equipment at the IMC. A projectionist will be provided for any 16mm film showing the instructor has scheduled.

COMPUTER FACILITIES

The Computer Services Department maintains facilities in the basement of Kennedy Library to serve the instructional, research and administrative computational needs of the college. In addition a student and faculty keypunch service area is located in Martin Hall, room 125.

The center currently has an RCA Spectra 70-45 computer to satisfy these needs. This Spectra system consists of: one central processing unit with 132,000 bytes of memory, four removable—pack disk drives with a capacity of 29 million bytes per pack, four magnetic tape units, one card reader, one line printer and one card punch.

The languages presently supported are COBOL, FORTRAN, RPG and ASSEMBLER. Several scientific packages are also available for use. The Texas State package, Scientific Subroutine System 70 (SSS70) and Linear Regression Analyses are examples of a few. The operating system in use is RCA's Disk Operating System (DOS). More complete information may be obtained by inquiring at the center.

Many academic departments currently utilize the center's facilities as a tool in the educational process. Applications vary from the use of standardized analysis routines to instruction in the use of the language translators. Specific information is available in the Course Descriptions section of this bulletin, the Final Announcement of Courses or at the academic departments. Limited programming and consulting services are provided for users in accordance with pre-arranged priorities.

A Student Input-Output area is provided in room 125, Martin Hall for individual student use. In addition to

keypunch facilities, this area is used for submission and consultation for student programs. The heaviest demand for these facilities is generated in the programming courses which are offered; however, the area is available for use by any student.

Consulting Services are available in the basement of Kennedy Library for the use of faculty. Limited programming, keypunching and program submission facilities are provided. The major use of this area is for consultation so that faculty members may easily discover what software is available for use and the procedures needed for its use. Faculty members may also receive debugging assistance here for any programs they may be writing or modifying.

The record keeping and information needs of the administrative offices currently make use of the available facilities. Information is also provided to the college administration to assist them in the efficient utilization of the college's resources.

LYCEUM

The Artist-Chamber-Lecture series (Lyceum) at Eastern, sponsored by the College, brings some of the world's finest speakers, concert artists and musical organizations for programs during each of the four quarters. While season tickets are available to the general public, the student body card admits Eastern students. Faculty soloists, lecturers and musical groups are also presented as added attractions to one or more of the series.

PLACEMENT OFFICE

The Placement Office is maintained as a service to graduating students and alumni who are seeking teaching positions and other types of employment.

To be fully eligible for placement services, a person must have received a degree or certificate from Eastern Washington State College. In anticipation of a degree or certificate, graduates of other institutions may start their file after they have satisfactorily completed two quarters in residence toward an advanced degree or certificate from Eastern and have been accepted into their particular program at Eastern. In anticipation of a degree, seniors who have satisfactorily completed two quarters in residence toward a degree at Eastern may start their files the quarter they become seniors, or approximately one year before graduation.

The Placement Office maintains the individual's placement file; however, it is the individual's responsibility to keep it up to date.

All students and alumni who are interested in obtaining positions should contact the Placement Office, as all prospective employers who are interested in candidates list their vacancies with the Placement Office.

CAMPUS SCHOOL

The Campus School is maintained to provide laboratory experiences for college students majoring or minoring in speech, psychology, library science, music, art, physical education, foreign language, social science, education, and related fields. Laboratory experience opportunities include observation, demon-

stration, participation, experimentation and research. Because of its unique observational facilities, opportunities to visit the school are extended to the general public as well as to teachers desiring in-service education.

A modern educational program for children from Kindergarten through grade six is offered to students selected from a no-tuition waiting list. Information concerning admission or visitation to the school may be secured by writing to the Director of the Campus School.

CHIRON STUDIES

Chiron Studies is a program for freshmen which uses an interdisciplinary approach to required general education courses. It combines required courses in English composition, social science and humanities into a fourteen-hour block each quarter. Thus, instead of approaching world history and the classics of literature and art as a vast "tradition" which must be systematically "covered," each quarter one relatively short period of one or more specific cultures is treated, but in considerable detail.

In the fall quarter fifth-century Greece is examined. By looking at works of drama, art, history, philosophy and biography, students in the program attempt to reconstruct and understand "golden-age" Greece in the age of Pericles and down to the death of Socrates. In the winter quarter Renaissance Florence and the Renaissance in England are studied. The spring program is not fixed, but will deal with some aspect of the modern period. Students in the program will help formulate the subject for this quarter.

The program consists of formal lectures, panel discussions, small seminar discussion groups, individual discussions with the seminar leader, and audio-visual presentations.

Both students and faculty of Chiron Studies are volunteers. It is not an honors course; the only real criterion is adequate reading ability, for there is quite a bit of reading involved. A regular writing program is also part of the course and instructors are available for individual aid.

HUMAN DEVELOPMENT CENTER

The purpose of the Human Development Center is two-fold: To provide students with a multidisciplinary approach to the study of human development, and to be of service to the surrounding community.

The Human Development Center program is designed to integrate the educational, psychological, sociological, physical, and creative aspects of human development and to give the student opportunity for directed experience in campus clinic and community agencies. Center staff are available for student advising and in planning degree and non-degree programs in human development. Service to the community includes collaboration and consultation relative to research projects, program evaluation, and program development.

Because of the multidisciplinary resources and community involvement of the Human Development Center, two populations are served in special ways. The person in training is afforded opportunities to integrate

and apply principles and concepts in supervised settings. The community agencies are also enhanced because the variety of resources available is increased.

The Human Development Center is located in 145 Martin Hall.

SPEECH AND HEARING CLINIC

The Speech and Hearing Clinic is located in the Speech Center on Seventh Avenue. The primary function of the facilities at the Speech and Hearing Clinic is to provide clinical experiences to students in the evaluation and rehabilitation of speech and hearing handicapped individuals. In order to provide these clinical experiences, the clinic operates an extensive community service program. Diagnosis and therapy are available for the disorders of language development, articulation, cleft palate, laryngectomy, cerebral palsy, stuttering, voice, aphasia, and deafness. The Speech and Hearing Clinic also provides complete hearing testing services including hearing aid evaluations and lip reading programs. The clinic has one-way mirror observation facilities available for parents of children receiving therapy.

Services are available to anyone throughout the academic year and during the summer session. Minimum fees are charged. However, no one is denied service due to an inability to pay. For further information, contact Director, Speech and Hearing Clinic, Eastern Washington State College, Cheney, Washington 99004.

DENTAL HYGIENE CLINIC

The Dental Hygiene Clinic, located centrally on campus in Rowles Hall, provides services to the College and community which are within the scope of the dental hygienist's professional duties.

These services include the cleaning and polishing of teeth through oral prophylaxis, instruction in proper home care measures designed to help maintain oral health, application of decay-preventing agents to the surface of the teeth, and taking dental x-rays. These x-rays may be sent to the patient's dentist upon the latter's request.

Nominal fees may be charged to cover the cost of supplies and materials used.

PRIMATE RESEARCH PROGRAM

The Primate Research Program affords the opportunity for the investigation of three monkey and one baboon species — the pigtail macaque (*Macaca nemestrina*), the crab eating macaque (*Macaca fascicularis*), the Japanese macaque (*Macaca fuscata*), and the olive baboon (*Papio anubis*). Faculty and students are encouraged to engage in interdisciplinary research projects, especially those concerned with ecology, reproduction, population, and social behavior. Program director is Dr. William A. Greene, in the Psychology Department.

The Primate Research Program is housed with the Regional Primate Research Center's Field Station at Medical Lake, Washington, about 10 miles from the College.

CENTER FOR URBAN AND REGIONAL PLANNING

Interdisciplinary in concept, the Center for Urban and Regional Planning draws upon many departments for expertise and academic instruction. The Center is under the direction of Francis J. Schadegg, professor of Geography. An advisory board representing both campus and community has been named to work with Schadegg in development of directions and policies. A degree program offered by the Center is included in the Catalog section containing course descriptions.

The instructional element of the "Center" program involves student use of the college area as a laboratory and as a source of research opportunities. In addition, the "Center" is involved in community service and research activities, continuing education for professionals, public education, and education of public officials.

THE CENTER FOR COMMUNITY DEVELOPMENT

Director: Henry D. Kass

Associates: Robert Herold, Irving Roth, Alvie Shaw, Bruce Throckmorton, David Weekes

The Center for Community Development was founded in 1965 as the Community Services Institute. Its purpose is to support and strengthen the efforts of professionals and laymen engaged in community and organizational development efforts throughout eastern Washington. The Center is currently engaged in evolving a three-part program to implement this goal. The program includes the:

1. design of an academic minor in Community and Organization Development, structured to support major work in the community serving professions, e.g., planning, social work, education, recreation, public administration, and the health sciences.
2. creation of education and training programs for individuals currently working as community serving professionals in Eastern Washington, and
3. initiation of a community and organizational research program.

During the 1972-73 school year the Center will present three experimental courses in community and organizational development: Self and Organizations (fall); Strategies for a Temporary Society; Organizational Development (winter); and Strategies for a Temporary Society: Community Development (spring). Students wishing to participate in these courses on an experimental basis may receive academic credit by arrangement. Further information may be obtained from the Center Director, Dr. Henry Kass, Room 2063, Patterson Hall.

BUREAU OF BUSINESS RESEARCH AND SERVICE

The Bureau is located in Kingston Hall and is an integral function of the Departments of Business. It is organized to provide research and management development services to both profit and non-profit firms and organizations in the Inland Empire and to enhance research and scholarship among faculty and students.

The Bureau recognizes the importance of individual faculty research and will assist faculty in developing non-sponsored research projects. The Bureau also serves as a catalyst to bring faculty technical expertise,

students and the business community together in solving important problems of the area. Business and economic research studies conducted by the Bureau are designed to provide data needed by organizational administrators to serve better the needs of society. Management development programs provide instruction to present and prospective management in the application of modern management techniques and procedures. Increased involvement of faculty and students with the business community serves to strengthen the academic offerings of the Departments of Business as it brings theory to bear on real life problems.

CONTINUING EDUCATION

Continuing Education coordinates the Summer session, directs Continuing Studies programs, including Correspondence and Extension, and provides assistance in the areas of conferences, institute, workshops, short courses, field trips, and community services.

SUMMER SESSION

Eastern Washington State College conducts a summer session as an integral part of its program, providing optimum educational opportunities for entering freshmen, upperclassmen and graduates.

The Graduate Program is designed to foster growth and development in the arts and sciences and to provide opportunities for advanced preparation of classroom teachers, administrators and educational specialists at elementary, secondary, and college levels.

Instruction during the summer session is given by members of the regular staff, by educational specialists of this state, and by prominent teachers of the region and nation.

For further information consult the Summer Session Bulletin or contact the Dean of Continuing Education, Eastern Washington State College, Cheney, Washington 99004.

Superior High School Students

Superior high school students may, at the completion of their junior year, enroll in approved summer session courses for college credit. Such students must be recommended by the appropriate personnel of their respective high schools and be carefully screened to insure adequate performance. High school students in summer session courses shall be graded on the same basis as regular college students.

COLLEGE-COMMUNITY PROGRAMS

The Director of College-Community Programs coordinates credit and non-credit conferences, institutes and workshops on and off campus. These activities may originate with an individual, department of the College, or special program interest group.

CONTINUING STUDIES

Continuing Studies offers courses by extension and/or individual study, (correspondence) which may be

counted toward the baccalaureate degree. Twelve credits earned by extension and/or individual study may be counted toward the Standard Certificate. Twelve hours of upper division (300 and 400 level) credits may be earned in extension classes and applied toward the master's degree with prior approval from the Graduate Dean's office. As much as one-fourth of the credit requirements for each of the principal's credentials may be earned through extension classes. Full-time students may enroll in Continuing Studies courses with their adviser's approval. Ten credits may be earned each quarter.

Students planning to apply Continuing Studies courses toward an EWSC degree or certificate must file high school and/or college transcripts with the Admissions Officer.

Fees

The fee for Continuing Studies courses is \$15 per quarter credit hour, payable the first class meeting. An additional fee may be charged in special cases to cover actual expenses.

Individual Studies

The fee for individual study correspondence courses is \$15.00 per quarter credit and must be paid upon registration. Individual study courses may not be completed in less than one calendar month nor more than one year from the date of enrollment. If no lessons are completed within six months of the date of enrollment, a \$1.00 reinstatement fee is required.

Although letter grades (A-B-C-D-F) are assigned for completed courses, the grades are not computed in the grade point average or applied toward requirements for the master's degree.

A previously failed EWSC campus classroom course may not be repeated by correspondence.

Fairchild Air Force Base Center

Eastern Washington State College offers residence credit at the Fairchild Air Force Base Center. Classes are open to military personnel, their dependents, and residents of the community. Fees are the same as for on-campus students.

Field Trips

Major field trips within the United States and neighboring countries provide students an opportunity for first-hand field study, observation, and experiences.

HIGH SCHOOL CREATIVE ARTS SUMMER SERIES

The High School Creative Arts Summer Series is designed for the two-fold purpose of providing both exploration and in-depth experiences for high school age students and a laboratory for advanced college students at Eastern. It involves instruction in all facets of the Creative Arts and is held annually the first two weeks of the summer session.

UPWARD BOUND PROGRAM

This program consists of a full-time summer residential phase on the College campus, and follow-up tutoring, counseling and group activities throughout the school year. Staff includes college and high school

faculty, and experts with skills in specific fields. Project directors work with college admission officers, financial aid officers, Talent Search, and other special student services programs to assist participants.

Upward Bound is designed to motivate disadvantaged high school students to try for college. Funded by the federal Office of Education, it involves the youngsters' total environment—their homes, communities, high schools—and the biggest deterrent to trying—their own self-confidence.

High school 10th and 11th grade students from poverty backgrounds are selected to participate on the recommendation of welfare workers, high school teachers and counselors. Students may remain in Upward Bound until high school graduation. Following high school graduation, the program prepares the student for independent college study.

For more information, write Upward Bound, Eastern Washington State College, Cheney, Washington 99004.

ACADEMIC PROCEDURES

Eastern Washington State College operates on a quarterly basis and with four quarters per year. The quarter hour of credit is the unit of instruction. The term "Academic Year" when used in this catalog refers to the normal three quarters, fall, winter and spring.

The Academic Load

To make normal progress toward graduation, a student must earn a minimum of 45 quarter credits per calendar year.

On the average, students will find that two hours of preparation are required for each hour of credit received. A 15-credit quarter is a 45-hour work week.

Students who find it necessary to work part-time should carefully consider the number of hours of college credits for which they enroll. The student should inform his adviser of his work load so that the class load may be adjusted to insure adequate academic preparation.

Advisers will also consider the academic status in approving the academic load.

Seventeen credits is the maximum load for which any student may register. If additional credits are desired, students may add credits, in reasonable quantity, during the Add process, provided the classes desired are open.

Full fee-paying students are not permitted to enroll in correspondence or extension courses, unless approved by the adviser.

Classification of Students

Students having 135 or more credits are classified as seniors; those having from 90 to 134 as juniors; those having from 45 to 89 as sophomores; those having fewer than 45 as freshmen.

CREDIT BY EXAMINATION

Students enrolled full-time in the College may secure Advanced Credit through Credit by Examination. The procedure is as follows:

1. An application for Credit by Examination is secured from the Registrar's office.
2. The student shall take this form to the department chairman concerned and obtain his consent and signature.
3. The department chairman shall delegate an instructor to give the examination.
4. The examination shall, whenever possible, be scheduled to coincide with end-of-the-quarter examinations or with examinations given to students to make up incompletes.
5. The student shall pay a \$1.00 fee for each examination.
6. Letter grades shall be given and recorded. All such grades and the hours of credit earned shall be counted only in the cumulative grade point average and in the accumulated number of hours. Neither the grades earned nor the hours credited through "credit by examination" or "advanced placement" will be counted in any given quarter to determine load or grade point.
7. The properly completed and graded application form shall be returned to the Registrar's office.

Credit by examination will not be granted for courses not offered at EWSC, nor for a course for which the student has received an incomplete, a passing or failing grade, nor for any course which the student has audited.

If a student fails the examination, he may not repeat the examination.

Credit by examination will not count toward the 45-credit residence requirement.

CREDIT—NO-CREDIT PROGRAM

The Credit-No-Credit program outlined below affords opportunities for students to explore areas of knowledge and to take subject-matter courses that students may feel might place undue strain on their usual ability to secure or maintain adequate or superior grade-point standings.

1. Any eligible undergraduate student may elect to take selected courses on a credit—no-credit basis. Grade points will not be assigned; grade points will be neither earned nor lost.
2. Courses required or selected to meet General College Requirements may not be taken under the credit—no-credit option. The Undergraduate Affairs Council may from time to time provide for exceptions.
3. All other courses, unless specifically exempted and identified by course number and title by the instructional department concerned, may be elected by a student under the option.
4. A student may add or drop courses in the usual manner.
5. An instructor of any course which may be taken under this option will not be informed by the registrar of the name of any student who is exercising the option. The instructor will arrive at a final grade in the usual manner and report it to the registrar. The registrar will enter on the student's transcript the credit or no-credit symbol only.
6. A student on probation is not eligible to exercise the credit—no-credit option.
7. A student who has declared a major and/or minor

may not use credit—no-credit option credits toward specified major and minor subject-courses. This rule does not apply to supporting courses that are a required part of a major or minor.

8. A student who has taken courses under the option prior to declaring a major or minor may request the department to accept these courses as fulfilling a major or minor requirement.
9. An eligible student may take a maximum of sixty credits under the option. A transfer student may take a proportionate number of credits under the option based on the sixty-credit formula; that is, one third of remaining credits needed for graduation.
10. If a student has exercised an option and fails the course, he may not again repeat the course under the option. Courses previously taken may not be repeated under this option.

Grading System

The grading system at Eastern Washington State College is as follows: A, superior; B, excellent; C, average; D, below average; F, failure; X, incomplete; or no grade recorded; W, withdrawn; and WF, withdrawn-failure. P and NC grades may be used for Student Teaching, Introduction to Classroom Experience, and certain designated courses. V grade is used for audited courses.

Incompletes

Special circumstances may warrant the use of the temporary mark "X" (incomplete) to indicate that the student is doing passing work in the course but has been unable to complete a minor but essential requirement of the course because of factors beyond his control. An incomplete is given at the end of the quarter only when the student has been in attendance and done satisfactory work to a time within three weeks of the close of the quarter (meaning the end of the final examination period, or within two weeks of the close of the summer session). It may not be given in the case of official withdrawal from the college unless the withdrawal occurs in the last two weeks of the quarter. If the final grade of "X" is given, the instructor shall indicate in writing on the grade report what the student must do to remove the deficiency.

Removal of Incompletes

An incomplete grade must be made up within one calendar year or it will remain incomplete. A student with an incomplete may enroll in the following section of a sequence course only with the consent of the instructor.

Repeated Courses

A student may repeat a course in which he received a grade of D, F, or WF in order to raise his grade point average, but may not repeat for additional grade points a course in which he received a grade higher than these. Credits and grade points earned in the first attempt will be forfeited, and only credits and grade points earned in the last attempt will be counted.

When registering for a course in which a D, F, or WF was received, the student must add an R following the credits, as 5R. This will enable the Registrar's office to check the repetition and the student will not be charged with attempting to receive credits to which he is not entitled, but any extra grade points earned will be allowed. Failure to register in this way may cost the student the extra grade points.

Students on probation are urged to repeat immediately all courses with F or D grades.

Grade Points

Grade point averages are computed on the basis of four grade points for each quarter hour credit of A; three for each quarter hour credit of B; two for each quarter hour credit of C; one for each quarter hour credit of D; and zero for each quarter hour credit of F or WF. The grade point average is the quotient of total grade points divided by the total quarter hour credits in which the grades A, B, C, D, F, and WF are received.

Grade points are not computed for grades P, NC, V, W, X, or for any grade earned in a correspondence course.

Prior to September, 1953, grade point averages were computed on the basis of three grade points for each quarter hour credit of A; two for each quarter hour credit of B; one for each quarter hour credit of C; zero for each quarter hour credit of D; and minus one for each quarter hour credit of F or WF.

HONOR ROLL STUDENTS

Quarterly Honor Roll

Undergraduate students whose grade point average for a given quarter is 3.25 or higher, based on at least 12 credits (credit—no-credit option coursework does not count toward this 12 credits) and who have a minimum 2.25 cumulative grade point average, will be placed on the Honor Roll for that quarter.

Graduation Honors

Seniors whose cumulative grade point averages are 3.75 and above are graduated with Highest Honors. Seniors whose cumulative grade point averages are 3.50 and above, but below 3.75 are graduated with High Honors. Seniors whose grade point averages are 3.25 and above, but below 3.50, are graduated with Honors.

THE HONORS PROGRAM

The Departmental Honors program of study is offered to juniors and seniors of unusual attainment as a reward for having demonstrated superior scholarship in their major subject and as an opportunity to do individual work of a high order under the personal direction of a professor teaching in the area of the student's interest.

In order to qualify for this distinction, a student is expected to meet the cumulative grade point average of his major subject area as determined by the department concerned in addition to that set by the College. He must decide upon a program of study approved by the chairman of the department and by a professor in the department who will contribute his time to supervise such study.

Specific procedures to be followed for enrolling in the

Departmental Honors program vary from department to department, and students who are interested in pursuing such a program are asked to consult with the department chairman during the last quarter of their sophomore year.

Pre-Professional Programs at EWSC

It is recommended that a student who plans to apply for admission to a school of medicine, dentistry, veterinary medicine, or pharmacy will consult bulletins and other information from the school of his choice and then plan his curriculum accordingly. The same holds true for students interested in such professions as osteopathy, optometry and podiatry. However, depending on the profession involved, EWSC is able to provide the student with as many as four years of suitable course work.

PREMEDICAL STUDIES:

The following suggestions are based on the undergraduate requirements for admission to the University of Washington School of Medicine, but it is believed that they correspond essentially with the requirements for entry to most of the other medical schools. It is not recommended that the prospective applicant for admission to medical school take a prescribed "pre-medical course," but by the time of admission he should have completed the following course work:

Biology, at least 12 credits

Chemistry, at least 18 credits

Physics, at least 12 credits

and have attained proficiency in English and basic mathematics.

The limited nature of these course requirements gives the student opportunity to develop a major or undergraduate study in the field of his special interest, in the humanities and social sciences as well as the natural sciences and mathematics. Under exceptional circumstances an applicant may be admitted to medical school after only three years of undergraduate study; however, a four-year degree is preferred.

On the basis of the foregoing remarks it is recommended that the pre-medical students at EWSC will as soon as practicable fulfill the prescribed course work and also will choose a major and proceed toward attainment of the bachelor's degree. Because of the nature of the prescribed courses, the major for most students will be Biology, Chemistry or Mathematics, but a major in some other field may be acceptable. All applicants to medical school must have taken the nation-wide Medical College Admission test. This consists of tests in verbal ability, quantitative ability, general information, and science, and should be taken by the end of the junior year.

PRE-DENTISTRY STUDIES

The Council on Dental Education of the American Dental Association has specified these minimum requirements for admission to an approved school of dentistry: "The successful completion of two full years of academic work in an accredited college of liberal arts

and sciences—the college course must include at least one year's credits in English, in Biology, in Physics, and in Inorganic Chemistry and a half-year's credit in Organic Chemistry." The University of Washington School of Dentistry now requires for admission also one course each in Microbiology (Bacteriology) and Biochemistry and at least three years of study at the college level. Actually most students admitted to the U. of W. School of Dentistry have completed four years of college study.

The pre-dentistry student at EWSC is therefore advised to fulfill the course work described in the foregoing and also to choose a major and work toward attainment of the bachelor's degree. Because of the nature of the required courses, most students will elect a major in Biology or Chemistry; but majors in other areas may be acceptable. The applicant to dental school must take the nation-wide Dental Admission Test. This test includes five examinations, these being in manual dexterity, reading comprehension, space relations, verbal and quantitative ability, and natural sciences. It is advisable to take this test by the end of the junior year.

PRE-VETERINARY STUDIES

In exceptional instances a candidate may be accepted into a school of veterinary medicine after two years of college course work, but the chances for acceptance are greatly improved by attainment of the bachelor's degree before the time of intended entrance into the veterinary school. Therefore, the EWSC student with interest in veterinary medicine is advised to elect a major in either Biology or Chemistry and plan his course work schedule accordingly.

PRE-PHARMACY PROGRAM

Schools of pharmacy offer the bachelor's degree requiring usually four years of rather highly specialized course work, three years of which must be taken at the school of pharmacy. The EWSC student interested in pharmacy should plan to transfer as soon as practicable to a college or university offering the pharmacy degree. However, while enrolled at EWSC the student will be most benefitted by planning his course schedule as if he were electing the major in Biology or Chemistry.

Transcript of Credits

Official transcripts of credits will be issued in reasonable quantity by the Registrar's office free of charge.

Holds on permanent records involving debts to the College must be cleared by the student before transcripts will be released.

Final Examinations

Final examinations are given at the end of each quarter. The examination schedules will be found in the "Final Announcement of Courses." Final examinations must be taken during the dates and hours established in the examination schedule.

Major-Minor Forms

A student is required to have a major-minor form for his major and each of his minors on file in the Registrar's

office during the quarter in which he earns 135 quarter hour credits. These forms may be obtained at the Registrar's office.

The department chairman is responsible for approving substitutions in a major and-or minor within his own department.

It is strongly recommended that a student file the application for graduation form at the beginning of his senior year. This early filing will enable the student to adjust his program should changes be required. The Bachelor's Degree Fee (graduation fee) is due at the time application is made, see page 21.

Clearances for Admission to Professional Degree Candidacy (B.A. in Ed.)

English—8 hours of C or higher

Mathematics—C or higher in a college mathematics class or successful completion of mathematics clearance test.

Speech competency—grade of C or higher in an approved college Speech Communication course or successful completion of the speech communication competency SpC 100 (C/NC)

Transfer students with an approved speech course on their transcript may receive speech clearance by personal interview at Speech department.

Academic Standards for Undergraduate Students

Rule 1. Any freshman student whose current grade point average for any quarter falls below 1.75 (C-) will be placed on probation.

Rule 2. Any sophomore student whose current grade point average falls below 2.00 (C) will be placed on probation.

Rule 3. Any freshman or sophomore student whose transcript shows two probational quarters will be dropped from the College.

Rule 4. Any undergraduate student whose transcript shows 90 or more quarter credits and whose cumulative grade point average is below 2.00 (C) will be dropped from the College.

Rule 5. Any student whose current grade point average falls below 1.00 (D) will be dropped from the College.

Rule 6. Any undergraduate student who is placed on probation or dropped from the College for academic deficiencies will be notified by the Registrar's office and will be given an opportunity to appeal.

Academic Standards for Post-Baccalaureate Students

1. Students who hold a bachelor's degree from an accredited college or university are eligible to enroll in this institution unless grades earned in subsequent graduate study are below the 2.00 (C) average.

2. Any post-baccalaureate student whose current grade point average falls below 2.00 (C) is subject to being dropped from the College.

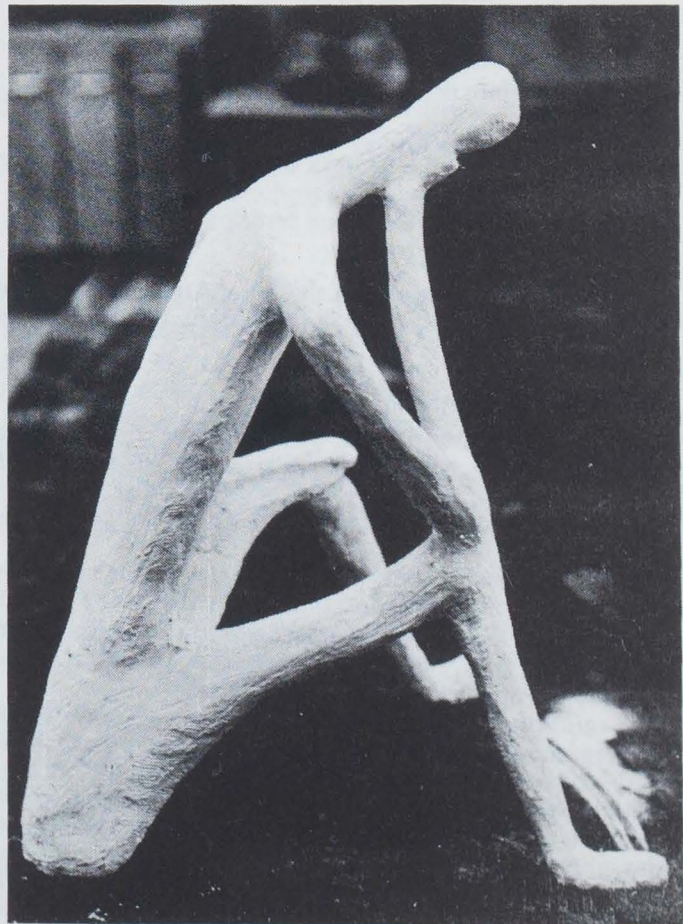
3. The Registrar's office will forward to the Graduate Study office, at the end of each quarter, the transcripts of all post-baccalaureate students whose current grade point average is below 2.00 (C). Graduate students who are dropped will be so notified by the Graduate Study office.

4. Any post-baccalaureate student who is dropped from the College for academic reasons may appeal to the Graduate Council for reinstatement.
5. Regulations governing those involved in master's degree programs are stated separately in the Graduate Bulletin.

CURRICULA OUTLINED

All candidates for the baccalaureate degree from Eastern Washington State College, except those enrolled in special programs, must meet the following requirements:

General Education. Social Science, Humanities, Natural Science and Mathematics are areas for general education requirements. The student will elect 20 credits in one area, 20 more credits in another area, and 15 additional credits in a third area. No student may apply more than 10 credits taken in any one department toward fulfillment of General Education requirements, and no course offered by a department in which a student majors can be used by that student toward fulfillment of General Education requirements. Supporting courses taken outside a student's major department may, however, be applied toward these requirements.



STUDENT SCULPTURE

Psycho-motor (Experiencial) and Services Option.

At the option of the student, one of the two 20-hour areas may be reduced by up to 5 credits upon completion of a similar number of credits from within a fourth area of approved experiences or services.

English Composition. Demonstration of competence in English composition is required of all baccalaureate degree students. The requirement may be satisfied by earning a grade of A in English 101, or a grade of C or better in a 200-level composition course or equivalent. Students who earn a grade below C in the 200-level course in writing must take another 200-level or a 300-level course in writing and earn a grade of C or better to satisfy the requirement.

Students scoring below the 75th percentile in the composite English section of the Washington Pre-College Test will be advised to begin their writing experience at the 100-level. A person with a score of 75 or better will be advised into English 101 or into one of the 200-level courses in writing or an equivalent writing experience. In special cases, transfer students or students with demonstrated high ability may (in consultation with the Admissions Office and the English Department) be placed differently and in exceptional cases be exempted from writing courses.

Usually these requirements will be met as follows:

Humanities	15 or 20
Science and Mathematics	15 or 20
Social Sciences	15 or 20
Total for Three Areas	55
English Composition	8 Max.
	55-63 credits

The student is referred to the **Final Announcement of Courses** for specific courses that may be applied to these requirements.

Residence Requirement

No student may earn a baccalaureate degree from Eastern Washington State College with less than 45 quarter hours in residence. The student must spend his final quarter prior to graduation in residence at this College.

Extension and correspondence courses and credit by examination may not be counted as residence credit.

Residence credit will be recorded for all credit earned in regular courses taught by assigned faculty on the Cheney campus of EWSC.

In addition, residence credit may be recorded for undergraduate courses taught off campus when these courses have the approval of the Undergraduate Affairs Council and Dean of Undergraduate Studies, and when they are taught by faculty who have been approved by the appropriate department chairman, division dean, and the Dean of Undergraduate Studies. Such off-campus courses for residence credit should be characterized by two things:

1. The "outreach" of course work and faculty of quality wholly comparable to that on campus.
2. Circumstances which make the off-campus site of the course work either a sine qua non or a distinct asset to both teaching and learning.

Economic advantage to or personal convenience of students or faculty will not be considered in the approval of such credit.

Credit Requirement

A minimum of 180 quarter hours of credit are required for graduation. At least 50 of these must be in upper division courses.

Military Credit

Eastern Washington State College grants credit for military technical, leadership, or other specialized military training based on recommendations in the American Council of Education's **Guide to the Evaluation of Educational Experiences in the Armed Services**. Such credit usually will be considered as elective credit. The College also grants credit for satisfactory grades in USAFI group study and credit by exam as well as USAFI correspondence courses.

Grade Point Requirement

A student must have a 2.00 grade point average in his major and a 2.00 cumulative average for graduation.

Limitation of Correspondence and Extension Credit

A maximum of forty-five quarter credits earned in extension and/or correspondence courses may be counted toward the bachelor's degree.

Catalog Option

A student shall satisfy degree and course requirements except as modified below, as outlined in the Eastern Washington State College general catalog in effect at the time he first enrolled as a full-time student at Eastern Washington State College or any accredited community college in the state of Washington provided he does not interrupt his studies (summer quarter excepted). Once a student interrupts his program he will be required to satisfy the remainder of the degree requirements as outlined in the general catalog in effect at the time he re-enrolls as a full-time student. Requirements for his major and/or minor will be taken as recommended by the chairman of the department concerned.

A student also has the option of fulfilling the graduation requirements of the catalog in effect the year in which he graduates.

- I. Students entering EWSC in the Fall Quarter of 1972 and thereafter will adhere to the new graduation requirements listed at the start of this chapter.
- II. Action by the Undergraduate Affairs Council, the Academic Senate and the Board of Trustees is interpreted as making the following changes for **all students**:
 - a) The minimum number of credit hours required for graduation is 180.
 - b) Physical education is not **required** under either option. However, it may be used to meet graduation requirements within the new regulations.

III. Students currently enrolled as well as those entering Winter and Spring Quarters, 1972, may choose either the new or the old requirements. However, they may not choose a part of one set of requirements and the remainder from the other set.

Application for Graduation

Students who intend to graduate from EWSC must apply for graduation in the office of the Registrar not less than two quarters before completion of degree requirements. The following records must be on file:

1. Application for Graduation
2. Graduation Card. (For Alumni records.)
3. Major-Minor Forms for each major and minor. Students are expected to have these filed in the Registrar's Office during the quarter in which the student earns 135 quarter credits. These forms may be obtained at the Registrar's Office. The student's adviser is responsible for approving the major and-or minors. Department chairmen are responsible for approving substitutions in a major within their own departments.

4. Graduation Schedule.

A graduation fee of \$10.00 must be paid at the Cashier's office at the time application is made. Candidates for the Teaching Certificate must pay an additional fee of \$1.00. (See Fees and Expenses, Page 7.)

The Application, Graduation Card, and Major-Minor Forms are secured at the Registrar's Office.

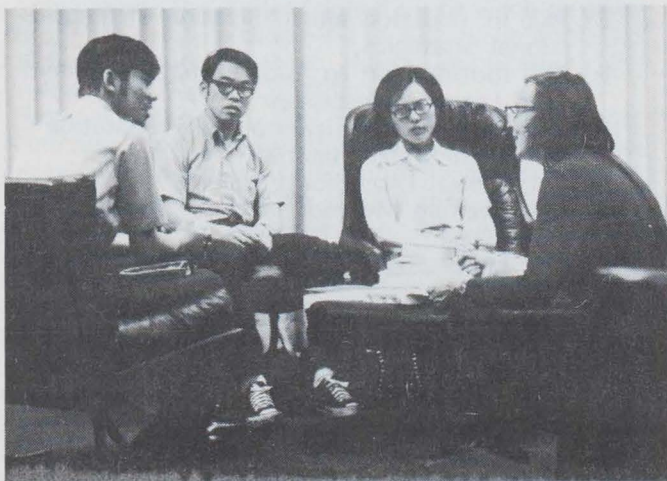
Program of General Studies

Certain students may prefer to earn a Bachelor of Arts degree through the Program of General Studies without meeting the conventional requirements for a major and minor. See page 26 for full details of this opportunity.

Second Baccalaureate Degree

Eastern offers three baccalaureate degrees: Bachelor of Science, Bachelor of Arts, and Bachelor of Arts in Education.

Students who wish to earn two baccalaureate degrees concurrently or subsequently earn a second baccalaureate degree may do so by fully completing requirements for each degree sought, providing those degrees represent completion of programs of distinctly different natures.



ENGLISH SEMINAR

SPECIFIC REQUIREMENTS FOR BACHELOR OF ARTS DEGREE

A student may earn a 60-credit major or a 45-credit major and a 15-credit minor under the Bachelor of Arts program. Actual number of credits in each case may vary with the department program.

Majors and minors are offered in the following areas. A capital "M" indicates a major is offered, and small "m" indicates a minor is offered.

M Accounting	M m Journalism
M m Anthropology	M Management
M m Art	M Marketing
M m Biology	M m Mathematics
M Business Administration	M m Military Science
M m Chemistry	M m Music
M m Drama	M Office Administration
M m Economics	M m Philosophy
M m English	M Physical Education
M Finance	M m Physics
Foreign Area Studies (see page 25)	M m Political Science
M m French	M m Psychology
M General Studies	M m Radio-Television
M m Geography	M m Recreation
M m Geology	M m Russian
M m German	M m Social Work
M m History	M m Sociology
M m Home Economics	M m Spanish
M Humanities	M m Speech
M m Industrial Education and Technology	M Speech Correction
	M Urban & Region Planning

Supporting Courses: up to 30 credits
Credits depend on major selected.

Free Electives: up to 90 credits
Credits depend on choice of general college requirements and required supporting courses.

SPECIFIC REQUIREMENTS FOR BACHELOR OF ARTS IN EDUCATION DEGREE:

Elementary 58-74
Secondary 42-54

Special Requirements: 1-4 credits

English clearance for admission to professional degree candidacy	0
Speech Communication Competency	1-4
Mathematics clearance	0
	1-4 credits

Professional Education Requirements: 32-35 credits

Required Core (both elementary and secondary)	
Ed. 201, Introduction to Education	3
Ed. 300, Introduction to Classroom Experience	1-4
Psy 302, Educational Psychology	5
Ed 303, Evaluation in Education	5
Ed 420, Admission to Professional Degree Candidacy (prerequisite to Student Teaching)	2
Ed 421-427, Student Teaching	16
	32-35 credits

Elementary Teaching Emphasis: Grades K-6,
25-35 credits

Ed 304, Reading in the Elementary School . . .	3
Ed 305, Language Arts in the Elementary School	3
Ed 405, Social Studies and Science in the Elementary School	4
	10

credits

In addition to the courses listed above the student will select 5 courses from lists A and B (below). After consultation with the student's adviser, three courses will be selected from one list and two courses from the other.

Courses selected from List A must be different from those used in majors or minors.

List A

- Ed 362, Introduction to Utilization of Instructional Strategies
- Ed 462, Introduction to Audiovisual Equipment and Learning Resources
- Ed 463, Theory of Utilization and Preparation of Instructional Materials
- Ed 471, School Discipline Problems
- Ed 474, Elementary School Guidance
- Ed 479, Education in the Kindergarten
- Ed 480, Educ. in Kindergarten Workshop
- Ed 483, Workshop in Reading
- Ed 490, Reading in the Elementary School
- Ed 493, Reporting Pupil Progress
- Ed 494, Remedial Reading
- Ed 406, Senior Seminar

List B

- Art 390, Art in the Elementary School
- HEc 362, Nutrition in Elementary School
- IT 475, Industrial Arts for Elementary Teachers
- Mth 390, Methods of Teaching Elementary School Mathematics
- Mth 391, Methods of Teaching Middle School Mathematics



SELF-TUTORING LAB

- PE 390, Health and Physical Education in the Elementary School*
 - Mus 490, Music for the Elementary Classroom Teacher
 - NSc 490, Natural Science in the Public School
 - GFL 388, Foreign Language in Elementary School
- * PE major and minors should take PE 366

Elementary majors and minors—grades K-6

A major (M) (usually 30-40 credits) and a minor (m) (usually 15 credits) are to be chosen from the areas listed below.

Minors are to be selected outside the area of concentration. For those majoring in art, a foreign language, music, or physical education, the minor is to be chosen from English, geography, history, math, a natural science, library science, or reading.

M m Art	M m Physical Education
m Biology	m Physics
m Chemistry	M m Psychology
M m English	m Reading
M m French	M m Russian
m Geology	M m Social Sciences*
M m German	m Earth Sciences
M m Health Education	m Geography
m Library Science	m History
M m Mathematics	M m Spanish
M m Music	M m Speech
M Natural Sciences	M Speech Correction** (K-12)

* Anyone majoring in any of the Social Sciences must complete History 460

** Secondary Education Requirements

Secondary Teaching Emphasis: Grades 7-12, 9-15 credits

Pre-student teaching procedures course in one of the subject matter areas, or substitute course approved by the Education Department. 3-5

The student will select two courses from the following list.

Courses are not to be selected from the major or minor areas.

- Ed 406, Senior Seminar
- Ed 416, Safety Education
- Ed 430, Driver and Traffic Safety Education
- Ed 362, Introduction and Utilization of Instructional Strategies
- Ed 462, Introduction to Audio-visual Equipment and Learning Resources
- Ed 463, Theory of Utilization and Preparation of Instructional Materials
- Ed 471, School Discipline Problems
- Ed 491, Reading Methods in High School and College
- Ed 492, Junior High Social Studies—Language Arts Block
- HE 411, First Aid Instructors Course
- IT 350, Diversified Crafts for Recreation and Therapy
- Art 200, Introduction to Art
- PE 280, Coaching of Individual Sports
- Bus 423, Business and Society
- Mus 200, Introduction to Music

Secondary Teaching Emphasis—grades 7-12

A major of approximately 60 credits, or a major of approximately 45 credits and a minor (usually 15 credits), are to be chosen from the areas listed below.

M m Art	M m Mathematics
M m Biology	M m Music
M m Business Education	M Office Administration
M m Chemistry	M m Physical Education
M m Drama	M m Physics
M Distributive Education	M m Psychology
m Driver and Traffic Safety Education	m Radio-Television
M Earth Sciences	M m Russian
M m English	M m Social Sciences*
Foreign Area Studies (see page 25)	M m Anthropology
M m French	m Earth Sciences
M m German	M m Economics
M m Health Education	M m Geography
M m Home Economics (Non-Vocational)	M m History
M m Industrial Education and Technology	M m Political Science
m Journalism	M m Sociology
m Library Science	M m Spanish
	M m Speech
	M Speech
	Correction* *
	(K-12)

* Anyone majoring or minoring in any of the Social Sciences must complete History 460

* * Students in this major program should take secondary education requirements

Fifth Year

Fifth Year courses will be prescribed as the needs of the individual students would warrant. In addition, students must take one of the following foundation courses: * Ed 475, Ed 501, Ed 502, Ed 503, Ed 504, Ed 505, Ed 506.

* This requirement may be satisfied by completing Ed 475 prior to graduation.

History 460, History of the Government of the Pacific Northwest, will be required for anyone planning to teach intermediate grades, (4,5,6).

ADMISSION TO PROFESSIONAL DEGREE CANDIDACY

1. Application: The student preparing to teach must be enrolled in or have completed Ed 303 and an approved methods course before filing application for Professional Degree Candidacy.
2. Personal Interview: The Director of Professional Admissions will schedule the applicant for a personal interview with a committee, normally consisting of at least one member of the faculty from the student's major department and one from the Department of Education. Other members may be appointed by the Director. Students should have their application filed by the end of the first week of the quarter in which the interview is to be requested.
3. The following must be satisfied before an interview will be scheduled:
 - a. Ed 201—Completed
 - b. Ed 300—Completed
 - c.* Psy 302—Completed with grade of C or better

- d. Enrollment in or completion of Ed 303—with grade of C or better
- e. Ed 420—Student may enroll in any quarter he desires. Student may apply for Professional Admission at a later date.

f. * * Clearances

English—8 hours of C or higher

Math—C or higher in a college math class or successful completion of math clearance test.

Speech competency—grade of C or higher in an approved college Speech Communication course or successful completion of the speech communication competency SpC 100 (C/NC). Transfer students with an approved speech course on their transcript may receive speech clearance by personal interview at Speech Department.

g. Physical health and vigor

h. Professional promise—letters of recommendation must be on file.

i. Student must have completed 20 hours in his major with a GPA of 2.25 and at least 20 hours in general education requirements with a GPA of 2.00.

j. Enrollment in or completion of an approved methods course (with grade C or better) Ed 304 and 305 for elementary candidates.

* If a student has had no background in psychology, he is advised to take Psy 101 prior to taking Psy 302.

* * It is recommended that all clearances be completed before the Junior year.

Professional Folder: The Education Department office will maintain a professional folder for each student until the standard certificate is granted.

Student Teaching (Ed 421-427)

Student teaching is one of the most important parts of the teacher preparation program. Its purpose is to provide direct experience with children. Students have the opportunity during this quarter to observe teachers, to plan and teach under selected supervising teachers, and to understand and participate in the total school program.

In order to qualify for a teaching certificate, students are normally required to earn 16 credits while in student teaching. Student teaching is a full day's work for one quarter and is considered a full student load. No additional credits may be earned during this quarter without written consent of the Director of Laboratory Experiences. Student teaching is done in one of the centers established in cooperation with various school districts in Eastern Washington. Students will be notified by letter of their assignments.

Before the student may begin his student teaching assignment he must:

1. Be admitted to Professional Degree Candidacy.
2. In the major field, have completed 30 hours for the secondary or 20 hours for the elementary, with a cumulative grade point average of 2.25 or higher.
3. Satisfactorily complete at least half of the general education requirements, with a 2.0 or better.
4. Have an interview with the designated college supervisor.
5. Receive a validation card from the Director before registering for student teaching. This card will be

given when all prerequisites for student teaching have been met.

6. Show evidence of sufficient liability and health insurance as stipulated by the Director of Student Teaching.
7. Comply with the State of Washington health requirements for teachers.
8. Education 303 must be completed prior to beginning Student Teaching.
9. Completion of designated methods courses.

Application for student teaching is not a substitute for college registration. Students must register and pay fees prior to the beginning of student teaching.

Student teacher applicants not meeting deadlines will be considered as openings become available.

Teaching Certification.

The State of Washington certifies its teachers with the following basic teaching certificates:

The Provisional Certificate. A U.S. citizen who has completed the requirements for the bachelor of arts in education degree is entitled to the provisional certificate upon the recommendation of the College. A student who graduates with a bachelor of arts degree and completes the additional requirements listed under the bachelor of arts in education degree, including an acceptable teaching major, may also be recommended for a provisional certificate. This certificate is a license to teach in the public schools of the State of Washington. The institution recommends the grade level and the subject matter area in which the student is best prepared to teach. The certificate is valid for three years and may be renewed for three more years on the completion of 12 quarter hours taken after the granting of the provisional certificate and one year of successful teaching. By the time the teacher begins the seventh year of teaching, the fifth college year must be completed.

The Standard Certificate. This certificate is granted to those teachers who have met the requirements for the provisional certificate, have had two years of successful teaching, and have completed a fifth college year. A maximum of 15 hours of excess credits at time of graduation will count toward the fifth year. By consent of the College Certification Officer an additional 15 hours taken after graduation but prior to the first year of teaching may count toward the fifth year. In all cases 15 of the 45 hours of work must be taken after the first year of teaching has been completed.

The State Board of Education regulations for the fifth year are as follows:

1. One-half of the fifth year must be taken in residence at one institution;
2. One-half of the hours must be upper division or graduate study;
3. A maximum of 12 quarter hours may be completed through correspondence and/or extension;
4. The work must be in both academic and professional fields;
5. The program for any one student shall be designed to promote the professional growth of the individual and shall be jointly planned by the teacher, the employing school district, and the recommending institution.

The standard certificate is valid as long as the holder

remains in the teaching profession and for five years thereafter.

NOTE: All students seeking a teaching certificate should obtain an application in the Certification office prior to paying graduation fees. This application should be returned early during the quarter in which the student will complete the program.

All students must complete at least 23 quarter credits in residence at Eastern Washington State College to receive the College's recommendation for the standard certificate.

Requirements for Principal's Credentials are described in the Graduate Bulletin.

SPECIFIC REQUIREMENTS FOR BACHELOR OF SCIENCE DEGREE

The purpose of the Bachelor of Science degree is to provide the student with a professionally oriented program along with elements of a liberal education. The intent of the program is to provide a background of principles and concepts by which an individual may make judgments to solve the problems of the future. This type of preparation must involve the synthesis of knowledge from a number of different fields into a particular specialization.

The following are the guidelines of distribution of credits for the Bachelor of Science degree:

Major	60 credits maximum
Supporting areas	45 credits maximum
Electives	23-28
General College Req.	55-63
Total	183-196 credits

The major is designed to provide a sound theoretical base, adequate specialization, and opportunity for professional experiences. At least 50 per cent of the 60 credits are to be upper division courses, 9 credits of which, as a minimum, are to be at the 400 level. Provisions for electives in the major will be made to allow the student to focus on his specific needs.

Supporting courses are to be selected from at least two different departments so as to develop and balance the student's program in related areas. Courses are to be those normally thought of as from basic liberal arts and/or science areas.

Electives must be the student's choice.

General College Requirements are those as presently constituted or as may be constituted in the future.

The following departments and programs offer majors under the Bachelor of Science Degree program:

M	Biology	M	Geology
M	m Chemistry	M	Industrial Technology
M	Dental Hygiene	M	Nursing

THE GRADUATE STUDY PROGRAM

Eastern Washington State College grants three types of master's degrees: Master of Arts, Master of Education, and Master of Science. Master of Arts degrees are offered in Community College Teaching, English, Foreign Languages, History, and Music. The Master of Science is available in Biology, Business Administration, Chemistry, Community College Teaching, Geology, Mathematics, Psychology, and Speech Pathology. Master of Education degree programs include a variety

of specialties in both subject matter concentrations and professional education. For further information consult the Graduate Bulletin or write the Dean of Graduate Studies.

GRADUATE GUIDANCE EXAMINATIONS

Graduate students intending to work for master's degrees should write the graduate guidance examinations no later than the first quarter of attendance. All students seeking the master's degree must write the Area tests. Those students who have not met admission requirements with their undergraduate grade point average are required to take the Graduate Record Aptitude test. In addition, advanced tests in specialized areas are required as follows:

M.A. in English

A departmentally administered qualifying test in English and a foreign language examination administered in February. The qualifying examination is offered the sixth Tuesday of each quarter. Registration in the department office is required.

M.A. in Foreign Languages

Departmental interview

M.A. in History

The Graduate Record Advanced History test.

M.A. in Music

A departmentally administered qualifying test in music. The Vocal Performance option requires a departmentally administered foreign language diction examination.

M.Ed., All options

The Graduate Record Advanced Education test.

M.S. in Biology

The Graduate Record Advanced Biology test.

M.S. in Business Administration

M.S. in Chemistry

Departmentally administered tests in chemistry.

M.S. in Geology

Graduate Record Advanced Geology test.

M.S. in Mathematics

The Graduate Record Advanced Mathematics test.

M.S. in Psychology

The Graduate Record Advanced Psychology test.

M.S. in Speech Pathology

Departmental interview.

EXAMINATIONS

Eastern is a national testing center (number 9406-0). Testing dates are established by Educational Testing Service. Students needing to take Graduate Record Examinations will be required to register at least four weeks prior to the date of test administration. Registration materials may be obtained from the Graduate Studies Office. At the time of registration students will pay a fee of \$8.00 for the aptitude test, or a fee of \$17.00 for the aptitude and advanced tests.

GRE test administrations at Eastern are set for June 17 and December 9, 1972, and June 16, 1973. Whitworth College and Gonzaga University, both located in nearby Spokane, are also national testing centers. Test dates at

these institutions are coordinated with Eastern's so that students have the opportunity to take the examinations several times during the year.

Eastern will continue to offer the Area tests at no charge each quarter. The Area tests will be offered on April 15, June 16, and December 8, 1972 and February 23, April 14 and June 15, 1973.

GRADUATE FELLOWSHIPS

Graduate fellowships are available for qualified students in residence throughout the academic year. Duties assigned graduate fellows involve 10 to 20 hours work per week in tasks selected to enhance the student's scholarship capabilities. Graduate fellows assist the instructional staff or college administrative officers. Special seminars in teaching are provided for fellows with teaching responsibilities. Stipends range upwards to \$2,700 per academic year depending on the work assignment. Applications for fellowships and further information may be obtained from the Dean of Graduate Studies. Applications should be submitted by March 1, prior to the academic year for which the fellowship is desired.

FOREIGN STUDY

Two programs permit students to take full advantage of foreign study opportunities:

1. Certain courses are offered as a regular part of the College program in centers located in other countries. Eastern Washington State College is a member of two consortia sponsoring academic programs in foreign countries.
 - (a) In cooperation with the Northwest Interinstitutional Council on Study Abroad, programs are held in London, Avignon, Paris and Stockholm. Professors and students from state colleges and universities in Idaho, Oregon and Washington may participate in the language and liberal arts programs.
 - (b) Two Washington State Colleges—Central Washington State College and Eastern Washington State College cooperatively offer an academic year in Mexico.
2. Independent and/or directed study, Foreign Study 400, is possible as follows for an undergraduate who has completed 90 credits, 30 of which have been taken at Eastern.

On the recommendation of the department concerned, a student may receive credit (4 to 16 quarter hours) for Foreign Study 400 when assurance is given of proper direction and supervision and when departmental requirements are met. The student must have a 2.50 grade point average and must be fully approved for the project by the department concerned prior to registration. The department will coordinate any such projects with its division dean and the deans of undergraduate or graduate studies, as appropriate.

This procedure is in addition to foreign study in a recognized institution of higher learning in another country for which valid credentials are furnished upon which an evaluation of credit may be made.

For further information contact the Dean of Continuing Education.

GENERAL STUDIES

The General Studies program provides for programs in Black Studies and Indian Studies and, in addition, the College offers a general B.A. degree to serve the following:

Category A—Students who prefer a broad liberal arts or inter-disciplinary major or

Category B—Students who may have acquired specialized training beyond a secondary education (such as in a two-year institution) and wish to complete a baccalaureate degree.

In addition, the College offers, under the General Studies Program, experimental, inter-disciplinary courses, the titles and availability of which are listed in the Final Announcement of Courses each quarter.

BLACK STUDIES

Charles B. Minor, Acting Director

The General Studies Program provides for a major in Black Studies. In addition to general college requirements, the Bachelor of Arts degree in general studies with this major requires that the student complete 15 credits of upper-division work in the following:

History and Social Sciences 15

Language and Literature 15
and not less than 20 additional upper division credits from one or more areas other than the two above. Courses in each area should be chosen from the lists below. Other courses will be added. See note below lists.

Social Sciences: 15 credits

His 249 Black American History	4
His 250 Black American History	4
His 375 African History	4
Ant 342 Primitive Societies	5
Ant 345 Physical Anthropology	5
Ant 443 Ethnology of Africa	5
Soc 320 Discrimination and Prejudice	4
Soc 351 Social Stratification	5

Language and Literature: 15 credits

Eng 280 Introduction to Black Literature	4
Eng 380 Contemporary American Black	4
Literature	4
Eng 381 West African Literature in English	4
Hum 214 Black Culture	4
Hum 314 Philosophies Men Live By	5

Other Areas: 20 credits

Art 410 Primitive Art	5
Art 415 The History of Ancient Art	5
Art 430 Contemporary Art Movements	5
Cgr 360 Human Geography	5
Cgr 434 Africa	3
Mus 350, 351 352 Music History	3 ea.

Students concerned about a Black Studies major or Black Studies courses should consult the Acting Director of Black Studies. Other courses can be applied to this major with approval of the student's adviser.

INDIAN EDUCATION PROGRAM

Henry J. SiJohn, Director

Courses listed below are not exclusive of those which might be used to construct a course of study in the cultural backgrounds of and contemporary issue of concern to the Native American. In addition, other courses are being developed. For further information contact the Central Advising office or the Director, Indian Education Program.

Ant 241 Cultural Anthropology (5)
Ant 342 Primitive Societies (5)
Ant 446 Indians of North America (5)
Ant 447 Archeology of North America (5)
Art 399 Special Studies in American Indian Art (1-5)
Eco 424 Economics of Poverty and Economic Security Programs (5)
Eco 478 Regional Economics (3)
Eco 479 Urban Economics (3)
Eng 498 The Fictionalized Indian (4)
His 485 Northwest American Indian History (4)
His 498 Problems and Sources in American Indian History (1-5)
His 499 Great American Indian Leaders (1-5)
Mus 335 Vocal Ensemble-American Indian Vocal Techniques
Mus 399 Music of the American Indian (1-3)
PSc 101 Political Life (5)
PSc 199 Contemporary Political Problems (1-5)
PSc 302 Civil Liberties (5)
Soc 320 Discrimination and Prejudice (4)
Soc 350 American Community Structure (5)

Program for Students in Category A

1. Regular Requirements. Other than the current requirements for majors and minors, all regular requirements for graduation would apply.
2. Work in Two Areas. In addition to general college requirements, the Bachelor of Arts degree in liberal arts would require that the student complete 15 credits of upper-division work in each of two of the following three categories:
 - a. History and Social Sciences
 - b. Science and Mathematics
 - c. Language and Literature
 and not less than 20 additional upper division credits from one or more areas other than the two selected above, usually other than technical and professional. Course offerings especially appropriate to the 20 hours selection are being developed under the designation General Studies.
3. Program directed and approved by the Director of General Advisory Program.

Program for Students in Category B

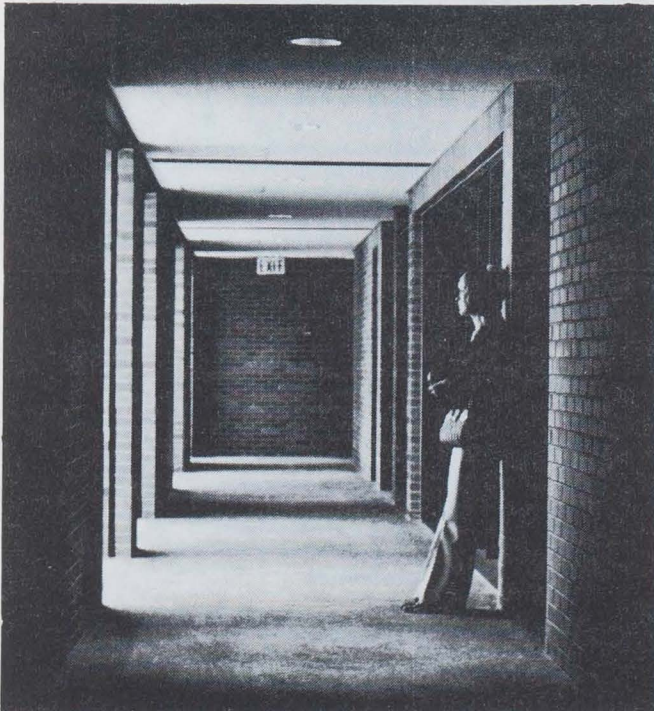
This program is designed for the student who comes to EWSC with specialized preparation and who is selected on the basis of a recommendation from the previous institution he attended or appropriate experience as evaluated by the department concerned, and, further, who ranks in the upper third of those taking the

Washington Pre-College Test or any similar test which predicts the expected performance of a student in college-level work.

1. General College Requirements. Completion of General College Requirements.
2. Regular Requirements. Other than the current requirements for majors and minors, all regular requirements for graduation would apply.
3. Program Approved By Advisory Committee. The Program of the student would be directed and approved by an advisory committee composed of a representative of the Office of General Academic Services, the Dean of Undergraduate Studies as chairman and a faculty member to be selected on the basis of the student's interest.

COURSE NUMBERING SYSTEM

- 100-199 Lower division, primarily for freshmen; may not be taken for graduate credit.
- 200-299 Lower division, primarily for sophomores; may not be taken for graduate credit.
- 300-399 Upper division, primarily for juniors, seniors, and graduate students.
- 400-499 Upper division, primarily for seniors and graduate students.
- 500-601 Graduate level, exclusively for graduate students.



RECEDING RECTANGLES

The course offerings of the College are listed alphabetically in the following pages by department, center or program. Course areas within a department are listed by title only, with a see-reference to the department in which those courses are found.

The majors, minors and required supporting courses listed by each department are basic requirements. Prerequisite courses are listed in the individual course description.

Course Descriptions

Title line of the individual course gives, in order: Program abbreviation, course number, title, credits in parentheses, prerequisites in brackets, and time indicators, following a dash. These last are used by relatively few courses which are offered only in alternate years or during specific quarters.

This is followed by the official course description.

Key to Prerequisite Abbreviations

Some courses have requirements which should be completed before enrolling. These prerequisites are shown in brackets following the course credits unless they do not lend themselves to clear abbreviations in which case the word "Below" refers the reader to prerequisites at the end of the description.

Course numbers without course abbreviations means courses from the same field.

Courses from other areas use the course abbreviation for the first listing in a series.

eq. means "or equivalent."

Conc. En. means that concurrent enrollment in the course(s) which follow will satisfy requirements.

2.00 means a cumulative grade point average of at least 2.00 is necessary to enroll.

A small "p" indicates permission of the instructor is needed.

A capital "P" indicates permission of the instructor and the department chairman is necessary to enroll.

A "pa" indicates permission of the adviser is necessary to enroll.

So, Jr, Sr, or G means Sophomore, Junior, Senior, or Graduate standing, respectively, must have been reached before enrolling in the course.

Maj. or Min. indicates the course is open only to majors or minors from that field.

Backgrd. means a suitable background in the major area is required.

Adv. means advanced standing is necessary.

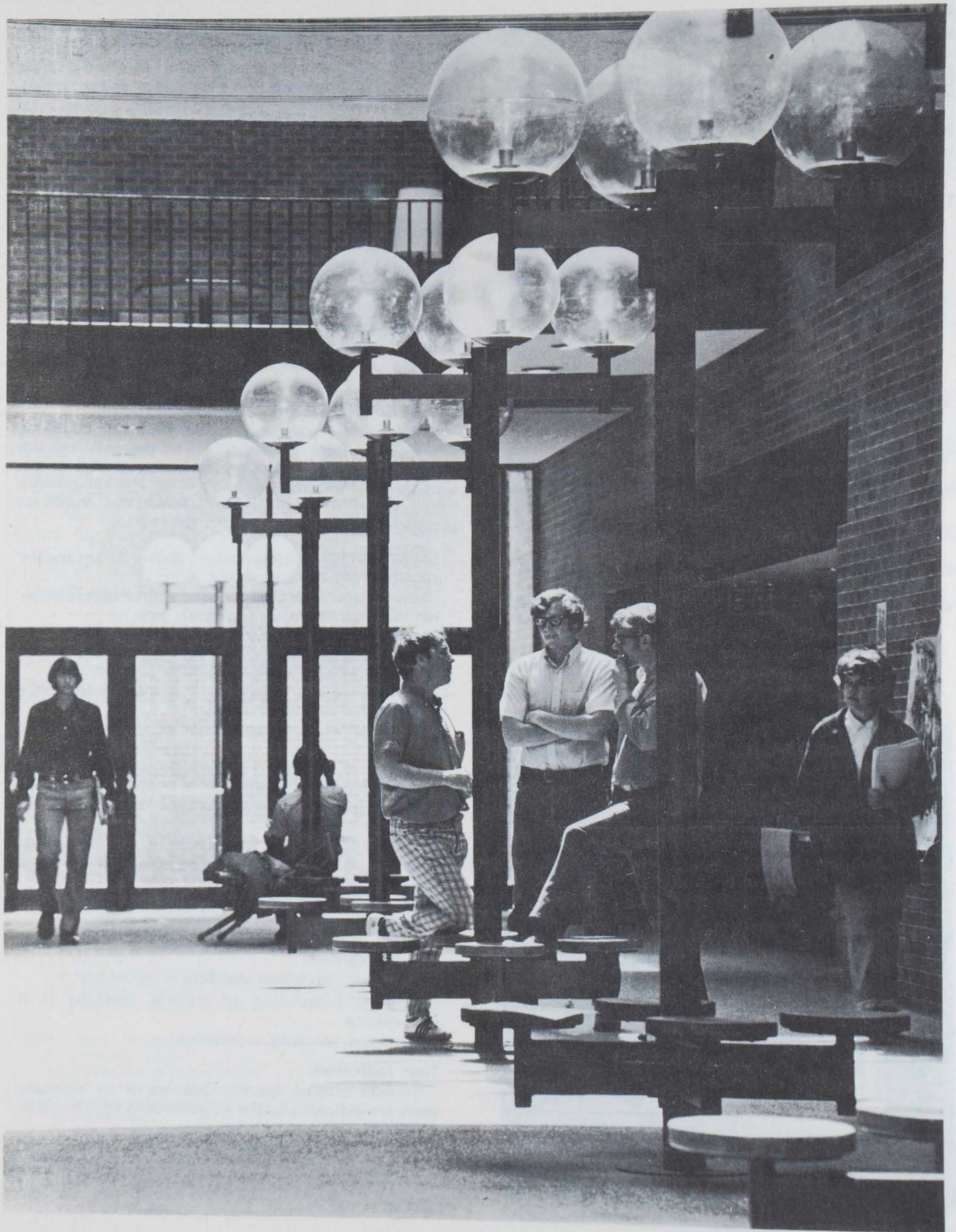
ST means completion of student teaching is a prerequisite.

Exp. means teaching experience.

Time indicators:

Courses offered specific quarters or in alternate years are indicated by the abbreviations which follow a dash.

Su means summer only. The series, a-y, e-y, o-y means alternate, even or odd years, respectively. e.g.; 1972-73 is an even year, regardless of the quarter.



Accounting & Quantitative Analysis
See Business

Anthropology
See Sociology

AREA STUDIES PROGRAM

David S. Bell, Jr., Coordinator

Eastern has developed an Area Studies program providing students with an opportunity to study one of the geographical and cultural areas of the contemporary world. Asia, Latin America, Soviet, European, and International Relations programs are currently offered.

Area studies programs typically focus on a geographical and cultural area rather than on a discipline and assume that the area can best be studied and understood on the basis of an integrated, cross-disciplinary, and whole cultural approach.

Area studies programs emphasize a cross-disciplinary approach to the study of areas and a concomitant emphasis is placed upon the mastery of one of the major indigenous languages. The cross-disciplinary approach is derived from the anthropological concept of culture as a predominantly interrelated, interdependent, or interactive system of attitudes, values, roles and institutions. Academically the area studies curriculum and patterns of instruction train the student to regard societies as cultural wholes, sensitize them to the interdependence of change in the various sectors of the culture, and provide them with the relevant type and spread of information about their areas of interest.

Students concerned with the problems of the international community are urged to enroll in the Area Studies Program. Knowledge developed in this program can provide the student with a wide range of career opportunities. Banking and business firms with foreign branches and interests, the numerous government agencies engaged in diplomatic, consular, research and intelligence activities, the institutions of higher education, and the public schools welcome students with professional competence.

As part of their academic experience, students may choose to select one of the three foreign study programs currently offered at EWSC (N.I.C.S.A., Mexico Program and the Spokane-Nishinomiya Sister City Program) to fulfill either the core or supporting course requirements in the relevant area programs.

Requirements

- A. Area Studies Students, like all other students, must satisfy the general requirements listed on page 19.
- B. Major in an academic area. Students should specialize in one of the following areas: Asia, Latin America, Soviet Union, European, and International Relations. A broad cross-disciplinary approach is required and will be worked out in consultations with the student's adviser.
- C. The students may also elect the General Studies Program, described on page 26.

Asia Studies Program: 32-36 credits

Language: Proficiency in the language can be satisfied by completing any 13 credit reading sequence, the

second year sequence or by examination in the Foreign Language Department 13

CORE: 19-23 credits

SSc 498 Area Studies Seminar 3
One course selected from four of the six disciplines:

- Anthropology
 - Ant 448 Peasant Societies 5
 - Ant 449 Major Civilizations of Asia 5
- Economics
 - Eco 470 International Economics 5
 - Eco 480 Economic Development 5
 - Eco 498 Seminar 3-5
- Geography
 - Ggr 360 Human Geography 5
 - Ggr 433 Geography of Asia 5
 - Ggr 459 Political Geography 3

- History
 - His 101 Introduction to Asian Civilization: China 5
 - His 102 Introduction to Asian Civilization: Japan 5
 - His 103 Introduction to Asian Civilization: India 5
 - His 358 Early Modern China 5
 - His 364 India to 1750 4
 - His 365 India since 1750 4
 - His 366 Southeast Asia 4
 - His 370 Asia and the West 4
 - His 467 Japan to the 17th Century 5
 - His 468 Japan since the 17th Century 5
 - His 480 19th and 20th Century China 5
 - His 481 Topics in Modern Chinese History 3
 - His 498 Seminar 5

- Humanities
 - Hum 315 Systems of East-West Philosophies and Religions 5

- Political Science
 - PSc 103 Introduction to Comparative Politics 5
 - PSc 309 Comparative Political Systems and Developmental Change 5
 - PSc 310 Comparative Foreign Policy 5
 - PSc 403 Topics in Comparative Political Systems 5
 - PSc 404 Topics in International Relations 5

16-20
32-36

Latin America Studies Program

- Required Courses: 34 credits
- Ggr 332 Latin America 5
 - His 315 Colonial Latin America 4
 - His 316 Republican Latin America 4
 - PSc 309 Comparative Political Systems and Developmental Change OR
 - PSc 403 Topics in Comparative Political Systems 5

Language: Proficiency in the language can be satisfied by completing any 13 credit reading sequence, the second year sequence or by examination in the Foreign Language Department 13
SSc 498 Area Studies Seminar 3
34

Supporting Courses

- Ant 442 Ethnology of Latin America 5
- Ant 448 Peasant Societies 5
- Ant 455 Archeology of Meso-America 5
- Eco 470 International Economics 5
- Eco 480 Economic Development 5
- Eco 482 Development in Latin America 5
- Ggr 250 Fundamentals of Economic Geography 3
- Ggr 459 Political Geography 3

30—AREA STUDIES

His 418 History of Mexico	4
His 419 Brazil and Spanish South America	4
His 465 Intellectual History of Latin America	4
PSc 103 Introduction to Comparative Politics	5
PSc 309 Comparative Political Systems and Developmental Change	5
PSc 310 Comparative Foreign Policy	5
PSc 403 Topics in Comparative Political Systems	5
PSc 404 Topics in International Relations	5
*Spn 346, 347, 348, 349 Spanish Literature in English	5 each
Advanced Spanish	10

*May be applied to requirement in Humanities.

Soviet Union Studies Program:

Required Courses: 36-37 credits	
Ggr 443 Soviet Union	3
His 338 Russia	4
His 339 The Soviet Union	4
PSc 309 Comparative Political Systems and Developmental Change OR	
PSc 403 Topics in Comparative Political Systems	5
Language: Proficiency in the language can be satisfied by completing any 13 credit reading sequence, the second year sequence or by examination in the Foreign Language Department	
SSc 498 Area Studies Seminar	3
PSc 310 Comparative Foreign Policy OR	
PSc 404 Topics in International Relations OR	
His 337 Russia to 1855 (4)	4-5
<u>36-37</u>	

Supporting Electives to choose from:

Ant 448 Peasant Societies	5
Eco 410 Economic History of Europe	5
Eco 470 International Economics	5
Eco 475 Capitalism and Socialism	5
Eco 498 Seminar in Economics	3
Ggr 250 Fundamentals of Economic Geography	3
Ggr 459 Political Geography	3
PSc 103 Introduction to Comparative Politics	5
PSc 310 Comparative Foreign Policy	5
PSc 404 Topics in International Relations	5
PSc 405 Topics in Policy and Society	5
His 440 Russian-Soviet History—Research Course	4
His 491 The Diplomatic History of Europe 1914 to present	4
*Rus 346, 347, 348, 349 Russian Literature in English	5 each
Advanced Russian	10

*May be applied to requirement in Humanities.

European Studies Program

Required Courses: 41 credits	
Eco 410 Economic History of Europe OR	
Eco 475 Capitalism and Socialism	5
His 340 Europe: 1815-1914	5
His 341 Europe: Since 1914	5
Ggr 435 Europe	5
Language: Proficiency in the language can be satisfied by completing any 13 credit reading sequence, the second year sequence or by examination in the Foreign Language Department	
PSc 310 Comparative Foreign Policy	5
SSc 498 Area Studies Seminar	3
<u>41</u>	

Supporting Courses

Ant 448 Peasant Societies	5
Eco 415 History of Economic Thought	5
Eco 470 International Economics	5
Ggr 250 Fundamentals of Economic Geography	3
Ggr 459 Political Geography	3
His 345 History of France to 1661	4
His 346 History of France Since 1661	4
His 420 French Revolution and Napoleon	4
His 461 European Cultural History 400-1789	3
His 462 European Cultural History Since 1789	3
His 490 Diplomatic History of Europe, 1815-1914	4
His 491 Diplomatic History of Europe, 1914 to present	4
Phl 312 History of Western Philosophy (Modern)	5
PSc 103 Introduction to Comparative Politics	5
PSc 310 Comparative Foreign Policy OR	
PSc 404 Topics in International Relations	5
*Ger 346, 347, 348, 349 German Literature in Translation	5 each
*Frn 346, 347, 348, 349 French Literature in Translation	5 each

*May be applied to requirement in Humanities.

International Relations Studies Program

Required Courses: 33-39 credits	
Eco 470 International Economics (5) OR	
Eco 480 Economic Development (5)	5
Language: Proficiency in the language can be satisfied by completing any 13 credit reading sequence, the second year sequence or by examination in the Foreign Language Department	
Ggr 250 Fundamentals of Economic Geography (3) OR	
Ggr 360 Human Geography (5)	3-5
His 370 Asia and the West (4) OR	
One of the following sequences:	
His 451 History of American Diplomacy to 1914 (4) and	
His 452 History of American Diplomacy from 1914 (4) OR	
His 490 Diplomatic History of Europe 1815-1914 (4) and	
His 491 Diplomatic History of Europe 1914 to Present (4)	4-8
PSc 103 Introduction to Comparative Politics (5) OR	
PSc 309 Comparative Political Systems and Developmental Change (5) OR	
PSc 310 Comparative Foreign Policy (5) OR	
PSc 311 International Community (5) OR	
PSc 404 Topics in International Relations	5
SSc 498 Area Studies Seminar	3
<u>33-39</u>	

Supporting Elective Courses

Bus 498 Seminar (International Business)	4
Eco 475 Capitalism and Socialism	5
Eco 480 Economic Development	5
Eco 498 Seminar	3-5
Ggr 460 Industrial Geography	3
Ggr 461 Commercial Geography	3
Ggr 498 Seminar	3



ART

W. Radford Thomas, Chairman

1971-72 Staff: Beal, Daugherty, Fleckenstein, Hamilton, Henry, Humes, Kran, McConeghey, Morrison, Sage.

The major responsibilities of the Art Department are to offer a liberal education in the visual arts and to service areas relative to general education (providing background information).

BACHELOR OF ARTS DEGREE

Major in Art: 70 credits

Art 107 Basic Design	5
Art 200 Introduction to Art	3
Art 300 Beginning Studio, Drawing	5
Art 300 Beginning Studio—At least one course from among the following: Painting, Watercolor, Printmaking	5
Art 300 Beginning Studio—At least two courses from the following: Ceramics, Sculpture, Applied Design, Jewelry	10
Art 400 Advanced Studio (minimum)	10
Art History—Select two courses from among the following: Art 410, 415, 417, 420, 430, 470	10
Art 475 Seminar	2
Other electives in Art	15
Hum 213 Art in Humanities	5
	<hr/> 70 credits

Minor in Art: 20-23 credits

Art 107 Basic Design	5
Art 200 Introduction to Art	3
Art 300 Beginning Studio (Drawing or Painting)	5
Art 300 Beginning Studio (Sculpture, Applied Design, Ceramics, Jewelry, or Art 450 Workshop)	2-5
Hum 213 Art in Humanities	5
	<hr/> 20-23 credits

BACHELOR OF ARTS IN EDUCATION DEGREE

Major in Art (Secondary): 59 credits

Art 107 Basic Design	5
Art 200 Introduction to Art	3
Art 300 Beginning Studio, Drawing	5
Art 300 Beginning Studio—At least one course from among the following: Painting, Watercolor, Printmaking	5
Art 300 Beginning Studio—At least two courses from among the following: Ceramics, Sculpture, Applied Design, Jewelry	10
Art 393 Art in the Secondary Schools	4
Art 400 Advanced Studio (minimum)	10
Art History—Select two courses from among the following: Art 410, 415, 417, 420, 430, 470	10
Art 475 Seminar	2
Hum 213 Art in Humanities	5
	<hr/> 59 credits

Major in Art (Elementary): 46 credits *

Art 107 Basic Design	5
Art 200 Introduction to Art	3
Art 300 Beginning Studio (Drawing)	5
Art 300 Beginning Studio—At least one course from each of the following groups:	
a. Painting, Watercolor, or Printmaking	5
b. Ceramics or Sculpture	5
c. Weaving, Interior Design, Applied Design, Graphic Display, or Textile Design	5
Art 390 Art in the Elementary School	3
Art 440 Children's Art Laboratory	3

Art 475 Seminar	2
Other electives in Art	5
Hum 213 Art in Humanities	5
	<hr/> 46 credits

* Elementary Art Majors are asked to take Ed 300 Introduction to Classroom Experience Fall Quarter prior to student teaching.

Minor in Art: 20-23 credit

Same as Minor in Art, B.A.

The following courses are listed by general interest area to help the student select the courses for his interests and needs. See the individual course listing for description and prerequisites.

Art Education Courses:

- Art 390 Art in the Elementary School (3)
- Art 393 Art in the Secondary School (3)
- Art 440 Children's Art Laboratory (3)
- Art 450 Workshop in Art (1-3)
- Art 475 Seminar in Art (2)
- Art 497 Creative Arts Summer Festival (1-4)
- Art 498 Creative Arts Summer Program Laboratory (1-3)
- Art 590 Supervision of Children's Art Laboratory (3)

Art History and Art Appreciation Courses:

- Art 200 Introduction to Art (3)
- Art 410 Primitive Art (5)
- Art 415 History of Ancient Art (5)
- Art 417 History of Medieval Art (5)
- Art 420 Renaissance Arts in Italy (5)
- Art 430 Contemporary Art Movements (5)
- Art 470 Art of the Orient (5)
- Art 472 Visual Theory (3)

Studio Art Courses:

- Art 107 Basic Design (5)
- Art 300 Beginning Studio (5)
- Art 303 Film Making (5)
- Art 306 Graphic Display (5)
- Art 307 Advanced Design (3)
- Art 367 Interior Design (5)
- Art 400 Advanced Studio (5)
- Art 401 Life Drawing (5)
- Art 402 Figure Painting (5)
- Art 467 Advanced Interior Design (5)

Courses for all areas:

- Art 399 Special Studies (1-5)
- Art 499 Directed Study (1-5)
- Art 530 Research in Art (1-5)
- Art 550 Seminar in Art (3)
- Art 596 College Teaching Internships (1-5)
- Art 599 Independent Study (1-5)
- Art 600 Thesis (3-9)

ART COURSES

ART 107 BASIC DESIGN (5)

Analytical design problems; investigating the various elements in both two and three dimensional space.

ART 200 INTRODUCTION TO ART (3)

A survey of various areas of art and contemporary living, including the knowledge of various media.

ART 300 BEGINNING STUDIO (5)

Applied design, ceramics, drawing, jewelry, painting, printmaking, sculpture, textile design, watercolor, weaving. Each may be taken for 5 credits.

ART 303 FILM MAKING (5)

A course in creative film making. Including a study of contemporary films for their aesthetic content. Students will complete a short film.

ART 306 GRAPHIC DISPLAY (5)

The development of lettering skills with pen and brush. Problems in basic layout as used in posters and bulletin boards.

ART 307 ADVANCED DESIGN (3)

Three-dimensional design problems.

ART 367 INTERIOR DESIGN (5)

Plastic elements as related to residential space and furnishings.

Art 390 ART IN THE ELEMENTARY SCHOOL (3) [Jr]

The study of children's development in visual expression; of teaching procedures and materials used in structuring children's art experiences and the development of skill in basic studio practices.

ART 393 ART IN THE SECONDARY SCHOOL (4) [Jr]

The meaning of art, the nature of pre-adolescent and adolescent art and materials and procedures as they apply to the structure of secondary school art. Required for Art majors (secondary emphasis) before student teaching.

ART 399 SPECIAL STUDIES (1-5)

Subjects vary according to faculty and student interest.

ART 400 ADVANCED STUDIO (5) [300, Collateral fld.]

Applied design, ceramics, drawing, jewelry, painting, print-making, sculpture, textile design, watercolor, weaving. Each may be taken for as many as 3 quarters.

ART 401 LIFE DRAWING (5) [300, Drawing]

Specialized study of the human form. Emphasis on analysis of human structure.

ART 402 FIGURE PAINTING (5) [300 — Painting or watercolor — 401]

Study of traditional and contemporary methods of painting the human figure. Concern for figure in the environment and figure as a separate entity.

ART 410 PRIMITIVE ART (5)

Survey of primitive art forms, including those of Pre-Columbian cultures, those of the Northwest Coast, the American Indian, the Australian aborigine, the African Negro, and the Eskimo.

ART 415 HISTORY OF ANCIENT ART (5)

A survey of the early styles of art in Western civilization, including a study of the art of Egypt, the Near East, Greece, and Rome.

ART 417 HISTORY OF MEDIEVAL ART (5)

A survey of the history of architecture, painting, and sculpture, from the time of the Edict of Milan through the perfection of the Gothic (c. 313-1400 A.D.).

ART 420 RENAISSANCE ARTS IN ITALY (5)

A study of the sculpture, painting, and architecture of the Renaissance in Italy emphasizing the relationship of art to the philosophy, economy, politics, literature, and religion of this period.

ART 430 CONTEMPORARY ART MOVEMENTS (5)

A critical examination of art since 1950 with a consideration of its philosophical and psychological foundations. Includes gallery visitations and interviews with artists.

ART 440 CHILDREN'S ART LABORATORY (3) [390]

Work with children in a supervised art laboratory. Program planning and teaching. Required of Art majors (Elementary emphasis).

ART 450 WORKSHOP IN ART (1-3)—Su

Exploratory problems in a variety of materials and media. Maximum of nine credits.

ART 467 ADVANCED INTERIOR DESIGN (5) [367]

Advanced problems in color and design as applied to interiors. Drawings, scale projects, study of materials and textiles.

ART 470 ART OF THE ORIENT (5)

Survey of Japanese and Chinese art forms.

ART 472 VISUAL THEORY (3)

An investigation into the nature of visual perception as it pertains to the mechanics of vision relative to creative behavior.

ART 475 SEMINAR IN ART (2)

A critical study of the problems of the artist and the teacher of art in contemporary society.

ART 497 CREATIVE ARTS SUMMER FESTIVAL (1-4)—Su

ART 498 CREATIVE ARTS SUMMER PROGRAM LABORATORY (1-3)—Su

ART 499 DIRECTED STUDY (1-5) [Jr., P]

Designed for the upper division student who wishes to pursue work in any area after he has completed three quarters' work in that area. (Only 12 hours of 499 courses are accepted toward graduation.)

GRADUATE COURSES

ART 501 ADVANCED STUDY IN THE HISTORY AND CRITICISM OF ART (5)

Detailed examination of individual monuments of art from various epochs.

ART 530 RESEARCH IN ART (1-5)

Research in any field of art.

ART 550 SEMINAR IN ART (3)

A critical study of and reports on information and materials in art.

ART 590 SUPERVISION OF CHILDREN'S ART LABORATORY (3) [440,p]

The role of the art supervisor or consultant in art education. Supervision of students enrolled in Art 440. Responsibility for the design and presentation of the children's art activities.

ART 596 COLLEGE TEACHING INTERNSHIP (1-5)

Teaching of a lower division college course under supervision of a regular faculty member. Includes course planning, arranging bibliographical and other instructional aids, conferences with students, experience in classroom instruction, and student and course evaluation.

ART 599 INDEPENDENT STUDY (1-5) [P]

Independent study projects in a selected special field of art.

ART 600 THESIS (3-9)

BIOLOGY

Kenneth C. Swedberg, Chairman

1971-72 Staff: Andrews, Bacon, Carr, Hanegan, Johns, Kasuga, Lang, Simms, Soltero, Vigfusson, White.

The department provides opportunities for specialization in Botany or Zoology within its majors. Students are encouraged to join the staff in active research programs. Majors seek further education in graduate or professional schools, teach, enter hospitals as technicians, accept jobs in industry or with federal and state agencies.

All Biology courses, except Bio 390, may be applied to general college requirements in Science.

BACHELOR OF ARTS DEGREE

Major in Biology: 45 credits

Bio 100 Biological Science . . . . .	.5
Bio 111 General Botany . . . . .	.5
Bio 121 General Zoology . . . . .	.5
Bio 306 Comparative Chordate Anatomy . . . . .	.5
Bio 311 Field Botany . . . . .	.5
Bio 320 Bacteriology . . . . .	.5
Bio 322 Genetics . . . . .	.5
Electives in Biology (Except Bio 221)	10
	<hr/> 45 credits

Required Supporting Courses: 30 credits

Chm 151, 152, 153, General Chemistry	15
Mth 131, 132 Precalculus Mathematics I, II	10
Mth 161 Introduction to Calculus OR	
Mth 353 Probability and Statistics	5
	<hr/> 30 credits

Requirements for Minor in Biology: 15 Credits

Bio 100 Biological Science . . . . .	.5
Bio 111 General Botany . . . . .	.5
Bio 121 General Zoology . . . . .	.5
	<hr/> 15 credits

34—BIOLOGY

BACHELOR OF SCIENCE DEGREE

Major in Biology: 60 Credits

Bio 100 Biological Science	5
Bio 111 General Botany	5
Bio 121 General Zoology	5
Bio 305 Embryology, OR	
Bio 306 Comparative Chordate Anatomy	5
Bio 311 Field Botany	5
Bio 320 Bacteriology	5
Bio 322 Genetics	5
Bio 330 Vertebrate Physiology, OR	
Bio 372 Plant Physiology	5
Electives in Biology (Except Bio 221)	20
	<hr/>
	60 credits

Required Supporting Courses: 30 Credits

Same as required supporting courses for 45-credit Major, B.A. Degree.

Major in Medical Technology: 88 credits

Bio 100 Biological Science	5
Bio 121 General Zoology	5
Bio 306 Chordate Anatomy	5
Bio 320 Bacteriology	5
Bio 330 Vertebrate Physiology	5
Bio 421 Medical Bacteriology	5
Bio 452 Parasitology	5

Electives from the following: 8 credits

Bio 322 Genetics	5
Bio 331 Vertebrate Physiology	5
Bio 430 Immunology	5
Bio 432 Virology	3
Bio 499 Directed Study in Biology	5
	<hr/>
	8
	43 credits

Applied Biology (taken by internship at either Sacred Heart, St. Luke's or Deaconess School of Medical Technology in Spokane, or at any other approved school of Medical Technology)

.45

88 credits

Required Supporting Courses: 46 credits

Chm 151, 152, 153 General Chemistry	15
Chm 304 Quantitative Analysis	6
Chm 307, 308 Organic Chemistry	10
Chm 450 Physiological Chemistry or	
Biochemistry	5
Mth 131 Precalculus Mathematics I	5
Mth 132 Precalculus Mathematics II OR	
Mth 353 Probability and Statistics	5

.46

46 credits

BACHELOR OF ARTS IN EDUCATION DEGREE

Requirements for a 45-credit major, a 60-credit major and a 15-credit minor in Biology under the Bachelor of Arts in Education degree program, including supporting courses, are the same as the requirements listed under B.A. and B.S. programs above.

BIOLOGY COURSES

Bio 100 BIOLOGICAL SCIENCE (5)

A study of biological principles with reference made to human welfare.

Bio 111 GENERAL BOTANY (5) [100]

Structures and life cycles of representatives of major plant divisions.

Bio 121 GENERAL ZOOLOGY (5) [100]

Comparative morphology and physiology of the major animal groups.

Bio 132 ANATOMY AND PHYSIOLOGY (5) [100]

Organization of vertebrate organism, metabolism, nervous, circulatory, and endocrine systems.

Bio 133 ANATOMY AND PHYSIOLOGY (5) [132]

Muscular, respiratory, digestive, excretory, and reproductive systems.

Bio 221 ELEMENTARY MEDICAL MICROBIOLOGY (5) [100]

The microorganisms and animal parasites, with chief emphasis on those which affect human health. Course does not fulfill major or minor requirements in Biology.

Bio 305 EMBRYOLOGY (5) [121]

Developmental biology of the frog, chick, pig, and man.

Bio 306 COMPARATIVE CHORDATE ANATOMY (5) [121]

Phylogenesis of the organ systems of vertebrate classes.

Bio 311 FIELD BOTANY (5) [111]

Introductory taxonomy and ecology of local vascular plants.

Bio 313 Plant Taxonomy (5) [311]

Comprehensive collection and classification of vascular plants. Plant classification; collection and identification; phylogeny; variation; speciation.

Bio 314 ORNITHOLOGY (5) [121 or 100]

Natural history and biological principles of bird life.

Bio 320 BACTERIOLOGY (5) [100 & 1 yr. Chm.]

Bacteria, yeasts, and molds.

Bio 322 GENETICS (5) [111 or 121]

An introduction to the basic principles of genetics.

Bio 324 ENTOMOLOGY (5) [121]

The terrestrial arthropods, with chief emphasis on the insects.

Bio 330 VERTEBRATE PHYSIOLOGY (5) [121, Chm 153]

A study of the function of the organs and organ systems of vertebrates. The first part of a two term sequence which includes Bio 331.

Bio 331 VERTEBRATE PHYSIOLOGY (5) [330]

A continuation of Bio 330. The function of the organs and organ systems not covered in Bio 330.

Bio 372 PLANT PHYSIOLOGY (5) [111, Chm 153]

Physiological responses of flowering plants.

Bio 374 GENERAL ECOLOGY (4) [111, 121]

Interrelations of organisms and their environment.

Bio 381 INVERTEBRATE ZOOLOGY (5) [121]

The invertebrates, exclusive of the terrestrial arthropods.

Bio 390 BIOLOGY METHODS FOR THE SECONDARY SCHOOL (3) [Backgrd]

A course for biology majors planning to teach in junior or senior high school. Various types of biology programs, organization of lesson materials, techniques, and evaluation will be included in the course.

Bio 405 LIMNOLOGY (5) [111, 121, Chm 153; Adv]

The general biology of lakes, ponds, and streams.

Bio 409 MYCOLOGY AND PLANT PATHOLOGY (5) [111]

Mushrooms and toadstools of the Northwest. Structure, reproduction, and taxonomy of the fungi. Fungi as causative agents of plant diseases.

Bio 410 MYCOLOGY AND PLANT PATHOLOGY (5) [409]

Continuing study of the fungi with emphasis on Deuteromycetes, Lichens, and Ascomycetes.

Bio 420 EPIDEMIOLOGY (4) [p]

The distribution and determinants of disease frequency in man.

Bio 421 MEDICAL BACTERIOLOGY (5) [320]

Epidemiology, culture, and identification of bacteria and fungi of medical importance.

Bio 423 INTRODUCTION TO ORGANIC EVOLUTION (3) [Adv]

The origin and development of species of plants and animals.

Bio 430 IMMUNOLOGY (5) [421]

Immune reactions of the animal body with principal emphasis on those associated with infectious diseases.

Bio 431 MICROBIOLOGY OF FOODS (5) [330] —a y

The microorganisms in relation to food preparation, preservation, spoilage, poisoning, and infections.

Bio 432 VIROLOGY (3) [430]

The biology of the animal viruses and their host-parasite relationships with emphasis on those associated with human and animal diseases.

Bio 441 ANIMAL HISTOLOGY (5) [330] — o/y

Microscopic functional anatomy of organs and tissues.

Bio 450 MAMMALOLOGY (5) [121]

The form, adaptations, classification, and life histories of mammals of the Inland Empire.

Bio 452 PARASITOLOGY (5) [121]

The animal parasites, with chief emphasis on those of medical importance.

Bio 456 PLANT ANATOMY (5) [111] — o/y

A study of the structure and growth patterns of the seed plants.

Bio 462 ICHTHYOLOGY (5) [121]

Systematic biological and ecological studies of fishes with emphasis on the freshwater fishes of the U.S.

Bio 470 BIOLOGICAL ILLUSTRATION (2)

Course is open to upper division and graduate students in biology. Emphasis will be placed on developing skill in the production of drawings, diagrams, charts, and graphs suitable for publication.

Bio 472 CELLULAR PHYSIOLOGY (5) [330 or 372; Chm 308] — e/y

The activities of living cells.

Bio 482 MICROBIAL GENETICS (5) [322]

Genetic studies on microorganisms with emphasis on bacteria, viruses and fungi.

Bio 497 WORKSHOPS, SHORT COURSES, OR CONFERENCES**Bio 498 SEMINARS (Arr)****Bio 499 DIRECTED STUDY IN BIOLOGY (Arr) [P]**

An opportunity for student to explore problems of special interest.

GRADUATE STUDIES**Bio 505 SEMINAR (Arr)****Bio 510 COMPARATIVE PHYSIOLOGY (5) [330, 472, or p] — o/y**

Physiological principles involved in adaptation of animals to their environment.

Bio 525 ANALYSIS AND PREPARATION OF SCIENTIFIC PAPERS (3)

Open to prospective writers of thesis and scientific papers.

Bio 530 PLANT SYNECOLOGY (5) [Adv] — o/y

Analysis, description and classification of plant communities.

Bio 531 PLANT AUTECOLOGY (5) [Adv] — e/y

Reciprocal relationships between the plant species and its environment.

Bio 537 ENDOCRINOLOGY (3) [331; Chm 308] — e/y

The function of the endocrine glands in vertebrate organisms.

Bio 538 ENDOCRINOLOGY LABORATORY (3) [537] — e/y

Experiments relating to the actions of the vertebrate endocrine glands.

Bio 539 SPECIAL STUDIES (Arr)**Bio 540 MOLECULAR GENETICS (3) [482]**

A study of the molecular aspects underlying genetic principles.

Bio 550 HELMINTHOLOGY (5) [352] — a/y

Taxonomy, life history, morphology, and physiology of helminth parasites of man and other animals.

Bio 572 ADVANCED PLANT PHYSIOLOGY (3) [372 and/or 330; Chm 308 or p] — a/y

Advanced treatment of metabolism and other physiological processes occurring in plants.

Bio 596 COLLEGE TEACHING INTERNSHIP (1-5)**Bio 599 INDEPENDENT STUDY IN BIOLOGY (Arr)****Bio 600 THESIS (5-10)**

Thesis will represent culmination of original research under direction of graduate committee.

BUSINESS

Eastern Washington State College offers undergraduate and graduate programs in both Business Administration and Business Education. For specific information on graduate programs in business consult the Graduate Bulletin.

Students desiring the Business Administration program may elect a major concentration from either the Department of Accounting and Quantitative Analysis or the Department of Management. The Department of Accounting and Quantitative Analysis offers concentrations in General Accounting, Professional Accounting and Management Information Systems. Major concentrations in Finance, Marketing, Operations Management and General Business are offered by the Department of Management.

The Department of Business Education offers major options in Office Education, Distributive Education and Administrative Management.

BUSINESS ADMINISTRATION**General Statement of Policy in Business Administration State of Washington.**

The state colleges and universities in the state of Washington recognize the many problems caused by lack of standardization with regard to curriculum policies, especially in the transfer area. To help community colleges advise their students who plan to transfer to one of the five state higher-education institutions, a basic policy statement has been developed, as follows:

In a baccalaureate degree program, Business Administration is essentially an upper-division curriculum; this position is supported and encouraged in the standards set forth by the American Association of Collegiate Schools of Business. Thus, students should concentrate on general educational requirements during their lower-division (freshman and sophomore) programs. These lower-division requirements should include such business subjects as introductory Accounting and Business Law, and related or supportive areas, such as Economics and Mathematics.

Students transferring to a 4-year school, who have taken a relatively heavy proportion of business courses during their first two years, should plan to take at the four year school the business administration courses normally required at the upper division level. **All transcripts will be individually reviewed to determine the transferability of courses, and students are encouraged to participate in the review process.** However, students with a substantial number of lower division business courses on their transcript should expect to spend more than a total of four years in obtaining a baccalaureate degree.

Advisers at the community colleges should encourage each student to examine carefully the lower-division requirements of the particular four year school to which he plans to transfer, and to follow that program closely. In most instances, students may be better advised to complete all the lower-division requirements, as specified for the

four year school's Business Administration degree requirements—whether they be in the Mathematics, Liberal Arts, Natural Sciences, or Business Administration areas—before transfer. It is recognized that certain lower-division requirements (i.e. Computer Programming, Business Statistics, etc.) may not be offered at all community colleges; these circumstances will be taken into consideration by the four year institutions at the time of transfer.

DEPARTMENT OF ACCOUNTING AND QUANTITATIVE ANALYSIS

John G. Zurenko, Chairman

1971-72 Staff: Anderson, Carlson, Ford, Hanke, Reitsch, Runeberg, Shapiro, Smith, Wischmeyer

The Department of Accounting and Quantitative Analysis offers major concentrations in two distinct functional areas of Business Administration—Accounting and Management Information Systems (MIS). Additionally, the department supports the majors offered by the Departments of Business Education, Economics, Home Economics, Industrial Education and Technology, and Management.

The departmental function is two-fold, namely: (1) To transmit to students the utility of quantitative methods—measurement and inference, in analyzing problems involving the business (economic) environment; (2) To prepare professional accountants and operations analysts.

The accounting faculty offers a rigorous educational experience which focuses upon developing and communicating financial and operational information for business and nonprofit economic entities.

The accounting curriculum provides a foundation for careers in business administration generally and, specifically, in accounting (public, industrial or private, and governmental and institutional).

The quantitative business analysis faculty is concerned with the study of the managerial decision processes—design of system structure and the analysis of the dynamics of system behavior. The major in MIS is oriented toward employing system simulation, optimization methods and information technology in concert with the electronic computer, in the construction of quantitative models for planning and control.

BACHELOR OF ARTS DEGREE

The department's degree programs are multi-disciplinary in emphasis with contributions made by a number of different departments. Further, multi-departmental alternatives are allowed for several required courses.

Requirements

Minimum requirements are specified in the course requirements enumerated below.

General Requirements—Business Administration majors may take Business 272 — Business Communications, or English 208 — Technical Report Writing to satisfy the second level English writing requirement. Mathematics 200—Finite Mathematics and Economics 201, 202—Principles of Economics I, II fulfill general requirements as well as being required supporting courses for the Business Administration major.

Speech Recommendation—Speech 305, Interpersonal Communications for Business and the Professions is recommended.

Multidepartmental Alternatives—Certain course requirements of the major may be satisfied with the following alternatives:

For Bus. 245—Course in statistical description and inference.

For Bus 423—Either PSc 406 Topics in Policy and Society, Eco 446 Government and Business, or Eco 449 Political Economy.

For Bus. 424—Soc. 471, Sociology of Work.

Further alternatives require the written approval of the Chairman of the Department on the student's major-minor form which he files in the Registrar's Office during the quarter in which he earns 135 quarter hour credits.

Lower-Division Requirements: 38 credits

Mth. 200, Finite Mathematics	5
Eco. 201, 202, Intro. to Economics I, II	10
Bus. 245, Quantitative Business Analysis I	4
Bus. 251, 252, Accounting Principles, I, II	10
Bus. 261, Business Law	5
Bus. 280, Computer Concepts in Business	4

Upper-Division Requirements: 52-67 credits

Bus. 310, Principles of Marketing	4
Bus. 326, Organization Theory and Management	4
Bus. 335, Financial Management	4
Bus. 346, 347, Quantitative Business	
Analysis II, III	8
Bus. 423, Business and Society	4
Bus. 424, Organizational Behavior	4
Bus. 426, Business Policies	4
Major Concentration (See below for details)	20-35
	<hr/> 52-67 credits

General Accounting Concentration: 20 credits

Bus. 351, 352, Intermediate Accounting I, II	10
Bus. 453, Advanced Accounting	5
Approved Accounting Electives	5
	<hr/> 20 credits

Professional Accounting Concentration: 35 credits *

Bus. 351, 352, Intermediate Accounting, I, II.	10
Bus. 453, Advanced Accounting	5
Approved Accounting Electives	20
	<hr/> 35 credits

*Recommended for candidates for CPA certificate.

Management Information Systems Concentration: 20 credits

Bus. 380, Business Computer Programming	4
Bus. 480, Management Systems	4
Bus. 481, Systems Analysis and Design	4
Approved Related Electives	8
	<hr/> 20 credits

COURSE LISTINGS

The following are the courses offered by the Department of Accounting and Quantitative Analysis listed by number and title. For full course descriptions and prerequisites, please refer to the numerical listing of business courses at the end of this section.

- Bus 245 Methods of Quantitative Business Analysis I (4)
- Bus 251, 252 Accounting Principles I and II (5 each)
- Bus 280 Computer Concepts in Business (4)
- Bus 299 Special Studies in Business (1-5)
- Bus 346 Methods of Quantitative Business Analysis II (4)
- Bus 347 Methods of Quantitative Business Analysis III (4)
- Bus 351, 352 Intermediate Accounting I, II (5 each)

- Bus 356 Cost Accounting (5)
- Bus 380 Business Computer Programming (4)
- Bus 399 Special Studies (1-5)
- Bus 447 Operations Research (3)
- Bus 450 Auditing (5)
- Bus 451 Contemporary Accounting Theory (5)
- Bus 453 Advanced Accounting (5)
- Bus 455, 456 Federal Income Tax, I, II (5 each)
- Bus 457 C.P.A. Review (5)
- Bus 480 Management Systems (4)
- Bus 481 Systems Analysis and Design (4)
- Bus 491, 492, 493 Public Affairs Seminar (3 each)
- Bus 498 Seminar (1-5)
- Bus 499 Directed Study in Business (1-5)
- Bus 520 Methods of Research (4)
- Bus 539 Seminar: Special Topics (1-4)
- Bus 541 Seminar: Business Decision Analysis (4)
- Bus 566 Seminar: Administrative Controls (4)
- Bus 573 Management Information Systems (4)
- Bus 596 College Teaching Internship (1-5)
- Bus 599 Independent Study in Business (1-5)
- Bus 600 Thesis (6-9)

DEPARTMENT OF MANAGEMENT

Elroy C. McDermott, Chairman

1971-72 Staff: Arnold, Baillie, Billings, Bown, Hasan, Hermanson, Jerman M. Johnson, S. Johnson, Kellam, Lefler, McCain, Meersman, Mills, O'Brien, Thomas, Wynd.

The Department of Management offers a major in Business Administration with optional areas of concentration in Finance, Marketing, Operations Management, and General Business. The goal of undergraduate education in Business Administration is to produce graduates who have an understanding of the basic elements of professional business and the environment in which the businessman functions. Through exposure to a curriculum having a proper balance between business and relevant disciplines, the student develops an inquiring and analytical mind. He also acquires an understanding of the interrelationships between the business world—its institutions, philosophies, policies and procedures—and the social universe in which he will spend the remainder of his adult years. Emphasis is placed on underlying theory of rational decision making, rather than on current practices, for graduates in Business Administration are expected to be future leaders in their respective fields.

Requirements—Major in Business Administration

For students majoring in Business administration a variety of programs is possible. Elective and alternative courses in several departments are contained in the major and optional concentration requirements that follow. These patterns are expected to meet the needs of most students; other patterns may be developed through guidance from a student's adviser and the approval of the department chairman. All programs must be approved by an appropriate departmental staff member.

General Requirements — Business Administration majors may take Business 272 — Business Communications, or English 208 — Technical Report Writing to satisfy the second level English writing requirement
 Mathematics 200 — Finite Mathematics, and

Economics 201, 202—Principles of Economics I, II, fulfill general requirements as well as being required supporting courses for the Business Administration major.

Speech Recommendation—Speech 305—Interpersonal Communications for Business and the Professions is recommended for all Business Administration majors.

Multidepartmental Alternatives — Certain course requirements of the major in Business Administration have the following alternatives:

1. Courses in statistical description and inference from other department may be substituted for Business 245.
2. Sociology 471 — Sociology of Work may be substituted for Business 424.
3. Political Science 406 — Topics in Policy and Society, Economics 446 — Government & Business, or Economics 449 — Political Economy may be substituted for Business 423.

BACHELOR OF ARTS DEGREE

Major in Business Administration: 87-90 credits

(Areas of concentration in Finance, Marketing, Operations Management, and General Business)

Lower-Division Requirements: 38 credits

Mth 200 Finite Mathematics	5
Eco 201, 202 Principles of Economics I, II	10
Bus 245 Quantitative Business Analysis I	4
Bus 251, 252 Accounting Principles I, II	10
Bus 261 Business Law	5
Bus 280 Computer Concepts in Business	4

Upper-Division Requirements: 49-52 credits

Bus 310 Principles of Marketing	4
Bus 326 Organization Theory & Management	4
Bus 335 Financial Management	4
Bus 346, 347 Quantitative Business Analysis II, III	8
Bus 423 Business & Society	4
Bus 424 Organizational Behavior	4
Bus 426 Business Policies	4
Areas of Concentration (see below)	17-20

87-90 credits

Areas of Concentration

Finance Concentration: 17 credits

Bus 431 Investments or Bus 432 — Insurance and Risk Managements	4
Bus 434 Financial Markets	4
Bus 435 Problems in Business Finance	4
Eco 340 Public Finance & Taxation, or Eco 470 — International Economics	5

17 credits

Marketing Concentration: 20 credits

Bus 311 Marketing Analysis	4
Bus 411 Marketing Research	4
Bus 412 Contemporary Marketing Thought	4
Approved Marketing Courses	8

20 credits

Operations Management Concentration: 17-20 credits

Bus 325 Principles of Production	3
Bus 425 Production Management Analysis	4
Bus 447 Operations Research	3
Bus 480 Management Systems	4
Approved Related Courses	3-6

17-20 credits

General Business Concentration: 20 credits

Upper-Division electives in Business Administration or related areas chosen with the approval of the student's adviser

20 credits

COURSES OFFERED

The following are the courses offered by the Department of Management listed by number and title. For full course descriptions and prerequisites, please refer to the numerical listing of business courses at the end of this section.

- Bus 120 Introduction to Business (5)
- Bus 205 Personal Finance (3)
- Bus 261 Business Law (5)
- Bus 299 Special Studies in Business (1-5)
- Bus 310 Principles of Marketing (4)
- Bus 311 Marketing Analysis (4)
- Bus 313 Promotion Management (4)
- Bus 314 Channel Management (4)
- Bus 315 Buyer Behavior (4)
- Bus 325 Principles of Production (3)
- Bus 326 Organization Theory and Management (4)
- Bus 328 Personnel Management (4)
- Bus 335 Financial Management (4)
- Bus 399 Special Studies (1-5)
- Bus 410 Transportation and Physical Distribution (4)
- Bus 411 Marketing Research (4)
- Bus 412 Contemporary Marketing Thought (4)
- Bus 422 Advanced Business Law (3)
- Bus 423 Business and Society (4)
- Bus 424 Organizational Behavior (4)
- Bus 425 Production Management Analysis (4)
- Bus 426 Business Policies (4)
- Bus 428 Materials Management (4)
- Bus 431 Investments (4)
- Bus 432 Insurance and Risk Management (4)
- Bus 434 Financial Markets (4)
- Bus 435 Problems in Business Finance (4)
- Bus 441 Problems in Production (3)
- Bus 491, 492, 493 Public Affairs Seminar (3 each)
- Bus 497 Professional Internship (1-5)
- Bus 498 Seminar (1-5)
- Bus 499 Directed Study in Business (1-5)
- Bus 520 Methods of Research (4)
- Bus 539 Seminar: Special Topics (1-4)
- Bus 544 Seminar: Marketing Management (4)
- Bus 554 Seminar: Organization Theory and Management (4)
- Bus 560 Seminar: Financial Management (4)
- Bus 596 College Teaching Internship (1-5)
- Bus 599 Independent Study in Business (1-5)
- Bus 600 Thesis (6-9)

BUSINESS EDUCATION

Office Education, Distributive Education, Administrative Management

Norman S. Thompson, Chairman
1971-72 Staff: Burnham, Daniels, Estes, Hartman, Nelson, Palmer, Syhlman, Woodell.

The Department of Business Education offers major options in office education, distributive education, administrative management, and service courses in secretarial skills. The options in business teacher education provide a thorough background in business administration and professional courses in education to prepare students for the teaching of business and economic subjects in the secondary school.

BACHELOR OF ARTS IN EDUCATION DEGREE

Option 1. Office Education is the program designed to prepare students on a broad general basis. Graduates with this major will be prepared to teach all of the subjects generally found in the business education curriculum.

Option 2. Basic Business has as its major areas of concentration, general business and accounting.

Option 3. Automated Data Processing has as its major area of concentration automated and electronic data processing. Graduates with this major will be prepared to teach in the areas of electronic data processing, accounting, general business, and typewriting.

Option 4. Distributive Education prepares students to be teacher-coordinators of marketing and distribution for high schools, community colleges, and vocational technical institutes.

Major in Business Education: 87-90 credits

Business Education and Administrative Management majors will take Business 272, Business Communications, to satisfy their second level English writing requirement as set forth in the General Requirements.

Lower Division Requirements

Math 200 Finite Mathematics	5
Eco. 201 Introduction to Economics I	5
Bus 245 Quantitative Business Analysis I	4
Bus 251 Accounting Principles I	5
Bus 252 Accounting Principles II (or	
Bus 455, 351)	5
Bus 261 Business Law	5
Bus 270 Typewriting III	3
Bus 273 Data Processing	4
Bus 280 Computer Concepts in Business	4
	40 credits

Upper Division Requirements

Spe 305 Speech for the Professions and Business	3
Bus 310 Principles of Marketing	4
Bus 329 Administrative Management	5
Bus 380 Business Computer Programming	4
Select one: Eco. 321, 340, 412, 446	5
	21 credits

Total Upper and Lower Division 61

Areas of Concentration

OPTION I (Office Education with previous preparation in shorthand)

Bus 275, 276 Advanced Shorthand IV, V	8
IT 365 Graphic Communications	4
Bus 377 Secretarial Office Practice	4
Bus 390 Consumer Economics	4
Bus 476 a,b,c,d,e. Business Education Methods	5
Business Electives	4
	29 credits

OPTION II (Office Education with no previous preparation in shorthand)

Bus 172, 173, 174 Shorthand I, II, III	12
IT 365 Graphic Communications	4
Bus 377 Secretarial Office Practice	4
Bus 390 Consumer Economics	4
Bus 476 a, b, c, d, e Business Education Methods	5
	29 credits

OPTION III (Basic Business)

Bus 120 Introduction to Business	5
Bus 205 Personal Finance	3
Bus 351 Intermediate Accounting I	5
Bus 390 Consumer Economics	4
Bus 455 Federal Income Tax I	5
Bus 476 a, c, d, e Business Education Methods	4
	26 credits

OPTION IV (Electronic Data Processing)

CS 230 Introduction to Computer Programming	3
IT 365 Graphic Communications	4
Bus 390 Consumer Economics	4
Bus 476 a, c, d, e Business Education Methods	4
Bus 478 Electronic Data Processing Methods	2

Bus 480 Management Systems	4
Electives in Accounting or Com- puter Science . . . . .	.8
	<u>29</u> credits
OPTION V (Distributive Education)	
Bus 311 Marketing Analysis	4
Bus 411 Marketing Research	4
Related Courses (Chosen from the following): . . . . .	.12
Bus 313 Promotion Management	4
Bus 314 Channel Management	4
Bus 347 Quantitative Bus. Analysis III	4
Bus 410 Transportation & Physical Dist.	4
Bus 424 Organizational Behavior	4
Professional Distributive Education Courses:	
Bus 472 Foundations of Distributive Education	3
Bus 474 Organization & Administration of Cooperative Programs	3
Bus 475 Methods of Teaching Distributive Education . . . . .	.3
	<u>29</u> credits

Major in Administrative Management: 90 credits

Business Education Lower and Upper Division
Requirements: 61 credits

OPTION I

*Bus 275, 276 Shorthand IV, V	8
Bus 328 Personnel Management	4
Bus 377 Secretarial Office Practice	4
IT 365 Graphic Communications	4
IT 468 Offset Lithography	4
Related Electives in Accounting, Law, Management, or Economics . . . . .	.5
	<u>29</u> credits

OPTION II

Bus 328 Personnel Management	4
Bus 377 Secretarial Office Practice	4
IT 365 Graphic Communications	4
IT 468 Offset Lithography	4
Bus 424 Organizational Behavior	4
Related Electives in Accounting, Law, Management, or Economics . . . . .	.9
	<u>29</u> credits

*Eight credits in elected related courses may be substituted upon approval of adviser.

The major in administrative management is designed to prepare students for administrative positions as executive secretaries or office managers. The major requirements are the core courses in business administration plus specified courses in the major.

Students who complete the Bachelor of Arts program in Administrative Management are academically qualified to take the Certified Professional Secretary examination and will have only the experience requirements to meet for the CPS Certificate.

The following are the courses offered by the Department of Business Education listed by number and title. For full course descriptions and prerequisites, please refer to the numerical listing of business courses at the end of this section.

- Bus 145 Business Mathematics (5)
- Bus 170 Typewriting I (3)
- Bus 171 Typewriting II (3)
- Bus 172, 173, 174 Gregg Shorthand I, II, III (4 each)
- Bus 270 Typewriting III (3)
- Bus 271 Transcription (3)
- Bus 272 Business Communications (4)
- Bus 273 Data Processing (4)
- Bus 274, 275 Advanced Shorthand IV, V (4 each)
- Bus 299 Special Studies in Business (1-5)

- Bus 329 Administrative Management (5)
- Bus 377 Secretarial Practice (4)
- Bus 390 Consumer Economics (4)
- Bus 399 Special Studies (1-5)
- Bus 472 Foundations of Distributive Education (3)
- Bus 474 Organization and Administration of
Cooperative Programs (3)
- Bus 475 Methods of Teaching Distributive
Education (3)
- Bus 476 a, b, c, d, e Business Education Methods (5)
- Bus 478 Electronic Data Processing Methods (2)
- Bus 479 Advanced Programs in Distributive
Education (3)
- Bus 498 Seminar (1-5)
- Bus 499 Directed Study in Business (1-5)
- Bus 520 Methods of Research (4)
- Bus 521 Seminar: Current Issues in Distribu-
tive Education (3)
- Bus 531 Seminar: Business Education
Curriculum (3)
- Bus 532 Seminar: Administration and Supervision
of Business Education
- Bus 539 Seminar: Special Topic (4)
- Bus 596 College Teaching Internship (1-5)
- Bus 599 Independent Study in Business (1-5)
- Bus 600 Thesis (6-9)

BUSINESS COURSES

Bus 120 INTRODUCTION TO BUSINESS (5) [Not open to upper division Business Administration majors.]

The fundamental functions and organization of the business enterprise.

Bus 145 BUSINESS MATHEMATICS (5)

Comprehensive review of arithmetic and algebraic fundamentals. Simple and compound interest and discount, annuities, periodic payment plans, bonds, depreciation, mathematics of insurance, and other mathematical applications to business.

Bus 170 TYPEWRITING I (3)

Basic skills and techniques necessary to gain effective use of the typewriter for personal purposes. No credit will be given to students who have had one quarter or one semester of typing.

Bus 171 TYPEWRITING II (3)

Further development of proper typing techniques and the building of speed and control. No credit will be given to students who have had two quarters or one year of typing.

Bus 172, 173, 174 GREGG SHORTHAND I, II, III (4 each)

For prospective teachers and business students. The complete theory of Gregg Shorthand is presented and reviewed the first quarter. Rapid reading of shorthand dictation and transcription is stressed.

Bus 205 PERSONAL FINANCE (3) [Upper division Business Administration majors must have permission of instructor.]

A practical course in money management with particular emphasis given to the utilization of savings.

Bus 245 METHODS OF QUANTITATIVE BUSINESS ANALYSIS I (4) [280, Mth 200]

Basic tools or methods of description and inference under varying conditions of uncertainty.

Bus 251, 252 ACCOUNTING PRINCIPLES I AND II (5 each)

Introduction to the fundamentals of financial and managerial accounting.

Bus 261 BUSINESS LAW (5) [So.]

The law as it applies to the Business world. Background of our system of legal process. In depth study of the law and its social environment, contracts, agency, sales, commercial paper, property, partnerships, and corporations.

Bus 270 TYPEWRITING III (3)

Executive-level typewriting, concentrating on financial statements,

40—BUSINESS COURSES

forms, tables, legal documents, manuscripts and duplicating processes. Emphasis on problem-solving ability in converting raw data into acceptable form.

Bus 271 TRANSCRIPTION (3) [Below]

Introductory course in transcription. Should be taken with the third quarter of shorthand theory, but may be taken by others who have completed shorthand theory. Prereq: One year of shorthand in high school or two quarters of theory in college.

Bus 272 BUSINESS COMMUNICATIONS (4)

Emphasis is placed on functional writing. This course develops skills and techniques in writing business letters, office communications, and business reports.

Bus 273 DATA PROCESSING (4)

An introduction to data processing and the basic operation of calculating machines used in business enterprise.

Bus 274, 275 ADVANCED SHORTHAND IV, V (4 each) [Below]

Designed for the development of skill in taking and transcribing business dictation. A review of English, punctuation, spelling, letter placement, etc. Prereq: One year of shorthand theory.

Bus 280 COMPUTER CONCEPTS IN BUSINESS (4)

An introduction to basic concepts of computer usage in business. Topics include computer hardware, software, programming, systems analysis and design, management information systems, and business computer applications.

Bus 299 SPECIAL STUDIES IN BUSINESS (1-5)

Bus 310 PRINCIPLES OF MARKETING (4) [245, 252, Eco 201, or p]

An introduction to managerial marketing. The marketing mix: product, channels of distribution, price system, promotional activities and introduction to consumer behavior.

Bus 311 MARKETING ANALYSIS (4) [310]

A case approach to the determination of marketing objectives and the analysis of the managerial functions of marketing; product policy, selection of distribution channels, promotion and pricing strategy.

Bus 313 PROMOTION MANAGEMENT (4) [310]

Communication theory as applied to the outward dissemination of information from a business firm with special emphasis on advertising and sales management.

Bus 314 CHANNEL MANAGEMENT (4) [310]

Interorganizational aspects of managing the flow of materials and information from the manufacturer to the point of purchase, with special emphasis on wholesaling, retailing, and international marketing.

Bus 315 BUYER BEHAVIOR (4) [310]

The decision making processes of buying behavior in general, then an examination of the variables that specifically relate to both consumer and industrial buying.

Bus 325 PRINCIPLES OF PRODUCTION (3) [326]

A general examination of major structural and functional aspects of modern manufacturing industry from the point of view of the production manager.

Bus 326 ORGANIZATION THEORY AND MANAGEMENT (4) [245, 252, Eco 202, or p]

The historical development of management and organization theory, nature of the management process and functions and its future development. The role of the manager as an organizer and director, the communication process, goals, and responsibilities.

Bus 328 PERSONNEL MANAGEMENT (4) [326]

Analysis of selected personnel problems. Special attention is given to employment, training and development, performance appraisal, motivation, wage and salary administration, employment and job rights, discipline and due process, and labor-management relations.

Bus 329 ADMINISTRATIVE MANAGEMENT (5)

Principles and practices of management and organization of an office; functional office layout and equipment; personnel problems; data processing application.

Bus 335 FINANCIAL MANAGEMENT (4) [245, 252, Eco 202]

Basic factors in financial decision making; elements of financial analysis and asset management. The financial manager in the money and capital markets; problems of matching financial requirements with funds available.

Economics majors (Business Economics — B.A.) will use Eco 304 and Bus 245 as prerequisites.

Bus 346 METHODS OF QUANTITATIVE BUSINESS ANALYSIS II (4) [245]

Study of inference, regression and correlation, and trend analysis utilizing both classical and Bayesian decision models.

Bus 347 METHODS OF QUANTITATIVE BUSINESS ANALYSIS III (4) [245]

Application of classical Bayesian decision methods in the solution of management problems in such areas as quality control, accounting (cost) control, marketing analysis, and forecasting.

Bus 351, 352 INTERMEDIATE ACCOUNTING I, II (5 each) [251, 252]

Postulates and conventions underlying the presentation and interpretation of working capital items, investments, plant assets, long-term liabilities, and stockholders equity in financial statements.

Bus 356 COST ACCOUNTING (5) [251, 252]

Theory of cost accounting; cost systems, sources of cost data and their accumulation, allocations, and analysis; managerial control through cost data.

Bus 377 SECRETARIAL PRACTICE (4)

Development of job competency through various aspects of secretarial work including preparation and filing of business forms, telephone techniques, personality development, business English, spelling, and handling mail.

Bus 380 BUSINESS COMPUTER PROGRAMMING (4) [280]

(Same as CS 380). Basic computer applications in business are programmed. The computer programming of solutions to business problems is emphasized.

Bus 390 CONSUMER ECONOMICS (4)

The characteristics of consumer demand and the manipulation of consumer choice; relationship between the consumer and the government; the basic objectives of consumer education.

Bus 399 SPECIAL STUDIES (1-5)

Bus 410 TRANSPORTATION AND PHYSICAL DISTRIBUTION (4) [311 or p]

The course follows a systems approach to physical distribution within a firm by examining the proper mix of transportation, warehousing, and inventory control. The student will examine carrier responsibilities, service, economic and legal bases of rates, freight classification, and the relationships between transportation and the location of economic activity.

Bus 411 MARKETING RESEARCH (4) [311, 346]

The role of non-recurring research in the solution of marketing problems; analytical tools used in solving marketing problems; and an examination of continuous marketing information systems.

Bus 412 CONTEMPORARY MARKETING THOUGHT (4) [311, Sr.]

A senior seminar in which the individual student is encouraged to study in his area of special interest in marketing. The course is a broad survey of the most contemporary literature in the various functional areas of marketing.

Bus 422 ADVANCED BUSINESS LAW (3) [261, Sr.]

Advanced study of legal factors relating to the business enterprise.

Bus 423 BUSINESS AND SOCIETY (4) [Sr or p]

Involvement of business systems in the American environment, analysis of critical times and their development, the impact on society of decisions made at these junctures.

Bus 424 ORGANIZATIONAL BEHAVIOR (4) [326, Sr or p]

This course is primarily interdisciplinary in nature, drawing heavily upon the behavioral sciences. An attempt is made to explain the "whys" and "wherefores" of the behavior of the industrial man. Emphasis is placed on the dynamic role of the behavioral sciences and their application to the student of business who wants to deal effectively with the problems of the human resource.

Bus 425 PRODUCTION MANAGEMENT ANALYSIS (4) [325, 347]

Application of quantitative analytical techniques and concepts to the analysis of representative production situations.

Bus 426 BUSINESS POLICIES (4) [310, 326, 335, Sr or p]

Integrative analysis of top-management problems, decisions, executive responsibilities, and company objectives. Coordinates prior specialized preparatory instruction.

Bus 428 MATERIALS MANAGEMENT (4) [Sr or p]

Objectives and methodology of industrial, institutional, and governmental purchasing agents; emphasizes product quality control, maintenance of operating efficiency, and analysis of competitive price quotations.

Bus 431 INVESTMENTS (4) [245, 252, Eco 202, or p]

Principles of investment valuation; objectives and risks involved; sources of relevant information; and analysis of various types of securities and other investment media.

Bus 432 INSURANCE AND RISK MANAGEMENT (4) [326 or p]

Insurance principles; importance to consumer and manager; analysis of various insurance means at the disposal of management for use in shifting, reducing, or eliminating risk. In-depth study of property, casualty, life, health, group, annuities, and social insurance.

Bus 434 FINANCIAL MARKETS (4) [335]

Description and analysis of financial markets and institutions as allocators of capital flows. Emphasis on the study of the level and structure of interest rates as the principal means of channeling savings into alternative forms of investment. Effects of various government policies will also be considered.

Bus 435 PROBLEMS IN BUSINESS FINANCE (4) [335]

Analysis of selected financial problems of business management through the use of case problems and computer simulation. The cost of capital, capital budgeting, cash planning, acquisition and utilization of funds, composition of income and the asset structure of the firm are emphasized.

Bus 441 PROBLEMS IN PRODUCTION (3) [425]

The application of the case method approach to production problems, and their solution by the use of quantitative techniques.

Bus 447 OPERATIONS RESEARCH (3) [347]

Applications of probability concepts, conditional and expected value, utility and game theories, basic linear programming, executive decision-making, and operations research.

Bus 450 AUDITING (5) [352]

Generally accepted auditing standards and principles; auditing objectives and methodology.

Bus 451 CONTEMPORARY ACCOUNTING THEORY (5) [Sr., Maj or CPA candidate]

A study of contemporary accounting issues and their theoretical implications; review of the accounting literature, especially pronouncements of the American Institute of Certified Public Accountants.

Bus 453 ADVANCED ACCOUNTING (5) [351, 352]

Postulates and conventions underlying accounting for ownership equity in partnerships and corporations, installments, consignments, agency and branch, corporate combinations, and consolidations.

Bus 455, 456 FEDERAL INCOME TAX I, II (5 each) [Jr or p]

Provisions of the federal income tax laws affecting the determination of taxable income of individuals, partnerships, corporations, and estates and trusts; federal estate and gift taxes.

Bus 457 C.P.A. REVIEW (5) [453, 356]

Intensive review of accounting theory and practices, with emphasis upon preparation for the C.P.A. examination.

Bus 472 FOUNDATIONS OF DISTRIBUTIVE EDUCATION (3)

This is an introductory course involving the study of distributive and vocational education history, developments, definitions, purposes, legislation, and state standards of teacher certification.

Bus 474 ORGANIZATION AND ADMINISTRATION OF COOPERATIVE PROGRAMS (3)

Operational procedures for conducting cooperative programs; includes the development of directed-work training, state requirements, and program organization and administration.

Bus 475 METHODS OF TEACHING DISTRIBUTIVE EDUCATION (3)

Prepares prospective teacher-coordinators for effective classroom teaching. The course includes: Lecture methods, individual instruction, role playing, creative projects and effective problem-solving.

Bus 476 a, b, c, d, e BUSINESS EDUCATION METHODS (5)

(Each section lasts about two weeks)

476a—Principles of Business Education, curricular problems, tests

and measurements.

476b—Materials, methods, and techniques of teaching shorthand and transcription.

476c—Materials, methods, and techniques of teaching typing and office practice.

476d—Materials, methods, and techniques of teaching book-keeping.

476e—Materials, methods, and techniques of teaching basic business subjects.

Bus 478 ELECTRONIC DATA PROCESSING METHODS (2) [380]

Prepares prospective teachers of Electronic Data Processing for effective classroom presentations. Includes materials, methods, and techniques.

Bus 479 ADVANCED PROGRAMS IN DISTRIBUTIVE EDUCATION (3) [Sr or G]

Organization and administration of Mid-Management programs, including: curriculum structure, specialized programs, federal and state regulations. Adult supplementary curriculum, selection and training of instructors, and adult supplementary program development.

Bus 480 MANAGEMENT SYSTEMS (4) [280]

The basic sub-systems of business organizations are studied as part of the total management system of the firm. Financial, production, operations, marketing, and personnel information systems are analyzed with emphasis on systems concepts and computer-based business systems.

Bus 481 SYSTEMS ANALYSIS AND DESIGN (4) [480]

The analysis and design of business systems. The structure and life cycle of systems, and the methodology of systems studies are analyzed. Systems studies are undertaken utilizing cases and actual business systems development projects.

Bus 491, 492, 493 PUBLIC AFFAIRS SEMINAR (3 each) [p]

Major objectives and activities of selected government, agriculture, industry, and labor organizations of the Spokane area in the light of broad public issues.

Bus 497 PROFESSIONAL INTERNSHIP (1-5)**Bus 498 SEMINAR (1-5)****Bus 499 DIRECTED STUDY IN BUSINESS (1-5) [P]**

Independent student projects in selected fields of business. Limited to seniors and graduate students.

GRADUATE COURSES**Bus 520 METHODS OF RESEARCH (4)**

A study of the methods, tools, and devices used in research with the preparation and writing of the research report. It is designed to help the student learn to evaluate research reports and studies. Each student will be required to prepare an outline of a proposed research problem for evaluation by the class.

Bus 521 SEMINAR: CURRENT ISSUES IN DISTRIBUTIVE EDUCATION (3) [p]

For experienced teachers in secondary schools and community colleges. Current practices, administration, legislation, problems in program and curriculum development, development of instructional materials, selected problems as determined by class enrollees.

Bus 531 SEMINAR: BUSINESS EDUCATION CURRICULUM (3)

A study of curriculum problems and trends in business education at the various school levels with emphasis upon the secondary school and junior or community college programs.

Bus 532 SEMINAR: ADMINISTRATION AND SUPERVISION OF BUSINESS EDUCATION

A study of selection, evaluation, promotion, or termination of business teachers. A study of computers in relationship to school business. How Business Education and Vocational Education are affected by government funding. Techniques used in purchasing, leasing, and maintaining office machines and equipment. Planning, organizing, and implementing business education policies.

Bus 539 SEMINAR: SPECIAL TOPICS (1-4)**Bus 541 SEMINAR: BUSINESS DECISION ANALYSIS (4)**

The use of the varied forms of analytical concepts in the approach to problems of management decision-making and forward planning through formulation of problems in a conceptual or quantitative manner capable of numerical solution.

Bus 544 SEMINAR: MARKETING MANAGEMENT (4)

A study of the marketing function of the firm which includes the moving of goods from production to consumption. Institutions, functions, regulations, costs, and contemporary marketing problems are appraised. Emphasis is given to developing a philosophy of the role of marketing in the American system of business.

Bus. 554 SEMINAR: ORGANIZATION THEORY AND MANAGEMENT (4)

A study of the research and theory dealing with objectives and goals, organizational structure, leadership authority and motivations, communications, delegation and decentralization, evaluation, decision making, control and future trends in organization.

Bus 560 SEMINAR: FINANCIAL MANAGEMENT (4)

Analysis of contemporary problems confronting the financial managers of business firms. Selected financial practices and analytical methods are appraised.

Bus 566 SEMINAR: ADMINISTRATIVE CONTROLS (4)

The use of accounting and statistics by management in the exercise of its financial planning and controlling functions; e.g., forecasting, budgets, standard costs and analysis of cost variations, financial management as a function of business enterprise.

Bus 573 MANAGEMENT INFORMATION SYSTEMS (4) [p]

An analysis of the concepts and techniques that underlie the development and control of information systems within the firm. Computer-based management information systems are emphasized.

Although it is desirable that the student have some knowledge of electronic data processing fundamentals, no technical expertise in the area is required.

Bus 596 COLLEGE TEACHING INTERNSHIP (1-5)

Teaching of a lower division college course under supervision of a regular faculty member. Includes course planning, arranging bibliographical and other instructional aids, conferences with students, experience in classroom instruction, and student and course evaluation.

Bus 599 INDEPENDENT STUDY IN BUSINESS (1-5) [P]**Bus 600 THESIS (6-9)**

Independent research study under the direction of a graduate advisory committee.

CHEMISTRY

Vincent L. Stevens, Chairman

1971-72 Staff: Behm, Breneman, Douglas, Harter, Marshall, McGoran Parker, Ritter.

Students majoring in chemistry may follow programs leading to the degrees of Bachelor of Science, Bachelor of Arts, or Bachelor of Arts in Education. The Bachelor of Science program is designed primarily for students planning a professional career in chemistry. The Bachelor of Arts degree provides a background in chemistry with more opportunity for diversified study. Students desiring to teach chemistry in secondary school may take the Bachelor of Arts in Education degree.

The chemistry department offers graduate work leading to the Master of Science degree and the Master of Education in chemistry. Students will find the Master of Science program useful as preparation for further graduate work, for teaching in the community colleges, or for careers as professional chemists. The Master of Education program is especially designed for high school chemistry teachers. Interdisciplinary programs with the biology and geology departments are available.

All chemistry students are encouraged to learn

some computer programming. Students who plan further graduate work are advised to complete two years of a modern foreign language.

All Chemistry courses, except Chemistry 390 may be applied to general college requirements in Science. (See page 19.)

BACHELOR OF ARTS DEGREE

Major in Chemistry: 45 credits

Chm 151, 152, 153 General Chemistry	15
Chm 304 Quantitative Analysis	6
Chm 307, 308 Organic Chemistry	10
Chem 421, 422, 431, 432 Physical Chemistry	10
Electives chosen from 300 and 400 level	
Chemistry courses (exclusive of Chm 390)	4
	<u>45 credits</u>

Required supporting courses: 32 OR 35 credits

Mth 131, 132 Precalculus Mathematics I, II	10
Mth 161 Introduction to Calculus	5
Mth 162 Techniques of Calculus I	5
Phy 231, 232, 233 Advanced Physics, 9, OR	
Phy 131, 132, 133 Introductory Physics, 9	9
Phy 141, 142, 143 Laboratory Techniques, 3 OR	
Phy 234, 235, 236 Adv. Phy Laboratory, 6*	3-6
	<u>32-35 credits</u>

*only if enrolled in Phy 231, 232, 233

Minor in Chemistry: 15 credits of upper division Chemistry courses, excluding Chemistry 300 and 390.

BACHELOR OF ARTS IN EDUCATION DEGREE

Requirements and supporting courses are the same as for the Bachelor of Arts degree. See above.

Requirements for a Minor in Chemistry: same as requirements for a Minor in Chemistry, Bachelor of Arts. See above.

BACHELOR OF SCIENCE DEGREE

This program is designed for those students who plan a professional career in Chemistry.

Major in Chemistry: 60 credits

Chm 151, 152, 153 General Chemistry	15
Chm 304 Quantitative Analysis	6
Chm 307, 308 Organic Chemistry	10
Chm 421, 422, 423, 431, 432, 433 Physical	
and Theoretical Chemistry	15
Chm 498, 499 Seminar* and Directed Study	6
Electives from 300 and 400 level	
Chemistry courses	8
	<u>60 credits</u>

*Upper division chemistry majors are expected to attend seminar regularly.

Required Supporting Courses: 27 OR 30 credits

Mth 161 Introduction to Calculus	5
Mth 162, 163 Techniques of Calculus I, II	10
Phy 231, 232, 233 Advanced Physics	9
Phy 141, 142, 143 Laboratory Techniques, 3 OR	
Phy 234, 235, 236 Advanced Phy. Laboratory, 6	3-6
	<u>27-30 credits</u>

Minor in Chemistry: Same as requirements for minor in Chemistry, Bachelor of Arts, See above.

CHEMISTRY COURSES

CHM 100 INTRODUCTION TO CHEMISTRY (5)

This course prepares those who have not had a satisfactory background in high school chemistry to take Chm 151 or 161.

CHM 151, 152, 153 GENERAL CHEMISTRY (5 each) [Below]

Stoichiometry, periodic table and chemical bonding, structure of matter, solutions, equilibrium, kinetics, redox, quantitative laboratory techniques, qualitative analysis, transition metal complexes, introduction to spectroscopic and chromatographic analyses, nuclear chemistry. Prereq: Two semesters of high school chemistry with grade of C or better, or Chm 100, Mth 104.

CHM 161 GENERAL INORGANIC CHEMISTRY FOR HEALTH SCIENCES (5) [100 or 1 yr. HS Chm]

A course in inorganic chemistry designed for nursing, home economics majors and allied health sciences.

CHM 162 ORGANIC CHEMISTRY FOR HEALTH SCIENCES (5) [161]

A course in organic chemistry for nursing, home economics majors and allied health sciences.

CHM 163 BIOCHEMISTRY FOR HEALTH SCIENCES (5) [162]

A course in biochemistry for nursing, home economics majors, and allied health sciences.

CHM 300 BASIC CONCEPTS OF CHEMISTRY (5)

Primarily for non-majors. A course designed to provide an appreciation for the general, basic concepts of chemistry.

CHM 304 QUANTITATIVE ANALYSIS (6) [153]

Theory and practice of gravimetric and volumetric analysis with an introduction to some elements of instrumental analysis.

CHM 307, 308 ORGANIC CHEMISTRY (5 each) [153]

Nomenclature, properties, structure, and preparation of the more important organic compounds.

CHM 390 CHEMISTRY METHODS FOR THE SECONDARY SCHOOL (3) [Backgrd.]

A course for chemistry majors planning to teach in the secondary schools. Organization of lesson materials and techniques and evaluation will be included in the course.

CHM 409 ORGANIC CHEMISTRY (3) [308]

A comprehensive study of the chemistry of polyfunctional carbon compounds.

CHM 410 ORGANIC QUALITATIVE ANALYSIS (3) [308]

An introductory course in the analysis of organic compounds and the methods of separating simple mixtures.

CHM 418 MODERN ANALYTICAL CHEMISTRY (5) [304]

Theory and practice of recently developed techniques of analytical chemistry.

CHM 419 ADVANCED INORGANIC CHEMISTRY (4) [422]

The ionic, covalent, and metallic bond; theories of complexes, acids, bases and non-aqueous and solvents; thermodynamics of inorganic reactions; introduction to rates and mechanisms of inorganic reactions; chemistry of selected groups of elements.

CHM 420 INSTRUMENTAL ANALYSIS (5) [(Conc. En. optional) 423, Phy 133 or 233]

Instrumental methods of analysis.

CHM 421, 422, 423 PHYSICAL AND THEORETICAL CHEMISTRY (4,3,3) [304, Phy 233 or 133, Mth 161] Recommended: CS 230

Classical and statistical thermodynamics, electrochemistry, kinetics, quantum theory, symmetry, spectroscopic and diffraction methods of structure determination, nuclear and radiation chemistry.

CHM 431, 432, 433 PHYSICAL CHEMISTRY LAB (1, 2, 2) [Conc. En. in 421, 422, 423, Phy 143]

Data treatment, current physico-chemical techniques, applications to chemical systems.

CHM 450 PHYSIOLOGICAL CHEMISTRY OR BIOCHEMISTRY (5) [304, 308]

Elements of biochemistry.

CHM 451 INTERMEDIARY METABOLISM (3) [450]

An examination of mitochondrial reactions, glycolysis, pentose metabolism, photosynthesis and biosynthesis of sugars, amino acids and nucleotides.

CHM 452 POLYMER BIOSYNTHESIS AND BIOCHEMICAL CONTROLS (3) [450]

An examination of the biochemical systems responsible for synthesis of polysaccharides, nucleic acids and proteins, as well as regulation of these systems.

CHM 497 WORKSHOPS, SHORT COURSES, CONFERENCES**CHM 498 SEMINAR (arr)** [p]

(May be repeated for a maximum of 9 credits.) Library and-or conference study of special topics.

CHM 499 DIRECTED STUDY (arr) [P]

(May be repeated for a maximum of 9 credits.)

GRADUATE COURSES**CHM 501 SEMINAR IN SELECTED TOPICS** [arr]

A presentation of selected topics from the current literature.

CHM 520 RESEARCH METHODS (3) [p]

Methods of literature and laboratory research.

CHM 530 ADVANCED PHYSICAL I, ENERGETICS (4) [Below]

Classical and statistical thermodynamics, quantum mechanics. Prereq 1 year of physical chemistry, 1 year calculus, 1 year physics.

CHM 531 ADVANCED PHYSICAL II, KINETICS (4) [530]

Chemical kinetics, theory of vibration-rotation, electronic nuclear magnetic resonance and electron spin resonance spectra; diffraction methods.

CHM 540 ADVANCED INSTRUMENTAL ANALYSIS (4) [420]

An extension of Chm 420 with an emphasis on the more complex methods and instrumentation of chemistry.

CHM 550, 551 ADVANCED BIOCHEMISTRY (5,5)

Energy metabolism, metabolic control mechanisms, the mechanism of enzymatic reactions, the expression of genetic information.

CHM 555 PHYSICAL ORGANIC CHEMISTRY (4)

A study of the mechanism of reactions by quantitative methods; effects of structure and environment on reactivity.

CHM 556 SYNTHESIS OF ORGANIC COMPOUNDS (4)

Synthetic methods for aliphatic, aromatic, and organo-metallic compounds. Structures, determination and synthesis of steroids and other natural organic products.

CHM 560 THEORETICAL INORGANIC CHEMISTRY (4) [422]

The application of group theory, symmetry principles, and the theories of bond formation (valence bond, crystal field and MO theories) to inorganic structure.

CHM 596 COLLEGE TEACHING INTERNSHIP (1-5)**CHM 599 INDEPENDENT STUDY (arr)** [P]**CHM 600 THESIS (1-9)****CHM 601 RESEARCH PROJECT (arr)**

Development of a coherent experimental attack on a specific problem in a single field of chemistry.

COMMUNITY COLLEGE PROGRAM

Boyd Mills, Director

1971-72 Staff: Wright

Eastern Washington State College offers a core of courses that are specifically designed to prepare community college faculty. Students desiring to enter community college teaching should plan to take the major portion of their graduate work in the subject area of their interest with attention to both depth and breadth. The program is individually planned. The teaching preparation centers on the following courses.

GRADUATE COURSES**CC 539 SPECIAL PROJECTS (3)**

Visitations to community colleges and pre-internship planning in preparation for a specific instructional assignment.

CC 571 SEMINAR: COLLEGE TEACHING (3)

Seminar emphasizing instruction in the community college; the institution, programs, students and faculty.

CC 581 WORKSHOP: COM. COLLEGE TEACHING (1-3) [P]

Special aspects of community college teaching such as instructional methods, course planning, evaluation, advising.

CC 596 COLLEGE TEACHING INTERNSHIP (5-15) [P]

Teaching under supervision at a community college. Includes regular instructional responsibilities and additional planned experiences in the college to effectively introduce the student to current practices.

CC 599 INDEPENDENT STUDY (arr) [P]

Students with strong background and preparation may investigate special problems in community college education.

Computer Science
See Mathematics

DENTAL HYGIENE PROGRAM

Dr. Clifton M. Smith, Director

1971-72 Staff: Been, Doran, McHenry.

The B.S. in Dental Hygiene consists of a two-year pre-dental hygiene and a two-year professional curriculum; the latter includes practical clinical experience. Formal application to the dental hygiene program is made after completion of general college requirements and specific prerequisite courses. Admission requirements include results of the Dental Hygiene Aptitude Test administered annually at testing centers and dental hygiene schools.

BACHELOR OF SCIENCE IN DENTAL HYGIENE DEGREE

The following is a list of courses required to be completed before admission to the dental hygiene program.

Preparation for major in Dental Hygiene (including general college requirements): 82 credits

Bio 100 Biological Science	5
Bio 132, 133 Anatomy and Physiology	10
Bio 221 Elementary Medical Microbiology	5
Chm 161, 162, 163 Chemistry for the Health Sciences	15
Spe 200 Introduction to Speech Communication	4
One basic Psychology course	5
One basic Sociology course	5
Choice of Psychology 180, 302, 350, 355 or 357 or equal.	5
English composition (students must satisfy the college requirements for demonstrating competence in English composition)	8
Humanities courses	5
Health Education 370—Personal and Community Health	5

Upon successfully securing admission to the Dental Hygiene program, the student will take the following program fulfilling requirements for a major in Dental Hygiene.

Major in Dental Hygiene: 74 credits

DH 300, 301, 302 Oral Biology and Pathology	12
DH 306 Dental Hygiene Restorative Duties	3
DH 310 Radiography	3
DH 320 Pharmacology and Dental Emergencies	3
DH 350 Clinical Orientation	5
DH 351, 352 Clinical Dental Hygiene	10
DH 360 Preventive Dentistry	3
DH 430, 431 Periodontology	8
DH 450, 451, 452 Clinical Dental Hygiene	15
DH 460, 461 Community Dental Health	4
DH 470 Office Procedure, Ethics and Jurisprudence	3
DH 491 Seminar in Professional Development	2
HEC 356 Nutrition	3
	<hr/> 74 credits

DENTAL HYGIENE COURSES

DH 300 ORAL BIOLOGY AND PATHOLOGY (4)

An introduction to the study of head and neck anatomy and oral pathology. Emphasis will be placed on the embryological, histologi-

cal, anatomical and pathological aspects of bone and muscle structure. Tooth morphology will be introduced.

DH 301 ORAL BIOLOGY AND PATHOLOGY (4)

A continuation of DH 300, with emphasis on the embryological, histological, anatomical and pathological aspects of nerve and circulatory structure.

DH 302 ORAL BIOLOGY AND PATHOLOGY (4)

A continuation of DH 301, with emphasis on the embryological, histological, anatomical, and pathological aspects of epithelial and glandular structure.

DH 306 DENTAL HYGIENE RESTORATIVE DUTIES (2)

An introductory course in dental materials with technique, laboratory and clinical experience to develop skills in the restorative duties that can legally be assumed by the dental hygienist.

DH 310 RADIOGRAPHY (3)

An introduction to the 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 patients.

DH 320 PHARMACOLOGY AND DENTAL EMERGENCIES (3)

Principles of pharmacological and therapeutic action drugs used in dentistry, and an orientation in dental emergencies.

DH 350 CLINICAL ORIENTATION (5)

Introduction to clinical dental hygiene work emphasizing the importance and techniques of the oral inspection and the prophylaxis polishing technique.

DH 351, 352 CLINICAL DENTAL HYGIENE (5 each)

Supervised experience in clinical procedures of dental hygiene, increasing in scope of opportunity as skill is attained.

DH 360 PREVENTIVE DENTISTRY (3)

A survey of caries control procedures, emphasizing dietary considerations, topical fluorides, toothbrushing methods, and proper oral hygiene. Techniques of motivating patients and instructing in an effective oral hygiene program.

DH 430, 431 PERIODONTOLOGY (4 each)

Study of the etiology and treatment of periodontal diseases, especially as they relate to dental hygiene practice.

DH 450, 451, 452 CLINICAL DENTAL HYGIENE (5 each)

Supervised experience in clinical procedures of dental hygiene, increasing in scope of opportunity as skill is attained.

DH 460 COMMUNITY DENTAL HEALTH (2)

A survey of various community dental health programs, with field experience in dental health instruction in schools and hospitals.

DH 461 COMMUNITY DENTAL HEALTH (2)

A continuation of the study of other agencies and programs associated with community dental health, with field experience, participation, and written reports in selected community dental health programs.

DH 470 OFFICE PROCEDURES, ETHICS AND JURISPRUDENCE (3)

Practice management considerations of dental hygiene. History, interrelations, and ethics of branches of dentistry.

DH 491 SEMINAR IN PROFESSIONAL DEVELOPMENT (2)

Survey of most current literature in dental field and introduction to research methodology. Consideration in applying teaching principles in dental hygiene.

DRAMA

R. Boyd Devin, Chairman

1971-72 Staff: Boulanger, Kent, Michaeloff,
Pfuehler, Stevens

BACHELOR OF ARTS DEGREE

Major in Drama: 60 credits

DrM 101 Introduction to Theater	3
DrM 103 Voice and Diction	3

Drm 110 Fundamentals of Acting	3
Drm 201 Drama Appreciation	3
Drm 226 Stage Make-up	2
Drm 319 Rehearsal and Performance	5
Drm 320 Scene Design	3
Drm 321 Play Production: Directing	5
Drm 322 Stage Construction	3
Drm 323, 324 Stage Costume	3
Drm 420 Stage Lighting	6
Electives in Drama: 21 credits	
Selected from Drm 319, 330, 331, 498, 499	21
	<hr/> 60 credits

Minor in Drama: 15 credits

Drm 101 Introduction to Theater	3
Drm 103 Voice and Diction	3
Drm 201 Drama Appreciation	3
Electives in Drama	6
	<hr/> 15 credits

BACHELOR OF ARTS IN EDUCATION DEGREE

Major in Drama (Secondary): 45 credits

Drm 101, Introduction to Theater	3
Drm 103 Voice and Diction	3
Drm 110 Fundamentals of Acting	3
Drm 226, Stage Makeup	2
Drm 319 Rehearsal & Performance	3
Drm 320 Scene Design	5
Drm 321 Play Production: Directing	3
Drm 322 Stage Construction	5
Drm 420 Stage Lighting	3

Electives: 15 credits selected from the following:*

Drm 201 Appreciation of Drama	3
Drm 323 or 324, Stage Costume	3
Drm 330 or 331, History of Theater	5
Drm 341, Creative Dramatics	3
Hum 451, 452 Comparative Drama	4 ea.
RTV 100 Intro to RTV Broadcasting	4
RTV 440 Educational RTV	3
SpC 310-410 Oral Interpretation	3 ea.
SpC 319 Choral Interpretation	3
SpC 412, Interpretation of Shakespeare	3
Eng 392 Teaching of English in 'the Secondary School	4 15
	<hr/> 45 credits

*No more than 1 additional course may be in Drama.

Minor in Drama: 15 credits

Drm 101 Introduction to Theater	3
Drm 103 Voice and Diction	3
Drm 110 Fundamentals of Acting	3
Electives in Drama	6
	<hr/> 15 credits

DRAMA COURSES

DRM 101 INTRODUCTION TO THEATER (3)

Elements of drama, dramatic structures, types, and styles.

DRM 103 VOICE AND DICTION (3)

Studies in phonation, articulation and pronunciation.

DRM 110 FUNDAMENTALS OF ACTING (3)

Communication through the use of visual stimuli. Projects in pantomime and beginning character interpretation on the stage.

DRM 201 DRAMA APPRECIATION (3)

Analysis of a few selected dramatic masterpieces past and present; designed to increase the student's awareness of the tradition, values, and ideas of the theater

DRM 226 STAGE MAKE-UP (2)

A course primarily composed of laboratory sessions where the student may study basic and advanced techniques and principles of straight stage make-up and character make-up.

DRM 310 ADVANCED ACTING (3) [110, Jr]

A continuation of acting techniques with emphasis on characterization and acting styles.

DRM 319 REHEARSAL AND PERFORMANCE (1-5) [p]

Amount of credit to be determined by role played or by work done in any one production. A maximum of 12 credits may be applied toward major.

DRM 320 SCENE DESIGN (5) [322]

A survey of methods used and problems encountered by the modern scenic artist. A study of modern tendencies, techniques, and media.

DRM 321 PLAY PRODUCTION: DIRECTING (3)

Technique of directing a play, problems of the director, suggested lists of plays. Each student is required to cast and direct a one-act play for class production.

DRM 322 STAGE CONSTRUCTION (5)

A course designed to familiarize the students with stage mechanics. An introduction to styles and types of scenery, materials, tools, and construction skills. Practical problems will consist of providing scenic needs for a major college production.

DRM 323 STAGE COSTUME (3)

Principles of stage costume. An approach to the design and construction of stage costumes from the historical and applied aspects. Egyptian to Elizabethan period.

DRM 324 STAGE COSTUME (3)

Principles of stage costume. An approach to the design and construction of stage costumes from the historical and applied aspects. Elizabethan to modern period.

DRM 330, 331 HISTORY OF THE THEATER (5 each) [101]

The physical theater and its effect on dramatic literature from its rise in Greek civilization to the present, analysis of representative plays; the theater as an institution.

DRM 341 CREATIVE DRAMATICS (3) [p]

Survey of literature suitable for dramatization; demonstration classes.

DRM 399 SPECIAL STUDIES IN DRAMA (1-3)

Subjects studied vary according to faculty and student interest.

DRM 420 STAGE LIGHTING (3)

A course designed to introduce the student to present day techniques in stage lighting. Course will examine theories and practical application of these through light plots, media, theatrical wiring, and instruments.

DRM 497 CREATIVE ARTS SUMMER FESTIVAL (1-4)—Su

DRM 498 CREATIVE ARTS SUMMER PROGRAM LABORATORY (1-3)—Su

DRM 499 DIRECTED STUDY IN DRAMA (1-5) [p]

Individual study projects in a selected special field of drama. Limited to senior and graduate students.

GRADUATE COURSES

DRM 596 COLLEGE TEACHING INTERNSHIP (1-5)

Teaching of a lower division college course under supervision of a regular faculty member. Includes course planning, arranging bibliographical and other instructional aids, conferences with students, experience in classroom instruction, and student and course evaluation.

DRM 599 INDEPENDENT STUDY IN DRAMA (1-5) [p]

Independent study projects in a selected field of drama.

**Driver Training
See Education**

ECONOMICS

Paul L. Helsing, Acting Chairman

1971-72 Staff: Bonsor, Bunting, Hamblin,
Hoekendorf, Liu, Neils, Parnes,
Snyder, Trulove, Young.

46—ECONOMICS

The College desires to maintain a maximum of individual flexibility in the development of each student's major program. For students majoring in Economics a variety of programs is possible. The following suggested group patterns are expected to meet the needs of most students; other patterns may be developed under the guidance of the student's adviser, with approval of the department chairman.

BACHELOR OF ARTS DEGREE

CORE FOR ALL ECONOMICS MAJORS: 30 CREDITS

Eco 201, 202	10
Eco 304	5
Eco 305	5
Eco 410 OR Eco 412	5
Eco 415	5
	<hr/>
	30 credits

Major in Economics: 60 credits

CORE	30
Eco 401 Applied Quantitative Economics	5
Eco 430	5
Electives in Economics	20
	<hr/>
	60 credits

Major in Economics: 45 credits

CORE	30
Electives in Economics	15
	<hr/>
	45 credits

Required Supporting Courses for 60-Credit and 45-Credit Majors

Mth 200	5
Bus 245, 346	8
	<hr/>
	13 credits

Major in Economics with Minor Options in Business Administration: 57-60 credits

CORE	30
Eco 435	5
Electives in Economics	5
One of the following options:	12-15
	<hr/>
	57-60 credits

Option 1 (General): 12 credits

Bus 335 Financial Management	4
Bus 411 Marketing Research	4
Bus 425 Production Management Analysis	4
	<hr/>
	12 credits

Option 2 (Marketing): 12-13 credits

Bus 311 Marketing Analysis	4
Bus 411 Marketing Research	4
Elective related to Marketing	4-5
	<hr/>
	12-13 credits

Option 3 (Accounting and Finance): 13-14 credits

Bus 335 Financial Management	4
Bus 356 Cost Accounting	5
Elective related to accounting and finance	4-5
	<hr/>
	13-14 credits

Option 4 (Industrial Management): 14-15 credits

Bus 325 Principles of Production	3
Bus 425 Production Management Analysis	4
Electives related to industrial management	7-8
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	14-15 credits

Required supporting courses: 23 credits

Mth 200 Finite Mathematics	5
Bus 245, 346 Methods of Quantitative Business Analysis I, II	8
Bus 251, 252 Accounting Principles, I, II	10
	<hr/>
	23 credits

Majors in economics with a minor in business administration will be allowed to take one of the above options without the prerequisites with approval of the appropriate Business department chairman.

Joint Major in Economics and Mathematics: 76-77 credits

Core	30
Eco 431	5
Eco 437	4
Mth 161, 162, 163	15
Mth 331	4
Mth 361	4
Mth 457, 458	8
CS 230	3
Mth 475 OR Math 402 OR CS 330	3-4
	<hr/>
	76-77 credits

Alternate area of study (major) in Social Science (Secondary) Economics, as described in the section on Social Science Education Page 102.

THIRTY CREDIT (ECONOMICS) COMPONENT ALTERNATE SOCIAL SCIENCE MAJOR

Eco 201, 202 Introduction to Economics I, II	10
Group I Electives—10 credits selected from Eco 321, 340, 344, 424 or 425, 446, 478 or 479	10
Group II Electives—10 credits selected from Eco 410, 412, 415, 470, 475, 480	10
	<hr/>
	30 credits

TWENTY CREDIT (ECONOMICS) COMPONENT ALTERNATE SOCIAL SCIENCE MAJOR

Eco 201, 202 Introduction to Economics I, II	10
5 hours will be chosen from Group I Electives	
5 hours will be chosen from Group II Electives	10
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	20 credits

Minor in Economics: 15 credits

Eco 201, 202 Introduction to Economics, I, II	10
Electives in Economics	5
	<hr/>
	15 credits

BACHELOR OF ARTS IN EDUCATION DEGREE

Major in Social Science (Secondary) Economics: 45 credits

Eco 201, 202	10
Eco 490 OR Equivalent Directed Study	3
Group I Electives (Selected from Eco 321, 340, 344, 424 OR 425, 446, 478 OR 479)	10
Group II Electives (Selected from Eco 410, 412, 415, 470, 475, 480)	10
Group III Electives—Additional Electives in Economics—with the concurrence of an Economics Education adviser, all or part of this portion of the major requirements may be satisfied by course work in the other social sciences designed to strengthen the student's overall social science preparation. If Eco 304 and 305 are not elected, the courses should be taken during the fifth year program	12
	<hr/>
	45 credits

Other courses may be substituted for the above by the Department advisers.

ECONOMICS COURSES

ECO 201 INTRODUCTION TO ECONOMICS I (5) [Below]

Introduces the method and subject of economics and surveys the institutions of the American economy. Particular attention is given to general functioning of a price system, fundamentals of supply and demand, national income accounts, determinants of the level of national income, and the impact of monetary and fiscal policy on aggregate performance. Among the specific problems dealt with are full employment, price stability, economic growth, and balance of payments equilibrium. Prereq: Third quarter freshman standing.

ECO 202 INTRODUCTION TO ECONOMICS II (5) [Below]

Continues Eco 201. Particular attention is given to the variety of market forms possible within the framework of a free enterprise economy, the theory of the firm determination of individual and factor incomes, and government intervention in the economy to promote efficiency and equity. Attention is also given to international trade problems and policies, the economic problems of under-developed countries and alternatives to the free enterprise system. Prereq: Third quarter freshman standing.

Economics majors must complete both parts of the introductory course and Mth 200 (Finite Mathematics) or its equivalent, or have permission of the instructor before enrolling in Eco 304 (Intermediate Economic Theory) or Eco 305 (Aggregate Economics).

ECO 299 DIRECTED STUDY IN ECONOMICS (3)

Individual reading and research. Restricted to sophomores who have completed Eco 202, and freshmen and sophomore participants in Model United Nations.

ECO 301 INTRODUCTION TO ECONOMICS I (5) [Su or P]

(Same as Eco 201) With additional requirement of a research project.

ECO 302 INTRODUCTION TO ECONOMICS II (5) [Su or P]

(Same as Eco 202) With additional requirement of a research project.

ECO 304 INTERMEDIATE MICROECONOMIC THEORY (5) [202 & Mth 200 or eq., or p]

Investigates the 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.

ECO 305 INTERMEDIATE MACROECONOMIC THEORY (5) [202 & Mth 200 or eq., or p]

To provide the theoretical framework and factual background for investigation of aggregate and sectoral (consumption, investment, government and foreign) behavior of an economy to explain the extent of resource utilization, level of output, level of employment, level of general prices, rate of economic growth, and related problems.

ECO 321 LABOR ECONOMICS (5) [202]

The development of the American labor movement, the structure of unionism, demands and accomplishments of labor, the contemporary movement.

ECO 340 PUBLIC FINANCE AND TAXATION (5) [202]

Basic principles of public finance with particular emphasis on the effects of principal taxes on the distribution of income, allocation of production factors, incentives, and economic welfare.

ECO 344 MONEY AND BANKING (5) [202]

A survey of the theory of money, credit, and banking. Commercial banking and the Federal Reserve; monetary policy.

ECO 399 SPECIAL STUDIES IN ECONOMICS (3-5)

Subjects studied vary according to faculty and student interest.

ECO 401 ECONOMIC RESEARCH METHODS (5) [202 and Bus 346 or eq.]

Includes research topics particularly interesting to economists, such as data sources and collection; index number; time-series analysis; simulation of economic models, input-output analysis, and linear programming related to economic problems.

ECO 405 ECONOMIC FLUCTUATION AND FORECASTING (3) [202]

Describes and examines economic fluctuations at the aggregate and sectoral levels, surveys recent business cycle theory, introduces the techniques of forecasting and considers the policies for maintaining economic stability.

ECO 410 ECONOMIC HISTORY OF EUROPE (5) [Jr]

(Same as His 410) Concerned with the economic history of Europe from the latter days of the Roman Empire to the twentieth century. Principal emphasis is placed on Europe's transition from traditional to modern economic life and subsequent emergence into the age of high mass consumption.

ECO 412 ECONOMIC HISTORY OF THE UNITED STATES (5) [Jr]

(Same as His 412) The 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.

ECO 415 HISTORY OF ECONOMIC THOUGHT (5) [202]

A survey of economic thought to the early twentieth century; special attention to selected writers including Aristotle, the Mercantilists, the Physiocrats, Hume, Smith, Malthus, Ricardo, Marx, the Marginalists, and Marshall.

ECO 423 COLLECTIVE BARGAINING (5) [321 or p]

A study of the principles and practices of collective bargaining; mediation and arbitration of industrial disputes; grievance procedures and administration of labor-management agreements.

ECO 424 ECONOMICS OF POVERTY AND ECONOMIC SECURITY PROGRAMS (5) [202]

A study of the causes of poverty and an evaluation of the possible remedies especially current and proposed programs. Implications of causes of poverty and suggested remedies will be given special attention.

ECO 425 ECONOMICS OF MANPOWER (5) [202] [Recom 321]

A study of the current manpower situation and programs, with particular emphasis on use of estimation models in manpower planning.

ECO 426 LABOR LEGISLATION AND PUBLIC POLICY (5)

An appraisal of labor law, with particular emphasis upon the federal statutes and court decisions; consideration of proposed legislation.

ECO 430 INTRODUCTION TO MATHEMATICAL ECONOMICS (5) [202, Mth 200 or eq.]

To provide mathematical methods and techniques to the economics student and to develop his ability to appreciate and apply mathematical analyses in economic problems. The emphasis is on equilibrium and comparative-static analysis.

ECO 431 MATHEMATICAL ECONOMICS (5) [202 & either 430 or Mth 331]

To provide advanced mathematical methods to the economics student to further develop his ability to appreciate and apply mathematical analysis in both micro- and macroeconomic systems. Special emphasis is devoted to dynamic analysis.

ECO 435 MANAGERIAL ECONOMICS (5) [202]

Purpose is to integrate economic principles with various areas of business administration. The emphasis is placed on approaching the problems of management decision making and forward planning by formulating problems in a quantitative manner capable of numerical solution.

ECO 437 INTRODUCTION TO ECONOMETRICS (4) [202 or p, & either Bus 346, Mth 353, or Mth 458]

To investigate the 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.

ECO 446 GOVERNMENT AND BUSINESS (5) [202]

A study of government and business relations. Anti-trust experiences and other techniques of industry control and their specific and general impact upon the economy of the nation.

ECO 448 PUBLIC UTILITY AND TRANSPORTATION ECONOMICS (3) [202]

Characteristics of transportation systems, market structure; case for and progress of public control of transportation agencies. Economic aspects, development, legal basis, and methods of regulation of public utilities.

Eco 449 POLITICAL ECONOMY (5) [202 & p]

The central question to be examined is how, in principle, public decisions can be made more rational, 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.

ECO 470 INTERNATIONAL ECONOMICS (5) [202]

The focus is the interaction of national economics and the problems arising therefrom. Particular attention is devoted to trade and payments problems and the development of regional and international economic institutions.

ECO 475 CAPITALISM AND SOCIALISM (5) [202]

Examines the economic systems of the advanced industrial nations. Particular attention is devoted to the general functioning

of capitalistic and socialistic economies, criteria for evaluating 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.

ECO 478 REGIONAL ECONOMICS (5) [202]

Economic analysis applied to regional problems. Emphasis is on 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. Emphasis on the Pacific Northwest.

ECO 479 URBAN ECONOMICS (5) [202]

The economics of urban problems and policies. Approaches urban areas as part of the regional economy. Topics include urban growth and development; land use; location ghettos; housing; government services and finance; and transportation.

ECO 480 ECONOMIC DEVELOPMENT (5) [202]

Primarily concerned with the development prospects of the present day under-developed countries. The historical development of the industrial countries is dealt with by analogy. Attention is given to both economic and non-economic factors in the development process and to population problems and human resource development.

ECO 482 DEVELOPMENT IN LATIN AMERICA (5)

Study of the economic, sociological, and political structures and trends in representative countries of Latin America, including Mexico, Brazil, Argentina, and Cuba.

ECO 490 ECONOMICS EDUCATION (3) [202, SSc 390, p]

A second level methods course for those for whom economics education is either a primary or secondary interest. Emphasis is on the teaching of economics within both the senior level course and in units at the various grade levels K through 12. Attention is given to sources of information and materials.

ECO 491, 492, 493 PUBLIC AFFAIRS SEMINAR (3 each) [p]

Major objectives and activities of selected government, agriculture, industry, and labor organizations of the Spokane Area in the light of broad public issues.

ECO 497 WORKSHOPS**ECO 498 SEMINAR (3-5)****ECO 499 DIRECTED STUDY IN ECONOMICS (1-5) [P]**

Independent study projects in selected fields of economics. Limited to senior and graduate students.

GRADUATE COURSES**ECO 599 INDEPENDENT STUDY IN ECONOMICS (Arr) [P]****EDUCATION**

Also, Driver Training & Safety Education, Library Science

R. Dean Gaudette, Chairman

1971-72 Staff: M. Allen, Aplin, Barber, Bright, Callender, Chatburn, Engel, Fletcher, Fountain, M. George, P. George, Goetter, Hall, Hamblin, Hepton, Howard, Kabat, Leggett, Lewis, Maney, Marchant, Martin, Martinen, McDonough, Mercer, Midgley, Miller, Mills, Mitchell, Morrow, Myers, Oliver, Parton, Patmore, Pierce, Powers, Reid, Salsbury, Shaw, Shreeve, Stredwick, Stueckle, Surbeck, Whitfield, Wiley, Wilkens, Williams, Wilson.

The Department of Education is the coordinating agency in teacher education with the major responsibility for the Professional Education Sequence,

Admission to Professional Education, and First Year Teacher Visitation. Both undergraduate and graduate programs are available for the preparation of classroom teachers and other professional school personnel.

The graduate programs prepare elementary, secondary, and community college school personnel: teachers, administrators, counselors, and other student personnel workers; supervisors of student teaching; and subject specialists in most of the academic areas.

Programs which involve the Education and the Psychology departments include the teaching of educational psychology, and training of specialists in teaching the mentally retarded and the emotionally disturbed, school counselors and school psychologists, and teachers of young children.

MINOR IN DRIVER TRAINING & TRAFFIC SAFETY EDUC.: 15 credits

Ed 416 Safety Education	3
Ed 430 Traffic Safety Education I	3
Ed 434 Organization and Supervision in Traffic Safety Education	4
Ed 497 Workshop in Education: Advanced Driver and Traffic Safety Education	3
HE 196 First Aid and Safety Education	2
	<hr/> 15 credits

*** MINOR IN READING: 15-16 credits**

Ed 490 Reading in the Elementary School	3
Ed 494 Introduction to Remedial Reading	3
Eng 303 or LSc 403, Children's Literature	3
Five to six credits to be chosen from the following:	
SpC 414 Story Telling	3
SPA 451 Speech Correction, Principles and Practices	5
SpC 490 Speech for the Classroom	3
Eng 391 Teaching English in the Elementary School	4
	<hr/> 5-6
	15-16 credits

* The minor in Reading may not be taken in conjunction with an elementary major in English or Speech.

EDUCATION COURSES**ED 101 SOCIETY AND EDUCATION (4)**

A survey of the problems and controversies surrounding education. An analysis of these problems through a sociological-historical approach. The class will emphasize the close relationship between society and education. Designed as a general education course.

ED 146 IMPROVEMENT OF LEARNING (3)

Practical experience in how to improve learning in college and analysis of difficulties involving different types of adjustment which interfere with the learning situation.

ED 161 DRIVER EDUCATION FOR BEGINNING DRIVERS (1)

Theory and practice of safe and efficient driving. Instruction in driving skills in a dual-control automobile.

ED 201 INTRODUCTION TO EDUCATION (3) [So]

Orientation to the role of the school in American society; professional preparation of teachers; and opportunities to serve.

ED 299 SPECIAL STUDIES

Subjects studied vary according to faculty and student interest.

ED 300 INTRODUCTION TO CLASSROOM EXPERIENCE (1-4)

Observation of and participation in the public school classroom management and instruction.

ED 303 EVALUATION IN EDUCATION (5) [Psy 302 with at least C grade]

Assessing, measuring, evaluating, grading, and reporting pupil progress in the classroom.

ED 304 INTRODUCTION TO ELEMENTARY READING (3) [Jr & 303]

Place of the reading skills in the total elementary school curriculum.

ED 305 INTRODUCTION TO LANGUAGE ARTS IN THE ELEMENTARY SCHOOL (3) [Jr & 303]

The place of listening, speaking and writing skills in the total elementary program.

ED 362 INTRODUCTION AND UTILIZATION OF INSTRUCTIONAL STRATEGIES (5) [303, Psy 302]

This course introduces and provides experience in utilizing three-unit approaches to instruction: basic instructional media, Flanders analysis of teacher behavior, and inquiry systems. A team teaching approach will be used.

ED 405 SOCIAL STUDIES AND SCIENCE IN THE ELEMENTARY SCHOOL (4) [Jr & 303]

The importance and place of social studies and science in the total elementary school curriculum. Content to be taught, recommended procedures to be used, and materials available for the teaching of these subjects. The creative aspects of these subjects as well as the concepts, data, and informational aspects.

ED 406 SENIOR SEMINAR (3) [ST]

Discussion of problems and issues common to both elementary and secondary levels of curriculum and teaching. Specific help in meeting individual needs.

ED 407 EDUCATION OF EXCEPTIONAL CHILDREN I (4)

Classroom procedures, techniques, and strategies utilized in the education of exceptional children.

ED 408 EDUCATION OF EXCEPTIONAL CHILDREN II (3)

Selection, evaluation, and use of instructional materials for the education of exceptional children.

ED 416 SAFETY EDUCATION (3)

The philosophy, history, and development of the accident prevention movement. Designed to acquaint students with the underlying factors and theories of accident causation and prevention and the impact of accidents upon the socio-economic well-being of the individual, the school, the community and the nation. Required for Traffic Safety Education Certification.

ED 420 ADMISSION TO PROFESSIONAL DEGREE CANDIDACY (2)

Includes video taping of student teaching a class at the level at which he wishes to be certified. Washington State Manual—exam or programmed course and competency in specified visual aids. Competency in handwriting.

ED 421-427 STUDENT TEACHING (16)

Supervised student teaching and other laboratory experiences for all of each school day for one quarter.

ED 421 PRIMARY STUDENT TEACHING, K-3**ED 422 INTERMEDIATE STUDENT TEACHING, 4-6****ED 423 ELEMENTARY STUDENT TEACHING, K-6 or 8****ED 424 JUNIOR HIGH STUDENT TEACHING, 7-9****ED 425 SENIOR HIGH STUDENT TEACHING, 10-12****ED 426 SECONDARY STUDENT TEACHING, 7-12****ED 427 GENERAL STUDENT TEACHING, K-12**

NOTE: For information regarding prerequisites, arrangements, and assignments, see the "Student Teaching" description on page 23.

ED 430 TRAFFIC SAFETY EDUCATION I (3) [416 or Conc. En.]

Major emphasis is devoted to an analysis of the driving task and the physical and mental requirements necessary to safe driving. Methods and materials of classroom instruction with emphasis on developing teaching units. Laboratory experience is devoted to improvement of the student's driving ability.

ED 431 TRAFFIC SAFETY EDUCATION II (3) [416 & 430]

Course designed to prepare student in methods and materials of in-car instruction. Lab experiences include programming and teaching beginning students on street and in the classroom. (Laboratory arranged.)

ED 432 METHODS AND INSTRUCTIONAL TECHNIQUES IN SIMULATION, MULTI-MEDIA AND RANGE (5) [Below]

An examination of the aims, objectives, and role of laboratory programs in traffic safety education. Directed laboratory experiences with new drivers will be provided. Emphasis will be on traffic simulators, multi-media, and multiple car methods of laboratory instruction. Prerequisite: Driver Education and Traffic Safety minor or Permission. (Laboratory arranged.)

ED 434 ORGANIZATION AND SUPERVISION IN TRAFFIC SAFETY EDUCATION (4) [416, 430, 431]

Organizational administrative aspects of traffic safety education as philosophical aspects, evaluation, related professional organizations, and occupational opportunities.

ED 462 INTRODUCTION TO AUDIO VISUAL AIDS (3)

Introduction to audiovisual aids and learning resources. A basis course in the operation of audio visual equipment.

ED 463 PRODUCTION OF TEACHING MATERIALS (5)

Laboratory experience includes mounting, laminating, enlarging, lettering, displaying, making overhead projector transparencies and lifts, and 3D instructional items. A lab fee (\$2.00 minimum) covers the cost of most supplies.

ED 471 SCHOOL DISCIPLINE PROBLEMS (3) [ST or Exp]—Su

Practical suggestions for handling discipline problems. Diagnosis and techniques for improving classroom behavior.

ED 473 INTRODUCTION TO PUPIL PERSONNEL SERVICES (4) [Sr; ST or Exp]

Philosophy, principles and techniques of the pupil personnel services.

ED 474 ELEMENTARY SCHOOL GUIDANCE (3) [Sr; ST or Exp]

A study of the various approaches to Elementary School Guidance including the role of the teacher and the specialist.

ED 475 PHILOSOPHY OF EDUCATION (4) [ST or Exp]

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 process. The chief purpose of the course is to help the student build for himself a democratic philosophy of education.

ED 479 EDUCATION IN THE KINDERGARTEN (4) [Jr; ST or Exp]

A survey of the history, theory, suitable equipment, and the best practices for the education of the five-year-old. A valuable course for first grade teachers. Special emphasis is placed upon helping the child become oriented to school routine.

ED 480 EDUCATION IN THE KINDERGARTEN WORKSHOP (3) [Jr; 479 or p]—Su

Materials and techniques for teaching nursery school or primary children. Opportunity for teachers to work on particular problems related to kindergarten education.

ED 482 WORKSHOP IN PUBLIC SCHOOL CURRICULUM (3-8) [Sr; ST or Exp]

For experienced elementary and secondary teachers to do intensive work on selected problems related to curriculum and techniques.

ED 483 WORKSHOP IN READING (3) [ST or Exp]

Study of the physical, emotional, social, and mental phases of reading. Special consideration will be given to the setting up of the classroom program leading to improvement of reading in various areas (primary or intermediate).

ED 490 READING METHODS IN THE ELEMENTARY SCHOOL (3) [304 or p]

Study of the processes involved in reading and the relationship of reading to the total elementary school curriculum.

ED 491 READING METHODS IN HIGH SCHOOL AND COLLEGE (3)

Classroom materials and procedures for the teaching of work-study reading as applied to various matter areas and the development of reading speed and fluency.

ED 492 JUNIOR HIGH SCHOOL STUDIES-LANGUAGE ARTS BLOCK (3) [ST or Exp]

The teaching of social studies-language arts in a block; objectives, curricula, teaching materials.

ED 493 REPORTING PUPIL PROGRESS (3) [ST or Exp]

Evaluation of pupil achievement; parent-teacher conferences; written reports to parents; use of cumulative materials in reporting.

ED 494 INTRODUCTION TO REMEDIAL READING (3) [304 & Sr or p]

Diagnosis of reading difficulties. Diagnostic practice with actual cases. Suggestions for remedial materials and procedures.

ED 497 WORKSHOPS, SHORT COURSES, OR CONFERENCES**ED 498 SEMINAR****ED 499 DIRECTED STUDY IN EDUCATION (Arr) [Jr; P]**

An opportunity for students with adequate background and experience to make intensive and independent study of some special problems in education.

GRADUATE COURSES**ED 501 EUROPEAN BACKGROUNDS OF AMERICAN EDUCATION (4)**

The part education has played in the development of Western culture; the beliefs, institutions, and ideals of a given culture that have determined the character of the school; the effects of the dominant social forces in a culture on the growth and development of children. Aims to integrate and interpret the contributions of writers and thinkers in the social sciences, philosophy, psychology, the arts, education.

ED 502 HISTORY OF AMERICAN EDUCATION (4)

The chief improvements and events in the economic, social, cultural, and philosophical development of America; the dominant religious and philosophical beliefs and the impact of all these upon teaching and school administration. The roots of many controversial issues of the present are studied to better understand and cope with them.

ED 503 CONTEMPORARY EDUCATION IN OTHER SOCIETIES (4)

An analytical and philosophical study of systems of education outside the United States; their development, present status, mission and needed direction of growth. School systems are studied in the context of the society and culture they serve. Western, Eastern, and Soviet educational ideologies will be considered.

ED 504 SOCIAL PHILOSOPHIES AND EDUCATION (4)—Su

An analysis and evaluation of the conflicting theories of fascism, communism, individualism, and pragmatic liberalism on the nature of society, and their implications for American education.

ED 505 CURRENT ISSUES IN EDUCATION (4)

Such aspects of the educational scene as federal aid, teachers' tenure, teachers' salaries, the political control of education, "indoctrination" versus education, religious and public education, school district reorganization, the community-centered school academic freedom.

ED 506 EDUCATIONAL SOCIOLOGY (4)

An analysis of American democratic ideology. An examination of major social problems such as race, social stratification, leisure time, population movements, family life, etc., and the relationship of these problems to public education.

ED 507 COMPARATIVE PHILOSOPHIES OF EDUCATION (4)

The philosophies of scholasticism, idealism, realism and experimentalism applied to problems of educational practice. Clarification of student's philosophy of education through reading and discussion.

ED 509 WORKSHOP IN EDUCATION (1-12) [ST or Exp] —Su

Workshops dealing with specific problems of common interest to the group enrolled.

ED 520 METHODS OF EDUCATIONAL RESEARCH (4)

Required of all graduate students pursuing the Master of Education degree program unless an alternative research course is scheduled. This course should be taken during the first or second quarter of graduate study. It provides the background of research methods and techniques necessary for meeting the requirements of Education 600 or 601. This course is concerned with a study of the methods, tools, and devices used in research in education, psychology, and academic fields, and with the preparation and

writing of the research report. It is also designed to help the student learn to evaluate research reports and studies. Each student will be required to prepare an outline of a proposed research problem for evaluation by the class group.

ED 531 ELEMENTARY SCHOOL CURRICULUM (4)

Curriculum practice and instructional materials most likely to improve instruction in the elementary school.

ED 532 SECONDARY SCHOOL CURRICULUM (4)

Curriculum practice and instructional materials most likely to improve instruction in the secondary school.

ED 533 THEORY AND PRACTICE IN MEDIA SYSTEMS (3) [Exp & 463]

An examination of advanced techniques utilized in developing and presenting instructional systems. Media will be selected, produced, organized and presented by each student via a correlated subject area system.

ED 534 THEORY AND PRACTICE IN PROGRAMMED INSTRUCTION (3) [Exp &/or p]

A survey of the historical and psychological background of programmed instruction. Provides practice in selecting, utilizing, evaluating, and writing programs and developing instructional devices.

ED 535 THEORY AND PRACTICE IN INSTRUCTIONAL PHOTOGRAPHIC TECHNIQUES (4) [362, Phy 350 or eq.; Exp. p]

Examination of advanced techniques in developing photographic messages particularly oriented to instructional purposes.

ED 539 SEMINAR IN EDUCATION (4) [Below]

A course dealing with special aspects of education. Prereq: Acceptance into Master's Degree Candidacy.

ED 541 PRINCIPLES AND PRACTICES OF GUIDANCE (4)

Philosophy, principles, and techniques of pupil personnel services.

ED 542 EDUCATION AND VOCATIONAL GUIDANCE (4) [1 yr. Exp]

Basic principles of guidance in dealing with pupil problems of an educational and vocational nature.

ED 543 ORGANIZATION AND ADMINISTRATION OF GUIDANCE (3)

The planning and operation of guidance programs on several educational levels. The philosophy, functions, organization, personnel, basic elements, activation, selection and training of staff, evaluation of the guidance program.

ED 551 SUPERVISION OF INSTRUCTION (4) [1 yr. Exp]

The work of the supervisor in improving instruction. Useful for principals, classroom teachers, and supervisors.

ED 552 SUPERVISION OF STUDENT TEACHING (4) [1 yr. Exp.] —Su

Preparation for positions as supervisors in college laboratory schools, and for public school teachers who supervise students in their off-campus student teaching assignments.

ED 561 ELEMENTARY SCHOOL ADMINISTRATION (4) [1 yr. Exp.]

Problems and procedures of administration and supervision of the elementary school.

ED 562 SECONDARY SCHOOL ADMINISTRATION (4) [1 yr. Exp.]

Procedures involved in internal organization and administration of the secondary school.

ED 563 PUBLIC SCHOOL ADMINISTRATION (4) [1 yr. Exp.]

Control, organization and administration of public education from the standpoint of national, state, and local responsibility, with special reference to the state of Washington.

ED 564 SCHOOL LAW (4) [1 yr. Exp.]

Study of court decisions and statutory law relating to the duties and powers of school officials and employees and their relationship, compulsory school attendance, school census, child labor, control, and organization.



ED 565 SCHOOL PUBLIC RELATIONS (4) [1 yr. Exp.] — Su

Background and understanding of the problems and procedures involved in the public relations program of the school. Policies, organizations, personnel, techniques, and procedures of public relations.

ED 566 PUBLIC SCHOOL FINANCE (4) [1 yr. Exp.] [Recom: 564]

Basic principles and regulations underlying public school finance with emphasis on sources of school revenue, methods of distribution of school monies, budget and budget making, financial accounting, auditing and reporting, with special reference to the state of Washington.

ED 569 ADMINISTRATION OF INSTRUCTIONAL MEDIA PROGRAMS (4)

Considers operational functions concerned with the administration of instructional media programs including selection, utilization, production, finance, services, and personnel.

ED 571 ARITHMETIC IN THE ELEMENTARY SCHOOL (3)

The mental processes in arithmetic; procedures and techniques which are most economical in teaching arithmetic in the elementary grades.

ED 573 DIAGNOSIS AND REMEDIATION IN READING (3) [494 or eq.]

Selection of reading disability cases. Planning of a remedial program and the use of corrective techniques and materials.

ED 574 SOCIAL STUDIES IN THE ELEMENTARY SCHOOL (3)

Place of social studies in the school program, the development of principles involved in the teaching of social studies.

ED 581 INSTITUTE IN EDUCATION: NDEA ELEMENTARY SCHOOL GUIDANCE AND COUNSELING (15)

An advanced institute to prepare elementary school teachers serving or preparing to serve as elementary counselors in developmental and corrective programs.

ED 583 GUIDANCE WORKSHOP (3)

A workshop dealing with special problems in elementary and secondary school guidance.

ED 591 SUPERVISED GUIDANCE PRACTICE (5)

Practical experience in various guidance techniques in the public schools.

ED 592 CLINICAL TECHNIQUES-READING DISABILITY (1-4) [573]

Supervised clinical work with remedial reading cases. May be repeated for a maximum of 12 quarter hour credits.

ED 595 PRACTICUM (1-5)

Practical, on-the-job experience for specialized school personnel planned cooperatively by a school district and the College. Students are selected for this experience by the College and the district in which the student is working. To register under this course number, the student must make application to the Chairman of the Education Department during May of the previous year.

ED 596 COLLEGE TEACHING INTERNSHIP (0-5)

Teaching of a lower division college course under supervision of a regular faculty member. Includes course planning, arranging bibliographical and other instructional aids, conferences with students, experience in classroom instruction, and student and course evaluation.

ED 597 WORKSHOPS AND SHORT COURSES**ED 599 INDEPENDENT STUDY IN EDUCATION (Arr) [P]**

Students with adequate background and experience make intensive and independent study of some special problems in education. Students should make arrangements through their graduate adviser.

ED 600 THESIS (6-9) [Below]

Independent undertaking of a field project or problem under direction of a graduate committee of two. Investigation of the problem chosen affords practice in educational research and is also expected to contribute directly toward the student's objective. Written research report (thesis) is bound and filed in the College library after approval by the committee. Prereq: Ed 520. By arrangement with the Dean of Graduate Studies.

ED 601 SEMINAR REPORT (3) [p]

Provides graduate students the opportunity to conduct research projects to be discussed and criticized by other graduates. Enrollees should have identified a specific problem prior to entering.

LIBRARY SCIENCE PROGRAM

Neither Major nor Minor available in Bachelor of Arts.

BACHELOR OF ARTS IN EDUCATION DEGREE**Minor in Library Science: 19 credits**

LSc 401 Sources of Information on Library Materials	3
LSc 402 Classification and Cataloging	4
LSc 403 Children's Literature, OR	
LSc 404 Adolescent Literature	3
LSc 405 Reference Work with Children and Young People	3
LSc 410 School Library Administration	3
LSc 497 Seminar in Learning Resources	3
	<hr/> 19 credits

Students minoring in Library Science with either an Elementary or Secondary Teaching emphasis are required to select Ed 462—Introduction to Audio-Visual Equipment and Learning Resources and Ed 463—Theory of Utilization and Preparation of Instructional Materials as electives under the specific requirements for Bachelor of Arts in Education degree.

LIBRARY SCIENCE COURSES**LSc 401 SOURCES OF INFORMATION ON LIBRARY MATERIALS (3)**

Aids and sources of information for evaluation and selection of print and non-print materials for the school library-media center.

LSc 402 CLASSIFICATION AND CATALOGING (4)

A laboratory in the acquisition and preparation of library-media center materials.

LSc 403 CHILDREN'S LITERATURE (3)

History and development of children's books with special reference to criteria, format and illustration. Critical reading in books will be emphasized.

LSc 404 ADOLESCENT LITERATURE (3)

Study and critical reading of the materials about and in the field of literature for the young adult.

LSc 405 REFERENCE WORK WITH CHILDREN AND YOUNG PEOPLE (3)

Methods and materials in the development of skills in the use of library reference.

LSc 408 LIBRARIES AND SOCIETY (3)

The history of libraries and their influence on society with special reference to the development of the school library movement.

LSc 410 SCHOOL LIBRARY ADMINISTRATION (3)

Effective organization and administration of the school library-media center program to implement the instructional program of the school.

LSc 412 READING GUIDANCE FOR CHILDREN AND YOUNG PEOPLE (3) [403 or 404]

Meeting the needs of children and young people from the standpoint of their abilities and interests by way of the school library. Emphasis is placed on the study of reading skills and interests as well as on the methodology of individual and group guidance.

LSc 497 WORKSHOPS, SHORT COURSES, OR CONFERENCES**LSc 498 SEMINAR****LSc 499 DIRECTED STUDY IN LIBRARY SCIENCE (P)****GRADUATE COURSES****LSc 501 PROBLEMS OF SCHOOL LIBRARY MANAGEMENT (3) [Below]**

Solution of the major problems of school library administration; standards, criteria, and specifications for collecting and housing of library materials. Control, budget and service problems are also considered. Prereq: LSc 410 or administrators with similar administrative courses or librarians with previous school library experience.

LSc 599 INDEPENDENT STUDY IN LIBRARY SCIENCE (1-3) [P]

Students applying for this course should have at least one year of experience in school library work and/or at least ten credits in other library science courses.

ENGLISH

Also, Humanities, Journalism, Philosophy

Kenneth A. Halwas, Chairman

Robert J. Gariepy, Coordinator, Humanities

Richard E. Hoover, Director, Journalism

Stephen H. Scott, Director, Philosophy

William D. Thomas, Director, College Writing Program

1971-72 Staff: Busskohl, Colton, Cook, Coontz, Gariepy, Geary, Gibbons, Goodwin, Grafious, Halwas, Hoover, Huston, Krebsbach, Kuo, Lass, McAuley, McManus, Miller, Minor, Nelson, O'Regan, Patton, Pflug, Raley, Rottmayer, Scott, Shuck, G. Smith, R. Smith, Snipes, Steiner, Taylor, Thomas, Tracy, Urcia, Wadlington, Wall, Weekes, Weller.

The Department of English has five purposes (1) to offer basic courses in the general areas of English, Journalism, and Philosophy to all students, (2) to offer general education courses in the Humanities area, (3) to offer specialized courses in the Humanities for students who plan to teach immediately after graduation and for students who plan to do further specializing in graduate schools, (4) to offer graduate courses in English for students working toward a Masters Degree in English or a Masters Degree in Education, and (5) to offer courses that will help the student understand his cultural and intellectual heritage so that he will better understand the world in which he lives.

All majors in English including those who plan to teach in elementary or secondary schools must take the English Core Program of 30 credit hours. Supplementary programs for Bachelor of Arts and Bachelor of Arts in Education (elementary or secondary) are listed following the Core requirements.

The Junior Qualifying Exam (Eng 398), a required one-credit course administered every quarter, shall be taken in the junior year and after the student has completed at least 15 credits for his major, but prior to enrollment in 400-level English courses and in student teaching. After completing the standard procedures for class registration, a student should report to the department office for pre-exam orientation and materials.

All English majors should elect Humanities 210 and 211. (See general college requirements, page 19).

A foreign language is recommended for all English majors.

BACHELOR OF ARTS DEGREE

Major in English: 60 credits

CORE: 30 CREDITS

- Eng 270 Critical Approach to Fiction 3
- Eng 271 Critical Approach to Poetry 3

(Prereq. for all advanced literature courses)

Choice of two courses in sequence from one of the following series 8

- Eng 230 American Literature—17th Cent. to 1860 4
- Eng 231 American Literature—1860 to 1920 4
- Eng 330 American Literature—1920 to present 4
- Eng 240 English Literature—Beowulf to 1660 4
- Eng 241 English Literature—1660 to 1832 4
- Eng 340 English Literature—1832 to 1890 4
- Eng 341 English Literature-1890 to present 4
- Eng 309 Writing Themes About Literature 4
- * Eng 385 Mythology, OR
- Eng 387 Literature of the Old Testament 3
- Eng 398 Junior Qualifying Exam 1
- Eng 460 Grammar 4
- Eng 468 Development and Use of the English Language 4

30 credits

*Recommended for elementary emphasis.

Concentration beyond Core: 30 credits

- Eng 350 Shakespeare 4
- An 8-hr sequence in the Survey (English or American) not taken as part of the core . . 8
- Eng 470 History of Critical Thought, OR
- Eng 471 Theory, Practice of Modern Criticism . . . 4
- Electives chosen in conference with the student's adviser from English courses numbered in the 300's and 400's.
- Eng 452 Chaucer is strongly recommended as an elective for students intending to take an M.A. in English. Either Eng 310 or 410 may be chosen, but not both 14

30 credits

Majors will work out with adviser appropriate courses from other departments. Among courses recommended are the following: First and second year of a foreign language (or reading knowledge); foreign literature (in original or in translation—see Eng 387, 388, 395, 420, 455, Hum 210); History of England; Philosophy.

Minor in English: 15 credits

- Eng 271 Critical Approach to Poetry 3
- Choice of an 8 hour sequence from Survey of English or of American Literature 8
- Choice of 4 credits in English courses numbered 300 or above, exclusive of Eng 310 or 410 4

15 credits

BACHELOR OF ARTS IN EDUCATION DEGREE

Major in English (secondary, Grades 7-12): 45 credits

- CORE: 30 credits—See Bachelor of Arts above
- Concentration beyond Core: 15 credits
- Eng 350, 451 OR 452 (Shakespeare or Milton or Chaucer) 4
- Eng 392 The Teaching of English in Secondary Schools 4
- Electives from Eng courses numbered 300 or above 7

15 credits

Students electing this major will normally take another 15-17 credits of English in the Fifth Year Program.

Major in English (Elementary, Grades 1-6): 40-41 credits

CORE: 30 credits—See Bachelor of Arts above	
Concentration beyond Core: 10-11 credits	
Eng 321 Children's Literature	3
Eng 391 Teaching English in the Elementary Schools	4
Drm 341 Creative Dramatics, 3, OR	
SpC 414 Storytelling, 3, OR	
SpC 490 Speech Communication for the Elementary Classroom, 4	3-4
	10-11 credits

Students electing this major will normally take another 15-17 hours of English in the Fifth Year Program. Eng 350 Shakespeare is specially recommended. Ed 490 is to be taken during the fifth year. SPA 451 Introduction to Speech Pathology may be substituted for any of the speech or drama courses.

Minor in English (Secondary): 23 credits

Eng 271 Critical Approach to Poetry	3
Eng 309 Writing Themes About Literature	4
Choice of an 8 hour sequence from Survey of English or of American Literature	8
Eng 392 The Teaching of English in Secondary Schools	4
Eng 460 Grammar	4
	23 credits

Minor in English (Elementary): 22 credits

Eng 271 Critical Approach to Poetry	3
Eng 309 Writing Themes About Literature	4
Eng 321 Children's Literature	3
Eng 391 The Teaching of English in Elementary Schools	4
Eng 460 Grammar	4
English Electives	4
	22 credits

It is suggested that free elective credits be used to take additional supporting courses in language, literature, history, and philosophy, or to gain familiarity with some closely related field such as speech, drama, radio-TV, or journalism.

ENGLISH COURSES**ENG 101 PRINCIPLES OF COLLEGE WRITING (4)**

Emphasizes writing to be read; stresses study and practice of the principles underlying informative and interpretive writing. Students inductively pursue the standards exemplified in skillful present-day writing aimed at a college level audience. In the writing of weekly papers, of increasing length and complexity, students will seek to discover and demonstrate features of carefully considered writing.

ENG 107H, 108H, 109H, ENGLISH COMPOSITION HONORS (4 each)

An intensified course in writing and analysis of major literary works. Open only to those freshmen who, by reason of outstanding performance on an English placement test, demonstrate their ability to do superior work in English. These courses fulfill the College requirement in written English and with the addition of a non-literature course applicable toward the Humanities requirement they fulfill the General Requirements in Humanities (see page 19).

ENG 110, 111, 112 ENGLISH FOR THE FOREIGN STUDENT (3 each)

Required of all foreign students and students whose native language is not English. Course content will be adapted to the students' particular needs in such areas as idiom, usage, writing, comprehension and vocabulary, and will include work in the language lab. Depending on his progress a student may enter a regular composition class after one, two or three quarters of the course.

ENG 200 INTERMEDIATE COLLEGE WRITING: Humanities (4) [pa]

This and Eng 201, 202 and 203 are Sophomore level courses which emphasize maintaining and enhancing the proficiency in college-level writing, but stress the more specialized writing tasks required in a student's area of major study.

ENG 201 INTERMEDIATE COLLEGE WRITING: Social Science (4) [pa]**ENG 202 INTERMEDIATE COLLEGE WRITING: Science (4) [p, a]****ENG 203 INTERMEDIATE COLLEGE WRITING: Rhetoric (4) [pa]****ENG 208 TECHNICAL REPORT WRITING (3)**

Designed to meet the requirements of technical report writing courses at engineering schools.

ENG 220 THE SHORT STORY (3) [p]

Reading and discussion of short stories and short story types, including classic examples and selections from current literature.

ENG 225 POPULAR LITERATURE (4)

Some of the more popular forms of novels will be read and discussed in these courses: science-fiction, the detective and mystery novel, modern utopian and anti-utopian fiction, and the political novel. The course may be taken several times, the new subject matter is described by the wording following the colon in the title.

ENG 230 AMERICAN LITERATURE TO 1860 (4) [271]

The literature of America from colonial times to the Civil War, with emphasis on the New England Renaissance.

ENG 231 AMERICAN LITERATURE SINCE 1860 (4) [271]

The literature of America from the Civil War to the twentieth century, with emphasis on the prose and poetry of the realistic movement.

ENG 240 ENGLISH LITERATURE—BEOWULF TO 1660 (4) [271 or p]

A comprehensive view of the cultural development of England as reflected in its literature to 1660.

ENG 241 ENGLISH LITERATURE—1660 to 1832 (4) [271 or p]

A comprehensive view of the cultural development of England as reflected in its literature, 1660-1832.

ENG 270 CRITICAL APPROACH TO FICTION (3)

An introduction to the analysis, interpretation, and evaluation of fiction.

ENG 271 CRITICAL APPROACH TO POETRY (3)

An introduction to the analysis, interpretation, and evaluation of poetry.

ENG 280 INTRODUCTION TO BLACK LITERATURE (4)

Survey of American Black literature from Colonial times to the 20th Century. Various genres, chiefly fiction and poetry, will be studied.

ENG 281 AMERICAN LITERATURE OF ETHNIC MINORITIES (5)

Study of Asian-American, Latino-American, Afro-American, Indian-American and other forgotten pages of ethnic minority literatures will be read and discussed.

ENG 299 INDIVIDUAL STUDY (1-3) [p]

Special Studies in English or Composition. Such studies will vary according to faculty and student interest.

ENG 308 ADVANCED EXPOSITORY WRITING (4)

A junior-level course open only to non-English majors designed to develop greater fluency and effectiveness in writing exposition through study of rhetorical principles and through intensive practice.

ENG 309 WRITING THEMES ABOUT LITERATURE (4)

Practice in the techniques of writing about literature. Emphasis on treatment of poems and short stories.

ENG 310 CREATIVE WRITING (3)

Suggested projects, technical criticism, and literary market analysis for students with a serious interest in writing short stories, one-act plays, essays, reviews, and poetry for possible publication.

ENG 321 CHILDREN'S LITERATURE (3)

A study of the major types of literature for children in the elementary grades and the pre-school years, with the greatest emphasis upon the distinguished and lasting in fiction, folklore, fantasy, and poetry.

ENG 324 MODERN POETRY (3) [271 or p]

Reading and discussion of the chief British and American poets of the twentieth century.

ENG 325 AMERICAN NOVEL TO 1930 (3)

The American Novel from Melville to Hemingway. Major novelists including Melville, Twain, James, early 20th century naturalists, Anderson, Hemingway, and others.

ENG 326 AMERICAN NOVEL, 1930-1960 (3)

A study of the representative novels in America since those of Sinclair Lewis.

ENG 330 TWENTIETH CENTURY AMERICAN LITERATURE (4)

Chief figures, works, and trends in the literature of the United States since World War I. (A continuation of Eng 231.)

ENG 340 ENGLISH LITERATURE 1832-1890 (4) [271 or p]

A comprehensive view of the cultural development of England as reflected in its literature, 1832-90.

ENG 341 ENGLISH LITERATURE SINCE 1890 (4) [241, 271 or p]

The literature of England from decadence to contemporary times, with special attention to be given to major writers such as Hopkins, Shaw, Yeats, Joyce, and Eliot.

ENG 350 SHAKESPEARE (4) [So]

Reading and interpretation of the principal comedies, histories, and tragedies of Shakespeare; intensive study of one play.

ENG 360 THE NATURE OF LANGUAGE (4)

The nature and function of language; approaches, concepts, component areas of linguistics.

ENG 380 CONTEMPORARY AMERICAN BLACK LITERATURE (4)

Major American Black literature of the 20th century—fiction, poetry, essay, autobiography, and drama.

ENG 381 WEST AFRICAN LITERATURE IN ENGLISH (3)

A critical analysis of West African literature in English—novels, stories, drama, poetry, along with background reading and history and criticism—as an interpretation of the people, their life, culture, customs, and values, with emphasis on the conflict between traditional mores and contemporary ideas.

ENG 384 FOLKLORE (3)

An exploration of a people's beliefs about its origin, history, heroes, ethics, and customs through folktale, song, riddles and other elements of folklore. Areas would include European American Indian, African, rural and urban American.

ENG 385 MYTHOLOGY (3) [So]

A survey of the folklore of Greece and the North Countries with special emphasis on the figures and stories commonly referred to in literature.

ENG 387 LITERATURE OF THE OLD TESTAMENT (3)

The cultural and historical background of the Bible and a study of selected books of the Old Testament as literature.

ENG 388 LITERATURE OF THE NEW TESTAMENT (3)

The cultural and historical background of the Christian movement and a study of selected books of the New Testament as literature.

ENG 391 THE TEACHING OF ENGLISH IN ELEMENTARY SCHOOLS (4)

A study of English programs in the elementary grades, including curriculum, materials, and methods.

ENG 392 THE TEACHING OF ENGLISH IN SECONDARY SCHOOLS (4)

A study of the English programs in secondary schools relating to curriculum, materials, and methods of teaching.

ENG 395 TWENTIETH CENTURY EUROPEAN LITERATURE (3)

Chief figures, works, and trends of the present century in Continental Europe.

ENG 398 JUNIOR QUALIFYING EXAM (1) [Below]

For English majors the exam is part of the early, formal process

of induction into the academic and career counseling service of the English Department. Prereq: Eng 271, 321, 309, English or American Literature Surveys. Prerequisite for student teaching and all senior level courses in English.

NOTICE

Passing of the junior qualifying exam and junior standing or the instructor's permission are basic prerequisites for all courses numbered 400 or above.

ENG 410 ADVANCED CREATIVE WRITING (3)

A continuation of Eng 310. Will be offered when there is a demand for it.

ENG 420 STUDIES IN THE EUROPEAN NOVEL (4)

A study of works from European, including English, literatures with emphasis upon their relations.

ENG 425 ENGLISH DRAMA: FROM THE BEGINNINGS TO 1642 (3) [240, 271]

A study of English drama from the beginnings in the medieval theatre to the closing of the theatres in 1642, with principal emphasis upon the plays of Shakespeare's contemporaries: Chapman, Ford, Jonson, Kyd, Marlowe, Marston, Middleton, Shirley, Tourneur, and Webster.

ENG 426 ENGLISH DRAMA: RESTORATION AND 18th CENTURY (3) [241, 271]

A study of English drama from 1660 to 1800, with principal emphasis upon the plays of Dryden, Otway, Etherege, Wycherley, Congreve, Vanbrugh, Farquhar, Cibber, Steele, Goldsmith, and Sheridan.

ENG 428 EARLY RHETORIC AND POETIC (4)

A survey of the poetic and rhetorical traditions from Antiquity through the Renaissance.

ENG 429 ACHIEVEMENTS OF AMERICAN DRAMA (4)

A study of American plays, with a focus on the emergence of major comedies and tragedies in American drama.

ENG 440 POETRY OF THE ENGLISH RENAISSANCE (5) [271 or G]

Elizabethan, Jacobean, and Caroline poetry; Spenser and the Gold Poets, Donne and the Metaphysicals, or special topics arranged by the instructor.

ENG 441 ENGLISH NEO-CLASSICAL LITERATURE (1660-1780) (5) [271]

Major emphasis will be on Dryden, Poe, Swift, and Johnson. Lesser figures and the intellectual milieu of the period will receive some attention.

ENG 442 MEDIEVAL ENGLISH LITERATURE (4)

Literature of the medieval period in translation with some class reading of original texts. Arthurian Romances, Piers Plowman, lyrics, Gower, Pearl, Sir Gawain and the Green Knight, ballads, Malory.

ENG 443 ENGLISH LITERATURE OF THE ROMANTIC PERIOD (5) [271 or eq.]

English writers of the Romantic period, with emphasis on Wordsworth, Coleridge, Blake, Keats, Shelley, Byron, Lamb, Hazlitt, Hunt.

ENG 444 VICTORIAN LITERATURE (5)

English poetry and prose (exclusive of novels) of the middle and late nineteenth century, with chief emphasis on the works of Tennyson, Browning, Arnold, Carlyle, and Mill.

ENG 450 ADVANCED SHAKESPEARE (4) [350 or G]

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 will be taught at a level advanced enough to require some background in literature.)

ENG 451 POETRY AND PROSE OF MILTON (4) [240, 271]

A study of Milton's major poems and his most important prose. Attention will be given to literary and historical backgrounds, to Milton's development as poet and thinker, and to selected problems of Milton scholarship.

ENG 452 CHAUCER (4)

Reading and interpretation of the chief poetry of Geoffrey Chaucer.

ENG 455 THEMES IN THE LITERATURE OF THE WESTERN WORLD (4)

A study of one or more of the themes which have been expressed in literature, e.g., *The Faust Legend*, *Don Juan*, etc.

ENG 460 GRAMMAR (4)

A study of morphology and syntax of English.

ENG 465 INTRODUCTION TO LINGUISTICS (4)

Survey of grammatical theory: phonology, syntax, glossematics.

ENG 466 ADVANCED LINGUISTICS (4) [465]

Continuation of Eng 465, including advanced study in the theory, methods, and problems of phonemic and morphemic analysis and description.

ENG 467 SEMANTICS (3)

(Same as PH1 495). Sign, symbol, and the human situation. Studies in the meaning and function of language.

ENG 468 DEVELOPMENT AND USE OF THE ENGLISH LANGUAGE (4)

The history of the English language.

ENG 470 HISTORY OF CRITICAL THOUGHT (4)

The history and development of literary attitudes and criteria.

ENG 471 THEORY AND PRACTICE OF MODERN CRITICISM (4)

An analysis of various approaches used in modern literary criticism with emphasis upon American and English literary critics.

ENG 480 AMERICAN INDIAN LITERATURE—NON-FICTION (4) [So or p]

This course deals with non-fictional literary works of American Indian authors and historical spokesmen, from such figures as Chief Joseph to the contemporary "new Indian" voices such as Vine Deloria, Jr.

ENG 497 WORKSHOPS, SHORT COURSES, OR CONFERENCES**ENG 498 SEMINAR IN LITERATURE OR LANGUAGE (3-5)**

Primarily for English majors but open to all with an adequate background in the area being studied. Various periods of American and English literature and areas of the English language may be offered to meet the needs of students, who plan to teach and/or go on to graduate school. A student may take the seminar several times, the period or area covered being listed on his permanent record.

ENG 499 DIRECTED STUDY IN ENGLISH (1-3) [p]

Independent study under faculty direction, adapted to individual needs of the students. Maximum of nine credits allowable. See "Honors Program."

GRADUATE COURSES

The Department of English offers a Master of Arts degree. Students interested should consult the Graduate Bulletin.

ENG 521 GRADUATE RESEARCH IN LITERATURE (3)—F & a-Su

The bibliography and techniques of literary scholarship and research. A study of manuscript form, a study of bibliography problems, and examination and use of scholarly journals.

ENG 531 OLD ENGLISH (5) [p]

An introductory course in Old English preparatory for reading Beowulf. Knowledge of the language: phonology, morphology, syntax, and vocabulary. Development of skill in reading through selections in the text. Some reading of OE literature in translation.

ENG 532 SEMINAR IN SEVENTEENTH CENTURY (5)

Studies in various aspects of prose and poetry, with particular emphasis upon Milton, Donne, and Dryden. Bacon, Jonson, Burton, Overbury, Selden, Hobbes, Herbert, Browne, Taylor, Cowley, Evelyn, Aubry, Bunyan, Pepys, and Traherne may be the subjects of research by particular students.

ENG 533 SEMINAR IN EIGHTEENTH CENTURY (5)

Same approach as Eng 532, with particular emphasis upon the Augustan Age and the Age of Johnson. Lesser figures like Defoe, Addison, Steele, Akenside, Gray, Collins, Goldsmith, and the various novelists may be the subjects for research by particular students.

ENG 534 SEMINAR IN NINETEENTH CENTURY (5)

Same approach as Eng 533, with particular emphasis upon the Romantic Movement and the Victorian Age. Students may elect to specialize in particular figures in either period: Shelley, Keats, Byron, Coleridge, Tennyson, Browning, Arnold, etc.

ENG 535 SEMINAR, AMERICAN LITERATURE TO 1860 (5)

Although the main emphasis in this seminar will be upon the major figures and ideas of the American Renaissance, students may select earlier figures from the Colonial period and the eighteenth century, particularly the Mathers, Edwards, Taylor, Franklin, Paine, Irving, Cooper, etc., for intensive work.

ENG 536 SEMINAR, AMERICAN LITERATURE TO 1920 (5)

The main group of writers of the realistic and naturalistic movement will be studied, with particular emphasis upon Howells, James, Garland, Dreiser, and Norris. Some attention will be given to regional writers like Twain, Harte, and Harris, and to the American Poetry Renaissance.

ENG 537 SEMINAR, AMERICAN LITERATURE SINCE 1920 (5)

Major figures studied will be from among these: Pound, Eliot, Stevens, Jeffers, Williams, Roethke, Ransom, Faulkner, Warren, Hemingway, Bellow, etc. Special areas—criticism, more recent themes and writers, etc.—may be chosen for papers.

ENG 541 SEMINAR IN LANGUAGE AND LITERATURE (4)

A course intended to deal with specialized aspects of language and literature. A student may take the seminar several times. The exact content of the course will be indicated in the title to be entered on his permanent record.

ENG 596 COLLEGE TEACHING INTERNSHIP (1) Arr. U or S grade.**ENG 599 INDEPENDENT STUDY IN ENGLISH (Arr) [p]****ENG 600 THESIS (6-9) [MA in English Candidacy]****HUMANITIES**

Each student majoring in Humanities is expected to give careful attention to the relationships among the courses chosen for major and supporting purposes, and he should consult his counselor frequently regarding the most effective means for achieving a synthesis. A Humanities study or 5,000-word paper must be submitted to a faculty committee and a Humanities comprehensive examination completed not less than six weeks preceding graduation.

This program is designed for students who want a liberal arts background. A variety of programs is possible. The following suggested patterns are expected to meet the needs of most students; other patterns may be developed under the guidance of the student's adviser.

BACHELOR OF ARTS DEGREE**Major in Humanities: 60 credits**

Electives from the following: 14 credits

Art 200 Introduction to Art	3
Art 410 Primitive Art	4
Art 415 The History of Ancient Art	4
Art 420 Renaissance Arts in Italy	5
Art 430 Contemporary Art Movements	4
Mus 350, 351, 352 Music History (each)	3
Drm 330, 331 History of the Theater (each)	5
	14

Electives from the following: 11 credits

Eng 280 Introduction to Black Literature	4
Eng 380 Contemporary Black Literature	4
Eng 385 Mythology	3
Eng 387, 388 Literature of the Bible (each)	3
Eng 420 Studies in the European Novel	4
Eng 455 Themes in the Literature of the	
Western World	4
Frn 346 The Nineteenth Century French	
Novel	5
Ger 346 Modern German Writers	5
Rus 346 Russian Literature from Pushkin	
to Dostoevsky	5
Spn 346 Spanish Masterpieces of the	
Golden Age	5
	11

Electives from the following: 10 credits
 Phl 251 Introduction to Philosophy 5
 Phl 253 Introduction to Ethics 5
 Phl 310, 311, 312 History of Western
 Philosophy (each). 5
 Phl 452 American Philosophy 5 10

Electives from the following: 13 credits
 Eco 201, 202 Introduction to Economics
 (each) 5
 Eco 415 History of Economic Thought 5
 His 249, 250 Black American History (each) . . . 5
 His 343 Ancient History 5
 His 348 The Middle Ages 5
 His 359 The Renaissance & Reformation . . . 4
 His 370 Asia and the West 4
 PSc 102 American Politics 5
 PSc 307 Theoretical Problems of Modern
 Politics OR
 PSc 308 The Foundations of Political
 Society 5
 Ant 241 Cultural Anthropology 5
 Soc 101 Introduction to Sociology 5
 Soc 463 Complex Organizations 4
 Psy 481 Social Psychology 5 13

Electives from the following: 12 credits
 Any Humanities courses not used for
 general education requirements 12
 60 credits

HUMANITIES COURSES

HUM 210 HUMANISM (5) [So]

A study of the humanistic tradition as revealed in the literatures of Greece and Rome.

HUM 211 WORLD MASTERPIECES (5) [So]

A series of selective readings extending from the early Middle Ages through the Age of Reason.

HUM 212 MUSIC IN THE HUMANITIES (5)

Music in the humanities as revealed in the various media of music.

HUM 213 ART IN HUMANITIES (5)

A survey of intellectual cultural history as revealed in painting, sculpture, and architecture.

HUM 214 BLACK CULTURE (4) [So]

Black culture in America, Caribbean, and South America, as revealed through the contributions in the historical development of these areas. Attention will be given to history, art, music and dance, as well as social groupings.

HUM 299 INDIVIDUAL STUDY (1-3) [p]

Special studies in Humanities. Such studies will vary according to faculty and student interest.

HUM 300 THE HUMANITIES IN THE UNITED STATES (3)

Using music, art, architecture, literature, and philosophy as source material, this course leads the student into an examination of such concepts as individualism, democracy, and "the good life." By examining how the artist and philosopher reflect prevailing attitudes toward such concepts, an attempt to transcend or criticize them, the student learns to understand the unity and diversity which characterize and enrich life in the United States.

HUM 314 PHILOSOPHIES MEN LIVE BY (5) [So]

Insights of the great philosophies and their relation to the life and problems of the student. Such topics as hedonism, rationalism, humanism, pragmatism, and Christian idealism will be discussed.

HUM 315 SYSTEMS OF EAST-WEST PHILOSOPHIES AND RELIGION (5) [So]

An introductory study of comparative religious philosophies that have influenced occidental and oriental ways of life. Judeo-Christian thought, existentialism, Zen Buddhism, Taoism, and the Islamic philosophies will be studied.

HUM 316 MAN IN THE MODERN WORLD (5) [Jr]

An examination of man as he faces the conflict between the definition of choice and values.

HUM 420 COURTLY LOVE—THE ROMANCES (4)

A study in English translation of the major works of medieval romance tradition to present times, with emphasis on their historic, social and literary significance.

HUM 451 COMPARATIVE DRAMA: TRAGEDY (4) [10 hrs or p]

A study of various tragedies based on a Greek myth, as presented by the Greek tragedians and adopted by dramatists such as Seneca, Racine, Jeffers, O'Neill, Gide, Cocteau and Anouilh.

HUM 452 COMPARATIVE DRAMA: COMEDY (4) [10 hrs or p]

A study in English translation of the comedies of dramatists such as Aristophanes, Menander, Plautus, Terence, Moliere and Giraudoux.

HUM 453 COMPARATIVE EPIC (4) [10 hrs or p]

A study in English translation of the major national epics of Greece, Rome, Italy, Spain, France and Germany.

HUM 454 COMPARATIVE SATIRE (4) [10 hrs or p]

A study of satire from classical times to the present, with special emphasis on the Romans.

HUM 497 WORKSHOPS, SHORT COURSES, OR CONFERENCES

HUM 498 SEMINAR

HUM 499 DIRECTED STUDY IN HUMANITIES (1-3) [p]

GRADUATE COURSES

HUM 530 SEMINAR IN HUMANITIES (5)

Designed to acquaint the student with cultural developments in England and the United States that are related to the literature of the two countries. Music, art, and philosophy will be the major materials for study. The Baroque, Rococo, Neo-Classicism, Romanticism, Realism, and other themes will be studied in their relation to and influence on literature. Audio-visual aids will be used.

HUM 599 INDEPENDENT STUDY IN HUMANITIES (Arr) [p]

HUM 600 THESIS

JOURNALISM

Eastern's journalism department—located in downtown Spokane on the second floor of the Great Western Building, 905 West Riverside—offers the career-minded student who has completed two years of college the practical experience of using the city as his laboratory.

Journalism majors gather, write, edit, photograph and present the news under conditions that closely simulate those of the professional reporter.

It is an intensive one-year program of full-time study for students who wish to follow a professional career in journalism.

Students work and study within the framework of the Spokane Center during their junior year under the guidance of the regular faculty and guest lecturers drawn from Spokane's journalistic community.

Under this program a student majoring in journalism spends the first two years on campus taking general requirements in liberal arts and working toward the "second major" that is required of journalism students. The "second major" is completed by earning 45 credits in any academic area, other than journalism. Fifteen of those credits must be in courses approved for a minor by the department involved.

The junior year is spent full time at the Spokane Center. As a senior, the journalism major returns to campus to complete requirements for a B.A.

Courses at the Spokane Center are offered in progressive order, i.e., the fall quarter courses are prerequisites to some courses offered in the winter quarter. However, there is considerable flexibility in the program. For example, it is possible for a community college graduate who has already taken basic journalism courses to spend fall quarter on campus and begin study at the Center winter quarter.

A student who wants to minor in journalism can accomplish this in one fall quarter at the Center.

While the program is set up primarily for students in their

junior year, exceptions can be arranged for students who wish to major in journalism in their senior year.

BACHELOR OF ARTS DEGREE

During the freshman and sophomore years, it is recommended that journalism majors enroll in Journalism 100, staff of the student newspaper The Easterner, which is offered on campus. Yearbook staff Jrn. 301, 302, 303, is also offered on campus.

THE OPTIONS:

Before selecting his second major the journalism major will select one of two options shown after the Core.

Double major in journalism: 89-90 credits

CORE: 24 credits

Jrn 230 Introduction to Mass News Media	5
Jrn 332 Advanced News Writing	5
Jrn 336 History of Journalism	3
Jrn 337 Editing and Publishing	3
Jrn 341 Reporting	5
Jrn 351 Journalism Law	3
	24

Option 1 (News Editorial): 19 credits

Jrn 333 Advanced News Writing	5
Jrn 334 Magazine Article Writing	3
Jrn 349 Photojournalism	3
Jrn 435 Critical Writing	3
Jrn 442 Reporting	5
	19

Option 2 (Broadcast): 19 credits

RTV 200 RTV Announcing	5
RTV 323 RTV News	3
RTV 324 RTV News	3
RTV 350 Legal Responsibilities	3
RTV 370 RTV News Filming and Editing	5
	19

An internship for one quarter with professional communications media will substitute for some of the credits (up to 16) in either of these two options and/or in the core.

Second Major: 45 credits

To be arranged with the department concerned—Geology, Political Science, Psychology, Business, etc.

Minor in Journalism: 15 credits

Choice of 15 credits from any journalism courses numbered 200 and above.

BACHELOR OF ARTS IN EDUCATION DEGREE

Minor in Journalism (Secondary): 18 credits

Jrn 100 EASTERNER Staff	1
Jrn 230 Introduction to Mass News Media	5
Jrn 302 Yearbook Staff	3
Jrn 336 History of American Journalism	3
Jrn 337 Editing and Publishing	3
Jrn 349 Photojournalism	3
	18

JOURNALISM COURSES

JRN 100 EASTERNER STAFF (1) [p]

Reportorial and editorial assignments on the staff of the College paper. Can be taken simultaneously with Jrn 341, 442. Total of nine credits allowed.

JRN 230 INTRODUCTION TO MASS NEWS MEDIA (5)

A survey of the scope, function, standards, and career opportunities in mass news media, and an introduction to fundamentals of news writing.

JRN 250 NEWSPAPER ADVERTISING (3)

Advertising plans and campaigns, copy appeals, space, typography, layout, timing, from the point of view of the copy writer. Course developed on project and laboratory basis.

JRN 299 INDIVIDUAL STUDY (1-3) [p]

JRN 301, 302, 303 YEARBOOK STAFF (3 each) [p]

Includes study of layout in current magazines, problems in writing and illustration, and some photography. The class will plan and prepare the college yearbook for publication. The course also includes a field trip to the plant of the printer of the yearbook. Students are expected to continue in the course throughout the year.

JRN 322 RADIO-TELEVISION PROMOTION AND PUBLIC RELATIONS (3) [p]

(Same as RTV 322) Methods and techniques of promotion and public relations. Program and personality promotion, costs, involvement in community affairs, use of direct mail, billboards, on-the-air promotion, open house, trade magazines, etc.

JRN 323 RADIO-TELEVISION NEWS (3)

(Same as RTV 323) A beginning course in R-TV news writing, style, recognition and judgment of news, practical application, news gathering, writing and reporting. News construction and continuity.

JRN 332, 333 ADVANCED NEWSWRITING (5 each) [230]

Students study, cover and write about local education, labor, business, law enforcement, crime and criminal law, religion, science and sports. Courses also include feature writing.

JRN 334 MAGAZINE ARTICLE WRITING (3) [230]

Special stress will be put on the preparation of manuscripts and a study of various markets with a view to selling articles.

JRN 336 HISTORY OF AMERICAN JOURNALISM (3)

A study of the press from colonial times. Emphasis will be placed on publishers and editors who were particularly influential in their time and on the papers they produced.

JRN 337 EDITING AND PUBLISHING (3)

A study of newspaper and magazine copy editing and makeup, and the preparation of copy, art and photography for the printer.

JRN 341 REPORTING (5) [230]

From a reporter's standpoint, a study of local government procedures at the city level. Coverage of the Federal Building.

JRN 349 PHOTOJOURNALISM (3)

Photography for newspaper and magazine illustration. Analysis of picture newsworthiness. Practical experience in taking pictures and producing acceptable prints.

JRN 350 LEGAL RESPONSIBILITIES AND REGULATIONS IN COMMUNICATION MEDIA (3) [p]

(Same as RTV 350) A comprehensive study of federal laws, regulations, and decisions. The Communications Act, Federal Trade Commission, rules and regulations of the FCC, cases, decisions, and opinions. Copyright law, freedom of press, privilege, libel, invasion of privacy, etc.

JRN 351 THE LAW OF JOURNALISM (3) [230 or p]

A study of laws relating to journalism including freedom of the press, libel, privacy, contempt of court, and property rights in news.

JRN 395 IN-SERVICE TRAINING (5-16) [p]

Students will spend one quarter in professional news media, including newspapers, radio, and television. Time may be divided equally among all three or restricted to a single medium of major interest. Students will work with and observe professional newsmen in the gathering, preparation, and distribution of news.

JRN 400 MODERN ADVERTISING METHODS, PRODUCTION AND ADVERTISING OPERATION (5) [p]

(Same as RTV 400) Production of ads for newspapers, magazines, outdoor and special media. Time and space buying, art selection, role of the account executive, new business presentations and the relationship of the agency to the client.

JRN 421 RADIO-TELEVISION COMMERCIAL WRITING (5) [RTV 100]

(Same as RTV 421) Writing in the oral style. A study of psychological approaches to commercial writing. Emphasis will be on commercials for local sponsors and the scripting of formats for local programs.

JRN 435 CRITICAL WRITING (3) [230]

Includes editorial writing and the reviewing of books, films, plays and television.

JRN 442 REPORTING (5) [230]

From a reporter's standpoint, a study of local government at the county level. Coverage of court trials and the state legislature.

JRN 450 PUBLIC SCHOOL JOURNALISM (3)

Planning and supervision of school annuals, newspapers, and other periodicals.

JRN 451, 452 PUBLIC RELATIONS (3 each)

Principles, methods, and means of using journalistic agencies to influence the public. Campaigns, devices, timing of programs.

JRN 460 COMMUNICATION RESEARCH AND EVALUATION (5) [p]

(Same as RTV 460) A study and analysis of techniques employed in communication research, such as: motivational semantic differential, recall, diary, telephone and personal interview. Sampling theory, questionnaire, design, tabulation, data analysis, writing and oral presentation of findings.

JRN 497 WORKSHOPS, SHORT COURSES, OR CONFERENCES

JRN 498 SEMINAR IN JOURNALISM PROBLEMS

JRN 499 DIRECTED STUDY IN JOURNALISM (1-5) [p]

Same as Jrn 299, only more advanced.

GRADUATE COURSES

JRN 599 INDEPENDENT STUDY IN JOURNALISM (Arr) [p]

PHILOSOPHY

1971-72 Staff: Gibbons, Kuo, Rottmayer, Scott.

The major in philosophy is designed for those who wish to pursue advanced degrees in philosophy and for those who desire a terminal degree outside professional or vocational programs. Philosophy courses may be applied to general education requirement in Humanities.

BACHELOR OF ARTS DEGREE

Major in Philosophy: 45 credits

(A minimum of 30 credits must be in upper-division courses, i.e., numbered 300 or over.)

Phl 251 or 253	5
Phl 252	5
Phl 310	5
Phl 311	5
Phl 312	5
Phl 356	5
Electives in Philosophy	15
	<hr style="width: 100%; border: 0.5px solid black;"/>
	45 credits

Required supporting courses: 15 credits

Courses from related areas as approved by the Philosophy Department.

Minor in Philosophy: 15 credits

Two courses from Phl 251, 252, or 253	10
Elective in Philosophy, 300 and over . . . . .	.5
	<hr style="width: 100%; border: 0.5px solid black;"/>
	15 credits

PHILOSOPHY COURSES

PHL 251 INTRODUCTION TO PHILOSOPHY (5) [So]

An examination of the problems arising in the conduct of life and reflection upon the nature of the world and our knowledge of it. Problems concerning the physical world, life, mind, social, and religious experience will be considered with typical solutions offered.

PHL 252 INTRODUCTION TO LOGIC (5)

The detection of material fallacies; formalization of arguments; testing formalized arguments for validity; introduction to logic as a formal system.

PHL 253 INTRODUCTION TO ETHICS (5) [So]

An analysis of moral situations, types of moral ideas, such as duty, right, and good, and their application to problems of life.

PHL 310 HISTORY OF WESTERN PHILOSOPHY (Ancient) (5) [Jr or 251 or 252 or 253]

Study of some fundamental problems in Greek and Roman philosophy, within the period from Thales to Plotinus.

PHL 311 HISTORY OF WESTERN PHILOSOPHY (Medieval) (5) [Same as 310]

Study of some fundamental problems in Latin, Jewish and Arabic philosophy, within the period from Augustine to Ockham.

PHL 312 HISTORY OF WESTERN PHILOSOPHY (Modern) (5) [Same as 310]

Study of some fundamental problems in British and European philosophy, within the period from Descartes to Kant.

PHL 315 ADVANCED ETHICS (5) [253]

Advanced study of various topics in ethics.

PHL 316 THEORY OF KNOWLEDGE (5) [Either 251, 252, 253 or Jr]

Investigation of certain problems in epistemology such as, necessary knowledge, theories of truth, and problems of empirical knowledge through the study of both classical and contemporary authors.

PHL 317 PHILOSOPHY OF SCIENCE (5)

Presuppositions and procedures in the natural sciences; the relation of the sciences to the humanities; the inter-disciplinary role of philosophy.

PHL 356 SYMBOLIC LOGIC (5) [252 or p]

(Same as Mth 356) Rigorous development of the propositional and predicate calculi; some concepts in semantics; important metatheorems for the calculi.

PHL 451 ANALYTIC PHILOSOPHY (3) [Either 251, 252 or 253]

A critical study of the contemporary movements of analytic and positivist philosophy with readings from such authors as Moore, Ayer, Wittgenstein, Russell, and Waismann.

PHL 452 AMERICAN PHILOSOPHY (5) [Below]

A study of the more influential philosophies developed in America since 1830. Critical reading of selections from Emerson, Peirce, James, Royce, Dewey, Santayana, and Niebuhr. Prereq: Junior or senior standing; one course in Philosophy or one course in either American Literature or American History.

PHL 454 SOCIAL ETHICS (5) [Jr or p]

A consideration of moral values implicit in the individual's relation with his social order, ethics of the professions and business, economic and political rights, citizenship, social obligations and responsibility. Special emphasis on democracy.

PHL 495 SEMANTICS (3) [Jr]

(Same as Eng 467) Sign, symbol, and the human situation. Studies in the meaning and function of language.

PHL 497 WORKSHOPS, SHORT COURSES, CONFERENCES

PHL 498 SEMINARS

PHL 499 DIRECTED STUDY IN PHILOSOPHY [P]

GRADUATE COURSES

PHL 599 INDEPENDENT STUDY IN PHILOSOPHY (Arr) [P]

FOREIGN LANGUAGES

French, General Foreign Language, German, Russian, Spanish

Richard O. Whitcomb, Chairman

1971-72 Staff: Alonso, Bocaz, Boyd, Carey, Corbin, Detsch, Groenen, Hagelstange, Higman, Kara-Sokol, Kraft, O'Swald, Robertson, Wright, Yarwood.

The Foreign Language Department offers full major and minor programs in French, German, Russian, and Spanish leading to the Bachelor of Arts and the



Bachelor of Arts in Education. Graduate work leading to the Master of Education and the Master of Arts in Foreign Language is offered in summer sessions as well as during the academic year.

Students with two or more years of high school language study will, upon completion of 15 credits of second year or higher level courses in the same language, receive 15 credits toward graduation for language proficiency previously acquired.

Up to 10 hours of foreign language courses, not in the student's major area, may be applied to the general requirements in Humanities.

BACHELOR OF ARTS DEGREE

Major in French, German, or Spanish: 60 credits

All courses in same language.

201, 202	. . . . .	10
230	. . . . .	3
310, 311, 312 (Choice of 2)	. . . . .	4
320, 321, 322	. . . . .	9
330, 331	. . . . .	6
333, 334	. . . . .	6
410, 411, 412 (Choice of 2)	. . . . .	4
415	. . . . .	2
416	. . . . .	2
430, 431	. . . . .	6
498	. . . . .	3
Electives from courses in same language above 300	. . . . .	5
		<hr/>
		60 credits

Major in Russian: 60 credits

201, 202, 203	. . . . .	15
310, 311, 312 (Choice of 2)	. . . . .	4
320, 321, 322	. . . . .	9
330, 331, 332 (Choice of 2)	. . . . .	6
410, 411, 412 (Choice of 2)	. . . . .	4
415	. . . . .	2
416	. . . . .	2
430, 431, 432 (Choice of 2)	. . . . .	6
498	. . . . .	3
Electives from courses above 300	. . . . .	9
		<hr/>
		60 credits

Major in French, German, or Spanish: 46 credits

All courses in same language

201, 202	. . . . .	10
230	. . . . .	3
310, 311, 312 (Choice of 2)	. . . . .	4
320, 321, 322	. . . . .	9
330, 331, or 333, 334 (Choice of either sequence)	. . . . .	6
410, 411, 412, (Choice of 2)	. . . . .	4
415	. . . . .	2
416	. . . . .	2
430, 431 (Choice of 1)	. . . . .	3
498	. . . . .	3
		<hr/>
		46 credits

Major in Russian: 45 credits

201, 202, 203	. . . . .	15
310, 311, 312 (Choice of 2)	. . . . .	4
320, 321, 322 (Choice of 2)	. . . . .	6
330, 331, 332 (Choice of 2)	6
410, 411, 412 (Choice of 2)	4
415	2
416	2
430, 431, 432 (Choice of 1)	3
498	3
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		45 credits

Minor in French, German or Spanish: 16 credits

All courses in same language

201, 202	10
230	3
Electives from courses in same language above 300	3
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		16 credits

Minor in Russian: 15 credits

201, 202, 203	15
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BACHELOR OF ARTS IN EDUCATION DEGREE

Major in French, German, or Spanish (Secondary): 45 credits

All courses in same language.

201, 202	. . . . .	10
230	. . . . .	3
310, 311, 312 (Choice of 2)	. . . . .	4
320, 321, 322	. . . . .	9
330, 331, or 333, 334 (Choice of either sequence)	. . . . .	6
GFL 390	. . . . .	4
410, 411, 412 (Choice of 1)	. . . . .	2
415	. . . . .	2
498	. . . . .	3
Electives from courses in same language above 300	. . . . .	2
		<hr/>
		45 credits

Major in Russian (Secondary): 45 credits

201, 202, 203	. . . . .	15
310, 311, 312 (Choice of 2)	. . . . .	4
320, 321, 322	9
330, 331, 332 (Choice of 2)	6
GFL 390	4
410, 411, 412 (Choice of 1)	2
415	2
498	3
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		45 credits

Students selecting the above majors will normally take another 15-17 credits in the same language in the Fifth Year program.

Major in French, German, or Spanish (Elementary): 32 credits

All courses in same language

201, 202	. . . . .	10
230	. . . . .	3
310, 311, 312 (Choice of 2)	. . . . .	4
320, 321, 322	. . . . .	9
415	. . . . .	2
GFL 388	. . . . .	4
		<hr/>
		32 credits

Minor in French, German or Spanish (Elementary or Secondary): 20 credits

All courses in same language

201, 202	10
230	3
320, 321, 322 (Choice of 1)	3
GFL 388 or 390 (Whichever is appropriate)	4
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		20 credits

Minor in Russian (Secondary): 19 credits

201, 202, 203	15
GFL 390	4
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		19 credits

FRENCH COURSES

FRN 101, 102, 103 FIRST YEAR FRENCH (5 each)

Grammar, composition, reading of simple texts, conversation.

FRN 201, 202 SECOND YEAR FRENCH (5 each) [1st yr Frn or eq.]

Intensive oral work to develop fluency in the language, written compositions, and readings of medium difficulty from French literature.

FRN 230 INTRODUCTION TO ADVANCED FRENCH (3) [202 or eq.]

Reading and discussion of literary and popular selections in French.

FRN 299 SPECIAL STUDIES IN FRENCH (1-5) [201 or p]

Subjects vary according to faculty and student interest.

FRN 303 CHILDREN'S LITERATURE IN FRENCH (3) [230 or p]

For those intending to teach at the elementary level.

FRN 305 FRENCH CONVERSATION (2) [201 or p]

Concentrated drill in French conversation. Subjects for discussion will be current events, culture and civilization of France.

FRN 310, 311, 312 ADVANCED GRAMMAR AND COMPOSITION (2 each) [230 or p]

To be taken in conjunction with Frn 320, 321, 322 if possible.

FRN 320, 321, 322 FRENCH CIVILIZATION AND CULTURE (3 each) [230 or p]

A study of the political, social, intellectual, and artistic development of French culture from the beginnings to the present day.

FRN 330, 331 20TH CENTURY FRENCH LITERATURE (3 each) [230 or p]

A survey of the major movements and the outstanding writers from the turn of the century to the present.

FRN 333, 334 19TH CENTURY FRENCH LITERATURE (3 each) [230 or p]

A survey of the major movements and the outstanding writers of the preceding century.

FRN 346 THE 19TH CENTURY FRENCH NOVEL (in Eng.) (5)

Reading and discussion of some of the greatest prose works of the past century. No knowledge of French required. Not applicable toward a French major or minor.

FRN 347 THE 20TH CENTURY FRENCH NOVEL (in Eng.) (5)

Reading and discussion of outstanding French novels of the modern era. No knowledge of French required. Not applicable toward a French major or minor.

FRN 348 MODERN FRENCH DRAMA (in Eng.) (5)

Reading and discussion of French plays since the turn of the century. No knowledge of French required. Not applicable toward a French major or minor.

FRN 349 THE AGE OF IDEAS IN FRANCE (in Eng.) (5)

Reading and discussion of the literary and philosophical masterpieces of the 18th century in France. No knowledge of French required. Not applicable toward a French major or minor.

FRN 410, 411, 412 FRENCH STYLISTICS (2 each) [310, 311, 312 or p]

A course designed to develop variety and flexibility of style in the writing of French prose. The writings of masters of French style will serve as literary models.

FRN 415 PHONETICS AND APPLIED LINGUISTICS (2) [320, 321, 322 or p]

Theory and practice of French pronunciation, with drills on phonetic transcription of conversational and literary texts. Linguistic phenomena will be discussed in relation to the teaching of French.

FRN 416 HISTORY OF THE FRENCH LANGUAGE (2) [320 or p]

The origin and development of the French language from the beginnings to the present day. Stages in this development are revealed through close examination of literary and non-literary documents.

FRN 417 TECHNIQUES OF TEACHING FRENCH (2) [G or p]

An intensive study of the most modern techniques of French language teaching, including text selection and testing methods.

FRN 430, 431 17TH AND 18TH CENTURY FRENCH LITERATURE (3 each) [320, 321, 322 or p]

A survey of the major movements and the outstanding writers of the Classical Period and the Age of Reason.

FRN 440 FRENCH NARRATIVE PROSE (3) [330, 331 or 333, 334 or p]

Reading and discussion of significant novels or short stories within a designated literary framework. Since the content varies, the course may be repeated.

FRN 450 FRENCH DRAMA (3) [330, 331 or 333, 334 or p]

Reading and discussion of significant plays within a designated literary framework. Since the content varies, the course may be repeated.

FRN 460 FRENCH POETRY (3) [330, 331 or 333, 334 or p]

Reading and discussion of selected poems within a designated literary framework. Since the content varies, the course may be repeated.

FRN 496, 497 WORKSHOPS, SHORT COURSES, OR CONFERENCES (Credit hours vary)**FRN 498 SEMINAR FOR SENIOR MAJORS (3) [Sr]**

A comprehensive review of the field of French language, literature, and culture. Required of all French majors in their senior year.

FRN 499 DIRECTED STUDY IN FRENCH (1-5) [P]**GRADUATE COURSES****FRN 515 EXPLICATION DE TEXTES (3)**

A course designed to develop the student's ability to judge literature perceptively by the rigorous analysis of texts from all points of view, with the object of discerning the author's purpose and artistic skill.

FRN 521 GRADUATE RESEARCH IN LITERATURE (3)

The bibliography and techniques of literary scholarship and research. A study of manuscript form, a study of bibliographical problems, and examination and use of scholarly journals.

FRN 525 FRENCH CULTURAL TRADITIONS I (3)

An investigation of the social, literary, intellectual, artistic and political developments in French culture from the beginnings to the 18th century.

FRN 526 FRENCH CULTURAL TRADITIONS II (3)

A study of the cultural developments in France within the areas of intellectual and artistic activity during the past three centuries.

FRN 527 MODERN TRENDS IN FRENCH CULTURE (3)

A study of significant aspects of contemporary France as they are revealed in documents chosen from various intellectual, artistic, and political fields.

FRN 530 MOLIÈRE, CORNEILLE AND RACINE (3)

Reading and intensive analysis of selected plays by France's three greatest classic dramatists.

FRN 531 THE AGE OF ENLIGHTENMENT (3)

A study of the principal thinkers in France in the 18th century with special emphasis upon their contributions to the beginnings of scientific thought.

FRN 532 THE 19TH CENTURY FRENCH NOVEL (3)

A study of the French novel and its relation to the contemporary literary, social, and artistic theories of the 19th century.

FRN 533 19TH CENTURY FRENCH POETRY (3)

A course designed to develop the student's appreciation of French poetry in France's most productive century.

FRN 534 MODERN FRENCH DRAMA (3)

A survey of the philosophic, literary, and artistic trends of the 20th century as expressed in French drama since 1900.

FRN 539 SEMINAR ON SPECIAL TOPICS (3)**FRN 596 COLLEGE TEACHING INTERNSHIP (0-5)**

Teaching of a lower division college course under supervision of a regular faculty member. Includes course planning, arranging bibliographical and other instructional aids, conferences with students, experience in classroom instruction and student and course evaluation.

FRN 599 INDEPENDENT STUDY IN FRENCH (1-5) [P]**FRN 600 MASTER'S ESSAY (3)****GENERAL FOREIGN LANGUAGE COURSES****GFL 300, 301, 302 JUNIOR YEAR ABROAD (6-15 each) [Below]**

Students are expected to carry a full course load in a recognized university and take the examinations given by that institution. For particulars, see department chairman. Prereq: Completion of the second year course in the chosen language or languages and permission of the department chairman.

GFL 346 FOREIGN LITERATURE IN ENGLISH (5) [Below]

The masterpieces of European literature read and discussed in English. No knowledge of foreign languages is required. Not applicable toward a foreign language major or minor. Prereq: 10 hours of Humanities.

GFL 388 FOREIGN LANGUAGE IN THE ELEMENTARY SCHOOLS (4) [Below]

A survey of modern practices in the teaching of foreign languages at the elementary level. Prereq: Two years of foreign language, g.p.a. 2.00, junior standing or permission of the instructor.

GFL 390 FOREIGN LANGUAGE IN THE SECONDARY SCHOOLS (4) [Below]

A survey of modern practices in the teaching of foreign languages at the secondary level. Prereq: Completion of the second year course in a foreign language g.p.a. 2.00, junior standing or permission of the instructor. Admittance restricted to those who pass a comprehensive examination in the target language.

GFL 486 LABORATORY TECHNIQUES AND AUDIO-VISUAL PROGRAMS FOR FOREIGN LANGUAGE TEACHERS (2)**GERMAN COURSES****GER 101, 102, 103 FIRST YEAR GERMAN (5 each)**

Grammar, composition, reading of simple texts, conversation.

GER 201, 202 SECOND YEAR GERMAN (5 each) [1st yr Ger or eq.]

Intensive oral work to develop fluency in the language, written compositions, and readings of medium difficulty from German literature.

GER 230 INTRODUCTION TO ADVANCED GERMAN (3) [202 or eq.]

Reading and discussion of literary and popular selections in German.

GER 299 SPECIAL STUDIES IN GERMAN (1-5) [201 or p]

Subjects vary according to faculty and student interest.

GER 305 GERMAN CONVERSATION (2) [201 or p]

Concentrated drill in German conversation. Subjects for discussion will be current events, culture and civilization of Germany.

GER 310, 311, 312 ADVANCED GRAMMAR AND COMPOSITION (2 each) [230 or p]

To be taken in conjunction with German 320, 321, 322 if possible.

GER 320, 321, 322 GERMAN CIVILIZATION AND CULTURE (3 each) [230 or p]

An examination of political, social, intellectual, and artistic development of German culture from the beginnings to the present day.

GER 330, 331 20TH CENTURY GERMAN LITERATURE (3 each) [230 or p]

A survey of the major movements and the outstanding writers from the turn of the century to the present.

GER 333, 334 19TH CENTURY GERMAN LITERATURE (3 each) [230 or p]

A survey of the major movements and the outstanding writers of the preceding century.

GER 346 MODERN GERMAN WRITERS (in Eng.) (5)

Reading and discussion of some of the greatest German prose works of the modern era. No knowledge of German required. Not applicable toward a German major or minor.

GER 347 MASTERS OF GERMAN DRAMA (in Eng.) (5)

Reading and discussion of outstanding German plays of the past two centuries. No knowledge of German required. Not applicable toward a German major or minor.

GER 348 GREAT WRITERS OF GERMAN IDEALISM (in Eng.) (5)

Reading and discussion of outstanding German literary works from the 18th and early 19th centuries. No knowledge of German is required. Not applicable toward a German major or minor.

GER 349 CONTEMPORARY GERMAN LITERARY MASTERPIECES (in Eng.) (5)

Reading and discussion of significant work in prose, drama and poetry from present day West and East Germany. No knowledge of German is required. Not applicable toward a German major or minor.

GER 410, 411, 412 GERMAN STYLISTICS (2 each) [310, 311, 312 or p]

A course designed to develop variety and flexibility of style in the writing of German prose. The writings of masters of German style will serve as literary models.

GER 415 PHONETICS AND APPLIED LINGUISTICS (2) [320, 321, 322 or p]

Theory and practice of German pronunciation, with drills on phonetic transcription of conversational and literary texts. Linguistic phenomena will be discussed in relation to the teaching of German.

GER 416 HISTORY OF THE GERMAN LANGUAGE (2) [320 or p]

The origin and development of the German language from the beginnings to the present day. Stages in this development are revealed through close examination of literary and non-literary documents.

GER 417 TECHNIQUES OF TEACHING GERMAN (2) [G or p]

An intensive study of the most modern techniques of German language teaching including text selection and testing methods.

GER 430, 431 17TH AND 18TH CENTURY GERMAN LITERATURE (3 each) [320, 321, 322 or p]

A survey of the major movements and the outstanding writers of the Baroque Age, the Enlightenment, the Storm and Stress, the Classical Period in German literature.

GER 440 GERMAN NARRATIVE PROSE (3) [330, 331 or 333, 334 or p]

Reading and discussion of significant novels, "Novellen," or short stories within a designated literary framework. Since the content varies, the course may be repeated.

GER 450 GERMAN DRAMA (3) [330, 331 or 333, 334 or p]

Reading and discussion of significant plays within a designated literary framework. Since the content varies, the course may be repeated.

GER 460 GERMAN POETRY (3) [330, 331 or 333, 334 or p]

Reading and discussion of selected poems within a designated literary framework. Since the content varies, the course may be repeated.

GER 490 GOETHE'S FAUST (3) [Sr or p]

A study of Goethe's great masterpiece interpreted in the light of his own time and of our modern literary criticism.

GER 496, 497 WORKSHOPS, SHORT COURSES, OR CONFERENCES (Credit hours vary)**GER 498 SEMINAR FOR SENIOR MAJORS (3)** [Sr]

A comprehensive review of the field of German language, literature, and culture. Required of all German majors in their senior year.

GER 499 DIRECTED STUDY IN GERMAN (1-5) [P]**GRADUATE COURSES****GER 515 TEXTUAL ANALYSIS (3)**

A course designed to develop the student's ability to judge literature perceptively by the rigorous analysis of texts from all points of view, with the object of discerning the author's purpose and artistic skill.

GER 521 GRADUATE RESEARCH IN LITERATURE (3)

The bibliography and techniques of literary scholarship and research. A study of manuscript form, a study of bibliographical problems, and examination and use of scholarly journals.

GER 525 GERMAN CULTURAL TRADITIONS I (3)

An investigation of the social, intellectual, artistic, and political developments in German culture from the beginnings to the 18th century.

GER 526 GERMAN CULTURAL TRADITIONS II (3)

A study of the cultural developments in Germany within the areas of intellectual and artistic activity during the past three centuries.

GER 527 MODERN TRENDS IN GERMAN CULTURE (3)

A study of the role of contemporary Germany as reflected in documents chosen from non-literary fields.

GER 530 LESSING, GOETHE, AND SCHILLER (3)

Reading and intensive analysis of selected plays by the three greatest writers of the Age of German Idealism.

GER 531 GERMAN ROMANTICISM AND REALISM (3)

A study of theoretical and artistic documents from the romantic movement in Germany and an investigation of the changes taking place in the development of German literary realism.

GER 532 19TH CENTURY GERMAN DRAMA (3)

Reading and intensive analysis of plays by the four major dramatists of 19th century German literature: Kleist, Grillparzer, Buechner, and Hebbel.

GER 533 MODERN GERMAN LITERATURE TO 1945 (3)

An investigation of German prose, drama, and poetry from the period of naturalism in the 1890's to the end of World War II.

GER 534 POSTWAR GERMAN LITERATURE (3)

A study of contemporary German writing as it reflects literary trends and theories of the period following the Second World War.

GER 539 SEMINAR ON SPECIAL TOPICS (3)**GER 596 COLLEGE TEACHING INTERNSHIP (0-5)**

Teaching of a lower division college course under the supervision of a regular faculty member. Includes course planning, arranging bibliographical and other instructional aids, conferences with students, experience in classroom instruction, and student and course evaluation.

GER 599 INDEPENDENT STUDY IN GERMAN (1-5) [P]**GER 600 MASTER'S ESSAY (3)****RUSSIAN COURSES****RUS 101, 102, 103 FIRST YEAR RUSSIAN (5 each)**

Grammar, composition, reading of simple texts, conversation.

RUS 201 202, 203 SECOND YEAR RUSSIAN (5 each) [1st yr Rus or eq.]

Continued progress in conversational skill and study in morphology. Reading in Russian literature at intermediate level.

RUS 299 SPECIAL STUDIES IN RUSSIAN (1-5) [201 or p]

Subjects vary according to faculty and student interest.

RUS 305 RUSSIAN CONVERSATION (2) [201 or p]

Concentrated drill in Russian conversation. Subjects for discussion will be current events, culture and civilization of Russia.

RUS 310, 311, 312 RUSSIAN COMPOSITION AND STYLISTICS (2 each) [203 or p]

To be taken in conjunction with Rus 320, 321, 322 if possible.

RUS 320 321, 322 RUSSIAN CIVILIZATION AND CULTURE (3 each) [203 or p]

A study of fundamental elements which form the cultural tradition of Russia. Stress on the development of historical, political, philosophical, social, and artistic ideas.

RUS 330, 331, 332 20TH CENTURY RUSSIAN LITERATURE (3 each) [203 or p]

A survey of the major movements and outstanding writers from the turn of the century to the present.

RUS 346 RUSSIAN LITERATURE FROM PUSHKIN TO DOSTOEVSKY (in Eng.) (5)

Reading and discussion of some of the greatest Russian literary works of the early 19th century. No knowledge of Russian is required.

RUS 347 RUSSIAN LITERATURE FROM TOLSTOY TO THE REVOLUTION (in Eng.) (5)

Reading and discussion of Russian literary works from the second part of the 19th century. No knowledge of Russian is required.

RUS 348 POST-REVOLUTIONARY RUSSIAN LITERATURE (in Eng.) (5)

Reading and discussion of outstanding works of Russian literature from the early part of the 20th century. No knowledge of Russian is required.

RUS 349 SOVIET MAN AND HIS LITERATURE (in Eng.) (5)

Reading and discussion of significant works of writers in the Soviet Union. No knowledge of Russian is required.

RUS 410, 411, 412 ADVANCED RUSSIAN GRAMMAR AND SYNTAX (2 each) [310, 311, 312 or p]

Intensive study and drill in the grammar and syntax of modern Russian. Both oral and written usage will be emphasized.

RUS 415 RUSSIAN PHONETICS AND APPLIED LINGUISTICS (2) [320, 321, 322 or p]

Theory and practice of Russian pronunciation with drills on phonetic transcription of conversational and literary texts. Linguistic phenomena will be discussed in relation to the teaching of Russian.

RUS 416 HISTORY OF THE RUSSIAN LANGUAGE (2) [320 or p]

A study of the major stages in the development of the Russian language from the beginnings to the present day.

RUS 430, 431, 432 19TH CENTURY RUSSIAN LITERATURE (3 each) [320, 321, 322 or p]

A survey of the major movements and the outstanding writers of the "Golden Age" of Russian literature.

RUS 440 RUSSIAN NARRATIVE PROSE (3) [330, 331, 332 or p]

Reading and discussion of significant novels or short stories within a designated literary framework. Since the content varies, the course may be repeated.

RUS 450 RUSSIAN DRAMA (3) [330, 331, 332 or p]

Reading and discussion of significant plays within a designated literary framework. Since the content varies, the course may be repeated.

RUS 460 RUSSIAN POETRY (3) [330, 331, 332 or p]

Reading and discussion of selected poems within a designated literary framework. Since the content varies, the course may be repeated.

RUS 470 RUSSIAN FOLKLORE (3) [330, 331, 332 or p]

The history of Russian folklore from its beginnings to the present, including folk poetry (particularly the epic songs or *byliny*), folk beliefs, family life, and social organization as reflected in songs and tales.

RUS 496, 497 WORKSHOPS, SHORT COURSES, OR CONFERENCES (Credit hours vary)**RUS 498 SEMINAR FOR SENIOR MAJORS (3) [Sr]**

A comprehensive review of the field of Russian language, literature, and culture. Required of all Russian majors in their senior year.

RUS 499 DIRECTED STUDY IN RUSSIAN (1-5) [P]**GRADUATE COURSES****RUS 599 INDEPENDENT STUDY IN RUSSIAN (1-5) [P]****SPANISH COURSES****SPN 101, 102, 103 FIRST YEAR SPANISH (5 each)**

Grammar, composition, reading of simple texts, conversation.

SPN 201, 202 SECOND YEAR SPANISH (5 each) [1st yr Spn or eq.]

Intensive oral work to develop fluency in the language, written composition, and reading of medium difficulty from Spanish literature.

SPN 205 SPANISH FOR LATIN AMERICAN PROJECTS (3) [202 or eq.]

Intensive drill in the idiom of daily economic and social activity. Designed for students concentrating in Spanish-American affairs.

SPN 230 INTRODUCTION TO ADVANCED SPANISH (3) [202 or eq.]

Reading and discussion of literary and popular selections in Spanish.

SPN 299 SPECIAL STUDIES IN SPANISH (1-5) [201 or p]

Subjects vary according to faculty and student interest.

SPN 303 CHILDREN'S LITERATURE IN SPANISH (3) [230 or p]

For those intending to teach at the elementary level.

SPN 305 SPANISH CONVERSATION (2) [201 or p]

Concentrated drill in Spanish conversation. Subjects for discussion will be current events, culture and civilization of Spain and Latin America.

SPN 310, 311, 312 ADVANCED GRAMMAR AND COMPOSITION (2 each) [230 or p]

To be taken in conjunction with Spn 320, 321, 322 if possible.

SPN 320, 321 SPANISH CIVILIZATION AND CULTURE (3 each) [230 or p]

An examination of the political, social, intellectual, and artistic development of Spanish culture from the beginnings to the present day.

SPN 322 SPANISH-AMERICAN CIVILIZATION AND CULTURE (3) [230 or p]

A study of the historical and political background of Spanish America with an emphasis on Spanish America today.

SPN 330, 331 20TH CENTURY SPANISH LITERATURE (3 each) [230 or p]

A survey of the major movements and the outstanding writers from the turn of the century to the present.

SPN 333, 334, 18TH AND 19TH CENTURY SPANISH LITERATURE (3 each) [230 or p]

A survey of the major movements and the outstanding writers of the preceding two centuries.

SPN 338, 339 SPANISH-AMERICAN LITERATURE (3 each) [230 or p]

A survey of the major writers and literary movements in Spanish America of the past two centuries.

SPN 346 SPANISH MASTERPIECES OF THE GOLDEN AGE (in Eng.) (5)

Reading and discussion of outstanding examples of Spanish literature from 16th century Spain. No knowledge of Spanish is required. Not applicable toward a Spanish major or minor.

SPN 347 SPANISH-AMERICAN LITERATURE IN THE 20TH CENTURY (in Eng.) (5)

Reading and discussion of significant works by Latin-American writers of the present century. No knowledge of Spanish required. Not applicable toward a Spanish major or minor.

SPN 348 SPANISH LITERATURE OF THE 20TH CENTURY (in Eng.) (5)

Reading and discussion of literary masterpieces of outstanding Spanish writers of the modern era. No knowledge of Spanish is required. Not applicable toward a Spanish major or minor.

SPN 349 SPANISH-AMERICAN SOCIAL LITERATURE (in Eng.) (5)

Reading and discussion of works of a philosophical and political nature by Spanish-American writers. No knowledge of Spanish is required. Not applicable toward a Spanish major or minor.

SPN 410, 411, 412 SPANISH STYLISTICS (2) [310, 311, 312 or p]

Close analysis of linguistic problems as revealed in the writings of representative Spanish and Spanish-American authors. Compositions based on Spanish literary models.

SPN 415 PHONETICS AND APPLIED LINGUISTICS (2) [320, 321, 322 or p]

Theory and practice of Spanish pronunciation, with drills on phonetic transcription and general speech patterns of Spain and Spanish America. Linguistic phenomena will be discussed in relation to the teaching of Spanish.

SPN 416 HISTORY OF THE SPANISH LANGUAGE (2) [320 or p]

The origin and development of the Spanish language from the beginnings to the present day. Theories of Menedez-Pidal, Lapesa, and other authorities, and careful examination of literary and non-literary documents.

SPN 417 TECHNIQUES OF TEACHING SPANISH (2) [G or p]

An intensive study of the most modern techniques of Spanish language teaching, including text selection and testing methods.

SPN 430, 431 16TH and 17TH CENTURY SPANISH LITERATURE (3 each) [320, 321, 322 or p]

A survey of the major movements and the outstanding writers of the "Golden Age" of Spanish literature.

SPN 440 SPANISH NARRATIVE PROSE (3) [330, 331 or 333, 334 or p]

Reading and discussion of significant novels or short stories within a designated literary framework. Since the content varies, the course may be repeated.

SPN 450 SPANISH DRAMA (3) [330, 331 or 333, 334 or p]

Reading and discussion of significant plays within a designated literary framework. Since the content varies, the course may be repeated.

SPN 460 SPANISH POETRY (3) [330, 331 or 333, 334 or p]

Reading and discussion of selected poems within a designated literary framework. Since the content varies, the course may be repeated.

SPN 474 POLITICAL AND PHILOSOPHICAL THOUGHT IN SPANISH AMERICA (3) [230 or p]

Reading and discussion of some of the most significant polemic and philosophical works by the leading writers in Spanish America.

SPN 480 LINGUISTIC TRAINING FOR WORK WITH SPANISH-SPEAKING MINORITIES (3) [205 or 230 or p]

A course designed to prepare students to communicate effectively with members of underprivileged Spanish-speaking groups in the troubled areas of the United States.

SPN 484 SEMINAR IN SPANISH-AMERICAN LITERATURE AND CULTURE (3) [p]

Note: A student concentrating in the Spanish-American field may substitute up to 12 hours of upper division work toward the major in Spanish.

SPN 496, 497 WORKSHOPS, SHORT COURSES, OR CONFERENCES (Credit hours vary)**SPN 498 SEMINAR FOR SENIOR MAJORS (3) [Sr]**

A comprehensive review of the field of Spanish language, literature, and culture. Required of all Spanish majors in their senior year.

SPN 499 DIRECTED STUDY IN SPANISH (1-3) [P]**GRADUATE COURSES****SPN 515 TEXTUAL ANALYSIS (3)**

Careful reading and analysis of extracts of representative prose and poetry from the classical period to modern times. A study of genres and literary terms.

SPN 521 GRADUATE RESEARCH IN LITERATURE (3)

The bibliography and techniques of literary scholarship and research. A study of manuscript form, a study of bibliographical problems, and examination and use of scholarly journals.

SPN 525 SPANISH CULTURAL TRADITIONS (3)

An investigation of the social, intellectual, artistic, and political developments in Spanish culture from the beginnings to modern times.

SPN 526 MODERN TRENDS IN SPANISH CULTURE (3)

A study of significant aspects of contemporary Spain as revealed in documents chosen from various intellectual, artistic, and political fields.

SPN 527 MODERN TRENDS IN SPANISH-AMERICAN CULTURE (3)

Highlights in the social, intellectual, artistic, and political developments of the Spanish-American republics.

SPN 530 THE GOLDEN AGE (3)

Masterpieces of 16th and 17th century Spain from La Celestina to Calderon. Selections will vary with each presentation of the course.

SPN 531 CERVANTES (3)

A critical study of Don Quixote and other works, with special reference to Cervantes' novelistic theories and the traditional and modern interpretation of his masterpieces.

SPN 532 THE SPANISH NOVEL (3)

Ideological and stylistic analysis of selected Spanish novels with special emphasis on the literary trends and movements which they represent.

SPN 533 MODERN SPANISH DRAMA (3)

Literary trends in the Spanish theater of the 19th and 20th centuries, with emphasis on Rivas, Benavente, Lorca, Valle-Inclan, Buero, Vallejo, and Sastre.

SPN 534 THE SPANISH-AMERICAN NOVEL (3)

A study of the evolution of the Spanish-American novel from romanticism to the most recent experimentation.

SPN 539 SEMINAR ON SPECIAL TOPICS (3)**SPN 596 COLLEGE TEACHING INTERNSHIP (0-5)**

Teaching of a lower division college course under supervision of a regular faculty member. Includes course planning, arranging bibliographical and other instructional aids, conferences with students, experience in classroom instruction, and student and course evaluation.

SPN 599 INDEPENDENT STUDY IN SPANISH (1-5) [P]**SPN 600 MASTER'S ESSAY (3)****GEOGRAPHY**

Robert A. Webster, Chairman

1971-72 Staff: Anderson, Booth, Christian, Folsom, Marshall, Prather, Rajala, Roth, Shin, Stradling.

Study

The Geography Department offers courses of study leading to the Bachelor of Arts and Bachelor of Arts in Education degrees. A variety of emphases is possible and includes the subjects of economic, cultural and physical geography; Asian, Soviet or Latin American Area Studies; social science education; urban and regional planning. An Earth Science major is offered in conjunction with the Geology Department.

Many of the courses offered by the Geography Department are of broad general interest, particularly those in regional areas and cultural geography. They are frequently taken as electives or in support of programs by students with majors other than geography. Programs of minor concentration are also offered.

The following courses in Geography may be taken as general requirements in Science or Mathematics: Cgr 100, 201, 214, 306, 310, 314, 316, 399, 410, 414, 499.

A student planning to take graduate work in geography should have at least one, or, preferably, two years of foreign language.

BACHELOR OF ARTS DEGREE

Major in Geography: 45 Credits

CORE: 20 CREDITS

Cgr 201 Field Studies and Map Interpretation . . . 5	
Cgr 214 Physical Geography 5	
Cgr 250 Fundamentals of Economic Geography . . . 3	
Cgr 360 Human Geography 5	
Cgr 398 Seminar—History & Philosophy of Geography 2	
	20 credits

Supporting course work in a Geography option of 6-10 credits, and electives in related disciplines selected in consultation with a departmental adviser to total: 25
45 credits

Related academic disciplines:

Anthropology	Geology	Physics
Biology	History	Political Science
Chemistry	Mathematics	Sociology
Economics	Philosophy	

PHYSICAL, ECONOMIC OR CULTURAL GEOGRAPHY OPTIONS:

PHYSICAL: 10 CREDITS

Cgr 310 Geomorphology 5	
Cgr 314 Weather & Climate 5	
	10 credits

ECONOMIC: 6 CREDITS

Cgr 460 Industrial Geography 3	
Cgr 461 Commercial Geography 3	
	6 credits

CULTURAL—(2 OF THE 3): 6 CREDITS

Cgr 458 Historical Geography 3	
Cgr 459 Political Geography 3	
Cgr 465 Urban Geography 3	
	6 credits

Minor in Geography: 13-15 credits

Cgr 214 Physical Geography 5	
Cgr 360 Human Geography 5	
Electives in Geography 3-5	
	13-15 credits

Major in Geography—Planning Emphasis: 60 credits

Cgr 214 Physical Geography 5	
Cgr 250 Economic Geography 3	
Cgr 327 Cartography I, Elements of Cartography 5	
Cgr 328 Cartography II, Graphics 3	
Cgr 350 Planning I, Intro. to Planning 5	

Cgr 351 Planning II, Intro. to Planning 5	
Cgr 360 Human Geography 5	
Cgr 417 Resource Management and Policy 3	
Cgr 427 Cartography III, Advanced Cartography . . . 3	
Cgr 465 Urban Geography 3	
Eco 201, 202 Introduction to Economics 10	
* Electives in Geography, Geology, Economics, Political Science, and Sociology 10	
	60 credits

BACHELOR OF ARTS IN EDUCATION DEGREE

Major in Earth Sciences (Secondary): 47-50 credits

Cgr 214 Physical Geography 5	
Cgr 310 Geomorphology 5	
Cgr 314 Weather and Climate 5	
Cgr 316 Geography of the Ocean Basins 4	
Clg 100 Survey of the Geological Sciences 5	
Clg 211 Rocks and Minerals 5	
Clg 314 Historical Geology 5	

* Electives chosen from the following:

Cgr 327, 410, 414	
Clg 225, 310, 311, 312, 408, 409, 410, 411, 412	
Phy 121 13-16	
	47-50 credits

Required Supporting Courses: 10 credits

Chm 100 Introduction to Chemistry 5	
Phy 100 Physical Science 5	
	10 credits

Recommended Minor: 15 credits in Mathematics or Biology

* Electives chosen in consultation with departmental adviser. Substitutions may be allowed with signature of department chairman.

NOTE: Cgr 390 must be taken by students earning the Bachelor of Arts in Education with an Earth Science major to meet the Education Division requirement for a methods course.

Major in Geography (Secondary): 45 credits

The requirements for this major are the same as those for the Major in Geography, Bachelor of Arts, with the exception that the student must choose either the Cultural or Economic Geography option.

Major Geography, Social Sciences (Junior or Senior High): 45 Credits

Students planning to take this major are referred to P102, Social Science Education.

Alternative 1: 45 credits

The requirements for this major are the same as those for the major in Geography, Bachelor of Arts, with the exception that the student must choose the Cultural Geography option.

Social Sciences 390 must be taken by students earning the Bachelor of Arts in Education with Geography Major to meet the Education Department requirement for a methods course.

Courses taken in related disciplines will be restricted to: Anthropology, Economics, Foreign Language, History, Political Science, Sociology.

Alternative 2: 30 or 20 credits

Courses offered by the Geography Department which have a Social Science orientation and/or special utility for Social Sciences have been divided into four groups. Students electing either component are normally required to take Cgr 214 and Cgr 230. Additional courses must be chosen from at least two of the four groups.

Students with special interests may be accommodated through appropriate courses (399 or 499). For example, a seminar on the High School Geography. Project materials might be valuable.

LISTING OF AVAILABLE COURSES

Group 1 (Environmental Courses)

Cgr 217 Environmental Conservation
Cgr 317 Resources and Conservation
Cgr 417 Resource Management and Policy

Group 2 (Systematic courses)

Cgr 250 Fundamentals of Economic Geography
Cgr 360 Human Geography
Cgr 458 Historical Geography of the United States
Cgr 459 Political Geography
Cgr 465 Urban Geography

Group 3 (Methodological Courses)

Cgr 201 Field Study and Map Interpretation
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- Cgr 327 Elements of Cartography I
 Cgr 350 Introduction to Planning I
 Cgr 420 Applied Geographic Studies
 Group 4 (Regional Courses)
- Cgr 330 Pacific Northwest
 Cgr 331 Anglo-America
 Cgr 332 Latin America
 Cgr 433 Asia
 Cgr 434 Africa
 Cgr 435 Europe
 Cgr 443 Soviet Union

Minor in Geography: 13-15 credits

Requirements same as Minor in Geography, Bachelor of Arts program.

Minor in Earth Sciences: 13-15 credits

- Cgr 214 Physical Geography 5
 Glg 100 Survey of the Geological Sciences 5
 Geology or physical geography courses 3-5
 13-15 credits

Minor in Geography (Primary and Intermediate): 11-15 credits

- Cgr 214 Physical Geography 5
 Two of the following courses:
 Cgr 230, 250, 317, 330, 331, 332, 360, 433, 434, 435,
 443, 458, 459, 460, 461, 465, 497 6-10
 11-15 credits

For planning courses—See Planning section.

GEOGRAPHY COURSES**GGR 100 AN INTRODUCTION TO THE EARTH SCIENCES (5)**

Survey of the general studies involved in the description and analysis of the earth environment.

GGR 201 FIELD STUDIES AND MAP INTERPRETATION (5) [100 or Glg 100 or p]

This course combines the activities of landscape observation and interpretation with those of the study of maps as analytical tools and means of communication.

GGR 214 PHYSICAL GEOGRAPHY (5) [100 or p]

A systematic study stressing landforms, climate, and other physical elements as a basis for interpreting man's relation to his earth environment.

GGR 217 ENVIRONMENTAL CONSERVATION (5)

An introduction to problems of environmental quality arising from the human management of natural resources. The emphasis of the course is on social problems, that is, a philosophy of environmental system.

GGR 230 WORLD REGIONAL GEOGRAPHY (5)

A description and geographic survey of continents, islands, and their associated physical and cultural patterns.

GGR 250 FUNDAMENTALS OF ECONOMIC GEOGRAPHY (3)

A study of the geographic principles related to the nature and distribution of man's economic activities.

GGR 299 SPECIAL STUDIES IN GEOGRAPHY

Subjects studied vary according to faculty and student interest.

GGR 306 FOREST AND RANGE LANDS OF THE WEST (5)

The distribution, classification, composition, characteristics, ecology, utilization, and management of the plant communities of western North America. Designed for any student with an interest in western forest and range lands. No background in geography or biology is required.

GGR 310 GEOMORPHOLOGY (5) [100 or 214 or Glg 100 or p]

Development of the surface features of the earth by erosion, deposition, crustal movements, and volcanism.

GGR 314 WEATHER AND CLIMATE (5) [100 or 214 or p]

Includes the principles of meteorology, description and use of instruments, weather, and climate controls.

GGR 316 GEOGRAPHY OF THE OCEAN BASINS (4)

An introduction to oceanography with an emphasis on the nature, occurrence, distribution, and interrelationships of phenomena related to the oceans and their margins.

GGR 317 RESOURCES AND CONSERVATION (3)

Studies the nature and distribution of natural resources, and problems and principles of their use and conservation.

GGR 327 ELEMENTS OF CARTOGRAPHY I (5)

The application of introductory principles in the construction of maps. Emphasis is placed on analysis of map components and the developing of skills in handling basic cartographic equipment.

GGR 328 CARTOGRAPHY II, GRAPHICS (3)

Theory and practice of presenting statistical data in appropriate graphic form; cartographic reproduction.

GGR 330 PACIFIC NORTHWEST (5) [100 or 214 or p]

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.

GGR 331 ANGLO-AMERICA (5) [100 or 214 or p]

An analysis of the United States and Canada based on settlement patterns, resource distributions, productive occupations, and trends of development.

GGR 332 LATIN AMERICA (5) [100 or 214 or p]

A survey of the physical landscapes and the distribution of man and his activities in America south of the United States.

GGR 350 INTRODUCTION TO PLANNING I (5)

Theory, elements, and principles of urban and regional planning.

GGR 351 INTRODUCTION TO PLANNING II (5) [350]

Legal procedures, the relation of zoning and sub-divisions to the comprehensive plan, and selected research duties related to comprehensive planning.

GGR 360 HUMAN GEOGRAPHY (5)

A study of man, focused on his interaction with the physical and cultural environments of the earth.

GGR 365 SETTLEMENT PATTERNS (3)

An introduction to the pre-20th century city, its function, location, size, and form, as they have a bearing on modern city development.

GGR 390 MATERIALS AND TECHNIQUES OF EARTH SCIENCE AND CONSERVATION EDUCATION (3) [100 or 214 or p]

Of practical importance for geography and earth science teachers. Methods of presenting geographic materials and sources of information and materials.

GGR 398 SEMINAR: HISTORY AND PHILOSOPHY OF GEOGRAPHY (2)

The development of geographic thought from early to contemporary time.

GGR 399 DIRECTED STUDY IN GEOGRAPHY (Total of 6 credits may be earned.) [P]

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.

GGR 410 REGIONAL GEOMORPHOLOGY OF NORTH AMERICA (5) [Glg 100 or Ggr 214 or p]

Description and interpretation and associated problems of major physiographic regions of North America, including the regions of the Pacific Northwest.

GGR 414 REGIONAL CLIMATOLOGY (3) [214 or 314 or p]

Provides a study and analysis of the nature, distribution, and function of climate controls and the climate regions of the world.

GGR 417 RESOURCE MANAGEMENT AND POLICY (3) [Jr or p]

Analyzes the factors of resource distribution and exploitation in area development. Includes an inventory of geographic, economic, and cultural factors bearing on regional growth and the impact of technological change on resource utility.

GGR 420 APPLIED GEOGRAPHIC STUDIES (3) [Major, P]

Problem formulation and analysis as they apply to geographic studies. Develops field and sampling techniques, instrumentation, and data collection.

GGR 427 ADVANCED CARTOGRAPHY III (3) [327 or eq. or p]

The application of cartographic skills and knowledge to problems encountered in geographic training and research. Field problems,

map reproduction, aerial photos, and specialized cartographic equipment are introduced with appropriate projects.

GGR 433 ASIA (5) [100 or 214 or p]

A regional study of non-Soviet Asia and adjacent islands, from humid monsoon lands of the Far East to the arid Eastern Mediterranean.

GGR 434 AFRICA (3) [100 or 214] —a/y

The regional geography of the African continent including the island of Madagascar.

GGR 435 EUROPE (5) [100 or 214 or p]

Regional geography of Europe, exclusive of the U.S.S.R.

GGR 443 SOVIET UNION (3) [100 or 214 or Jr. or p]

The physical, economic, and political geography of the U.S.S.R., its internal strengths and weaknesses, and its relationship to the rest of the world.

GGR 451 ADVANCED FIELD TRIP (2-10 credits depending upon type of study undertaken.)—Su

Two weeks or longer field study periods during the summer to places of special geographic interest in U.S. and foreign areas. Projects may be arranged that have an application to teaching. Course may be repeated if different areas are being studied.

GGR 458 HISTORICAL GEOGRAPHY OF THE UNITED STATES (3) [100 or 214; Jr. or p]

Relates physical environment and human activity in the settlement and development of the United States.

GGR 459 POLITICAL GEOGRAPHY (3) [Jr. or p]

A study of the factors of the geographic environment that bear on the functioning and pattern of the world's national state system.

GGR 460 INDUSTRIAL GEOGRAPHY (3) [250 or Jr. or p]

A study of the manufacturing and mineral extractive industries. Emphasizes world distributions and locational advantages as affected by ingredient elements.

GGR 461 COMMERCIAL GEOGRAPHY (3) [250 or Jr. or p]

Study of the principles governing the interrelations of individual locations and factors pertinent to the exchange of economic goods.

GGR 465 URBAN GEOGRAPHY (3) [250 or p]

A study of the site and regional location of cities and urban areas. An analysis of internal and regional problems in urban development and expansion. An examination of the function and the future of urban communities.

ID 495 INTERDISCIPLINARY SEMINAR (3)

Applied study of a problem of the college region related to the physical-human environment as an eco-system.

GGR 497 CONSERVATION AND OUTDOOR EDUCATION WORKSHOP (4)—Su

Resource and conservation study by direct observation in field and outdoor situations. Field camp and on-campus work are included. Materials and project outlines for classroom use are developed.

GGR 498 SEMINAR IN GEOGRAPHY (3) [Below]

Advanced group study. Discussion topics selected for each seminar. Prereq: 15 credits successfully completed in Geography or p.

GGR 499 DIRECTED STUDY IN GEOGRAPHY (Arr) [P]

GRADUATE COURSES

GGR 596 COLLEGE TEACHING INTERNSHIP (5)

GGR 599 INDEPENDENT STUDY (Arr)

GEOLOGY

E. P. Kiver, Chairman

1971-72 Staff: Gilmour, Kridelbaugh, Mumma, Mutschler, Snook, Steele, Wilkerson

All Geology courses may be applied to satisfy general requirements in Science.

Any substitutions in the following major programs must be approved by the department. Students should check with their adviser for any new changes in curriculum.

BACHELOR OF SCIENCE DEGREE

The 59-credit major is designed for those students who plan a professional career in Geology.

Major in Geology: 59 credits

Glg 201, 202 Physical Geology	8
Glg 310, 311 Mineralogy	5
Glg 314 Historical Geology	5
Glg 315 Petrology	4
Glg 408 Geobiology	4
Glg 411 Stratigraphy	4
Glg 412 Structural Geology	3
Glg 420 Geologic Field Methods . . . . .	.10
Glg 421 Geology Field Camp . . . . .	.6
Upper Division Electives	59

Required Supporting Courses: 45 credits

Chm 151, 152, 153 . . . . .	.15
Mth 131, 132, 161 . . . . .	.15
Phy 131, 132, 133 . . . . .	.15
	45

Science Option: Those students who demonstrate the interest and ability to pursue a program involving other cognate sciences may replace up to 30 credit hours of the above program with courses from Biology, Chemistry, Computer Science, Geography, Geology, Mathematics, Physics, or cognate fields with the exception that Geology courses may not be used as supporting courses. Substitutions must be approved by the department.

BACHELOR OF ARTS DEGREE

The 40-credit major is designed for the student interested in geology, but not interested in a professional career in geology.

Minor in Geology: 40 credits

Glg 201, 202 Physical Geology	10
Glg 211 Rocks and Minerals	5
Glg 314 Historical Geology	5
Upper Division Electives	20
	40

NOTE: Ggr 310 may be substituted for five geology credits.

Required Supporting Courses: 20 credits

Twenty credits in at least two of the following areas: Chemistry, Physics, Mathematics, or Biology.

Substitutions in the above program must be approved by the department.

Minor in Geology: 15 credits

Glg 100 Survey of Geological Sciences	5
Electives in Geology . . . . .	.10
	15

BACHELOR OF ARTS IN EDUCATION DEGREE

Major in Earth Sciences (Secondary): 47-50 credits

Ggr 214 Physical Geography	5
Ggr 310 Geomorphology	5
Ggr 314 Weather and Climate	5
Ggr 316 Geography of the Ocean Basins	4
Glg 100 Survey of the Geological Sciences	5
Glg 211 Rocks and Minerals	5
Glg 314 Historical Geology	5

*Electives chosen from the following:

Ggr 317, 327, 410, 414	
Glg 200, 201, 202, 220, 225, 310, 311, 312, 324, 408, 409, 410, 411, 412, 450	
Phy 121	13-16
	47-50

*Electives chosen with consent of departmental adviser

Required Supporting Courses: 10 credits

Chm 100 Introduction to Chemistry	5
Phy 100 Physical Science . . . . .	.5
	10

Recommended Minor: 15 credits in Mathematics or Biology

Minor in Earth Sciences: 13-15 credits

Cgr 214 Physical Geography	5
Glg 100 Survey of the Geological Sciences	5
3-5 credits selected from geology or physical geography courses	3-5
	<hr/> 13-15 credits

Minor in Geology: 15 credits

Glg 100 Survey of Geological Sciences.	5
Electives in Geology. . . . .	.10
	<hr/> 15 credits

GEOLOGY COURSES**GLG 100 SURVEY OF THE GEOLOGICAL SCIENCES (5)**

A survey of the major geological sciences with an emphasis on physical processes.

GLG 200 LIFE IN THE GEOLOGIC PAST (5)

Study of the basic concepts of the origin and development of life through geologic time based on the fossils from the geologic record.

GLG 201 PHYSICAL GEOLOGY (5)

An introduction to physical geology for majors and others especially interested in geology. Emphasis on the earth in space, origin of the earth, the interior of the earth, and minerals and rocks.

GLG 202 PHYSICAL GEOLOGY (5) [201]

A continuation of Glg 201. Emphasis on geologic time, geologic structures, and surficial processes, and landforms.

GLG 211 ROCKS AND MINERALS (5)

Survey of the common rocks and minerals in the earth's crust.

GLG 220 ENVIRONMENTAL GEOLOGY (5) [Below]

Effect of man as a geological agent on his Earth environment. Water quality, atmospheric composition, waste disposal, natural resources. The need for an inter-disciplinary approach to environmental problems. Guest lectures and field trips emphasizing environmental problems in the Northwest. Prereq: Any 100-level science course.

GLG 225 GEOLOGY OF THE PACIFIC NORTHWEST (4) [100]

A study of the economic, historical, and physical geology of the Pacific Northwest.

GLG 297 WORKSHOPS, SHORT COURSES, CONFERENCES

At a lower division level.

GLG 310 MINERALOGY (CHEMICAL) (4) [Chm 151, 152]

Classification and determination of minerals by physical and chemical properties. Special emphasis on ore and rock forming minerals. Emphasis on non-silicates.

GLG 311 MINERALOGY (CRYSTALLOGRAPHY) (4) [310]

Determination of minerals and other crystalline compounds by crystallographic methods. Theory of geometric crystallography, Crystal chemistry also considered. Emphasis on silicates.

GLG 312 MINERALOGY (OPTICAL) [311 or p]

Determination of minerals and other crystalline compounds by optical methods. Use of the petrographic microscope emphasized. This course also fits the needs of professional majors interested in instrumental analysis in chemistry, physics, and biology. Emphasis on non-opaque compounds.

GLG 314 HISTORICAL GEOLOGY (5) [100 or 202 or p]

A study of the geologic development of the earth and the evolution of life upon the earth. Emphasis upon methods used in geologic interpretation.

GLG 315 PETROLOGY (5) [211 or 311]

An intermediate level study of the classification, description, and petro-genesis of igneous, metamorphic, and sedimentary rocks.

GLG 324 GENERAL GEOLOGY (5) [Jr or p]

A study of fossils, rocks and minerals: identification and general geologic and geomorphic processes as applied to elementary and secondary teaching. Course for non-majors.

GLG 350 MINERALS IN WORLD AFFAIRS (4) [100 or p]

A study of the origin, character, and location of mineral deposits and their importance in world affairs.

GLG 386 INTRODUCTION TO GEOPHYSICS (5) [Mth 161, Phy 131, 132, 133 or p]

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.

GLG 397 WORKSHOPS, SHORT COURSES, CONFERENCES**GLG 408 GEOBIOLOGY (4)**

Principles of Geobiology (paleontology) including methods of description, analyses of ontogenetic variations and populations, and taxonomic procedures. Also includes introduction to paleoecology, evolutionary principles, and biostratigraphy.

GLG 409 INVERTEBRATE PALEONTOLOGY (4) [100, 314, or p]

Study of fossil remains of invertebrate animals. Emphasis on principles of morphology and evolutionary development of invertebrates and the use of invertebrate fossils in biostratigraphy and paleoecology.

GLG 410 VERTEBRATE PALEONTOLOGY (5) [100, 314 or p]

Principles of vertebrate paleontology, vertebrate evolution; comparative laboratory examination of representative fish, amphibians, reptiles, mammals, and birds.

GLG 411 STRATIGRAPHY (4) [100, 314 or p]

Interrelationships of environment, tectonic controls, facies, and correlation. Use of regional sedimentation patterns in the interpretation of paleogeography, paleogeology, and paleoecology. Lecture and field studies.

GLG 412 STRUCTURAL GEOLOGY (4) [100, 314, Mth 132 or p]

Structural features of the earth's crust, tectonic patterns, and orogenic disturbances.

GLG 413 X-RAY DIFFRACTION PROCEDURES (4) [Chm 151, 152 or p]

Theory of X-rays, their use in the identification of crystalline materials. Emphasis on the Debye-Scherrer method. Introduction to X-ray crystallography and structural studies by use of single crystal methods. This course also fits the needs of professional majors interested in instrumental analysis in chemistry, physics, and biology.

GLG 420 GEOLOGIC FIELD METHODS (3) [412 or p]

Introduction to the measuring of stratigraphic sections, surveying, and geologic mapping on aerial photographs and topographic maps with emphasis on field exercises.

GLG 421 GEOLOGY FIELD CAMP (10) [312, 315, 420 or p]

Application of geologic principles to the solution of field problems. Study will include geologic and topographic mapping, stratigraphic section measuring and field trips into surrounding areas. Formal report of the field study is required.

GLG 429 PETROGRAPHY (4) [312]

Introductory study of igneous, metamorphic and sedimentary rocks using the petrographic microscope and related equipment.

GLG 430 IGNEOUS PETROLOGY AND PETROGRAPHY (4) [312, 429, 463]

Study of the origin and evolution of igneous rocks. Lectures emphasize theoretical and experimental approaches to igneous petrology; laboratories emphasize modern optical and X-ray petrographic techniques.

GLG 431 METAMORPHIC PETROLOGY AND PETROGRAPHY (4) [312, 429]

Considers the origin of metamorphic rocks and their determination by various laboratory methods, optics, X-ray and chemical means.

GLG 432 SEDIMENTARY PETROLOGY AND PETROGRAPHY (4) [312, 429 or p]

Considers the origin of sedimentary rocks and their determination by optical, x-ray and statistical methods.

GLG 440 ECONOMIC GEOLOGY: METALLIC (4) [312, 314]

A study of the geology, origin, and economics of metallic ore deposits and their discovery and development.

GLG 441 ECONOMIC GEOLOGY: NON-METALLIC (4) [312, 314]

A study of the character, origin, and economic significance of non-metallic ore deposits.

GLG 442 MINERAL FUELS GEOLOGY (4) [314, 411, 412 or p]

A study of the character, distribution, origin, and recovery of petroleum and coal resources.

GLG 450 GLACIAL GEOLOGY (4) [100 or Ggr 310 or p]

A study of the problems, methods, and results of investigations concerning glaciology, glacial geology, and Pleistocene history. Field trips are required to areas presently or formerly covered by glaciers.

GLG 460 PHOTOGEOLOGY (4) [412 or Ggr 310 or p]

Introduction to the geologic interpretation of air photos and topographic maps.

GLG 462 INTRODUCTION TO SEDIMENTARY GEOCHEMISTRY (4) [310]

A semi-quantitative and theoretical approach which emphasizes the chemical processes involved in the weathering of rocks and the deposition and diagenesis of sediments. Oxidation, reduction, and hydrolysis reactions are discussed in detail.

GLG 463 INTRODUCTION TO IGNEOUS AND METAMORPHIC GEOCHEMISTRY (4) [p]

Application of the phase rule to crystallization, magmatic differentiation, volcanic gases, hydrothermal solutions, and metasomatism are emphasized. Chemical equilibrium involving complex systems at high temperatures and pressures are discussed.

GLG 464 SELECTED TOPICS IN GEOCHEMISTRY (3) [p]

Selected topics will depend on student interest, but may include: clay mineralogy, chemical oceanography, geochemical prospecting, and water, carbonate, organic or isotope geochemistry.

GLG 471 MICROPALAEONTOLOGY (4) [408 or p]

Introduction to the paleobiology of the smaller animal and plant taxa, with particular attention to those taxa which are of economic importance to the petroleum industry.

GLG 486 SOLID EARTH GEOPHYSICS (5) [Mth 163, Phy 131, 132, 133 or p]

Gravity and the figure of the Earth, propagation of elastic waves in a layered Earth, representation of the geomagnetic field, and the paleomagnetic method. Laboratory sessions devoted to the required mathematical techniques.

GLG 488 SPECIAL TOPICS IN GEOPHYSICS (3) [386 or 486 or p]

Geophysical topics selected by the students will be discussed in detail. Sample topics might include applied seismology, gravity-prospecting, evidence for seafloor spreading, etc. May be repeated for a maximum of 9 credits.

GLG 497 WORKSHOPS, SHORT COURSES, CONFERENCES**GLG 498 SEMINARS****GLG 499 DIRECTED STUDY IN GEOLOGY (1-5) [p]**

May be repeated for a total of 15 credits if a different study is undertaken each time. Seminar in a selected field of geology to suit a student's need.

GRADUATE COURSES**GLG 501 SEMINAR**

Current problems in geology. The subject matter will vary according to the needs and interest of students.

GLG 521 NORTH AMERICAN STRATIGRAPHY (4) [411]

Advanced principles of stratigraphy and their application, based on selected groups of rocks.

GLG 532 SEDIMENTARY PROCESSES (4) [310, 311, 312, 411, 432]

Study of sedimentary environments of deposition, the processes at work within them and the rocks that result from these processes.

GLG 533 CARBONATE PETROGRAPHY (4) [432 or p]

Principles of carbonate petrography with particular attention to the petrogenesis and classification of carbonate rocks, laboratory analysis of thin sections and hand specimens.

GLG 539 SPECIAL COURSES**GLG 540 TECTONOPHYSICS (4) [411, 412, 430 or p]**

Review of physical properties of rocks and their application to evaluation of structural and petrologic processes.

GLG 550 QUATERNARY STRATIGRAPHY (4) [450 or p]

A study of the quaternary stratigraphy and geologic history of selected areas of the world with emphasis on North America.

GLG 551 ADVANCED GEOMORPHOLOGY (4) [G]

A detailed study of some of the major problems and current research in geomorphology.

GLG 570 BIOSTRATIGRAPHY AND PALEOECOLOGY (4) [408, 411 or p]

Introduction to the methods employed for utilizing fossils as determinants of the geologic age and paleoecology of sedimentary rocks.

GLG 596 COLLEGE TEACHING INTERNSHIP (1-5)**GLG 598 GRADUATE SEMINAR (1-5)****GLG 599 INDEPENDENT STUDY (Arr)****GLG 600 THESIS (6-15)**

Thesis credit is essential to the Geology program. Every student will be expected to produce a resume of his research in the form of a formal report or thesis.

GLG 601 FIELD RESEARCH (1-10)

Field and related laboratory research into problems which may be different than the thesis research or an extension of research beyond the Master's thesis.

HEALTH EDUCATION

Richard H. Hagelin, Chairman

1971-72 Staff: Barr, Gamon, Gazette, Kleven, Krause, McLarren

The department of Health Education has as its major purpose the preparation of young men and women for teaching and administrative positions in school health.

Health Education majors will be prepared to assume major responsibilities in the teaching and administration of secondary and elementary school health programs. Each student will receive classroom experience and supervised field training in Health Education. Emphasis will be placed upon the positive relationship between individual and community well-being.

The Health Education major will assume instructional and administrative responsibilities in health thus it is necessary that they take courses in both areas. Because elementary and secondary students are faced with various types of physical and mental health problems, Health Education instructors should be well versed in appropriate preventive measures and possible solutions. For this reason all Health Education majors are encouraged to take courses in physical, mental, and social areas relating to health education.

BACHELOR OF ARTS IN EDUCATION DEGREE**Major in Health Education: 45 credits**

HE 172 Health Education Orientation	3
HE 250 Mind Altering Substances	3
HE 370 Personal and Community Health	5
HE 374 Fundamentals of Epidemiology	5
HE 375 Degenerative Diseases and Gerontology	5
HE 376 Environmental Hygiene	5
HE 451 Administration of the School Health Program	3
HE 496 Field Work in Health Education	4
PE 454 Measurement and Evaluation	5
PE 465 Physical Growth and Development	2
Soc 370 Marriage and the Family	5
	45 credits

Required supporting courses: 15 credits

Bio 100 Biological Science	5
Bio 132, 133 Anatomy and Physiology	10
	15 credits

For additional strength electives may be selected from a list obtained from the Department Chairman.

Minor in Health Education: 18 credits

*HE 370 Personal and Community Health	5
HE 374 Fundamentals of Epidemiology	5
HE 375 Degenerative Diseases and Gerontology	5

HE 451 Administration of the School Health Program. $\frac{.3}{18}$ credits

*Physical Education Majors will substitute 5 credits in health education for HE 370.

HEALTH EDUCATION COURSES

HE 172 HEALTH EDUCATION ORIENTATION (3)

An introduction to the health education profession in the schools and the community. Acquaints the students with job responsibilities, opportunities, and the qualifications of health educators.

HE 196 FIRST AID AND SAFETY EDUCATION (2)

Practice in the use of various kinds of bandages, dressings, antiseptics, disinfectants, etc. The Red Cross Standard Certificate will be awarded to those who qualify.

HE 250 MIND ALTERING SUBSTANCES (3)

A study of the uses and abuses of narcotics, hallucinogenics, barbiturates, amphetamines, and alcohol. A discussion of the psychological and physiological effects and cause of abuse.

HE 365 TEACHING PROCEDURES IN HEALTH EDUCATION (3) [Jr or p]

Methods and procedures utilized in the teaching of health in elementary and secondary schools.

HE 370 PERSONAL AND COMMUNITY HEALTH (5)

A study of the hygienic care of the body, personal health problems and community health fundamentals important in public school health instruction.

HE 374 FUNDAMENTALS OF EPIDEMIOLOGY (5) [Bio 100]

A consideration of the major communicable diseases of man with emphasis upon prevention and control. An introduction to the modern scientific approach to control of communicable diseases.

HE 375 DEGENERATIVE DISEASES AND GERONTOLOGY (5) [Bio 132, 133]

A consideration of the major problems of the degenerative and chronic diseases. An analysis of the physical and physiological deterioration of the body and mind. An introduction to the study of gerontology.

HE 376 ENVIRONMENTAL HYGIENE (5)

A study of the relationships that influence our environment and affect individual and community health.

HE 411 FIRST AID INSTRUCTOR'S COURSE (2) [Jr, 196 or eq.] —e/y

Teaching methods in bandaging, splinting, first aid care, and transporting the sick and injured. Those who qualify receive the instructor's certificate and will be authorized to teach the Junior, Standard, and Advanced First Aid Course.

HE 451 ADMINISTRATION OF THE SCHOOL HEALTH PROGRAM (3) [Jr or p]

A practical presentation of the philosophy and principles of the school health program. Emphasis will be placed on the organization and administration of school health services and the school environment.

HE 460 PHYSIOLOGY OF EXERCISE (3) [Bio 100, 132, 133]

An advanced course in the application of the principles of physiology to exercise. A study of the chronic and acute effects of exercise and its effects on health and fitness.

HE 472 HEALTH FUNDAMENTALS AND PROCEDURES (5) [Jr or p]

Conservation and promotion of health in the individual, home and community. Emphasis will be placed upon principles of healthful living and recognition of deviation from normal health. Consideration of the health education curriculum, materials and methods, school health services, coordination within the school and the community health agencies.

HE 496 FIELD WORK IN HEALTH EDUCATION (4) [ST]

Each student will have an opportunity to work under a public health supervisor in one of the voluntary health associations or official health departments in the area. Opportunity will be given to assist in the planning, operations, and evaluation of community health projects.

HE 497 WORKSHOP IN HEALTH EDUCATION (Arr)

Workshops dealing with specific aspects of health education are

conducted either during the summer or by extension. These workshops are designed for experienced teachers with interests in health education.

HE 498 SEMINAR (Arr)

Seminars dealing with various aspects of health and health education are conducted. These seminars are designed for advanced students in para-medical sciences and/or experienced teachers.

HE 499 DIRECTED STUDY IN HEALTH EDUCATION (Arr) [Jr, P]

Study of selected problems in the field of health education.

GRADUATE COURSES

HE 541 SPECIAL PROBLEMS IN HEALTH EDUCATION (Arr)

Study of selected problems in the field of health education.

HE 542 SEMINAR (Arr)

Seminars dealing with special aspects of health education are conducted.

HE 555 ADVANCED PHYSIOLOGY OF EXERCISE (3)

(Same as PE 555) Physiology effects of muscular exercise, physical conditioning, and training. Significance of these effects in health and performance in activity programs.

HE 599 INDEPENDENT STUDY IN HEALTH EDUCATION [P]

HISTORY

Donald F. Pierce, Chairman

1971-72 Staff: Barnes, Barr, Donegan, Donley, Ferrell, Green, Innes, Kidd, Kieswetter, Lauritsen, Nichols, Odum, Schults, Triplett, Wong.

BACHELOR OF ARTS DEGREE

Major in History: 45 credits

Choice of 45 credits in History, 25 of which must be upper-division courses, i.e., numbered 300 or above. The 45 credits must be distributed among at least three of the following areas: Africa/Black Studies, Ancient History, Asia, England, Europe, Latin America, and United States.

Required supporting courses: 30 credits

History majors shall take at least 30 credits from the following departments: Anthropology, Sociology, Political Science, Economics, Geography, Foreign Language, Philosophy and Literature. In addition, other courses which are basically historical in their approach (i.e., History of Art, History of Music, etc.) may be applied if prior permission has been received, in writing, from the student's adviser.

Note: History majors:

(1) are strongly encouraged to take History 390 in their junior year.

(2) must take either History 498 or History 499 as part of their 45 hours.

(3) are strongly encouraged to complete two years of a modern foreign language.

Minor in History: 18 credits

Choice of 18 credits in History, of which at least five must be in the upper division. The 18 credits must be distributed among at least two of the following areas: Africa/Black Studies, Ancient History, England, Europe, Latin America and United States.

BACHELOR OF ARTS IN EDUCATION.

The 45-credit major or 18-credit minor in History are available as choices in the Social Sciences, Bachelor of Arts in Education program for junior and senior high schools.

Major: 45 credits

Choice of 45 credits in History, 25 of which must be upper-division courses, i.e., numbered 300 or above. The 45 credits must be distributed among at least three of the following areas: Africa/Black Studies, Ancient History, Asia, England, Europe, Latin America and United States.

Note: Washington State Certification Requirements for Social Sciences include 9 credits in U.S. History and 9 credits in History of Western Civilization or World Civilization or equivalent courses as approved by the department.

Note: History majors shall choose a cognate minor from An-

thropology, Sociology, Economics, Political Science, English, Foreign Languages, Philosophy, Geography, Art, Music, or Drama as approved by the History department. (See individual department requirements for minor)

Note: History 460 is required for all elementary and secondary majors in the Social Sciences. History 460 may be applied toward the major.

Minor: 18 credits

Choice of 9 credits in U.S. History and 9 credits in the area of Western Civilization or World Civilization as approved by the department. Five of the 18 credits must be in the upper division.

Note: History 460 is required for all elementary and secondary minors in the Social Sciences. Students may apply History 460 toward their minor.

Alternate program in Social Science (Secondary) History, as described in the section on Social Science Education on Page 102:

30 Credit Component*:

- 10 credits of lower-division courses
- 20 credits of upper-division courses:
 - 10 from Western world (England, Europe, U.S., Latin America, Black America)
 - 10 from Non-Western world (Africa, Asia)

*Two courses U.S. History required.

20 Credit Component:

- 10 credits of U.S. History
- 10 credits of Western Civilization or World Civilization or its equivalent.

HISTORY COURSES

HIS 101 INTRODUCTION TO ASIAN CIVILIZATION (5)

Survey of the history of China; the evolution of characteristic Chinese institutions and modes of thought from antiquity to 1950; the problems of political changes; China's response to the western impact in modern times.

HIS 102 INTRODUCTION TO ASIAN CIVILIZATION (5)

A survey of Japanese history from earliest recorded times to the present. There will be an emphasis upon the relationship between Chinese and Japanese culture as well as upon the unique cultural contributions of Japan. The creation of a modern state in the last century and the impact of western civilization on Japanese culture will be treated.

HIS 103 INTRODUCTION TO ASIAN CIVILIZATION (5)

Studies in the history and civilization of India. The religious, cultural, and social heritage will be emphasized.

HIS 107 HISTORY OF WESTERN CIVILIZATION TO 1500 (5)

Topics and discussions in the history of Europe from antiquity to 1500.

HIS 108 HISTORY OF WESTERN CIVILIZATION 1500-1815 (5)

A continuation of His 107 through the early modern period.

HIS 109 HISTORY OF WESTERN CIVILIZATION 1815 TO THE PRESENT (5)

A continuation of His 108 through the modern period.

HIS 201 UNITED STATES, 1606-1815. THE FORMATION OF THE REPUBLIC (5)

The settlement of the American Colonies, the American Revolution, the establishment of the new government, the breakdown of the Confederation and the building of the Constitution, and the final establishment of American independence as a result of the Second War with England.

HIS 202 UNITED STATES, 1815-1898. THE DEVELOPMENT OF THE NATION (5)

Growth of the American nation, manifest destiny, the slavery controversy and the Civil War, Reconstruction, the disappearance of the frontier, and the emergence of industrial America.

HIS 203 20TH CENTURY AMERICA (5)

The development of the United States since 1896. The emergence of the nation as a world power and its industrial growth with consideration of the changed conditions arising from the wars in which we have participated.

HIS 249 BLACK AMERICAN HISTORY (5)

A historical study of the origin and nature of Black Americans' experience in America from 1600-1877 with particular emphasis on

their responses to the American conditions and contribution to American history and culture.

HIS 250 BLACK AMERICAN HISTORY (5)

A continuation of History 249. Emphasis will be placed on the search for cultural, economic and political advancement of Black Americans from 1877 to the present.

HIS 299 SPECIAL STUDIES IN HISTORY (1-5)

Subjects studied vary according to faculty and student interest.

HIS 315 COLONIAL LATIN AMERICA (5)

An outline of the Spanish and Portuguese settlements in the western hemisphere, their political, economic, and social development. An emphasis upon the process by which they attained independence.

HIS 316 REPUBLICAN LATIN AMERICA (5)

A survey of the important aspects of the Latin American republics since independence. Some stress upon individual developments among the various republics.

HIS 330 BRITISH NORTH AMERICA (3)

An outline of the history and development of the political institutions of Canada.

HIS 333 HISTORY OF ENGLAND (4)

A study of the various aspects of English history from the Roman conquest to 1660. Attention is given to social, cultural, economic, and constitutional developments.

HIS 334 HISTORY OF ENGLAND (4)

A history of England from the Restoration, 1660, to the twentieth century, including a study of the cultural, economic, and constitutional developments of the period.

HIS 335 CONSTITUTIONAL HISTORY OF ENGLAND (4)

The development of the English Constitution with special reference to its influence as the basis of the American legal system. Open to pre-law sophomores with the consent of the instructor.

HIS 337 RUSSIA TO 1855 (4)

A survey of the major forces involved in the development of Tsarist Russia.

HIS 338 RUSSIA: 1855-1917 (4)

A survey of the economic, political, and social development in Russia after the Great Emancipation Act of 1861 to the Revolution in 1917.

HIS 339 THE SOVIET UNION (4)

The economic, social, political and cultural history from 1917 to the present.

HIS 340 EUROPE: 1815-1914 (5)

Basic factors of the nineteenth century; the industrial revolution, failure of conservative control, rise of nationalism and imperialism, and the causes leading to the outbreak of World War I.

HIS 341 EUROPE SINCE 1914 (5)

The international issues which led to World War II, and the general problems which have developed since 1945.

HIS 343 ANCIENT HISTORY (5)

An intensive study of the civilizations of the ancient Near East, and of Greece and Rome down to the end of the Roman Empire in the West.

HIS 345 HISTORY OF FRANCE TO 1661 (4)

The history of France from the Celts to the beginning of the personal reign of Louis XIV. Developments such as the Cluniac reform, the Angevin empire, and the unification of France will be discussed.

HIS 346 HISTORY OF FRANCE SINCE 1661 (4)

The history of France from the beginning of the personal reign of Louis XIV to the present. Cultural aspects will be included.

HIS 348 THE MIDDLE AGES (5)

The social, political, and cultural development of Europe from the fall of the Roman Empire in the West to the year 1500.

HIS 351 SOCIAL AND INTELLECTUAL HISTORY OF THE UNITED STATES TO 1850 (4)

A survey of the social and intellectual heritage of the American people from colonial times to about 1850.

HIS 352 SOCIAL AND INTELLECTUAL HISTORY OF THE UNITED STATES SINCE 1850 (4)

A continuation of History 351 with emphasis upon social and intellectual developments in our expanding democracy.

HIS 353 HISTORY OF THE AMERICAN FRONTIER (5)

The development of the United States as seen in its advancing frontiers. The results upon the political, social, and cultural development of the nation will be emphasized. An opportunity for original research and investigation in the field will be afforded.

HIS 354 EARLY MODERN EUROPE (5)

Political, economic, social, and intellectual forces in European history from 1500-1815.

HIS 358 HISTORY OF EARLY MODERN CHINA (5)

The early modern period of Chinese history, emphasizing the evolution of social, political, and economic institutions under native and foreign rulers from 900-1800.

HIS 359 THE RENAISSANCE AND THE REFORMATION (4)

A study of the cultural activities of fourteenth through sixteenth century Europe. Emphasis will be placed on the broad fields of the arts and religion.

HIS 362 CONSTITUTIONAL HISTORY OF THE UNITED STATES TO 1865 (4)

A study of the development of the U.S. Constitution to 1865 through an examination of constitutional theory and practice in the history of the era. Emphasis will be given to the relationship between social, economic, and political developments as they influenced the nation's constitutional history.

HIS 363 CONSTITUTIONAL HISTORY OF THE UNITED STATES SINCE 1865 (4)

A study of the development of the U.S. Constitution since 1865 through an examination of constitutional theory and practice in the history of the era. Emphasis will be given to the relationship between social, economic and political developments as they influenced the nation's constitutional history.

HIS 364 HISTORY OF INDIA TO 1750 (4)

A survey of Indian Civilization from its beginning through the Moghul Empire, with emphasis on religious and cultural foundations.

HIS 365 HISTORY OF INDIA SINCE 1750 (4)

The history of India from the beginning of British hegemony through the formation of the modern, independent states of Pakistan and India.

HIS 366 HISTORY OF SOUTHEAST ASIA (4)

A survey of Southeast Asian history from antiquity to the present, emphasizing the historical processes of culture contacts and the transitions to modern nation states.

HIS 370 ASIA AND THE WEST (4) [Below]

An analytical study of historic contacts between Asian and Western civilizations, with some emphasis placed upon Asian perspectives. Prereq: Previous credits in Asian history or permission of the instructor.

HIS 375 AFRICAN HISTORY (4)

A survey of African history from pre-history to the present. Emphasis will be directed toward earlier African civilizations, extensive contact with the outside world and the formation of Nations in Africa.

HIS 390 HISTORIOGRAPHY AND HISTORICAL RESEARCH (4)

Recommended for all history majors in their junior year. A study of historiography, including the intellectual processes by which history is written, the results of these processes, and the sources and developments of history.

HIS 402 COLONIAL ORIGINS OF THE UNITED STATES, 1606-1763 (4) [201 or p]

The development of American life, thought, and institutions in the earliest settlements to the end of the French and Indian War.

HIS 403 THE ERA OF THE AMERICAN REVOLUTION, 1763-1789 (4) [201 or 402 or p]

A study of the causes, course and character of the revolutionary movement which began with a dispute over the true nature of the British Empire and ended with the resolution of a dispute over the true nature of the newly independent Republic.

HIS 406 EARLY NATIONAL UNITED STATES (4)

Federalists, Jeffersonians, and the era of good feelings. United States history from 1789 to 1828, emphasizing the conflict between nationalism and sectional interests.

HIS 408 THE AGE OF JACKSON (4)

The causes, course and effects of the "Jacksonian Revolution" especially in their effect upon the development of the course of American nationality.

HIS 410 ECONOMIC HISTORY OF EUROPE (5) [Jr]

(Same as Eco 410) The economic history of Europe from the latter days of the Roman Empire to the twentieth century. Principal emphasis is placed on Europe's transition from traditional to modern economic life and subsequent emergence into the age of high mass consumption.

HIS 412 ECONOMIC HISTORY OF THE UNITED STATES (5) [Jr]

(Same as Eco 412) The 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.

HIS 413 CIVIL WAR AND RECONSTRUCTION (5)

The war between the states and attendant problems. Particular emphasis is given to the philosophy and statesmanship of Abraham Lincoln.

HIS 418 HISTORY OF MEXICO (4)

A study of Mexico from pre-Conquest times to the present. Attention is given to the social, cultural and political developments with special emphasis on the National period.

HIS 419 BRAZIL AND SPANISH SOUTH AMERICA (4) [315 or 316 or p]

Emphasizing Colonial, Imperial, and Republican Brazil, the course will additionally study the national period of one Andean and one Platine country.

HIS 420 FRENCH REVOLUTION AND NAPOLEON (4)

The history of the French Revolution and Napoleon, from the development of conditions leading to the Revolution through the Congress of Vienna. Emphasis will be on political, military, and diplomatic developments.

HIS 425 HISTORY OF THE MIDDLE EAST (5)

An examination of the Eastern Mediterranean and Balkan area from the fifth century to the present; emphasis on development of political and social institutions, the spread of Islam, and the relationships of the area to modern politics.

HIS 430 HISTORY OF GREECE (5)

The Greek world from the Minoan-Mycenaean period to about 220 B.C.

HIS 431 HISTORY OF ROME (5)

From the foundation of Rome to the death of Theodosius I (395 A.D.) and the division of the Empire.

HIS 440 RUSSIAN-SOVIET HISTORY (4) [p]

Individual investigation of significant developments in Russian-Soviet History.

HIS 441 ENGLAND IN THE TWENTIETH CENTURY (3)

From Victorian England to the present day, including a consideration of the nineteenth century background. Stress will be given the transition of Great Britain from the leading European naval, imperial, and commercial power to her less certain position today in relation to Europe and the world.

HIS 451 HISTORY OF AMERICAN DIPLOMACY TO 1914 (4)

A study of the American diplomatic system and the major foreign policies of this country to 1914; origin and nature of neutrality, the Monroe Doctrine, Manifest Destiny, and the promotion of commerce.

HIS 452 HISTORY OF AMERICAN DIPLOMACY FROM 1914 (4)

A continuation of His 451; American entry into World War I and II; the revolution in American foreign policy; America's role in the quest for peace.

HIS 460 HISTORY AND GOVERNMENT OF THE PACIFIC NORTHWEST (5)

An intensive study of the principal events and institutions of the four states comprising the Pacific Northwest, and especially of their

relation to the Federal Union. May not be taken by those who have had His 360 (Washington State History).

HIS 461 EUROPEAN CULTURAL HISTORY, 400-1789 (3)—a/y

A consideration of problems in European cultural and intellectual history from the early medieval period through the Enlightenment. Special attention will be given to such topics as the Carolingian Renaissance, Scholasticism, the beginnings of secular political thought, the Renaissance of the twelfth century, the transformation of the late medieval world, the origins of modern science, and the enlightenment of the eighteenth century.

HIS 462 EUROPEAN CULTURAL HISTORY SINCE 1789 (3)

Selected topics in the cultural history of nineteenth and twentieth century Europe. Emphasis will be placed upon the interrelationships of intellectual and political developments.

HIS 465 INTELLECTUAL HISTORY OF LATIN AMERICA (4)

Focuses on the evolution of institutions in Hispanic America as they relate to the thought of their day.

HIS 467 HISTORY OF JAPAN TO THE 17TH CENTURY (5)

History of traditional Japan from the pre-Christian era to the 17th Century.

HIS 468 HISTORY OF JAPAN FROM THE 17TH CENTURY (5)

History of Japan as traditionalism is modified and the modern nation emerges, from the 17th Century to the present.

HIS 475 CONTEMPORARY AMERICA (3) [Jr]

A consideration of twentieth century American civilization. Attention will be given to American traditions, the role of labor and big business, to all factors which go to make up the American way of life.

HIS 480 CHINA IN THE 19TH AND 20TH CENTURY (5)

A political, economic, and diplomatic consideration of China from the late Ching Dynasty, with particular emphasis on the rise of Chinese nationalism and Communism as an aftermath of Western and Japanese imperialism in China.

HIS 481 TOPICS IN MODERN CHINESE HISTORY (3)

Individual investigation of selected topics in Modern Chinese History.

HIS 490 THE DIPLOMATIC HISTORY OF EUROPE, 1815-1914 (4)

An examination of the development of European diplomacy from the defeat of Napoleon to the outbreak of World War I.

HIS 491 THE DIPLOMATIC HISTORY OF EUROPE, 1914 TO PRESENT (4)

A continuation of His 490 to the present.

HIS 493 HISTORY OF MODERN GERMANY (4)

History of Germany in the nineteenth and twentieth centuries.

HIS 497 HISTORY WORKSHOP (1-5)

Workshops in history are held for the purpose of examining and exploring historical developments.

HIS 498 SEMINAR (1-5)

HIS 499 DIRECTED STUDY IN HISTORY (1-5) [P]

Directed study and research projects in various fields of history. Limited to senior and graduate students.

GRADUATE COURSES

Permission of the instructor is a prerequisite to all graduate courses in History.

HIS 513 HISTORIOGRAPHY (4)

An analytical study of historical literature with an emphasis on the period since 1500. Consideration will be given to major trends of historical interpretation, as well as to individual writers.

HIS 521 INTRODUCTION TO HISTORICAL RESEARCH (4)

Intended for history majors. Emphasis will be on the methods and problems of research in the various fields of history. The seminar method will be used.

HIS 533 READING SEMINAR IN TUDOR AND STUART ENGLAND (4) [Below]

The work of the seminar will center around the study and analysis of a number of works by different authors representing a variety of views and interpretations of the period. Prereq: Undergraduate work in English History and His 521 or permission.

HIS 534 RESEARCH SEMINAR IN TUDOR AND STUART ENGLAND (4) [533]

Seminar members will conduct directed scholarly research in some facet of the political, economic, or social development of the period, which will have been selected in His 533.

HIS 536 EARLY NATIONAL PERIOD, 1789-1824 (4)

A survey of problems of research and interpretation in the Early National Period to 1824, with the objective of preparing the student to conduct original research in the field. This course is designed to be taken in sequence with His 538.

HIS 537 PROBLEMS AND SOURCES IN THE JACKSONIAN ERA (4)

A survey of problems of research and interpretation in the Jacksonian Era, with the objective of preparing the student to conduct original research in the field. This course is designed to be taken in sequence with His 538.

HIS 538 SEMINAR IN EARLY NATIONAL PERIODS OR JACKSONIAN ERA (4)

A research and writing seminar designed to be taken in sequence with His 536 or 537.

HIS 542 RESEARCH IN CONTEMPORARY AMERICAN HISTORY (4)

HIS 552 PROBLEMS AND SOURCES IN AMERICAN COLONIAL HISTORY (4)

A survey of problems of research and interpretation in American Colonial history to 1763, with the objective of preparing the student to conduct original research in the field. This course is designed to be taken in sequence with His 554.

HIS 553 PROBLEMS, SOURCES IN HISTORY OF THE AMERICAN REVOLUTION, 1763-1789 (4)

A survey of problems of research and interpretation in the history of the revolutionary era with the objective of preparing the student to conduct original research in the field. This course is designed to be taken in sequence with His 554.

HIS 554 SEMINAR IN AMERICAN COLONIAL OR AMERICAN REVOLUTIONARY HISTORY (4)

A research and writing seminar designed to be taken in sequence with His 552 or 553.

HIS 563 SEMINAR IN THE HISTORY OF THE AMERICAN WEST (4) [353, 521 or p]

The participants in this research seminar will be expected to investigate and analyze original documents and secondary accounts, and to prepare a formal paper.

HIS 594 HISTORY INTERNSHIP (3-5)

This program will stress the application of history to potential vocational opportunities by providing supervised work experiences in cooperating agencies. Internships may be created in several fields; one such program will be a Museum Internship; others may be created in Archives and libraries.

HIS 596 COLLEGE TEACHING INTERNSHIP (4)

The course will introduce graduate students to the problems and techniques of teaching history at all levels of undergraduate instruction through seminar discussions and the preparation and delivery of five lectures.

HIS 599 INDEPENDENT STUDY IN HISTORY (Arr) [P]

HOME ECONOMICS

Mary B. Johnston, Chairman

1971-72 Staff: Beaver, Diener, Prugh, Stevenson, Westrum.

The Department of Home Economics has as its fundamental purposes education for personal develop-

ment and family living, and preparation for a professional career.

General Home Economics offers a broad background of Home Economics courses without specialization.

The Home Economics major in Fashion Merchandising qualifies the student for opportunities in the fashion field. This concentration may lead to a position such as fashion coordinator, buyer, or merchandise manager.

The major in Food and Nutrition leads to business opportunities in food service and to internship in dietetic programs approved by the American Dietetic Association.

The Home Economics in Education program qualifies students to teach at the junior and senior high school level in non-vocational schools. Students wishing vocational certification should consult with the chairman of the department.

A Home Economics minor is also offered.

BACHELOR OF ARTS DEGREE

CORE: 58 CREDITS

HEc 101 Introduction to Home Economics	2
HEc 153 Food Preparation	5
HEc 168 Textiles	3
HEc 271 Clothing Construction	4
HEc 353 Meal Planning and Service	4
HEc 356 Nutrition	3
HEc 358 Home Furnishings OR	
HEc 359 Household Equipment	4
HEc 370 Family Development	5
HEc 459 Home Management	5
*HEc 460 Home Management Residence	3
Art 107 Basic Design	5
Eco 201 Introduction to Economics I	5
Psy 355 Psychology of Childhood and Adolescence	5
Soc 101 Introduction to Sociology OR	
Soc 361 General Sociology	5
	<u>58</u> credits

*Special arrangements may be made for married students.

(10 credits of the above courses in Eco and Soc may be applied to general requirements—see page 19)

Major in Home Economics (General): 65-80 credits

CORE:	58
Electives in four concentrations of Home Ec	7-22
	<u>65-80</u> credits

Major in Home Economics (Merchandising): 85-90 credits

CORE (HEc 353 and 460 not required)	51
HEc 377 Clothing Selection	3
HEc 482 Recent Developments in Textiles	3
HEc 483 Fashion Merchandising	2-6
Bus 120 Introduction to Business	5
Bus 145 Business Mathematics	5
Bus 251 Accounting Principles I, 5 OR	
Bus 280 Computer Concepts in Business, 4	4-5
Bus 310 Principles of Marketing	4
Bus 313 Promotion Management	4
Bus 314 Channel Management	4
	<u>85-90</u> credits

Major in Home Economics (Food and Nutrition) (Pre-dietetic): 89 credits

CORE IS NOT REQUIRED

HEc 153 Food Preparation	5
HEc 253 Advanced Food Preparation	4
HEc 354 Experimental Foods	4
HEc 356 Nutrition	3
HEc 456 Advanced Nutrition	4
HEc 465 Institutional Food Production	5
HEc 466 Institutional Organization and Management	3

HEc 467 Equipment for Institutions	3
HEc 480 Diet Therapy	4
Bio 100 Biological Science	5
Bio 132, 133 Anatomy and Physiology	10
Bio 320 Bacteriology	5
Bus 251 Accounting Principles	5
Bus 328 Personnel Management	4
Bus 428 Materials Management	5
Chm 161 Inorganic Chemistry for Health Sciences	5
Chm 162 Organic Chemistry for Health Sciences	5
Chm 163 Biochemistry for Health Sciences	5
Psy 302 Educational Psychology	5
	<u>89</u> credits

Minor in Home Economics: 15 credits

HEc 101 Introduction to Home Economics	2
HEc 356 Nutrition	3
HEc 377 Clothing Selection	3
Electives in Home Economics from at least two areas	7
	<u>15</u> credits

BACHELOR OF ARTS IN EDUCATION DEGREE

Major in Home Economics (Secondary): 67-80 credits

CORE (See B.A. Degree).	58
HEc 385 Demonstration and Communication Techniques in Home Economics	3
HEc 390 Methods of Teaching Home Economics	3
HEc 493 Nursery School Procedures	3
Electives in Home Economics	0-13
	<u>67-80</u> credits

Minor in Home Economics: 17 credits

HEc 153 Food Preparation	5
HEc 271 Clothing Construction	4
HEc 356 Nutrition	3
HEc 370 Family Growth and Management	5
	<u>17</u> credits

HOME ECONOMICS COURSES

HEC 101 INTRODUCTION TO HOME ECONOMICS (2)

Opportunities in the field. Required of all home economics majors and minors.

HEC 150 FOODS AND NUTRITION FOR MEN (2)

Fundamental principles of food selection and preparation for nutritional adequacy and esthetic appreciation. One three-hour class weekly for men.

HEC 153 FOOD PREPARATION (5)

Food selection and scientific principles involved in preparation. Nutritive values and costs of foods considered.

HEC 168 TEXTILES (3)

The selection, use, and maintenance of textile fabrics based on the study of fibers, yarn, and fabric construction.

HEC 173 NEEDLECRAFT (3)

Embroidery and needlework design applied to clothing and household linens.

HEC 253 ADVANCED FOOD PREPARATION (4) [153 or p]

Study of advanced food preparation, as well as foreign and regional foods and service.

HEC 256 NUTRITION FOR PERSONAL USE (3)

A course designed for teachers, athletes, and other non-majors to aid in evaluating popular opinion on diets and nutrition. The student will be guided in applying good nutrition to his personal needs.

HEC 271 CLOTHING CONSTRUCTION (4)

Basic construction processes applied to the making of clothing. Study of commercial patterns. Basic fitting techniques.

HEC 299 SPECIAL STUDIES IN HOME ECONOMICS (2-5)

Subjects studied vary according to faculty and student interest.

HEC 353 MEAL PLANNING AND SERVICE (4) [153]

Planning, purchasing, preparing and serving nutritious and attractive meals.



HEC 354 EXPERIMENTAL FOODS (4) [Jr, 153] —o/y

An intensive study of foods and food preparation. Individual laboratory problems.

HEC 356 NUTRITION (3) [Jr, or Chm 162]

Fundamental principles of nutrition, a study of the processes of digestive metabolism and the nutritive requirements of the body.

HEC 357 HOUSING (3)

A study of housing based on family needs and interests.

HEC 358 HOME FURNISHINGS (4)

Furnishing the home from the standpoint of comfort, beauty, convenience and economy. Selection and care of textiles, furniture and accessories. (2-credit lab optional).

HEC 359 HOUSEHOLD EQUIPMENT (4)

Selection, care, operation and maintenance of equipment for the home, and criteria for its evaluation.

HEC 361 HOME MANAGEMENT RESIDENCE FOR NON-HOME ECONOMICS MAJORS (3)

An introductory course in home management. Practical experience in the managerial aspects of homemaking; the planning and use of available resources (time, money, skills) for the attainment of individual and family goals.

HEC 362 NUTRITION IN THE ELEMENTARY SCHOOL (3)

A course to provide basic nutritional information and methods of teaching nutrition at the elementary level.

HEC 370 FAMILY DEVELOPMENT (5) [Psy 355]

A study of the growth patterns of the contemporary family and methods of dealing with problems at various stages of the family cycle.

HEC 377 CLOTHING SELECTION (3)

Selection of clothing for men and women. The social, psychological, physical, economic and esthetic aspects of clothing for the individual.

HEC 378 ADVANCED CLOTHING CONSTRUCTION (4) [271 or p]

Development of clothing design from a basic pattern. Construction of one garment.

HEC 379 DRAPING (4) [271 or p]

Principles of draping. The designing and construction of one costume.

HEC 380 CHILDREN'S CLOTHING (3)

Selection and construction of children's clothing from birth to 12 years.

HEC 385 DEMONSTRATION AND COMMUNICATION TECHNIQUES IN HOME ECONOMICS (3)

Emphasis is on demonstrations relating to home economics. In addition, students are given experience in newswriting, radio speaking, writing brochures and handouts, and in television performance.

HEC 390 METHODS OF TEACHING HOME ECONOMICS (3) [Jr; cum g.p.a. 2.00; 385]

An over-view of the homemaking program for junior high and high schools with emphasis on curriculum planning, lesson planning, and innovative teaching techniques.

HEC 453 RECENT TRENDS IN FOOD PREPARATION (3) [153, 353 or p]

Emerging trends in the preparation of foods and methods of utilizing them to the best advantage of the consumer.

HEC 456 ADVANCED NUTRITION (4) [356 & Chm 161, 162, 163] —e/y

A study of research in problems of nutrition and the application of this research to nutritional problems of individuals and groups.

HEC 459 HOME MANAGEMENT AND FINANCE (5) [Eco 201]

Managerial and financial aspects of homemaking; the use of time, energy, money, and other resources to achieve family goals and enrich family life.

HEC 460 HOME MANAGEMENT RESIDENCE (3) [353, 459 &/or p]

Provides the opportunity for actual experience in homemaking and group living. One-half term residence. Advance reservation required. Special arrangements may be made for married students.

HEC 465 INSTITUTIONAL FOOD PRODUCTION (5) [p] —e/y

Practical use of standardized formulas and procedure and use of equipment. Observation and practice in institutional food departments. Menu planning and cost control.

HEC 466 INSTITUTIONAL ORGANIZATION AND MANAGEMENT (3) [p & Bus 251] —o/y

Principles of management as applied to various types of institutions with respect to personnel, financial, and administrative problems.

HEC 467 EQUIPMENT FOR INSTITUTIONS (3) [p] —e/y

Purchase, care, operation of equipment in large institutions and in school lunch programs.

HEC 479 TAILORING (4) [378 or p]

Custom tailoring techniques applied to the construction of women's suits and coats.

HEC 480 DIET THERAPY (4) [356 & Chm 163] —o/y

Nutrition of the individual under normal and pathological conditions, and dietary treatment.

HEC 481 RECENT TRENDS IN NUTRITION (3) [356] —Su

Study and evaluation of recent trends in nutrition.

HEC 482 RECENT DEVELOPMENTS IN TEXTILES (3) [168] —Su

Study and evaluation of recent developments in textiles.

HEC 483 FASHION MERCHANDISING (2-6) [Below]

A seminar and store internship experience for seniors who have selected the Fashion Merchandising option. Prereq: Senior standing and completion of merchandising requirements.

HEC 492 HOME ECONOMICS ON TELEVISION (3)—Su**HEC 493 NURSERY SCHOOL PROCEDURES (3) [370 or p]**

Curriculum planning and organization for the nursery school including the interrelations of home and school. Requires nursery school participation.

HEC 496 ADULT EDUCATION (3)

An overview of adult education with emphasis on planning and organizing classes for the adult learner.

HEC 497 WORKSHOPS, SHORT COURSES**HEC 498 SEMINAR****HEC 499 DIRECTED STUDY IN HOME ECONOMICS (3-5) [Sr or G; P]**

Individual study in field of special interest: (a) clothing, (b) foods, (c) home management, (d) nutrition, (e) textiles, (f) home economics education.

GRADUATE COURSES**HEC 531 ADVANCED TEXTILES (3)—Su**

An advanced study of textiles with emphasis on the newer fabrics and finishes.

HEC 596 COLLEGE TEACHING INTERNSHIP (1-5)

Teaching of a lower division college course under supervision of a regular faculty member. Includes course planning, arranging bibliographical and other instructional aids, conferences with students, experience in classroom instruction, and student and course evaluation.

HEC 599 INDEPENDENT STUDY IN HOME ECONOMICS (1-9) [G; P]

Humanities
See English

INDUSTRIAL EDUCATION AND TECHNOLOGY

Glen O. Fuglsby, Chairman

1971-72 Staff: Bruntlett, Hornfelt; Killin, Martin, VandeBerg.

The Department of Industrial Education and Technology offers three baccalaureate degrees and five

options. The Production, Design, Construction and Graphic Communications options are designed for students who are interested in industrial employment. The Industrial Education option prepares teachers for the industrial arts subjects offered in the public schools.

BACHELOR OF SCIENCE DEGREE

Major in Industrial Technology

Production Option: 46 credits

IT 101 Introduction to Industrial Technology and Production	4
IT 170 Engineering Drafting II	5
IT 260 Wood Products and Processes	4
IT 282 Metalworking Technology	4
IT 336 Production Lab.	5
IT 337 Engineering Graphics and Design	5
IT 300-level elective	7
IT 353 Materials Testing	3
IT 462 Industrial Safety Engineering	4
IT 400-level elective	5

46 credits

Required supporting courses: 71-75 credits

Mth 131, 132 Precalculus Mathematics I, II, OR	
Mth 161, 162, Introduction to Calculus; Techniques of Calculus I	10
Mth 200 Finite Mathematics	5
Eco 201, 202 Introduction to Economics I & II	10
Bus 251, 252 Acctg. Principles I & II (5 each) OR	
Bus 245, 346 Quant. Bus. Analysis I & II (4 each) AND	
Bus 280 Computer Concepts in Business (4)	10-12
Bus 261 Business Law	5
Bus 310 Principles of Marketing	4
Bus 326 Org. Theory and Management	4
Bus 356 Cost Accounting OR	
Eco 321 Labor Economics	5
Bus 428 Materials Management	4
Electives, Business or Economics	7-9
SpC 200 Introduction to Speech Communication	4
Eng 208 Technical Report Writing	3

71-75 credits

Free Electives 24

Design Option: 60 credits

IT 101 Introduction to Industrial Technology and Production	4
IT 170 Engineering Drafting II	5
IT 282 Metalworking Technology	4
IT 337 Engineering Graphics and Design	5
IT 340 Applied Mechanics	3
IT 341 Applied Mechanics	3
IT 345 Technical Illustration	5
IT 300-level elective	8
IT 402 Casting and Machining of Metals	5
IT 405 Machine and Tool Design	5
IT 410 Industrial Design and Experimentation	5
IT 400-level elective	8

60 credits

Required supporting courses: 60 credits

Mth 131, 132 Precalculus Mathematics I, II OR	
Mth 161, 162 Introduction to Calculus, Techniques of Calculus I	10
Phy 131, 132, 133 Introduction to Physics OR	
Phy 231, 232, 233 Advanced Physics (Labs optional) OR	
Chm 151, 152, 153 General Chemistry	9-15
SpC 200 Introduction to Speech Communication	4
Eng 208 Technical Report Writing	3
Science or Mathematics Electives	28-34

60 credits

Free Electives 24

Construction Option: 60 credits

IT 101 Introduction to Industrial Technology and Production	4
IT 170 Engineering Drafting II	5
IT 260 Wood Products and Processes	4
IT 282 Metalworking Technology	4
IT 310 Industrial Finishing and Covering	4
IT 335 Architecture	5
IT 337 Engineering Graphics and Design	5
IT 340 Applied Mechanics	3
IT 341 Applied Mechanics	3
IT 300-level electives	3
IT 401 Construction Materials and Technique	5
IT 420 Construction Estimating	3
IT 462 Industrial Safety Engineering	4
IT 400-level electives	8

60 credits

Required supporting courses: 60 credits

Mth 131, 132 Precalculus Mathematics I and II OR	
Mth 161, 162 Introduction to Calculus; Techniques of Calculus I	10
Phy 131, 132, 133 Introduction to Physics OR	
Phy 231, 232, 233 Advanced Physics (Labs optional) OR	
Chm 151, 152, 153 General Chemistry	9-15
Math or Science Electives	18-24
Bus 261 Business Law	5
Business Elective	5
SpC 200 Introduction to Speech Communication	4
Eng 208 Technical Report Writing	3

60 credits

Free Electives 24

BACHELOR OR ARTS DEGREE

Major in Industrial Technology

Graphic Communication Option: 42-43 credits

IT 170 Engineering Drawing II	5
IT 337 Engineering Graphics	5
IT 345 Technical Illustration	5
IT 365 Graphic Communication	4
IT 468 Offset Lithography	4
IT 469 Offset Color Processes	3

42-43 credits

Free Electives 2-3

Required supporting courses: 30-32 credits

Bus 329 Administrative Management	5
Eng 208 Technical Report Writing	3
Eco 201 Introduction to Economics I	5
Art 300 Studio Drawing	5
SpC 200 Introduction to Speech Communication	4
Math Elective	5

30-32 credits

Free electives 37

Minimum typing skills required for this option. A minor shall be selected with the advice of departmental faculty.

BACHELOR OF ARTS IN EDUCATION DEGREE

Major in Industrial Education: 60 credits

IT 101 Introduction to Industrial Technology and Production	4
IT 170 Engineering Drafting II	5
IT 260 Wood Products and Processes	4
IT 282 Metalworking Technology	4
IT 308 Electricity	4
IT 310 Industrial Finishing and Covering	4
IT 322 Plastic Materials and Processes	4
IT Electives	16
Other Approved Electives (Generally IT courses) . . . . .	.15
	<hr/> 60 credits

Required supporting courses: 8 credits

Eng 208 Technical Report Writing	3
Math elective	5
	<hr/> 8 credits

Students in this program must, in addition to above courses, take IT 390 Methods and Techniques in Technological Education (5) to satisfy Education requirements.

Minor in Industrial Education: 32 credits

IT 101 Introduction to Industrial Technology and Production	4
IT 170 Engineering Drafting II	5
IT 260 Wood Products and Processes	4
IT 282 Metalworking Technology	4
Approved Upper Division Courses . . . . .	.15
	<hr/> 32 credits

INDUSTRIAL EDUCATION AND TECHNOLOGY COURSES**IT 100 ENGINEERING DRAFTING I (3)**

Fundamentals for graphically describing the size and shape of objects. No credit will be given to students who have had more than one semester of high school drafting.

IT 101 INTRODUCTION TO INDUSTRIAL TECHNOLOGY AND PRODUCTION (4)

The study of our technological society—its materials, processes, products, occupations, and organization.

IT 170 ENGINEERING DRAFTING II (5) [Below]

A study of the language used to develop and record ideas and transmit these ideas to those who are to execute the design. Prereq: IT 100 or two semesters of high school drafting.

IT 208 ELECTRICITY (3)

AC and DC electrical theory.

IT 260 WOOD PRODUCTS AND PROCESSES (4)

Introduction to processing of wood materials and use of basic industrial tools and machines. Custom design and fabrication with wood materials and research on industrial technology in processing.

IT 282 METALS TECHNOLOGY (4)

Laboratory and related technical study in oxyacetylene welding, electric arc welding, sheet metal drafting and fabrication, forging and heat treating, lathe turning and cold shaping processes.

IT 299 SPECIAL STUDIES IN INDUSTRIAL EDUCATION AND TECHNOLOGY**IT 308 ELECTRICITY (4) [208 or eq. advised]**

Operations and characteristics of electrical and electronic systems and devices.

IT 310 INDUSTRIAL FINISHING AND COVERING (4)

Composition, properties, and performance of industrial finishes; metallic and organic coatings; management and theory of colors, and new industrial finishing processes.

IT 322 PLASTIC MATERIALS AND PROCESSES (4)

Mechanical and physical properties of materials used in plastic manufacturing with the use of design and forming processes.

IT 335 ARCHITECTURE (5) [170]

Design, layout, and development of residential dwellings and large structures.

IT 337 ENGINEERING GRAPHICS AND DESIGN (5) [170]

Theory and practice in descriptive geometry and the graphic representation of data including nomography.

IT 340 APPLIED MECHANICS (3) [Phy 131, Mth 132]

A study of the principles of static forces.

IT 341 APPLIED MECHANICS (3) [340]

A study of the strength of materials.

IT 344 POWER (5)

The theory and evaluation of sources of power (such as gravity, human, chemical), multipliers of power (machines) and power converters (prime movers).

IT 345 TECHNICAL ILLUSTRATION (5) [170]

Drafting, rendering, and photographing of illustrations for advertising, catalogs, and service manuals.

IT 350 DIVERSIFIED CRAFTS FOR RECREATION AND THERAPY (5)

Constructional activities involving the use of wood, metal, leather, plastics, and lapidary crafts.

IT 353 MATERIALS TESTING (3)

Measuring equipment, physical dimensions, hardness, compression, shear; destructive and non-destructive tests.

IT 355 ELECTRONIC DRAFTING (4)

Practices and principles of schematic development as applied to diagrammatic drafting.

IT 365 GRAPHIC COMMUNICATION (4)

Printing techniques in advertising, publishing, and visual communication.

IT 390 METHODS AND TECHNIQUES IN TECHNOLOGICAL EDUCATION (5)

The planning of technical facilities methods, techniques, and instructional media in teaching industrial and technical subjects.

IT 401 CONSTRUCTION MATERIALS AND TECHNIQUES (5) [335, 340 or p]

Mechanical and physical properties of the basic materials used in architectural construction. Sources, manufacturing processes, and fabrication of these materials.

IT 402 CASTING AND MACHINING OF METALS (5) [282 or p]

Making of patterns to illustrate the principle of draft, shrinkage, finish, warp, core prints. Foundry fundamentals, mechanics, and methods used by foundries in the manufacture of castings. Emphasis is placed on casting design, metal flow, solidification and machine tool operations.

IT 405 MACHINE AND TOOL DESIGN (5) [170]

Application of the principles of mechanics to problems of design of mechanisms for specific functions.

IT 406 WELDING AND METALLURGY (5) [282 or p]

Theory and practice of welding ferrous and non-ferrous metals. Practice in oxyacetylene, electric arc, and inert gas processes. The properties of metals and alloys as related to structure; constitutional diagrams, equilibrant and non-equilibrant conditions.

IT 408 ELECTRONICS (5) [308 or p]

Introduction to electronics including vacuum tube and solidstate devices and circuits.

IT 409 INDUSTRIAL ELECTRONICS AND COMMUNICATIONS (5) [308, 408 or p]

Study of basic principles, concepts, and techniques in communication and industrial electronics.

IT 410 INDUSTRIAL DESIGN AND EXPERIMENTATION (5) [170 or p]

Research design problems with emphasis on experimentation with a variety of materials and processes.

IT 420 CONSTRUCTION ESTIMATING (3) [401 or p]

A study of the basic construction estimating process, including analysis of working drawings; specifications and codes; quantity takeoffs and labor-time estimates; material and labor costs and assembly of the general contractor bid.

IT 422 PLASTIC TOOLING AND MANUFACTURING (3)

Materials and techniques involving plastic tooling and manufacturing. Emphasis will also be placed on mass production, plant management, quality control, safety and pollution.

IT 436 PRODUCTION LABORATORY (5)

Application of techniques of production management including plant layout, scheduling, cost accounting, assembly, inspection, and quality control.

IT 462 INDUSTRIAL SAFETY ENGINEERING (4)

Fundamentals of safety; classification of hazards; accident statistics; organization problems; safety codes; machine guarding; mechanical, electrical, and chemical hazards; ventilation, respiratory and safety devices.

IT 465 TECHNICAL STUDIES WORKSHOP (3-5)

IT 468 OFFSET LITHOGRAPHY (4)

Basic layout and design, camera work, plate making, press operation, and multiple color layout.

IT 469 OFFSET COLOR PROCESSES (3)

Color theory involved in line and halftone copy separation with filters, contact screens, quality control, and mass production.

IT 470 WOOD TECHNOLOGY (4)

A study of the characteristics of wood with implications for industrial utilization.

IT 475 CAREER EDUCATION FOR ELEMENTARY TEACHERS (5)

An action-oriented approach to the study of the careers in the world of work. A variety of materials and processes applicable to the elementary school children will be included.

IT 480 ELECTROMECHANICS (5)

Principles of operation and maintenance considerations of electromechanical equipment.

IT 497 WORKSHOPS, SHORT COURSES, OR CONFERENCES

IT 498 SEMINAR

IT 499 DIRECTED STUDY IN INDUSTRIAL EDUCATION AND TECHNOLOGY (3-5) [P]

Designed for students who desire to pursue a subject further than was possible in regular courses.

GRADUATE COURSES

See Graduate Bulletin for detailed description of graduate program in industrial education.

IT 531 ANALYSIS AND PROGRAMMING TECHNIQUES FOR INDUSTRIAL EDUCATION AND TECHNOLOGY (5)

The identification and classification of operational and informational units. The course will emphasize linear methods in programming course materials.

IT 539 SPECIAL STUDIES IN INDUSTRIAL TECHNOLOGY

IT 596 COLLEGE TEACHING INTERNSHIP (0-5)

Teaching of a lower division college course under supervision of a regular faculty member. Includes course planning, arranging bibliographical and other instructional aids, conferences with students, experience in classroom instruction, and student and course evaluation.

IT 599 INDEPENDENT STUDY IN INDUSTRIAL EDUCATION TECHNOLOGY (1-6) [P]

Course may be repeated within the six credits allowed to fulfill the student's goals and needs in specific areas.

IT 600 THESIS (6-9)

Journalism
See English

Library Science
See Education

Management
See Business

MATHEMATICS

Also Computer Science

Hugh D. Sullivan, Chairman

1971-72 Staff: Dalla, Daugharty, Dors, Engquist, Hall, Hamel, Hanes, Horner, Keefer, McKeehan, Prekeges, Robinson, Sawyer, Simmons, Sims, N. Stone, W. Stone, Swan, Thompson.

All Mathematics courses except Mth 104, 390, 391, 392, 393 may be applied to general college requirements in Science. See page 19)

Major in Mathematics: 60 credits

Mth 161 Introduction to Calculus	5
Mth 162, 163 Techniques of Calculus I, II	10
Mth 331 Linear Algebra I	4
Mth 361 Basic Analysis	4
300-400 level courses approved by the Mathematics Department	37
	<hr/> 60 credits

Suggested Program for a Student Going into Graduate Study: 55 credits

Mth 161 Introduction to Calculus	5
Mth 162, 163 Techniques of Calculus I, II	10
Mth 331 Linear Algebra	4
Mth 361 Basic Analysis	4
Mth 371 Theory of Numbers	4
Mth 431, 432, 433 Introduction to Modern Algebra	12
Mth 461, 462 Introduction to Real Analysis	8
Mth 475 Ordinary Differential Equations	4
Mth 481 Functions of a Complex Variable	4
	<hr/> 55 credits

Suggested Program in Computer Science: 56 credits

Mth 161 Introduction to Calculus	5
Mth 162, 163 Techniques of Calculus I, II	10
Mth 331, 402 Linear Algebra I, II	8
Mth 361 Basic Analysis	4
Mth 431, 432 Introduction to Modern Algebra	8
Mth 471, 472 Topics in Applied Analysis	8
Mth 475 Ordinary Differential Equations	4
CS 230 Introduction to Computer Programming	3
CS 330 Assembly Language Programming	3
CS 420 Finite State Automata	3
	<hr/> 56 credits

Required supporting courses for all the above:
A core of 15 credits, outside the field of mathematics,
with the approval of the Mathematics Department.

Minor in Mathematics: 15 credits

Mth 161 Introduction to Calculus	5
Mth 162, 163 Techniques of Calculus I, II	10
	<hr/> 15 credits

Joint Major in Economics and Mathematics: 71-78 credits
See Economics Department section for details.

BACHELOR OF ARTS IN EDUCATION DEGREE

Major in Mathematics (Secondary): 60 credits

Mth 161 Introduction to Calculus	5
Mth 162, 163 Techniques of Calculus I, II	10
Mth 331 Linear Algebra I	4
Mth 361 Basic Analysis	4
Mth 392 Methods of Teaching Algebra	3
Mth 393 Methods of Teaching Geometry	3
300-400 level courses approved by the Mathematics Department	31
	<hr/> 60 credits

Minor in Mathematics (Secondary): 15 credits

Mth 161 Introduction to Calculus	5
Mth 162, 163 Techniques of Calculus I, II	10
	<hr/> 15 credits

Major in Mathematics (Elementary): 31 credits

Mth 300, 301 Structure of Elementary Mathematics	10
Mth 311 Intuitive Algebra for the Elementary Teacher	5

Mth 312 Intuitive Geometry for the Elementary Teacher	5
Mth 390 Methods of Teaching Primary School Mathematics OR	
Mth 391 Methods of Teaching Middle School Mathematics	3
Mth 411 The Development of the Number System	4
Mth 412 Mathematics—History, Logic, and Structure	4
	31 credits

Minor in Mathematics (Elementary): 15 credits
 15 hours chosen from Major in Mathematics (Elementary courses). 15 credits

MATHEMATICS COURSES

MTH 100 SURVEY OF CONTEMPORARY MATHEMATICS (5)

An elective course for the liberal arts student who wishes insight into mathematics and the place of mathematics in today's world.

MTH 104 INTERMEDIATE ALGEBRA (5) [Below]

Fundamentals of algebra. Prereq: For freshman students who have had less than three semesters of high school algebra; not open to other students.

MTH 131 PRECALCULUS MATHEMATICS I (5) [Below]

Functions, graphing, polynomials, rational functions and mathematical induction applied to the field of real numbers. Prereq: Three semesters of high school algebra or the equivalent.

MTH 132 PRECALCULUS MATHEMATICS II (5) [Below]

Trigonometric and inverse trigonometric functions, identities, complex numbers, and polynomials over the field of complex numbers. Prereq: Four semesters of high school algebra or the equivalent.

MTH 160 ELEMENTARY FUNCTIONS (5) [Below]

A study of algebraic and trigonometric functions in modern mathematical language for students desiring more preparation before entering the calculus. Prereq: Four semesters of high school algebra and one semester of high school trigonometry or the equivalent.

MTH 161 INTRODUCTION TO CALCULUS (5) [Below]

An introduction to limits, differentiation, antidifferentiation, integration, and application of these concepts. Prereq: Four semesters of high school algebra and one semester of high school trigonometry or the equivalent.

MTH 162 TECHNIQUES OF CALCULUS I (5) [161]

An extension of the techniques of differentiation and integration from Mth 161 and to include a study of sequences, series, and some analytic geometry.

MTH 163 TECHNIQUES OF CALCULUS II (5) [162]

A translation of material from Mth 161 into the setting of functions of several variables.

MTH 200 FINITE MATHEMATICS (5) [104 or eq.]

An introduction to the mathematical systems encountered in the study of the behavioral sciences. A study of set theory, logic, probability, matrices, game theory.

MTH 297 WORKSHOPS, SHORT COURSES, CONFERENCES (3-5) [P]

MTH 298 SEMINAR

MTH 299 SPECIAL STUDIES IN MATHEMATICS (Arr) [P]

Subjects studied vary according to faculty and student interest.

MTH 300, 301 STRUCTURE OF ELEMENTARY MATHEMATICS (5 each) [P & So; For 301:300]

The fundamental nature of the real number system and its subsystems. Designed for future and/or practicing elementary teachers.

MTH 311 INTUITIVE ALGEBRA FOR THE ELEMENTARY TEACHER (5) [301 or p]

A discussion of the basic concepts of algebra from a modern viewpoint.

MTH 312 INTUITIVE GEOMETRY FOR THE ELEMENTARY TEACHER (5) [311 or p, see note]

A discussion of the basic concepts of geometry from the modern viewpoint. Note: This course is open to those planning to teach or who are teaching at the junior high level.

MTH 331 LINEAR ALGEBRA I (4) [161]

Linear equations and matrices; vector spaces; linear transformations; polynomials, determinants; theory of linear operators.

MTH 353 PROBABILITY AND STATISTICS (5) [131]

Elementary theory of probability, empirical and theoretical frequency distributions, random sampling theory, testing and hypotheses, regression and correlation, and design experiments.

MTH 356 SYMBOLIC LOGIC (5) [Phl 252 or p]

(Same as Phl 356) Rigorous development of the propositional and predicate calculi; some concepts in semantics; important metatheorems for the calculi.

MTH 361 BASIC ANALYSIS (4) [161]

Entails a study of the real numbers and other metric spaces with careful treatment of the concepts of mappings, sequences, limits, and continuity.

MTH 371 THEORY OF NUMBERS (4) [163]

Divisibility properties of integers; prime numbers; congruences; number-theoretic functions.

MTH 390 METHODS OF TEACHING ELEMENTARY SCHOOL MATHEMATICS (3) [300 or p]

Designed to assist in the presentation of modern material in the primary school.

MTH 391 METHODS OF TEACHING MIDDLE SCHOOL MATHEMATICS (3) [301 or p]

Designed to assist in the presentation of modern material in grades 5 through 8.

MTH 392 METHODS OF TEACHING ALGEBRA (3) [Min. or p]

Designed to assist in the presentation of algebra in the junior and senior high school.

MTH 393 METHODS OF TEACHING GEOMETRY (3) [Min. or p]

Designed to assist in the presentation of geometry, trigonometry and other senior high school mathematics.

MTH 402 LINEAR ALGEBRA II (4) [331]

A study of advanced topics and applications of Linear Algebra.

MTH 411 DEVELOPMENT OF THE NUMBER SYSTEM (4) [311 or p. See note]

The development of the number system from Peano's Postulates, ordered pair development of the rationals, group theory, field structure. Note: Mth 312 is recommended. Open to those who have a mathematics minor.

MTH 412 MATHEMATICS—HISTORY, LOGIC AND STRUCTURE (4) [312 or p. See note]

The structure and logic of mathematics and mathematical systems and the historical development of this structure. Note: Open to those who have a mathematics minor.

MTH 431, 432, 433 INTRODUCTION TO MODERN ALGEBRA (4 each) [163]

Sets, relations, mappings; introduction to the theory of groups, rings, fields, Euclidean domains, polynomial rings, vector spaces, and algebras.

MTH 451 INTRODUCTION TO TOPOLOGY (4) [361]

Discusses sets, topological spaces, homomorphisms, separation axioms, connectedness, compactness, countability axioms, and metric spaces.

MTH 452 INTRODUCTION TO TOPOLOGY (4) [451]

Examines generalized metric spaces such as uniform spaces. Moore spaces, developable spaces, semi-metric spaces, and Frechet L-spaces. Discusses metrization, paracompactness, and completeness.

MTH 453 INTRODUCTION TO ALGEBRAIC TOPOLOGY (4) [452]

Homotopy theory, the fundamental group and higher order homotopy groups, simplicial homology, theory, barycentric subdivision, the Excision Theorem, and the exact homology sequence.

MTH 454 FOUNDATIONS OF GEOMETRY (4) [163]

The axiomatic treatment of the foundations of Euclidean Geometry, a discussion of projective geometry, and an introduction to non-Euclidean geometries.

MTH 455 PROJECTIVE PLANES (4) [331, 431, 454]

Collineations and coordinates, finite planes, the Bruck-Ryser Theorem, Hall, Moufang and Desarguesian Planes.

MTH 457, 458 PROBABILITY THEORY AND MATHEMATICAL STATISTICS (4 each) [163]

Mathematical theory of probability, random variables, characteristic functions, probability distributions, limit theorems, statistical inference.

MTH 461 INTRODUCTION TO REAL ANALYSIS (4) [163, 361]

Examines critically some of the main concepts of analysis (e.g., convergence, continuity, differentiation, and Riemann-Stieljes integration).

MTH 462 INTRODUCTION TO REAL ANALYSIS (4) [461]

Includes a study of sequences and series of functions, functions of several variables, and linear transformations.

MTH 471, 472 473 TOPICS IN APPLIED ANALYSIS (4 each) [163]

Selected topics in applied mathematics such as partial differential equations, Fourier Series, Laplace transforms, boundary value problems, theory of distributions, etc.

MTH 475, 476, 477 ORDINARY DIFFERENTIAL EQUATIONS (4 each) [163]

The solution of ordinary differential equations; singular solutions. Application to physics and engineering.

MTH 478, 479, 480 PARTIAL DIFFERENTIAL EQUATIONS (4 each) [475]

Linear partial differential equations and boundary-value problems in physics and engineering. Emphasis on the Laplace and Fourier transform methods of solution.

MTH 481 FUNCTIONS OF A COMPLEX VARIABLE (4) [475]

Introduction to the study of analytic functions, conformal mapping; integration in the complex plane with application to physics and engineering.

MTH 484 HISTORY OF MATHEMATICS (4) [312, 161 or p]

A historical development of mathematical ideas and methods. Emphasis is on the individuals involved and the development of intellectual activity called mathematics, and the ebb and flow of mathematics in history.

MTH 497 WORKSHOPS, SHORT COURSES, CONFERENCES (1-5)

Selected topics to be arranged in consultation with the requesting organization.

MTH 498 SEMINAR**MTH 499 DIRECTED STUDY IN MATHEMATICS (Arr) [P]****GRADUATE COURSES****MTH 501 INTRODUCTION TO THE FOUNDATIONS OF MATHEMATICS (4)**

A study of the nature of geometric and algebraic systems. The lectures are concerned with sets, symbolic logic, Boolean algebra, non-Euclidean geometry, the real number system, algebraic structure and philosophy. Recommended for all planning to teach mathematics.

MTH 531 MODERN ABSTRACT ALGEBRA (4) [431]

This course is a study of the theory of groups, factor groups, composition series, isomorphism theorems, solvable groups, direct sums, Sylow theorems, and p -groups.

MTH 532 MODERN ABSTRACT ALGEBRA (4) [432 or p]

This course is a study of the theory of rings, and includes ideals, homomorphisms, direct sums of rings, prime rings and modules.

MTH 533 MODERN ABSTRACT ALGEBRA (4) [433 or p]

This course is a study of the theory of fields, prime fields, field extensions, algebraic and transcendental extensions, and Galois theory.

MTH 541 ADVANCED THEORY OF NUMBERS (4)

The functions of Number Theory, quadratic reciprocity, diophantine equations, algebraic number fields, algebraic integers, quadratic fields, unique factorization.

MTH 542 TOPICS FROM ALGEBRAIC NUMBER THEORY (4) [541]

Quadratic forms, p -adic numbers, representation of rational numbers by decomposable forms, Fermat's conjecture, the work of Kummer, ideal theory.

MTH 543 TOPICS FROM ANALYTIC THEORY (4) [542]

Bernoulli numbers, Gaussian sums, distribution of primes, zeta function, sieve methods.

MTH 551 GENERAL TOPOLOGY (4) [361 or p]

Examines properties of abstract topological spaces and mappings, including compactness and connectedness, conditions for metrizability.

MTH 552 GENERAL TOPOLOGY (4) [551]

Discusses uniformities and proximities, nets and filters, compactification, completeness, function spaces, quotient spaces, and related concepts.

MTH 553 TOPICS FROM TOPOLOGY (4) [552 or p]

Selected topics, depending on the interest of the class and instructor, chosen from such areas as point-set topology, linear topological spaces, homotopy theory, homology theory, topological groups and topological dynamics.

MTH 561 REAL ANALYSIS (4) [462 or p]

Discusses the concepts of general measure theory and general integration theory.

MTH 562 REAL ANALYSIS (4) [561]

Examines product measure, Fubini's theorem, and formal Fourier series.

MTH 563 TOPICS FROM ANALYSIS (4) [562]

Selected topics depending on the interest of the class and instructor. (Possible topics include: Banach spaces, locally convex spaces, probability, applications to complex analysis, etc.)

MTH 581 COMPLEX ANALYSIS (4) [461, 481]

This is the first of a sequence of courses that integrates the theory of analytic functions with modern analysis. This course will include the following: Number systems; the complex plane, functions, powers, and roots; holomorphic functions; power series; some elementary functions; complex integration; representation theorems:

MTH 582 COMPLEX ANALYSIS (4) [581 or p]

A continuation of Mth 581. This course will include a careful study of the calculus of residues; analytic continuation; singularities and representation of analytic functions; algebraic functions.

MTH 583 COMPLEX ANALYSIS (4) [582 or p]

A continuation of Mth 582. This course will stress the study of conformal mapping; the Schwarz-Christoffel transformation; applications of conformal mapping to the solution of boundary value problems; entire and meromorphic functions; functions holomorphic in a half-plane.

MTH 596 COLLEGE TEACHING INTERNSHIP (1-5)**MTH 599 INDEPENDENT STUDY IN MATHEMATICS (1-6) [P]****MTH 600 THESIS (3-9)**

A research thesis under the direction of a graduate committee.

COMPUTER SCIENCE COURSES**CS 230 INTRODUCTION TO COMPUTER PROGRAMMING (3)**

An introduction to basic Computer Programming with an emphasis on the Fortran Language. Students will use the EWSC computer.

CS 330 ASSEMBLY LANGUAGE PROGRAMMING (3) [230]

Machine Language/Assembly Language Programming. The student will write programs for the EWSC computer system.

CS 420 FINITE STATE AUTOMATA (3) [p]

A study of sequential machines—their algebraic and structural properties.

MILITARY SCIENCE

Col. Darrell B. Irvin, Chairman (Wtr. '72)

1971-72 Staff: Hess, Pribnow (Ret. January 1972), Sims, Talkington, Wong.

General

The Department of Military Science is an instructional department of Eastern Washington State College. The Department consists of a unit in the Senior Division Army Reserve Officers' Training Corps offering instruction in a General Military Science Program. Both a major and a minor are offered by the Department. A 3-hour course (MSc 105), Introduction to Military Science, is offered for those students who desire to broaden their understanding of the military role in our national life, or for those interested in determining "what ROTC is all about" before deciding whether or not to seek a commission as an officer in the U.S. Army.

Purposes of the ROTC

To select and prepare male students for service as commissioned officers in the United States Army; to assist the student in preparing for citizenship responsibility by promoting a better understanding of the policies and problems of national defense; to offer the student a chance to develop his leadership ability; and to provide an opportunity for the student to enter the Army as a career officer.

Program of Instruction

The ROTC program of instruction is divided into two phases: the Basic Course, MSc I and MSc II, and the advanced Course, MSc III and MSc IV.

Basic Course: 9 credits

MSc 105 and 106, Military Science I	4
MSc 204, Military Science II	5
	<u>9</u> credits

The Basic Course is designed to provide an introduction to Military Science and leadership. Students are required to attend class only one quarter each school year to meet the MS I and the MS II requirement. A deferment from induction is authorized each year.

Advanced Course: 19 credits

MSc 301, 302, 303, and 304, Military Science III	12
MSc 401, 402, and 403, Military Science IV	7
	<u>19</u> credits

The Advanced Course is for selected students who are interested in U.S. Army regular or reserve commissions. Students successfully completing the Advanced Course are commissioned upon graduation as second lieutenants in the U.S. Army Reserve. Between the junior and senior year the student must attend a six week summer camp for which he receives credit by registering for MSc 304 during the Fall Quarter following summer camp.

During the 20 months a student is enrolled in the Advanced Course he receives a monetary allowance of \$100 per month. For the summer camp period the student receives pay of approximately \$400 plus travel allowance, food, clothing, and quarters.

Advanced Course students who demonstrate outstanding ability may be selected as Distinguished Military Students and may apply for a commission in the Regular Army.

Advanced Course Contract

Students who apply and are selected for the Advanced Course agree in writing to complete Military Science III and Military Science IV, to attend the prescribed summer camp, and to accept a commission if tendered. They also agree to enter upon a period of active duty of up to two years and remain a commissioned member of a reserve or National Guard unit the same length of time required of an inductee. Students who sign this contract will be granted deferments from induction, plus pay and allowances as specified above.

Uniforms and Textbooks

The cadet uniform and necessary ROTC textbooks are issued without cost to students of Military Science. The uniform is worn

during Leadership Laboratory, parades and ceremonies, but it is not required for regular academic classes.

ROTC Activity Fund Fee

A student activity fee of approximately \$4.00 per academic year is charged each cadet in order to defray costs incurred throughout the year for awards, special equipment required within the Corps of Cadets, and the ticket to the annual Military Ball. This fund is administered by the Cadet Brigade Commander and his staff under the guidance of an ROTC faculty member.

ROTC Achievement Day

The last Friday before Memorial Day is designated as ROTC Achievement Day. Cadets and Sponsors are excused from other college classes for two periods on this day to participate in the program.

ROTC Credits by Application

1. GENERAL: The following procedures and policies will govern the awarding of academic credit to students at EWSC not actively participating in the ROTC program.
2. POLICY: Eastern students involved in any program, such as the U.S. Marine Corps Platoon Leaders course, leading to a commission upon completing requirements for a baccalaureate degree, may apply for ROTC summer camp credit. ROTC summer camp credit (three for Basic Camp or three for Advanced Camp) will be awarded to the student with a letter grade of "S" upon presentation of proof by the student that he has successfully completed a course of instruction comparable to that offered at one or both of the ROTC camps. To be eligible for award of these credits, the applying student must be in a program leading toward a commission upon graduation from college.
3. PROCEDURES: Students indicating a desire to obtain summer camp credit for comparable instruction received in a commissioning program must accomplish the following:
 - a. Obtain a military transcript of the course of instruction completed.
 - b. Submit the transcript to the Director of Admissions requesting that it be forwarded to Professor of Military Science for evaluation. Upon receipt of the transcript from the Director of Admissions, this office will evaluate the transcript relative to the program of instruction offered at the ROTC Basic or Advanced Camp and provide the Director with a recommendation as to the number of credits to be awarded. Normally only three credits will be recommended for courses comparable to either the Basic or Advanced Camps.
 - c. Credit will be awarded only when it is clear that the student will be granted a degree from EWSC, all academic requirements have been completed, and application for graduation has been filed. Credits will be used to count for the 180 credit total only.

BACHELOR OF ARTS DEGREE

The major in Military Science is designed to give the student interested in a military career a broad background in various academic areas. The Military Science Department strongly suggests that students majoring in Military Science also select a second major which can be completed in four years in conjunction with the Military Science Major.

Major in Military Science: 53 credits

MSc 105, 106, 204, 301, 302, 303, 304, 401, 402, 403	28
PSc 102 American Politics	5
Psy 201 Scientific Principles of Psychology	5
SpC 200 Introduction to Speech Communication	3
Phl 251 Introduction to Philosophy	5
Bus 326 Organization Theory and Management	4
Cgr 459 Political Geography	3
	<u>53</u> credits

Note: MSc 205, Basic Summer Camp, may be substituted for MSc 105, 106 and 204 in the requirement for the Major in Military Science.

Required supporting courses: 36 credits

Supporting courses totaling at least 36 credits will be selected from a specified list of courses from seven disciplines as deter-

mined by the student and his adviser to meet the student's needs and interests.

Minor in Military Science: 19 credits

MSc 301, 302, 303, 304, Military Science III. . . . 12
 MSc 401, 402, 403, Military Science IV 7
 19 credits

Degree and Minor Requirements

In the Bachelor of Arts Degree program credits earned in the Advanced Course constitute an academic minor in Military Science.

MILITARY SCIENCE COURSES

MSc 105 INTRODUCTION TO MILITARY SCIENCE (3)

An introductory course to develop an understanding of the mission, organization, and function of the Armed Services; to consider the role of the military in relation to national objectives and security; and to study the evolution of warfare and weapons. Students attend 3 hours of classroom instruction per week.

MSc 106 INTRODUCTION TO LEADERSHIP (1) [105 or conc. en.]

One hour of classroom work and one hour of practical application per week designed to provide experience in leadership roles. The cadet uniform is worn one hour per week.

MSc 125 SMALL BORE RIFLE MARKSMANSHIP (1) [Open to any student]

To provide a basic understanding of the principles and techniques of smallbore rifle marksmanship and safety.

MSc 204 Military Science II (5) [105, 106 or eq.]

The study of land navigation to include practical application of the principles and techniques used to identify natural and man-made features on military maps; history of the American arms from colonial times to the present; identification and evaluation of the factors influencing changes in military tactics, organization and weaponry; recognition and evaluation of the impact of political, economic, and social factors on the major armed conflicts in this country's history; practical experience in communication and leadership roles.

MSc 205 Basic Summer Camp, Six Weeks (3)

This course is designed to qualify students for the Advanced ROTC program who have not attended on-campus instruction in the Basic ROTC program. Students desiring consideration for this course should contact the ROTC Department not later than 1 March of the year of desired attendance.

MSc 301, 302, 303 Military Science III (3 each) [204 or eq.]

The study of principles of leadership and factors affecting human behavior; introduction to the process of problem solving, decision making, and management; application of leadership and management techniques; and introduction to the principles of instructional technique and methodology. Required for commissioning.

MSc 304 MILITARY SCIENCE III (Summer Camp (3) [301, 302, 303]

Principles of leadership and management as applied to small unit administrative and tactical problems. Six-week camp period at Fort Lewis, Washington. Required for commissioning.

MSc 401, 403 MILITARY SCIENCE IV (3 each) [301, 302, 303, 304]

A study of the interfunctional relationships between the commander and his staff; management of the military team; detailed exploration of operations, intelligence, logistical, and personnel staff officer responsibilities; examination of the Uniform Code of Military System; seminar on world affairs and their military implications; obligations and responsibilities of an officer; and experience in leadership roles. Required for commissioning.

MSc 402 MILITARY SCIENCE IV (1) [301, 302, 303, 304]

Seminar and experience in leadership roles. Required for commissioning.

MSc 405 ROTC FLIGHT TRAINING (5) [Below]

Introduction to the principles of flying in light fixed-wing aircraft. Instruction includes principles of navigation, radio procedure, meteorology, flight planning, flight regulations, and flight instruction. All instruction is given by an FAA-approved

civilian flying school. Each student receives 35 hours of ground instruction and 36½ hours of flying instruction. Prereq: MSc III; Class I flight physical, Army aviation aptitude tests; and approval of the Professor of Military Science.

MUSIC

George W. Lotzenhiser, Chairman

1971-72 Staff: Albert, Andrews, Balabanis, Biehl, Coffee, Duenow, Edmonds, Exline, Farris, Garcia, Harper, Hough, Jones, Manzo, Maxson, Mutchnik, Rivers, Rostkoski, Smith, Westrum, Zyskowski.

The Department of Music of Eastern Washington State College is a member of the National Association of Schools of Music.

The Department of Music provides a Master of Arts degree with concentrations in Performance (instrumental-vocal), Music Theory, Music Composition, Music Education, and the Master of Education Degree in Music.

Music Ensembles

Students seeking a major in Music will participate in a major music ensemble each quarter of their college career (except the quarter education students are doing their student teaching). Major Music ensembles, course numbers and credits are Mus 331 Band (2); Mus 332 Orchestra (2), and Mus 333 Symphonic Choir (2). Other ensembles are listed under Mus 334 (instrumental) or Mus 335 (vocal). Instrumental groups are brass, woodwind, string, piano, percussion ensembles and stage band. Vocal groups are Collegians, Madrigal Singers, vocal ensemble, opera workshop and male chorus.

Instructions on Instruments or Voice

Music 320—All students pursuing a major in music will be expected to study their chosen instrument or voice each quarter in residence except for that quarter music education majors are doing student teaching.

All students without previous credit in applied music at the college level should register for this number. Students registered for courses with multiple sections (piano and voice) should contact the instructor prior to pre-registration for correct assignment. This course may be repeated until the student reaches the proficiency level necessary for advanced instruction. Prereq: Music 200 or permission of the instructor.

Music 330, 430, 530—Advanced instruction which requires proficiency shown in Music 320 or in an audition by the instructor.

Music instruction is offered on the following instruments:

Baritone	Oboe	Trumpet
Bassoon	Organ	Tuba
Clarinet	Percussion	Viola
Flute	Piano	Violin
French Horn	Saxophone	Violoncello
Harp	String Bass	Voice
	Trombone	

Credits ranging from 1 to 4 are granted successful students in applied music instruction.

Students registered for individual instruction in applied music may be required to attend lessons of another student or special group. Recital appearances, arranged by the instructor, will be required of all students studying applied music. Permission of the instructor must be obtained prior to a public appearance by a student. Recital attendance may be required of students in applied music.

Lessons in individual applied music missed by a student may not be made up unless the instructor is notified 24 hours before the regularly scheduled time of the lesson. Lessons missed by the instructor will be made up within the quarter. Lessons falling on a legal holiday will not be made up.

BACHELOR OF ARTS DEGREE

Students planning to qualify for the Bachelor of Arts degree with a major in Music will take the Core and one of the options.

Major in Music: 85-86 credits

CORE (ALL OPTIONS): 32 credits

Mus 102, 103 Music Theory I	8
Mus 201, 202, 203 Music Theory II	12
Sophomore Comprehensive Examination.	0
Mus 301 Form and Analysis	3
Mus 350, 351, 352 Music History	9
	<u>32</u> credits

Option 1: Applied Music (Band or Orchestral Instruments): 53 credits

Major Applied Instrument (330 level)	12
Major Applied Instrument (430 level)	10
Instrumental Pedagogy	3
Mus 470 Senior Recital	2
Piano Proficiency	0
Electives in Music	2
Major Music Ensemble.	24
	<u>53</u> credits

Option 2: Applied Music (Piano): 54 credits

Mus 330 Applied Piano	12
Mus 430 Applied Piano	10
Mus 460 Piano Pedagogy	3
Mus 467 Accompanying	3
Mus 470 Senior Recital	2
Major Music Ensemble	24
	<u>54</u> credits

Option 3: Applied Music (Voice): 53 credits

Mus 330 Applied Voice	12
Mus 430 Applied Voice	10
Mus 461 Vocal Pedagogy	3
Mus 470 Senior Recital	2
Major Music Ensemble.	24
Piano Proficiency	0
Electives in Music	2
	<u>53</u> credits

Option 4: Music History and Literature: 53 credits

Mus 330 Applied Instrument (Proficiency required)	12
Music History and Literature (400 level).	12
Mus 499 Directed Study (research project)	5
Major Music Ensemble	24
Piano Proficiency	0
	<u>53</u> credits

Option 5: Music Theory-Composition: 53 credits

Mus 305 Canon and Fugue	3
Mus 307 Instrumentation	3
Mus 330 Applied Instrument (Proficiency required).	12
Mus 402 Counterpoint	3
Mus 405 Orchestration	3
Mus 409 Composition	5
Major Music Ensemble.	24
	<u>53</u> credits

Required Supporting Course: (All options)

Hum 212 Music in the Humanities.	5
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Minor in Music: 15 credits

Mus 101 Music Theory I, (4) OR	
Mus 200 Introduction to Music (3)	3-4
Hum 212 Music in the Humanities	5
Mus 457 Music of the Americas OR	
other music history	3
Electives in Music	3-4
	<u>15</u> credits

BACHELOR OF ARTS IN EDUCATION DEGREE

Major in Music (Secondary): 85 credits

CORE (See B.A. Degree): 32 credits

Concentration: 53 credits

Mus 307 Instrumentation	3
Mus 373 Choral Techniques.	2
Mus 381 Advanced Piano Skills (Proficiency required)	1
Mus 410 Conducting	3
Mus 444 Music in the Secondary School	5
Six approved credits from the following:	
Mus 382 Stringed Instrument Techniques	2
Mus 383 Woodwind Instrument Techniques	2
Mus 384 Brass Instrument Techniques	2
Mus 385 Percussion Instrument Techniques	1
Major Music Ensemble.	22
Major Applied Instrument (Proficiency required).	11
	<u>53</u> credits

Required Supporting Course:

Hum 212 Music in the Humanities.	5
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Major in Music (Elementary): 52 credits

CORE NOT REQUIRED

Mus 102, 103 Music Theory I	8
Mus 320 Class Voice (Proficiency required).	1
Sophomore Comprehensive Examination	0
Mus 381 Advanced Piano Skills (Proficiency required)	1
Mus 382 Stringed Instrument Techniques	1
Mus 383 Woodwind Instrument Techniques	1
Mus 384 Brass Instrument Techniques	1
Mus 385 Percussion Instrument Techniques	1
Mus 441 Music in the Elementary School.	5
Major Music Ensemble.	22
Major Applied Instrument or voice (Proficiency required)	11
	<u>52</u> credits

Required Supporting Course:

Hum 212 Music in the Humanities.	5
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Elementary Music Education Majors should enroll in Ed 300 in the fall prior to student teaching. See Music Department Chairman for details.

Minor in Music: 16 credits

Mus 101 Music Theory I	4
Mus 320 Piano (Proficiency required)	1
Mus 320 Voice (Proficiency required).	1
Mus 441 Music in the Elementary School OR	
Mus 444 Music in the Secondary School	5
Hum 212 Music in the Humanities.	5
	<u>16</u> credits

MUSIC COURSES

MUS 101, 102, 103 MUSIC THEORY I (4 each)

Basic course in theory devoted to study of triads, intervals, keys, scales, and notation. Rhythmic reading, sight-singing, melodic and harmonic dictation.

MUS 150 SURVEY OF MUSICAL LITERATURE (5)

An introduction to musical literature emphasizing structure, period, and style with consideration to general cultural development of the various periods being studied. Open to music majors and minors only.

MUS 200 INTRODUCTION TO MUSIC (3)

Fundamentals of music, including notation, scales, key signatures, chords, intervals, and keyboard experience. (Music majors should substitute Music 101.)

MUS 201, 202, 203 MUSIC THEORY II (4 each) [103]

Continuation of Music Theory I. Study of chromatic concepts. Includes writing experiences in modern idiom.

MUS 301 FORM AND ANALYSIS (3) [203]

Comprehensive analysis of the structure of music.

MUS 305 CANON AND FUGUE (3) [402]

Analysis and composition of canon and interchangeable counterpoint at various intervals. Introductory fugue writing.

MUS 307 INSTRUMENTATION (3) [203]

A study of the instruments of the band and orchestra regarding range, color, quality, and technical restriction as they apply to scoring for solo and ensemble performance. Original work and transcriptions.

MUS 320 INSTRUCTION ON INSTRUMENTS OR IN VOICE (1)
See Page 84**MUS 330 INSTRUCTION ON INSTRUMENTS OR IN VOICE (1)**
See Page 84**MUS 331, 332, 333, 334, 335 See MUSIC ENSEMBLES, Page 84****MUS 350, 351, 352 MUSIC HISTORY (3 each) [150 or eq.]**

Detailed study and analysis of the music in Western civilization from its origin to modern times.

MUS 370 DICTION FOR VOICE STUDENTS (3) [p]

Phonetics of singing Italian, German, and French literature.

MUS 373 CHORAL TECHNIQUES (2) [410]

Choir organization and rehearsal techniques.

MUS 381 ADVANCED PIANO SKILLS (1) [103]

Knowledge of improvisation, transposition, and modulation. Music majors only. May be repeated.

MUS 382 STRINGED INSTRUMENT TECHNIQUES (1)

Elementary instruction in string techniques. (May be repeated for a total of two credits.)

MUS 383 WOODWIND INSTRUMENT TECHNIQUES (1)

Elementary instruction in woodwind techniques. (May be repeated for a total of two credits.)

MUS 384 BRASS INSTRUMENT TECHNIQUES (1)

Elementary instruction in brass techniques. (May be repeated for a total of two credits.)

MUS 385 PERCUSSION INSTRUMENT TECHNIQUES (1)

Elementary instruction in percussion techniques.

MUS 389 INSTRUMENT REPAIR AND REED MAKING (3)

Study of the materials and techniques of minor repairs and adjustments. Double reed making included.

MUS 399 SPECIAL STUDIES IN MUSIC (1-3)

Subjects studied vary according to faculty and student interest.

MUS 402 COUNTERPOINT (3) [203]

Analysis and composition of works in polyphonic style.

MUS 403 BAND ARRANGING (3) [307]

Study of the instruments of the band with practical application to the art of band scoring. Original work and transcriptions.

MUS 405 ORCHESTRATION (3) [307]

Practical study of the art of symphonic scoring. Original work and transcriptions.

MUS 406 CHORAL ARRANGING (3) [203]

Practical study of the art of choral scoring applied to various vocal groupings.

MUS 408 COMPOSITIONAL TECHNIQUES (3) [301]

Composition in various primary forms.

MUS 409 COMPOSITION (1-5) [408]

Organization of musical ideas into logical form. Application to works for piano, voice, and instruments.

MUS 410 CONDUCTING (3) [203]

Fundamental study of conducting patterns. Development of skills in choral and instrumental conducting and score reading.

MUS 430 See Instruction on Instruments or Voice, page 84**MUS 441 MUSIC IN THE ELEMENTARY SCHOOL (5) [Jr., Maj or Min & Psy 302]**

Methods and materials for teaching a complete music program in the first six grades.

MUS 444 MUSIC IN THE SECONDARY SCHOOL (5) [Jr as Maj or Min & Psy 302]

Methods and materials for directing all phases of the music program in the junior and senior high school.

MUS 448 MARCHING BAND TECHNIQUES (3)

Techniques of drilling the marching band. Analysis of materials for field and street maneuvers; preparation of music and charting.

MUS 453 MUSIC OF THE BAROQUE PERIOD (3) [350 or p]

An intensive study of the musical literature of the period with emphasis on library research.

MUS 454 MUSIC OF THE CLASSICAL PERIOD (3) [351 or p]

An intensive study of the musical literature of the period with emphasis on library research.

MUS 455 MUSIC OF THE ROMANTIC PERIOD (3) [352 or p]

An intensive study of the musical literature of the period with emphasis on library research.

MUS 456 MUSIC OF THE 20TH CENTURY (3) [352 or p]

An intensive study of the musical literature since 1900 with emphasis on library research.

MUS 457 MUSIC OF THE AMERICAS (3)

Music of the Americas through aural and visual presentation and study.

MUS 460 PIANO PEDAGOGY (3) [Sr & p]

Preparation for teaching individual and class piano in the studio.

MUS 461 VOCAL PEDAGOGY (3) [Sr & p]

Preparation for teaching individual and class voice in the studio.

MUS 462 STRING PEDAGOGY (3) [Sr & p]

Preparation for teaching individual or class lessons in stringed instruments.

MUS 463 WOODWIND PEDAGOGY (3) [Sr & p]

Preparation for teaching individual or class lessons in woodwind instruments.

MUS 464 BRASS PEDAGOGY (3) [Sr & p]

Preparation for teaching individual or class lessons in brass instruments.

MUS 466 METHODS OF TEACHING MUSIC THEORY (3) [p]

Contributions of the major theorists from the early times to the present, a survey of the evolution of harmony, a study of teaching materials.

MUS 467 ACCOMPANYING (3) [p]

Study of vocal and instrumental literature, analyzing accompanist's problems.

MUS 470 SENIOR RECITAL (1-5) [p]**MUS 490 MUSIC FOR THE ELEMENTARY CLASSROOM TEACHER (3)**
[200 & Jr]

Teaching materials and techniques as well as the development of musical understandings and skills for the elementary classroom teacher. (Music majors and minors substitute Mus 441.)

MUS 496 WORKSHOPS IN MUSIC**MUS 497 CREATIVE ARTS SUMMER FESTIVAL (1-4)—Su****MUS 498 CREATIVE ARTS PROGRAM LABORATORY (1-3)—Su****MUS 499 DIRECTED STUDY IN MUSIC (1-5) [P]**

Individual study projects in a selected special field of music.

GRADUATE COURSES**MUS 510 ADVANCED CONDUCTING (3)**

Detailed study of instrumental and choral scores with extensive application of conducting techniques to these forms.

MUS 520 RESEARCH TECHNIQUES AND BIBLIOGRAPHY IN MUSIC (4)

Detailed study of the basic references, bibliography aids, and research techniques.

MUS 530 See Instruction on Instruments or Voice, page 84**MUS 531 PROBLEMS IN APPLIED MUSIC (1)**

For students with graduate standing who wish to pursue special study dealing with applied music. May be repeated for a total of 3 credits.

MUS 532 PROBLEMS IN MUSIC ENSEMBLE (1)

For students with graduate standing who wish to participate in ensembles and pursue special study dealing with the techniques and literature of the chosen medium. May be repeated for a total of 3 credits.

MUS 540 MODERN DEVELOPMENTS IN MUSIC EDUCATION (3)

Recent trends in the philosophy and teaching of music. A critical analysis of contemporary writing in the field of music education.

MUS 541 ADMINISTRATION AND SUPERVISION OF MUSIC IN THE PUBLIC SCHOOLS (3)

Supervising and administering the total school music program in a school district, city, county, or state.

MUS 546 MATERIALS AND PROBLEMS IN THE SCHOOL MUSIC PROGRAM: CHORAL (3)

A study of the materials and problems of choral music and its performance by school groups.

MUS 547 MATERIALS AND PROBLEMS IN THE SCHOOL MUSIC PROGRAM: INSTRUMENTAL (3)

A study of the materials and problems of instrumental music and its performances by school groups.

MUS 550 SEMINAR IN MUSIC (3)

A critical study of reports on information and materials in the field of music.

MUS 560 HISTORICAL ANALYSIS OF MUSICAL STRUCTURE (3)

Structural analysis of music from the 16th century to the present and the relationship of this analysis to effective interpretation, performance and teaching.

MUS 563 ADVANCED BAND ARRANGING (3)

Selected orchestral compositions which are adaptable for band transcriptions as well as scoring for bands of original creations.

MUS 565 ADVANCED ORCHESTRATION (3)

Stresses advanced practical arranging, orchestration, and composition for the orchestral organizations.

MUS 566 ADVANCED CHORAL ARRANGING (3)

Practical approach to the art of choral scoring as applied to various vocal and instrumental combinations.

MUS 568 ADVANCED COMPOSITIONAL TECHNIQUES (1-5)

Original work in composition in larger musical forms, with emphasis on different stylistic periods.

MUS 590 GRADUATE RECITAL (1-6)**MUS 596 COLLEGE TEACHING INTERNSHIP (1-5)**

Teaching of a lower division college course under supervision of a regular faculty member. Includes course planning, arranging bibliographical and other instructional aids, conferences, with the students, experience in classroom instruction, and student and course evaluation.

MUS 599 INDEPENDENT STUDY IN MUSIC (1-5)

Independent study projects in a selected field of Music.

MUS 600 THESIS (3-9)

Natural Science
See Physics

NURSING

Dana E. Harter, Executive Coordinator, Health Sciences

The Bachelor of Science program in nursing consists of two years of academic work at Eastern Washington

State College during which the student completes all of the general requirements and the necessary science courses for nursing. At the end of these two years, the student is eligible to apply for admission to the Spokane Center for Nursing. An accepted student will attend the Center for two years and one summer quarter. Admission to the Center is by application and requires a cumulative GPA of 2.25. Upon satisfactory completion of the entire program the student will receive a Bachelor of Science in Nursing degree through EWSC.

The following are the necessary pre-nursing requirements in addition to the general requirements.

Soc 101	5
Chm 161, 162, 163	15
Bio 100	5
Bio 132, 133	10
Bio 221	5
Psy 101	5
HEc 356	3
SpC. 200	4

NURSING COURSES**NRS 300 BASIC NURSING (6)**

Clinical nursing; scientific principles and skills required in comprehensive nursing care of individuals.

NRS 310 MEDICAL-SURGICAL NURSING (8) [300]

Study of disorders of homeostasis in adult patients treated by medical-surgical measures with emphasis on related nursing problems.

NRS 311 MEDICAL-SURGICAL PRACTICUM (9) [300]

Experience in application of theory in assessment, planning, implementing and evaluating care of selected patients with medical-surgical problems.

NRS 320 MATERNAL-CHILD NURSING (8) [300]

A family centered approach to the study of childbearing, the normal child and the sick child—newborn through adolescence.

NRS 321 MATERNAL-CHILD NURSING PRACTICUM (9) [300]

Selected experiences caring for and observing mothers and children within hospitals, clinics, physician's office and the family within the home.

NRS 330 SURVEY OF NURSING I (5) [Jr. in nursing]

Study of the development of nursing.

NRS 440 COMMUNITY HEALTH NURSING (6) [310, 311, 320, 321]

Basic principles of public health; their influence on the nurse in her community relationships with families in health and illness.

NRS 441 COMMUNITY HEALTH NURSING PRACTICUM (6) [310, 311, 320, 321]

An exploration of community health nursing through actual experiences with comprehensive health care in a multidisciplinary health district.

NRS 450 SURVEY OF NURSING II (5) [Sr. in Nursing]

Current trends in nursing emphasizing nursing research and literature; their implications for the nurse practitioner.

NRS 460 PSYCHIATRIC NURSING (5) [310, 311, 320, 321]

Study of psychiatric-mental health principles and concepts as they relate to comprehensive nursing care.

NRS 461 PSYCHIATRIC NURSING PRACTICUM (8) [310, 311, 320, 321]

Practicum experience to increase knowledge and skills working with mentally ill patients.

NRS 480 ADVANCED NURSING (6) [310, 311, 320, 321]

Concepts related to specialized nursing and the principles of leadership in developing, initiating and assessing nursing care.

NRS 481 ADVANCED NURSING PRACTICUM (12) [310, 311, 320, 321]

Selected experiences in providing comprehensive nursing care for individuals and groups of individuals.

88—PHYSICAL EDUCATION

NRS 499 SPECIAL PROBLEMS (1-6)

Independent study of a clinical nursing problem with observation of and involvement in direct nursing care.

PHA 360 PHARMACOLOGY (5)

Principles of pharmacology for nurses.

**Philosophy
See English**

PSYISICAL EDUCATION

Also Recreation and Park Administration

Jack R. Leighton, Chairman

C. Peggy Gazette, Women's P. E. Chairman

1971-72 Staff, Men: Anderson, Barr, Black, Byrnes, Chissus, Frey, Hagelin, Kleven, Krause, Lazzar, Martin, Massengale, Raver, Tibbitts, Whitehill, Wooten.

Women: Asan, Bucklin, Davis, Magafas, McCulloch, Parsons.

The Departments of Health, Physical Education, Recreation and Athletics offer professional preparation in physical education, recreation and health education (which see) and conduct an intensive program of athletics, both varsity and intramural. Physical education activity courses are also available for any students of the College.

Standards of fitness and proficiency, substitution of requirements and waivers affecting Physical Education Majors or Minors are set by the Department and variances from the normal program must be approved by the Department Chairman.

Pre-Therapeutic Option

The Physical Education programs in many of the larger school systems and the rehabilitation programs in many hospitals emphasize the use of physical exercise in the treatment of physical and mental disabilities. These exercises are administered by therapeutic physical educators on the prescription of a physician.

BACHELOR OF ARTS DEGREE

Major in Physical Education with a Pre-Therapeutic (Pre-Physical Therapy) Option: 60 credits

PE 135, 247 Professional Laboratory	6
PE 170 Physical Education Orientation	3
PE 251 Kinesiology	5
PE 339 Athletic Training and First Aid	5
PE 361 History and Philosophy of Physical Education	5
PE 422 Physical Education for the Mentally Retarded	3
PE 450 Administration and Curriculum Development in PE	5
PE 452 Physical Education for the Atypical	3
PE 454 Measurements and Evaluation in Physical Education	5
PE 456 Advanced Adapted Physical Education	2
PE 460 Physiology of Exercise	3
PE 465 Physical Growth and Development	2
RPA 100 Introduction to Recreation	3
Psy 350 Psychology of Adjustment	5
Psy 357 Abnormal Psychology	5
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60 credits	

Required supporting courses: 30 credits

Bio 100 Biological Science	5
Bio 132, 133 Anatomy and Physiology	10
Chm 161 Inorganic Chemistry	5

Chm 162 Organic Chemistry	5
Phy 100 Physical Science	5
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30 credits	

Major in Recreation and Park Administration: 58 credits

RPA 100 Introduction to Recreation & Park Administration	3
RPA 110 Camp Crafts	2
RPA 205 Outdoor Related Sports	3
RPA 310 Camping Administration and Outdoor Education	3
RPA 320 Community Centers and Playgrounds	3
RPA 330 Youth Serving Agencies	3
RPA 400 Org. & Adm. of Recreation and Parks	5
RPA 405 Recreation and Park Services in the State	2
RPA 409 Leadership in Recreation and Parks	3
RPA 460 Management of Areas and Facilities	2
RPA 480 Professional Field Work in Recreation & Parks	12
RPA 490 Seminar	2
HE 196 First Aid and Safety Education	2
PE 341 Games and Game Skills	3
PE 349 Organization and Administration of Intramurals	2
IT 350 Diversified Crafts for Recreation and Therapy	5
Jrn 451 Public Relations, OR	
RTV 322 Radio-Television Promotion & Public Relations	3
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58 credits	

Required Supporting Courses:

Option 1 (Public Agencies, Youth Agencies, Outdoor, etc.): 28-30 credits

Selected from the following:

Soc 101 Introduction to Sociology	5
Soc 263 Social Problems	5
Soc 350 American Community Structures	5
Soc 452 Juvenile Delinquency	4
Soc 475 Sociology of Small Groups	4
Bus 328 Personnel Management	4
Bus 329 Administrative Management	5
Ggr 317 Resources and Conservation	3
Ggr 350 Introduction to Planning I	5
Psy 350 Psychology of Adjustment	5
Psy 355 Psychology of Childhood and Adolescence	5
Psy 357 Abnormal Psychology	5
Psy 481 Social Psychology	5
SpC200 Introduction to Speech Communications	3
SW 373 Social Welfare as an Institution	5

Option 2 (Therapeutic Recreation): 28-30 credits

Selected from the following:

Bio 100 Biological Science	5
Bio 132 Anatomy and Physiology	5
Bio 133 Anatomy and Physiology	5
PE 251 Kinesiology	5
PE 422 PE for the Mentally Retarded	3
PE 452 PE activities for Atypical Individuals	3
Psy 355 Psychology of Childhood and Adolescence	5
Psy 357 Abnormal Psychology	5
Psy 363 Psychology of Exceptional Children	4
Psy 405 Psychology of the Mentally Retarded	4

Minor in Recreation: 16 credits

RPA 100 Introduction to Recreation & Park Administration	3
RPA 400 Organization and Administration of Recreation and Parks	5
HE 196 First Aid and Safety Education	2
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6 credits from the following:	
RPA 110 Camp Crafts	2
RPA 205 Outdoor Related Sports	3
RPA 320 Community Centers & Playgrounds	3

RPA 409 Leadership in Recreation & Parks	3
RPA 460 Management of Areas & Facilities	2
PE 349 Organization and Administration of Intramurals	2
	<u>6</u>
	16 credits

PE 361 History and Philosophy of Physical Education	5
PE 499 Programs and Evaluation in Elementary PE	5
	<u>5</u>
	19 credits

BACHELOR OF ARTS IN EDUCATION DEGREE

Major in Physical Education (Secondary): 48 credits

PE 135, 247 Professional Laboratory	12
PE 170 Physical Education Orientation	3
PE 251 Kinesiology	5
PE 339 Athletic Training and First Aid	5
PE 361 History and Philosophy of Physical Education	5
PE 450 Administration and Curriculum Development in PE	5
PE 452 Physical Education for the Atypical	3
PE 454 Measurement and Evaluation in Physical Education	5
HE 370 Personal and Community Health	5
	<u>48</u>

Major in Physical Education (Elementary)*: 34 credits

PE 251 Kinesiology	5
PE 338 Rhythms for Elementary Children	3
PE 341 Games and Game Skills	3
PE 343 Stunts and Self Testing Activities	3
PE 361 History and Philosophy of Physical Education	5
PE 449 Programming and Evaluation in Elementary PE	5
PE 452 Physical Education for the Atypical	3
HE 196 First Aid and Safety	2
HE 472 Health Fundamentals and Procedures	5
	<u>34</u>

* Before student teaching, minors must take PE 366 in place of PE 390 under list B of Education requirements.

Dance Option

The physical education programs in many of the larger schools emphasize various phases of dance, i.e., American folk and square dance, international folk dance, modern dance, etc. The dance option is planned for those students who wish to prepare for positions involving considerable teaching in the dance field.

Major in Physical Education (Secondary) with a Dance Option: 46 credits

PE 135, 247 Professional Laboratory	10
PE 171 Dance Orientation	2
PE 239 Fundamentals of Rhythm	2
PE 251 Kinesiology	5
PE 330 Elementary Dance Composition	2
PE 338 Rhythms for Elementary Children	3
PE 361 History and Philosophy of Physical Education	5
PE 430 Dance in Education	3
PE 432 Dance Production	2
PE 450 Administration and Curriculum Development in PE	5
PE 454 Measurement and Evaluation in Physical Education	5
HE 196 First Aid and Safety	2
	<u>46</u>

Minor in Physical Education. It is possible for a student majoring in an academic subject other than Physical Education to minor in Physical Education.

Minor in Physical Education (Secondary): 18 credits

PE 135, 247 Professional Laboratory	8
PE 361 History and Philosophy of Physical Education	5
PE 450 Administration and Curriculum Development in PE	5
	<u>18</u>

Minor in Physical Education (Elementary): 19 credits

PE 338 Rhythms for Elementary Children	3
PE 341 Games and Game Skills	3
PE 343 Stunts and Self Testing Activities	3

PHYSICAL EDUCATION COURSES

PE 115 INTRODUCTION TO HEALTH AND PHYSICAL EDUCATION ACTIVITIES (2)

The relation of exercise to good physical and mental health, determination of activity and fitness status, activity program planning. Requirement based on status, basic principles of healthful living.

PE 120 PE ACTIVITIES (Women only) (1)

Apparatus, Basketball, Body Mechanics, Gymnastics, Field Hockey, Folk and Square Dance, Karate, Progressive Weight Training, Self Defense, Soccer, Social Dance, Softball, Speedball, Tennis, Track, Trampoline, Volleyball, and Women's Conditioning. Eight varsity sports also available.

PE 125 PE ACTIVITIES (Coeducational) (1)

Archery, Badminton, Bowling, Circuit Training, Diving, Fencing, Fly Casting, Golf, Ice Skating, Life Saving, Modern Dance, Sailing, Scuba Diving, Skiing, Skin Diving, Swimming, Western Horsemanship, Yoga. Corrective Laboratory is offered for those unable to participate in regular activities because of a disability.

PE 130 PE ACTIVITIES (Men only) (1)

Apparatus, Basketball, Folk and Square Dance, Fundamental Gymnastics, Handball, Karate, Progressive Weight Training, Rugby, Soccer, Social Dance, Tennis, Track and Field, Trampoline, Tumbling and Stunts, Volleyball, Wrestling, Men's Conditioning, and the Varsity Sports; Baseball, Basketball, Cross Country, Football, Golf, Gymnastics, Swimming, Tennis, Track, and Wrestling.

PE LABORATORY COURSES (2 each)

Development and perfection of skills necessary to participate in physical education activities along with techniques of instructing the specifics of these skills:

Women Only

- PE 135 Soccer, Speedball, Field Hockey.
- PE 136 Basketball, Volleyball.
- PE 137 Track and Field, Softball.
- PE 235 Movement Fundamentals, Tumbling, and Trampoline.
- PE 236 Folk and Square, and Social Dance.
- PE 237 Tennis, Golf.
- PE 335 Gymnastics, Aquatics.
- PE 336 Contemporary Dance, Progressive Weight Training.
- PE 337 Archery, Badminton.

Men Only

- PE 145 Football, Soccer.
- PE 146 Basketball, Volleyball.
- PE 147 Folk and Square Dance, Social Dance.
- PE 245 Aquatics, Gymnastics.
- PE 246 Wrestling, Progressive Weight Training.
- PE 247 Track and Field, Baseball.
- PE 347 Tennis, Golf.

PE 170 PHYSICAL EDUCATION ORIENTATION (3)

Insight into the body of knowledge in physical education encompassing the basic concepts of motor learning, the place of physical education in the present culture, professional opportunities and the relationship of physical education to total education. Evaluation techniques to determine each student's fitness level, motor educability and motor ability will be utilized in order to assist students in making an intelligent choice of profession.

PE 171 DANCE ORIENTATION (2)

Deals with the history of dance, contemporary dance forms, dance as an art form, and the scope of dance in the schools.

PE 193 WATER SAFETY INSTRUCTOR'S COURSE (3) [125-Life Saving]

Course conducted to meet the requirements of the American Red Cross instructor's course. Certificates will be awarded to those who qualify.

PE 239 FUNDAMENTALS OF RHYTHM (2) [p] —efy

Deals with the rhythmic structure of basic movements, methods of music notation, method of diagrammatic notations, percussion, and accompaniment for dance.

PE 251 KINESIOLOGY (5) [Bio 100, 132, 133]

A study of the range, quality, and capacities of movement of the human body; analysis of muscular movement in sports activities.

PE 280 COACHING OF INDIVIDUAL SPORTS (4)

Coaching techniques in gymnastics, swimming, and tennis. The theory and practice of basic fundamentals necessary for coaching in these areas.

PE 281 FOOTBALL COACHING (2)

The theory and practice of football fundamentals.

PE 282 BASKETBALL COACHING (2)

The study of rules, philosophy, organization, offenses, defenses, and special situations necessary for coaching basketball.

PE 283 TRACK COACHING (2)

Sprinting, distance running, high and low hurdles, high and broad jump, pole vaulting, shot-putting, discus and javelin throwing; management of meets; the diet and conditioning of men.

PE 285 BASEBALL COACHING (2)

History and current practices in baseball. The theory and practice of baseball fundamentals, pitching and fielding strategy, base running, hitting techniques.

PE 288 APPARATUS TECHNIQUES (2)—e/y

Fundamental exercises based on the German and Danish systems of gymnastics utilizing such apparatus as the side horse, buck, parallel bars, stall bars, rings, horizontal bar, and climbing rope.

PE 330 ELEMENTARY DANCE COMPOSITION (2) [p] —o/y

Covers the use of various stimuli for composition, methods of group and individual choreography.

PE 338 RHYTHMS FOR ELEMENTARY CHILDREN (3) [Jr or p]

Deals with the movement needs of different age groups, problem-solving method of exploration and formation, rhythmic structure of basic movements, associations of ideas with movement, and development of the kinesthetic sense.

PE 339 ATHLETIC TRAINING AND FIRST AID (5) [Bio 100, 132, 133 or p]

Preparation in the care and treatment of athletic injuries or injuries that result from home, automobile, or water accidents or disasters. American Red Cross Standard and Advanced Certification available to students who qualify.

PE 340 CREATIVE DANCE FOR SECONDARY SCHOOLS (3)—o/y

Aim and scope of creative dance; its relationship to physical education and to the arts; methods of introducing, establishing, and maintaining a dance program.

PE 341 GAMES AND GAME SKILLS (3) [Jr or p]

Covers game skills and games desirable for young children (ages 5-12). This is accomplished through a detailed knowledge of skill performance, skill analysis, game performance, and game analysis.

PE 343 STUNTS AND SELF TESTING ACTIVITIES (3) [Jr or p]

Acquaints the student with many of the stunts and self testing activities desirable for young children. Opportunities will be provided for class members to analyze various types of stunts and self testing activities.

PE 345 PROGRESSIVE WEIGHT TRAINING FOR SECONDARY SCHOOL BOYS AND GIRLS (3)

History, purposes, special exercise programs, methods of instruction and evaluation, equipment and facilities required for the teaching of progressive weight training in the public schools.

PE 348 ADMINISTRATION OF ATHLETICS (3)

A study of problems in connection with the organization and management of junior and senior high school athletics.

PE 349 ORGANIZATION AND ADMINISTRATION OF INTRAMURALS IN PUBLIC SCHOOLS (2) [Jr] —e/y

Study of problems which arise in connection with the organization, management, and program construction of public school intramurals.

PE 361 HISTORY AND PHILOSOPHY OF PHYSICAL EDUCATION (5) [Jr]

A study and analysis of the history, aims, philosophies, foundations, and practices in physical education.

PE 366 TEACHING PROCEDURES IN ELEMENTARY PHYSICAL EDUCATION (3) [Jr; 361 or p]

Methods and procedures of conducting physical education classes in the elementary schools.

PE 367 TEACHING PROCEDURES IN SECONDARY PHYSICAL EDUCATION (3) [Jr; 361 or p]

Methods and procedures of conducting physical education classes in the secondary schools.

PE 368W METHODS IN TEACHING TEAM SPORTS FOR GIRLS AND WOMEN (4)

Techniques, demonstrations, officiating, testing, and lesson planning in basketball, field hockey, soccer, softball, speedball, and volleyball.

PE 369W METHODS IN TEACHING INDIVIDUAL ACTIVITIES FOR GIRLS AND WOMEN (4)

Techniques, demonstrations, evaluations, and lesson planning for apparatus, body mechanics, trampoline, tumbling, tennis, and badminton.

PE 380 ADVANCED FOLK DANCE (2) [Jr]

Instruction and application of basic steps and techniques used in national dances. A further study to give a more extensive knowledge of such dances and how to select and teach them.

PE 390 HEALTH AND PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOLS (3) [Jr., 2.00]

Analysis of educationally sound programs and of procedures and practices in the development of basic health and physical education principles.

PE 422 PHYSICAL EDUCATION FOR THE MENTALLY RETARDED (3)

A presentation of the contributions of physical education to the growth and development of the mentally retarded as an integral tool in their education and training.

PE 430 DANCE IN EDUCATION (3) [335, 390, or p] —e/y

Senior projects in group choreography and problems of production.

PE 432 DANCE PRODUCTION (2)—e/y**PE 449 PROGRAMS AND EVALUATION IN ELEMENTARY PHYSICAL EDUCATION (5) [338, 341, 343, 361]**

The fundamentals of planning, constructing and evaluating physical education programs for children ages 5-12. Involves an analysis of the proper relationship of purposes of physical education, administrative procedures, and methods of instruction.

PE 450 PHYSICAL EDUCATION ADMINISTRATION AND CURRICULUM DEVELOPMENT (5) [Jr, 361, 367 or p]

Organization, administration, planning, and construction of physical education programs for children ages 12-18, on the basis of accepted educational principles.

PE 452 PHYSICAL EDUCATION ACTIVITIES FOR ATYPICAL INDIVIDUALS (3) [Jr, 251]

Considers physical education activities and how they may be modified to meet the needs of the individuals who are unable to participate in regular classes.

PE 454 MEASUREMENT AND EVALUATION IN PHYSICAL EDUCATION (5) [Jr, 361]

The formulation; use and application of various tests and measuring devices in pupil and program evaluation in physical education.

PE 456 ADVANCED ADAPTED PHYSICAL EDUCATION (2)

An advanced course dealing with postural defects, body mechanics, and other muscular and structural handicaps that affect the physical and emotional development of children. An anatomical, physiological, and psychological relationship of these handicaps are stressed.

PE 460 PHYSIOLOGY OF EXERCISE (3) [Jr., 251]

(Same as HE 460) An advanced course in the application of the principles of physiology to exercise. A study of the chronic and acute effects of exercise.

PE 465 PHYSICAL GROWTH AND DEVELOPMENT (2)

Concerned with growth and developmental patterns from late infancy to early adulthood. Particular attention given to differences associated with sex, race, puberty, and physical abnormalities.

PE 497 WORKSHOP IN PHYSICAL EDUCATION (Arr)

Workshops dealing with specific aspects of physical education are conducted either during the summer or by extension.

PE 498 SEMINAR**PE 499 DIRECTED STUDY IN PHYSICAL EDUCATION (Arr) [Jr; P]**

Study of selected problems in the field of physical education.

GRADUATE COURSES**PE 505 CURRENT MOVEMENTS IN PHYSICAL EDUCATION (3)**

A study of the different schools of thought and practice in the professional field of physical education and their influence on physical education program.

PE 506 SPORT IN AMERICAN CULTURE (3) [Below]

An examination of the nature and place of sport in American life and an analysis of the interrelations between sport and institutions, social systems and culture. Prereq: A general Sociology course and PE 520 or permission of instructor.

PE 507 PHYSICAL EDUCATION FACILITIES (3) [361, 450]

This course is designed to provide the information necessary for the planning, financing, building and administering of health, physical education, recreation and athletic facilities. It is primarily intended for personnel in Health and Physical Education but could also be of value to all persons responsible for the design and construction of educational facilities.

PE 520 RESEARCH METHODS IN PHYSICAL EDUCATION (3)

Study of the methods and techniques of research in physical education; practice in application to problems of current interest.

PE 541 SPECIAL PROBLEMS IN PHYSICAL EDUCATION (Arr)

Study of selected problems in the field of physical education.

PE 542 SEMINAR (Arr)

Seminars dealing with special aspects of physical education are conducted.

PE 551 THERAPEUTIC EXERCISES (3)

A study of the treatment of disease and injury by non-medical means as prescribed by physicians. It includes hydro-therapeutic exercise and the administration of neuromuscular re-education.

PE 552 NEUROMUSCULAR RE-EDUCATION (3)

Appraisal of neuromuscular limitations as a basis for selection of activities for rehabilitation. Use of isometric techniques, coordination and diagonal pattern exercise in neuromuscular retraining programs.

PE 553 AMBULATION, SELF CARE, FUNCTIONAL LIVING (3)

The applications of the appropriate rehabilitation techniques will be discussed. The following types of disabilities will be covered in this course; orthopedic disabilities, amputations, cerebral palsy, poliomyelitis and certain neurological disabilities.

PE 554 ADVANCED APPLIED ANATOMY AND KINESIOLOGY (3)

Emphasis is directed toward techniques of study of muscular movement and their anatomical interrelationships. An extensive analysis of normal function, upon which implications for clinical applications are based.

PE 555 ADVANCED PHYSIOLOGY OF EXERCISE (3)

(Same as HE 555) Physiological effects of muscular exercise, physical conditioning, and training. Significance of these effects on health and performance in activity program.

PE 556 NEUROLOGY (3) [p]

A study of the fundamental concepts of the anatomy and physiology of the nervous system with consideration given to neurological examination and interpretation of clinical findings. Further consideration will be given the types of disabilities to the central and peripheral nerves. Implications of therapy and neurological rehabilitation will be discussed.

PE 557 PATHOLOGY OF THE NEUROLOGICAL SYSTEM (3)

Study of the nature of normal tissue and disease, through its courses, processes and effects together with the associated alterations of structure and function.

PE 558 CLINICAL CORRECTIVE THERAPY EXPERIENCE (15) [551, 552, 553]

Experience with patients having various types of physical and

mental disabilities in a hospital corrective therapy department. Lectures by hospital personnel orienting the student to the departmental organization of the hospital and to the function of these various departments. This constitutes the student's full load for the quarter.

PE 571 READING SEMINAR IN ELEMENTARY PHYSICAL EDUCATION (3)

A seminar that is designed to provide an indepth study and discussion of publications and writings relating to selected areas of elementary physical education.

PE 572 CONTEMPORARY ELEMENTARY PHYSICAL EDUCATION IN MODERN SOCIETIES (3)

An analytical study of physical education for children. Consideration will be given to content, procedure and organization of elementary physical education that is implemented by Scandinavia, Western Europe, Canada and other selected societies.

PE 596 COLLEGE TEACHING INTERNSHIP (3-5)

Teaching of a lower division college course under the supervision of a full-time faculty member. This includes the development of a course outline, behavioral objectives, instructional aids, evaluation instruments for students and course and methodology techniques. Ample opportunity will be given for classroom instruction experience and student contacts.

PE 599 INDEPENDENT STUDY (Arr) [P]**PE 600 THESIS (Arr)****RECREATION & PARK ADMINISTRATION COURSES****RPA 100 INTRODUCTION TO RECREATION & PARK ADMINISTRATION (3)**

An introduction and orientation to the professional opportunities and areas, requirements, and responsibilities which are involved in the professional preparation of recreation and park administrators. Includes basic problems and trends which influence recreation in our society and the status of recreation in our contemporary society.

RPA 110 CAMP CRAFTS (2)

Skills in outdoor living including such areas as: cookery, lashing, campfire programs, map and compass, use of native materials and nature lore, firecraft, food, equipment, health and safety, conservation, trips and leadership. Students may qualify for American Camping Association campcrafter certificate.

RPA 205 OUTDOOR RELATED SPORTS (3)

Introduces student to some of the important skills and pleasurable activities that are concerned with the out-of-doors. Skill development, leadership opportunities and conducting of sports programs will be offered in selected activities such as: aquatics (fishing, sailing, boating, canoeing, skin and scuba diving); archery, bicycling, hunting and riflery, horsemanship, mountaineering, skiing and winter sports; case studies of successful operation will be studied.

RPA 299 DIRECTED STUDY IN RECREATION & PARK ADMINISTRATION (Arr)**RPA 310 CAMPING ADMINISTRATION AND OUTDOOR EDUCATION (3)**

Designed to prepare the student to organize and direct camping activities or outdoor education programs for the schools. Covers areas such as organization and administration, history, development and present status; program planning; purposes, objectives, and values; location; areas and facilities; safety and health; and problems and trends.

RPA 320 COMMUNITY CENTERS AND PLAYGROUNDS (3)

Varied aspects of school and community playgrounds and community centers; administrative and leadership techniques; programming of activity centers, and problems relating to planning and operation of these programs.

RPA 330 YOUTH SERVING AGENCIES (3)

Objectives, work opportunities, organization, program, and membership of principal national youth membership agencies.

RPA 400 ORGANIZATION AND ADMINISTRATION OF RECREATION AND PARKS (5) [Below]

Study of scope of local, state, and federal recreation and park programs; their organization and administration, and relation to

other social institutions; special emphasis on planning, financing, legislative provisions, governmental control, budget, personnel, departmental organization, and administrative practices especially on local level. Prereq: 500 hrs. experience in the Field.

RPA 405 RECREATION AND PARK SERVICES IN THE STATE (2)
[Majors only, Jr, p]

A one week traveling field study course offered one week before the start of fall quarter. The tour is conducted as a traveling camp class with visits to selected local, metropolitan, district, state and federal recreation and park areas for evaluation of administrative practices, area management, and operation policies.

RPA 409 LEADERSHIP IN RECREATION AND PARKS (3)

A leadership techniques course designed to help a student become a better direct leader of people in social recreation activities. Includes leadership psychology and methods along with discussions of the participation in a large variety of activities.

RPA 460 MANAGEMENT OF AREAS AND FACILITIES (2) [480]

Management and supervision principles and techniques as related to recreation and park areas, facilities, personnel, finance. Basic maintenance and inspection of areas and facilities.

RPA 480 PROFESSIONAL FIELD WORK IN RECREATION AND PARKS (12) [Below]

Experience in recreation and park planning, leadership, supervision, and program evaluation through working in community recreation public or agency program under local department and college faculty supervision. Prereq: Senior standing; RPA 400; 1,000 hours experience in the field and Director's approval. Applications must be completed two months prior to placement and all students will be screened by the Department. All general college requirements must be completed.

RPA 490 SEMINAR—FIELD EXPERIENCE, PROBLEMS, AND TRENDS (2) [480]

Culminating experience to facilitate transition between field work and academic and professional experience. Current issues and problems in recreation and park profession.

RPA 498 SEMINAR

RPA 499 DIRECTED STUDY IN RECREATION EDUCATION (Arr)
[Jr, P]

Study of selected problems in the field of recreation education.

GRADUATE COURSES

RPA 541 SPECIAL PROBLEMS IN RECREATION EDUCATION (Arr)

Study of selected problems in recreation education.

RPA 542 SEMINAR (Arr)

Seminars dealing with special aspects of recreation and education are conducted.

RPA 599 INDEPENDENT STUDY IN RECREATION (Arr) [P]

PHYSICS

Also Natural Sciences

Dennis E. Schwalm, Chairman

Earl N. Forsman, Interim Chairman (1971-72)

1971-72 Staff: Gibbs, Forsman, Kavaloski, Lehto,*
Long, Stahl, Schwalm

*Deceased December, 1971.

BACHELOR OF SCIENCE DEGREE

Major in Physics: 60 credits

Phy 151, 152, 153, 221, 222 Physics for Physics Majors	20
Phy 321, 322 Advanced Physics Lab	6
Phy 361, 362 Classical Mechanics	8
Phy 371 Quantum Mechanics	4

Phy 381 Atomic Physics	4
Phy 401, 402, 403 Electromagnetism	12
Phy Electives Phy 363 or any 400 level course except 497, 498, 499	6
	<hr/> 60 credits

Required Supporting Courses: 42 credits

Chm 151, 152, 153 General Chemistry	15
Mth 161 Introduction to Calculus	5
Mth 162, 163 Techniques of Calculus	10
Mth 471, 472, 473 Advanced Calculus	12
	<hr/> 42 credits

Minor in Physics: 15 credits

Phy 231, 232, 233 Advanced Physics	9
Phy 234, 235, 236 Advanced Physics Lab	6
	<hr/> 15 credits

BACHELOR OF ARTS IN EDUCATION DEGREE

Major in Physics: 45 credits

Phy 141, 142, 143 Lab Techniques and Instrumentation	3
Phy 151, 152, 153, 221, 222 Physics for Physics Major (20) OR Phy 231, 232, 233 Advanced Physics (9) & Phy 234, 235, 236 Advanced Physics Lab (6) & Phy 371, or 223 Quantum Mechanics or Physics for Physics Majors, Part 6 (4)	19 or 20
Phy 390 Physics Methods for the Secondary Schools	3
Phy Elective Any 300-400 level course except 421, 497, 498, 499	19 or 20
	<hr/> 45 credit

Required Principal Minor in Mathematics: 15 credits

Mth 161 Introduction to Calculus	5
Mth 162, 163 Techniques of Calculus	10
	<hr/> 15 credits

Required Supporting Courses: 10 credits

Chm, 151, 152 General Chemistry	10
	<hr/> 10 credits

Minor in Physics: 15 credits

Phy 231, 232, 233 Advanced Physics	9
Phy 234, 235, 236 Advanced Physics Labs	6
	<hr/> 15 credits

PHYSICS COURSES

PHY 100 PHYSICAL SCIENCE (5)

A survey course in physics dealing with elementary concepts in motion, heat, sound, light, and electricity.

PHY 121 DESCRIPTIVE ASTRONOMY (5)

Brief consideration of the solar system, stars and stellar types, nebulae and galaxies. Considerable use of planetarium.

PHY 131, 132, 133 INTRODUCTORY PHYSICS (5 each)

A course designed primarily for non-science students and those science students with very limited mathematical skills. A study of the fundamental laws of physics as they are manifested in mechanics, thermodynamics, optics, electricity, magnetism, and atomic physics. Emphasis on phenomenology.

PHY 141, 142, 143 LABORATORY TECHNIQUES AND INSTRUMENTATION (1 each)

A lab-only course dealing with the principles of operation and typical uses of a variety of instruments common to the physical sciences, primarily electrical and electronic devices, but including optical and radiation devices.

PHY 151, 152, 153, 221, 222, 223 PHYSICS FOR PHYSICS MAJORS (4 each) [Conc. En. Mth 131 or Mth 161]

A six quarter beginning sequence, suitable for all students of Natural Science and Mathematics, treats the topics of Advanced Physics (Phy 231, 232, 233) at greater depth and with more emphasis on mathematics. The modular structure of the course permits self-pacing within the requirements for each quarter; individualized testing; more personal guidance and attention; greater use of audio-visual aids; and integrated laboratory experiments. Contact the department chairman for more details.

PHY 191 ENVIRONMENTAL PHYSICS. (5)

A course for all students, especially non-science students, in which the fundamental principles of physics are explored in the context of their role in coping with and alleviating most of our current environmental problems, such as air pollution, water pollution, noise pollution, energy production, recycling, mass transportation, waste disposal, radioactive contamination, etc.

PHY 231, 232, 233 ADVANCED PHYSICS (3 each) [Mth 161, Conc. En. Mth 162]

A course designed primarily for students of physics, mathematics, and pre-engineering, but suitable for all students having sufficient mathematical background. A study of the fundamental laws of physics as they are manifested in mechanics, thermodynamics, optics, electricity, magnetism, and atomic physics. Emphasis on mathematical development.

PHY 234, 235, 236 ADVANCED PHYSICS LABS I, II, AND III (2 each) [Conc. En. 231, 232, 233]

A laboratory in the principles of physics closely correlated to the theory developed in Physics 231, 232, 233.

PHY 299 SPECIAL STUDIES. (Arr.)**PHY 321, 322 ADVANCED PHYSICS LABS IV AND V (3 each) [Jr, p]**

A laboratory course dealing with classical experiments in all of physics as well as introducing many modern measurement techniques in atomic and nuclear physics. Students are expected to have modest background and experience in basic physics. This lab will provide a wide variety of examples of the application of theory to important problems and will tie together, as much as possible, all of the various theoretical courses into a coherent unit.

PHY 350 ELEMENTS OF PHOTOGRAPHY (5)

A laboratory course in the use of the view camera, contact printers, enlargers, studio lights, types of film, developers, and papers. Charge for supplies: \$25.00.

PHY 351 ADVANCED PHOTOGRAPHY (4) [350]

An extension of Physics 350 with considerable work in advanced enlarging techniques, portraiture with emphasis on lighting, architectural photography, copying, retouching, slide making, color transparencies, and color prints. Charge for supplies: \$37.50.

PHY 361, 362 CLASSICAL MECHANICS I AND II. (4 each) [222 or 233; Mth 163]

A study of statics and dynamics from a mathematical point of view; an introduction to Lagrange's equations.

PHY 363 SPECIAL RELATIVITY. (4) [362]

An introduction into Einstein's theory of special relativity and its applications to particle dynamics.

PHY 371 QUANTUM MECHANICS. (4) [222 or 233; Mth 163]

A study of the basic concepts of the quantum theory with emphasis on operators, the Schrodinger wave equation, and spin.

PHY 381 ATOMIC PHYSICS. (4) [371]

A study of the application of quantum theory to the description of the periodic table, to the interpretation of atomic and molecular spectra, and to the behavior of X-rays.

PHY 390 PHYSICS METHODS FOR THE SECONDARY SCHOOL (3) [Backgrd.]

A course for science majors planning to teach in junior or senior high school. Various types of science programs, organization of lesson materials, and techniques, and evaluation will be included in the course.

PHY 401, 402, 403 ELECTROMAGNETISM I, II, AND III. (4 each) [222 or 233; Mth 163]

A study of electric forces, fields, potentials, dielectric behavior, currents, magnetic forces, and electromagnetic waves.

PHY 411 CLASSICAL THERMODYNAMICS (3) [222 or 233; Mth 163]

Introduction to elementary thermodynamics, first, second, and third laws of thermodynamics, ideal gases, and kinetic theory.

PHY 421 STATISTICAL MECHANICS (3) [411]

Introduction into the methods of statistical physics with

emphasis upon the rules of probability and statistics, equations of state, ensembles, and spin.

PHY 431 PHYSICAL ELECTRONICS (3) [222 or 233; Mth 163]

A course dealing with electron ballistics in electromagnetic fields, basic circuit theory, principles of operation of vacuum tubes and analysis of amplifiers.

PHY 441 SOLID STATE PHYSICS (3) [431]

A course dealing with the quantum properties of electrons in solids, mechanisms of electron and hole conduction, and variety of solid state devices.

PHY 451 OPTICS. (3) [222 or 233; Mth 163]

A study of the nature of light and its applications, with emphasis on physical optics and the electromagnetic wave theory of light.

PHY 461 NUCLEAR PHYSICS (3) [381]

A continuation of Physics 381 which deals with properties of the nucleus, laws of radioactivity, nature of radiation, nuclear X and gamma rays, and nuclear reactions.

PHY 497 WORKSHOPS, SHORT COURSES, CONFERENCES. (Arr.)**PHY 498 SEMINAR (Arr)****PHY 499 DIRECTED STUDY IN PHYSICS (arr) [P]****GRADUATE COURSES****PHY 501, 502 PRINCIPLES OF MODERN PHYSICS (4 each)**

The concepts of Quantum Mechanics are sufficiently extended and developed to serve as a unifying mechanism for the study of atomic spectra, atomic and nuclear structure, solid state and semiconductor physics, quantum statistics, nuclear reactions, and scattering.

The courses are designed to serve as a basis for further graduate work in physics.

PHY 596 COLLEGE TEACHING INTERNSHIP (1-5)**PHY 599 INDEPENDENT STUDY (Arr) [P]****NATURAL SCIENCES**

NSc 300 and 497 may be applied to general college requirements.

Neither major nor minor is available in Natural Sciences under the B.A. program.

BACHELOR OF ARTS IN EDUCATION DEGREE**Major in Natural Sciences (Elementary): 30 credits**

Ten quarter credits of science in each of three fields: Physical Science, Biological Science, and Earth Science, such courses to be approved by the Natural Science adviser (Dale Stradling).

NATURAL SCIENCE COURSES**NSC 300 GREAT IDEAS IN SCIENCE (5)**

A colloquium, man's elucidation of nature.

NSC 390 SCIENCE METHODS FOR THE SECONDARY SCHOOLS (3)

See departments of Geography, Chemistry, Physics, and Biology.

NSC 490 NATURAL SCIENCE IN PUBLIC SCHOOL (4) [ST or p; Sr; 2.00] —Su

The natural science program for the elementary schools. Objectives, curricula, teaching material and techniques.

NSC 497 WORKSHOP IN PHYSICAL SCIENCE FOR ELEMENTARY TEACHERS (4)—Su

A course designed for elementary teachers to aid in setting up demonstrations and experiments in physical science. Course work will emphasize materials, aids, and equipment suitable to this area of science at the elementary level.

PLANNING

The Center for Urban and Regional Planning
Francis J. Schadeegg, Director

The Center for Urban and Regional Planning offers a broadly based inter-disciplinary liberal arts degree. It has an optional general college program which is available to any student majoring in Planning.

Preparation for urban and regional planning is available as well as other professional specializations. For departmental degree requirements, see individual departmental sections of the catalog. Courses specified for the Optional General Program below may be used to meet departmental major requirements where they are so listed in the catalog.

Optional General Program: 105 credits

Block I—Communication competence (oral, written, graphic) English diagnostic test . . . 0	
Eng 101 (Revised) 4	
Eng 208 Technical Report Writing, 3, OR	
Eng 308 Expository Writing, 4. 3-4	
Electives from English 202, Art 306, Business 272, Ggr 328, IT 365, Mth 131, Phl 356, RTV 421, SpC 200, SpC 301, Foreign Languages (one course must be in graphics) 12-13	20
Block II—Human Values and Value Systems	
Phl (one course required) 5	
His (one course required) 5	
Electives from His, Hum, Phl, Psy 481, and selected art courses 10	20
Block III—Physical-Human Environmental Ecosystems	
1. Physical Environment	
Ggr 214 Physical Geography 5	
Electives from Bio, Ggr, Glg, Chm, Phy, Nat Sci 300 15	20
2. Economic Environment	
Eco 201 and 202 Introduction to Economics . . 10	
Electives from Economics 5	15
3. Political Environment	
PSc 102 American Politics 5	
Electives from Political Science 10	15
4. Social Environment	
Ggr 360 Human Geography 5	
Soc 101 Introduction to Sociology 5	
Ant 241 5	15
	105 credit

NOTE: Substitutions or waivers at the discretion of the Director of the Center for Urban and Regional Planning.

Professional major may be in Planning or in any disciplinary area. See descriptions in pertinent parts of the catalog under departmental majors for the B.A. degree.

BACHELOR OF ARTS DEGREE

Major in Planning: 55 credits

CORE: 21 credits	
PL 350 (Ggr 350) Introduction to Planning I . . 5	
PL 351 (Ggr 351) Introduction to Planning II . . 5	
Ggr 201 Field Studies and Map Interpretation . 5	
Ggr 250 Fundamentals of Economic Geography 3	
Ggr 365 Settlement Patterns, OR	
Ggr 465 Urban Geography 3	21

Electives: 34 credits
(Selected with the approval of the Director of the Center for Urban and Regional Planning) from Business, Biology, Economics, Geography, Geology, Industrial Technology, History, Political Science, Sociology, Mathematics, Computer Science, Recreation and Parks Administration, Education Administration, Foreign Languages, Planning . . . 34
55 credits

NOTE: Substitutions and waivers allowed at the discretion of the Director of the Center for Urban and Regional Planning.

PLANNING COURSES

PL 350 INTRODUCTION TO PLANNING I (5)

(Same as Ggr 350). Theory, elements, and principles of urban and regional planning.

PL 351 INTRODUCTION TO PLANNING II (5) [350]

(Same as Ggr 351). Legal procedures, the relation of zoning and sub-divisions to the comprehensive plan, and selected research duties related to comprehensive planning

PL 496 PLANNING INTERNSHIP (Arr) [1-10]

Supervised work in a public agency or with a private consultant. Monthly written summary of work done and observations in regard to it. One hour credit for each 4 hours of work per week per quarter done.

PL 497 PLANNING WORKSHOPS (Arr) (1-5) [P]

Special studies, mostly applied, in planning or planning related fields.

PL 498 SEMINAR IN PLANNING (Arr) (1-5) [P]

Special topics.

PL 499 DIRECTED STUDY IN PLANNING (Arr) (1-5) [P]

Applied studies in planning or literature research.

POLITICAL SCIENCE

David S. Bell, Chairman

1971-72 Staff: Durrie, Gohlert, Herold Hossom, Kass, Mahoney, Quincy, Schuster, Wallace, Zimmerman.

As a discipline, political science seeks to understand the political condition and potential of man. To this end the curriculum employed by the Department of Political Science recognizes that man's political capabilities are reflected in varied and continually changing circumstances. It therefore does not attempt to explore all of the political institutions that man has generated and the many historical situations in which these have appeared. Rather, it is considered far more important that the student develop an intellectual ability which will permit him to think carefully, question, analyze, and reach independent judgments about the political content of human relationships in whatever circumstances they may be found. Implicit in such an endeavor is the conviction that the most essential contribution of political science to good societies is the education of citizens in sound intellectual discipline which can be brought to bear on the problems of human existence and the creation of good societies.

Introduction to Political Science Curriculum:

The curriculum is designed to combine basic knowledge of political phenomena with maximum opportunity for pursuit of individual interests. To this

end the curriculum consists of four levels of courses. At the introductory level a battery of three courses, PSc 101, 102, and 103 provide an introduction to political phenomena for the casual student and the prospective major; while PSc 199 and 299 are intended primarily for the non-major who wishes to explore particular aspects of the political process in either a structured or non-structured environment. At the next level PSc 200 is intended to assist the student in understanding the relation between political goals and processes, and to provide an explanation of investigatory techniques for exploring such relation, as well as to provide a basis for further work. Three hundred level courses provide, through the use of lecture, discussion, and assigned readings, in-depth exposure to particular areas touched upon in introductory courses, with materials presented by specialists in the particular area. The 400 level "Topics" courses are designed to allow the student to explore, in seminar situations, particular aspects of the political process which are illustrative of more general themes. Specific topics may vary from quarter to quarter. Other 400 level courses provide an opportunity for advanced work in Political Science methodology, for practical application of knowledge through internships with governmental agencies, and for individual exploration—with the assistance of a professor—of areas of particular interest to the student.

BACHELOR OF ARTS DEGREE

Major in Political Science: 45 credits

- Introductory Requirements (15)
- PSc 101 Political Life 5
- PSc 102 American Politics, OR
- PSc 103 Comparative Politics 5
- PSc 200 Political Man and Political Analysis 5

Electives: 30 credits

(These credits are to be distributed between 300 and 400 level courses. Specifically the student is required to select any three courses at the 300 level together with two of the topics courses at the 400 level. The sixth course may be any course at the 300 or 400 level.) 30
45 credits

Advanced lecture-discussion courses

- PSc 301 Intergovernmental Relations: Subnational Governments
- PSc 302 Civil Liberties
- PSc 303 Law and the Legal Process
- PSc 304 Representation, Public Policy, and Legitimate Authority
- PSc 305 Participation, Conflict, and Change
- PSc 306 The Administrative State
- PSc 307 Theoretical Problems of Modern Politics
- PSc 308 The Foundations of Political Society
- PSc 309 Comparative Political Systems and Developmental Change
- PSc 310 Comparative Foreign Policy
- PSc 311 International Community
- PSc 312 The International System

Selected Topics:

- PSc 401 Topics in the American Political Process
- PSc 402 Topics in the Moral and Philosophic Bases of Politics
- PSc 403 Topics in Comparative Political Systems
- PSc 404 Topics in International Relations
- PSc 405 Topics in Policy and Society
- PSc 406 Topics in Political Explanation

Directed study and field research:

- PSc 299 Special Studies in Political Science
- PSc 496 Public Affairs Internship
- PSc 499 Directed Study in Political Science

Minor in Political Science: 20 credits

- PSc 101 Political Life 5
- PSc 102 American Politics OR
- PSc 103 Comparative Politics 5
- plus two additional courses below the 496 level excluding PSc 199. 10
20 credits

BACHELOR OF ARTS IN EDUCATION DEGREE

The student obtaining a Bachelor of Arts in Education degree who wishes to major or minor in Political Science should refer to the section on Social Science Education beginning on Page for a comparison of the two alternatives.

For the 45 credit major or 20 credit minor the student will be expected to satisfy the appropriate requirements above.

Alternative 2, as explained in Social Science Education, offers a 30 credit or 20 credit component as follows:

Component in Political Science: 30 credits

- Introductory Requirements: 10 credits
- PSc 101 Political Life 5
- PSc 102 American Politics, OR
- PSc 103 Comparative Politics 5

Electives: 20 credits

(These credits are to be distributed between 300 and 400 level courses. PSc 200 need not be taken and PSc 199 will not count for credit). 20
30 credits

Component in Political Science: 20 credits

- Introductory Requirements (as above) 10
- Electives: 10 credits
- (Two additional courses below the 496 level excluding PSc 199. Again, PSc 200 need not be taken) 10
20 credits

POLITICAL SCIENCE COURSES

PSC 101 POLITICAL LIFE (5)

This course is intended to introduce students to the most general and least scientific aspects of the study of politics. We shall attempt to make the student aware of the impact of commonplace notions as law, institutions, authority, the state, etc. In particular we think it important that the student leave the course with a thorough commonsense grounding in the linkages between politics and human values.

PSC 102 AMERICAN POLITICS (5)

An introduction to the structure of American Government and political life with emphasis on values, procedures, institutions, and policies in the context of contemporary problems.

PSC 103 INTRODUCTION TO COMPARATIVE POLITICS (5)

An introduction to concepts, such as state, power, ideology, and political phenomena with an emphasis on similarities and differences in selected political systems.

PSC 199 CONTEMPORARY POLITICAL PROBLEMS (1-5)

A topical course designed to accommodate the interests of the general student and the department faculty. Topics will vary from quarter to quarter and will be listed in the Final Announcement of Classes. Analysis of contemporary problems may be under the guidance of one or more department members. A representative sample might include: Politics and the Ecosystem: A Partnership with Nature?; Revolutionary Movements; Political Extremism; Politics of Poverty; Disaffection and Alienation; and The Politics of Women's Liberation.

PSC 200 POLITICAL MAN AND POLITICAL ANALYSIS (5)

An assessment of alternative approaches to questioning, analyzing, and understanding political phenomena. Through work with several faculty members, students are introduced to three important aspects of political inquiry: (1) problem

recognition and hypothesis formulation, (2) empirical theory and techniques, (3) research in a selected context.

PSC 299 SPECIAL STUDIES IN POLITICAL SCIENCE (1-5)

Subjects studied vary according to faculty and student interest.

NOTE: Course offerings at the 300-400 level are designed to provide maximum flexibility for faculty and students. Consequently, formal prerequisites are not practical. However, students who feel they have insufficient background are advised to consult the instructor.

PSC 301 INTERGOVERNMENTAL RELATIONS: SUBNATIONAL GOVERNMENTS (5)

An analysis of regional and urban politics. Emphasis will be placed upon intergovernmental relations within federal systems and linkage between political values systems, structures, processes, and policy ends.

PSC 302 CIVIL LIBERTIES (5)

The philosophic and legal bases of individual rights and the manner of their protections and/or inhibition by political entities, with particular attention to Supreme Court decisions on selected provisions of the Bill of Rights and the 14th Amendment.

PSC 303 LAW AND THE LEGAL PROCESS (5)

A survey of the role of law in society and the processes by which disputes and ultimately public policy questions are settled through legal-judicial processes. This will include examination of judicial processes from the trial court level through the Supreme Court of the United States.

PSC 304 REPRESENTATION, PUBLIC POLICY, AND LEGITIMATE AUTHORITY (5)

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 will give careful consideration to the relationship between representation, policy, and legitimate authority.

PSC 305 PARTICIPATION, CONFLICT, AND CHANGE (5)

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.

PSC 306 THE ADMINISTRATIVE STATE (5)

This course examines the rise of bureaucracy as the dominant element in the modern nation-state. An attempt will be made to explain the role bureaucracy plays in the state in terms of a general theory of complex organizations, an analysis of the function of a public bureaucracy in developed and underdeveloped countries, and examination of the way in which bureaucracy is viewed in terms of contemporary ideologies.

PSC 307 THEORETICAL PROBLEMS OF MODERN POLITICS (5)

Identification and analysis of a number of conceptual and evaluative issues. Some of the most salient are: (1) the proper role of a citizen in the modern nation state (2) the nature of democracy and totalitarianism (3) the characteristics and appropriate limits of political power (4) the nature of the good society and (5) the question of revolution.

PSC 308 THE FOUNDATIONS OF POLITICAL SOCIETY (5)

The general purposes served by the very existence of government may be grouped under three headings: First, maintenance of the social order; second, enforcement of moral conventions; and third, 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.

PSC 309 COMPARATIVE POLITICAL SYSTEMS AND DEVELOPMENTAL CHANGE (5)

An analytical and comparative analysis of the nature and causes of political change and political stability. Theories of modernization and development, causes and results of revolutions and the impact of social forces on the political order will be emphasized. References will include modern and transitional political systems. A representative sample might include: Comparative Political Analysis; Political Modernization, Comparative Communist Systems; Asian Political Systems; Southeast Asian Political Systems; European Political Systems; and Latin American Political Systems.

PSC 310 COMPARATIVE FOREIGN POLICY (5)

An examination of three major stages of the foreign policy-making process: initiation, implementation, and response. The study will encompass internal and external determinants of policy as well as substantive elements in the foreign policies of selected countries.

PSC 311 INTERNATIONAL COMMUNITY (5)

A study of man's efforts to integrate or coordinate relationships at the international level, including imperialism, international law, and international organization, and the relation of these efforts to world peace.

PSC 312 THE INTERNATIONAL SYSTEM (5)

An analysis of change and its direction in international politics. The historical past is assessed and future possibilities explored. Alternative theories of international behavior are evaluated. Special problems, such as nuclear armaments, coercion, diplomacy, and morality in international politics are examined.

PSC 401 TOPICS IN THE AMERICAN POLITICAL PROCESS (5)

A series of specialized topics covering different elements of the American Political Process, announced individually each quarter in which the course is to be offered. The course is designed to explore varying topics in the area of the American Political Process in some depth and to acquaint the student with the techniques for analyzing the particular area under consideration.

PSC 402 TOPICS IN THE MORAL AND PHILOSOPHIC BASES OF POLITICS (5)

Each of the topics chosen for this course will explore in some depth the fundamental relationship between such common political phenomena as obligation, consent, freedom, law, authority, etc. The course will be so structured that even when the particular topic is quite narrow, its development will touch upon the major nodes in the web of relationships which these phenomena have with one another.

PSC 403 TOPICS IN COMPARATIVE POLITICAL SYSTEMS (5)

An intensive examination of the theories of comparative political analysis, modernization and developmental change. Topics will vary from quarter to quarter and will be listed in the Final Announcement of Courses.

PSC 404 TOPICS IN INTERNATIONAL RELATIONS (5)

Selected topics, depending on student and faculty research interests, will include international law, international organization, and specific problems of the international political system, such as community, communication, and war.

PSC 405 TOPICS IN POLICY AND SOCIETY (5)

An analysis of policy impact with emphasis drawn to action theory, the organization context and problems of political economy.

PSC 406 TOPICS IN POLITICAL EXPLANATION (5)

This course deals with the various ways in which we explain political phenomena. Emphasis is placed upon the process whereby those studying politics construct notions of political reality, especially the interplay between the values of the observer, his selection of phenomena to observe, and the manner in which he goes about his analyses of them.

PSC 496 PUBLIC AFFAIRS INTERNSHIP (5) [p]

Guided field experience designed to acquaint the student with the formation and instrumentation of public policy; involves actual work with a political party, interest group, legislative body or administrative agency.

PSC 499 DIRECTED STUDY IN POLITICAL SCIENCE (1-5) [p]

Projects in selected fields of political science

GRADUATE COURSES

PSC 599 INDEPENDENT STUDY IN POLITICAL SCIENCE (1-5) [p]

Projects in selected fields of political science.

PSYCHOLOGY

Robert W. Atwood, Chairman

1971-72 Staff: C. Allen, Anast, Bachman, Barber, Bell, Buerger, Casey, Christopher, Elton, Fletcher, Fretwell, Gerber, Greene, Harman, Hunsaker, Maier, Malaby, McElvain, McManis, Melchert, Morgenstern, Nyman, Pallister, Patmore, Powers, Pyle, Rosekrans, Sampson, Taylor, Thompson, Walrath

The Department of Psychology has three undergraduate programs: (1) B.A. degree with either a 45 credit or a 60 credit major; (2) B.A. in Education degree for teachers of Psychology in the secondary schools with a 45 credit major and a minor expanded to 30 hours; and (3) B.A. in Education degree with a 31 credit Child Development major for teachers of young children or a 46 credit major for Teachers of Exceptional Children.

The M.S. degree in Psychology provides preparation programs for college teachers, psychological examiners, institutional and clinical personnel, research workers and preparatory study prior to a doctoral program.

The M.S. degree in School Psychology prepares students for certification to serve in elementary and secondary schools.

BACHELOR OF ARTS DEGREE

Major in Psychology: 45 credits

- Psy 201 Scientific Principles of Psychology5
- Psy 310 Descriptive Statistics5
- Psy 315 Conditioning and Learning5
- Psy 325 General Experimental Psychology5
- Psy 355 Psychology of Childhood and Adolescence . . .5

- Choice of one:
- Psy 350 Psychology of Adjustment OR
 - Psy 357 Abnormal Psychology5
 - Electives in Psychology (Psy 101 and 302 excluded)15
- 45 credits

Major in Psychology: 60 credits

- Requirements listed in the above major45
 - Psy 311 Statistical Inference5
 - Psy 320 Biological Basis of Behavior5
 - Psy 404 Theories of Personality5
- 60 credits

Minor in Psychology: 15 credits

- Choice of 15 credits in Psychology (Psy 101 and 302 excluded)

BACHELOR OF ARTS IN EDUCATION DEGREE

SECONDARY EMPHASIS

A 45-credit hour major in the Bachelor of Arts in Education degree may be obtained in conjunction with a minor expanded to 30 hours in a subject matter area commonly taught in the high schools. Approval must be obtained for minor programs from the Chairman of the Psychology Department. Methods courses must be taken in both Psychology and the minor areas.

Requirements for a 45-credit Major in Psychology (Secondary) are the same as the requirements for the 45-credit B.A. Major.

BACHELOR OF ARTS IN EDUCATION DEGREE

ELEMENTARY EMPHASIS

The program given below is designed to prepare teachers for nursery school, kindergarten, grades 1 through 4.

Major in Psychology (Child Development) (Elementary): 31 credits

- Psy 201 Scientific Principles of Psychology5
- Psy 202 Introduction to Development and Learning 4
- Psy 355 Psychology of Childhood and Adolescence 5



TALKING IT OVER

Psy 356 Field Analysis of Behavior of Children . . .	2
Psy 363 Psychology of Exceptional Children . . .	4
Psy 403 Psychology of Individual Differences . . .	3
Psy 468 Tests, Measurements, and Evaluation . . .	5
Psy 498 Seminar (in specialized area)	3
	<hr/>
	31 credits

EXCEPTIONAL CHILDREN EMPHASIS

To receive certification endorsement to teach exceptional children, a student must complete the following major and a minor outside the area of concentration. A minor in reading is suggested or courses in reading—Ed 490 and 494 are recommended.

Major for teachers of exceptional children: 46 credits

Students will complete the Child Development	
Major listed above	31
Psy 405 Psychology of the Mentally Retarded . . .	4
Psy 406 The Socially-Emotionally Disturbed Child	4
Ed 407 Education of Exceptional Children I . . .	4
Ed 408 Education of Exceptional Children II . . .	3
	<hr/>
	46 credits

Minor in Psychology (Secondary and Elementary):

Choice of 15 credits in Psychology (Psy 101 and 302 excluded)

PSYCHOLOGY COURSES

Prerequisites are listed to reflect the level of course presentations. They may be waived by the instructor concerned.

PSY 101 GENERAL PSYCHOLOGY (5)

A survey of the objectives and principles employed in the study of behavior.

PSY 180 APPLIED PSYCHOLOGY (4)

The application of the science of psychology.

PSY 201 SCIENTIFIC PRINCIPLES OF PSYCHOLOGY (5)

The study of the basic data, methodology, and attitudes of the psychologist independent of any special area.

PSY 202 INTRODUCTION TO DEVELOPMENT AND LEARNING (4) [201]

A study of principles of learning and development with emphasis on their application to young children.

PSY 298 SPECIAL (GROUP) STUDIES IN PSYCHOLOGY (Arr)

Subjects vary according to faculty and student interest.

PSY 299 SPECIAL (INDIVIDUAL) STUDIES IN PSYCHOLOGY (Arr)

Subjects vary according to faculty and student interest.

PSY 301 ANALYSIS OF BEHAVIOR (5) [201]

The methods and concepts of free operant research with lower animals and humans including laboratory experience with the methods and concepts studied.

PSY 302 EDUCATIONAL PSYCHOLOGY (5) [Ed 201; Psy 101 recom.]

Principles of learning and development as applied to improvements of classroom instruction.

PSY 310 DESCRIPTIVE STATISTICS (5)

Quantitative descriptions of experiments and observations.

PSY 311 STATISTICAL INFERENCE (5) [310]

Reliability of observed differences and relationships.

PSY 315 CONDITIONING AND LEARNING (5) [201]

Overview of the phenomena, data and terminology used in the study of learning.

PSY 320 BIOLOGICAL BASIS OF BEHAVIOR (5) [201]

A study of the organic foundations of behavior.

PSY 325 GENERAL EXPERIMENTAL PSYCHOLOGY (5) [201, 310]

Introduction of Psychology as an experimental science through the study of several areas of contemporary research.

PSY 330 HUMANISTIC PSYCHOLOGY (4) [Jr. recom.]

The study of the assumptions, research methods, and research products of the humanistic or existential position in psychology.

PSY 350 PSYCHOLOGY OF ADJUSTMENT (5)

The nature of personality and conditions of adjustment.

PSY 355 PSYCHOLOGY OF CHILDHOOD AND ADOLESCENCE (5)

Mental, physical, social, and emotional development from infancy through adolescence.

PSY 356 FIELD ANALYSIS OF BEHAVIOR OF CHILDREN (2)

Objective analysis of young children's behavior in pre-school and school situations and interpretation of data for teaching research, and guidance purposes.

PSY 357 ABNORMAL PSYCHOLOGY (5)

The development of concepts especially useful in dealing with exceptional and disordered cases.

PSY 363 PSYCHOLOGY OF EXCEPTIONAL CHILDREN (4)

Overview of the identification and study of characteristics of the atypical child.

PSY 390 PSYCHOLOGY IN THE SECONDARY SCHOOLS (3) [p]

The teaching of psychology in the secondary schools. Program methods and materials.

PSY 398 SPECIAL (GROUP) STUDIES IN PSYCHOLOGY (Arr)

Subjects vary according to faculty and student interest.

PSY 399 SPECIAL (INDIVIDUAL) STUDIES IN PSYCHOLOGY (Arr)

Subjects vary according to faculty and student interest.

PSY 401 ADVANCED ANALYSIS OF BEHAVIOR (5) [301] [310, 325 recom.]

An advanced treatment of four components necessary for an in-depth understanding of the principles involved in the analysis of behavior. The components are (a) method, (b) theory, (c) selected content, (e.g., punishment) and (d) laboratory.

PSY 403 PSYCHOLOGY OF INDIVIDUAL DIFFERENCES (3)

The empirical evidence of individual and group differences.

PSY 404 THEORIES OF PERSONALITY (5)

An objective and comprehensive study of the major theories of personality.

PSY 405 PSYCHOLOGY OF THE MENTALLY RETARDED (4) [363]

Mental retardation is examined from the biological, psychological, educational, and sociological viewpoints.

PSY 406 THE SOCIALLY-EMOTIONALLY DISTURBED CHILD (4) [355]

Personality deviations found in childhood and adolescence. Neuroses, psychoses, defense mechanisms, diagnostic nomenclature, treatment, strategies, and social factors related to childhood psychopathology.

PSY 412 TECHNIQUES OF DATA ANALYSIS WITH COMPUTER APPLICATIONS (5) [311]

Techniques of hypothesis testing using linear regression models. Emphasis is placed on the similarity of various inferential tests of significance and on model construction.

PSY 415 SENSATION AND PERCEPTIONS (5) [201, 320, 325]

Data, methods, phenomena and theoretical interpretations regarding sensory and perceptual limits and organizations.

PSY 440 ANIMAL BEHAVIOR (5) [201, 320 or p]

The study of the behavior of animals, including man, in relation to their natural environment. The course utilizes an ethological viewpoint which emphasizes evolutionary and ecological mechanisms and social behavior. Includes laboratory and field studies.

PSY 468 TESTS, MEASUREMENTS, AND EVALUATION (5) [p]

Survey, development, and analysis of educational and psychological tests.

PSY 470 TEST CONSTRUCTION (5) [310, 311]

Theory and technical aspects of psychological and educational tests and their construction.

PSY 481 SOCIAL PSYCHOLOGY (5)

The study of behavioral dependence and interdependence among individuals.

PSY 482 SOCIAL PSYCHOLOGY OF INTERPERSONAL BEHAVIOR (5) [201 or p]

Systematic observation and analysis of human interaction in the context of theory and research on interpersonal relationships.

PSY 494 SPECIAL (GROUP) STUDIES IN PSYCHOLOGY (Arr)

Subjects vary according to faculty and student interest.

PSY 497 WORKSHOPS, SHORT COURSES, CONFERENCES**PSY 498 SEMINAR (arr)**

(See Psy 511)

PSY 499 DIRECTED STUDY IN PSYCHOLOGY (1-5) [P]**GRADUATE COURSES****PSY 501 HISTORY AND SYSTEMS OF PSYCHOLOGY (5)**

The nature of psychology examined in historical perspective. The evaluation of key concepts in various branches of psychology and their relationship in contemporary systems.

PSY 502 THEORIES OF LEARNING (5)

An objective and comprehensive study of the major theories of learning.

PSY 503 APPLIED LEARNING THEORY AND BEHAVIOR MODIFICATION (3) [301 or p]

Applied learning theory, methodology, and research paradigms will be defined and their inter-theory, inter-subject, and inter-problem solving relevance demonstrated.

PSY 504 THEORIES OF HUMAN DEVELOPMENT (5)

A comprehensive study of major theories of Human Development in which developmental processes and issues emphasized by different theories are described and compared.

PSY 505 MOTIVATION AND EMOTION (5)

A comprehensive study of the theories and concepts of motivation and emotion.

PSY 511 SEMINAR (Arr)

Current problems in psychology. The subject matter will vary according to the needs and interests of students.

PSY 515 ADVANCED EDUCATIONAL PSYCHOLOGY (4)

The relevance of psychological theory to educational practice as applied to learning, development and evaluation.

PSY 518 PROBLEMS IN CHILD DEVELOPMENT (4)

A study of special problems in child development.

PSY 519 PROBLEMS OF ADOLESCENCE (4)

A study of special problems of this development period.

PSY 520 TACTICS OF PSYCHOLOGICAL RESEARCH (5)

A critical analysis of research methodologies and psychology. Emphasis is placed on developing student skills in asking and answering sound research questions.

PSY 522 ADVANCED STATISTICS (5) [311]

Statistical theory, interpretations, and procedures which are especially valuable to workers in education, psychology, and related fields.

PSY 530 EXPERIMENTAL PSYCHOLOGY (5) [201, 310, 311, 325]

Techniques in planning, conducting, interpreting, and reporting experimental data and laboratory research.

PSY 534 PHYSIOLOGICAL PSYCHOLOGY (5)

The relationships between physiological processes and behavior.

PSY 535 ADVANCED ANIMAL BEHAVIOR (5) [p]

The synthesis of comparative psychology and ethology. An in-depth examination of the influence of ecological and evolutionary mechanisms on the behavior of animals, including man.

PSY 539 SEMINAR IN SPECIAL TOPICS (Arr)**PSY 540 INDUSTRIAL PSYCHOLOGY (5)**

Job analysis; selection, training, and work conditions of employees; relations of workers to each other, to the community, and to consumer public.

PSY 541 GROUP PROCESSES (3) [p]

The purposes of this course are to enable the student to observe and analyze group interaction and relate resulting data to existing research and theory, and to influence in purposeful ways group interaction in which he participates.

PSY 544 COUNSELING TECHNIQUES (4)

Study and practice of counseling methods.

PSY 545 ADVANCED APPRAISAL TECHNIQUES (4) [468 or 470, & p]

The administration, scoring, and interpretation of standardized tests and batteries.

PSY 550 CLINICAL PSYCHOLOGY (4) [p]

An examination of clinical psychology including its history, content and methodology.

PSY 551 FOUNDATION OF PSYCHOTHERAPY (4) [p]

An examination of the main types of psychological treatment with emphasis upon those which primarily rely on verbal exchanges between the counselee and the therapist.



PATTERSON SILHOUETTES

100—RADIO-TELEVISION

- PSY 553 PROBLEMS IN MENTAL RETARDATION (4) [405 or p]**
A study of special problems in the field of mental retardation.
- PSY 554 INDIVIDUAL INTELLIGENCE TESTING (3) [470 & p]**
An introduction to available instruments for assessing intelligence.
- PSY 555 CLINICAL PRACTICE IN INDIVIDUAL INTELLIGENCE TESTING (3) [554 & p]**
Administration, scoring and writing of psychological reports . . . Stanford Binet, W.I.S.C. and the W.A.I.S.
- PSY 556 PROJECTIVE TECHNIQUES (4) [470 & p]**
An introduction to the administration, scoring, and interpretation of projective tests.
- PSY 557 CLINICAL PRACTICE IN PERSONALITY TESTING (4) [556]**
Supervision of practice testing with projective techniques and other measures of personality.
- PSY 594 PRACTICUM (Specialized Areas) (2-4)**
Supervised experience of a clinical or counseling nature in service areas.
- PSY 595 PRACTICUM FOR SCHOOL PSYCHOLOGISTS (8)**
Experience under supervision in selecting, administering, and scoring of tests. Opportunities for diagnosis, counseling, evaluation, and reporting.
- PSY 596 COLLEGE TEACHING INTERNSHIP (1-5) [P]**
Teaching of a lower division college course under supervision of a regular faculty member. Includes course planning, arranging bibliographical and other instructional aids, conferences with students, experience in classroom instruction, and student and course evaluation.
- PSY 597 INTERNSHIP IN PSYCHOLOGY (16)**
Internship experience of no less than 9 months of professional supervised training in some approved agency or institution. The period of internship will commence on the date it is approved by the department chairman and no internship credit will be granted retroactively.
- PSY 599 INDEPENDENT STUDY IN PSYCHOLOGY (1-5) [P]**
- PSY 600 THESIS (6-9) [Below]**
A bound research study conducted as partial fulfillment of a Master's degree under the direction of a graduate committee. Prereq: Permission of the graduate research chairman and department chairman.
- PSY 601 RESEARCH PROJECT (6-9) [Below]**
A research study in lieu of a bound thesis conducted as partial fulfillment of a Master's degree under the direction of a graduate committee. Prereq: Permission of the graduate research chairman and department chairman.

RADIO TELEVISION

Howard Hopf, Chairman
1971-72 Staff: Boles, Cary

The department of Radio-Television provides a curriculum leading to the Bachelor of Arts degree. Both major and minor programs are offered. A minor is also provided under the Bachelor of Arts in Education program.

All majors in Radio-Television must pass, by the end of their third quarter in the program, a proficiency typing test of 30 words per minute without errors.

BACHELOR OF ARTS DEGREE

Major in Radio-Television: 60 credits

CORE: 32 credits

- RTV 100 Introduction to R-TV Broadcasting4
- RTV 312 R-TV Traffic, Scheduling and Billing2
- RTV 323 R-TV News3
- RTV 350 Legal Responsibilities and Regulations in Communication Media3
- RTV 400 Modern Advertising Methods5
- RTV-410 Programming the Modern Stations5

- RTV 421 R-TV Commercial Writing5
 - RTV 460 Communication Research and Evaluation5
- 32 credits

Option 1 (Radio-Television News): 28 credits

- RTV 200 R-TV Announcing and Performance Techniques5
 - RTV 324 R-TV News3
 - RTV 370, 371 Television Newsfilming and Editing (5 each)10
 - RTV 425 R-TV News5
 - RTV 472 Television Newsfilming and Editing5
- 28 credits

Required Supporting Courses for R-TV News: 29 credits

- Eco 201 Introduction to Economics I5
 - PSc 102 American Politics5
 - PSc 301 Intergovernmental Relations: Sub-national Governments5
 - PSc 401 Topics in the American Political Process5
 - Phy 350 Elements of Photography5
 - Phy 351 Advanced Photography4
- 29 credits

Option 2 (Radio-Television Management): 28 credits

- RTV 313 Television Directing and Producing3
 - RTV 322 R-TV Promotion and Public Relations3
 - RTV 330 R-TV Sales and Merchandising3
 - RTV 405 Motion Picture Film, Syndicated Film and Tape Buying2
 - RTV 420 Problems of the Station Manager and Program Director2
 - RTV 440 Educational R-TV3
 - RTV 499 Directed Study in R-TV3
 - Bus 261 Business Law5
 - Bus 310 Principles of Marketing4
- 28 credits

Required Supporting Courses for R-TV Management: 30 credits

- Psy 180 Applied Psychology4
 - Bus 272 Business Communications4
 - Eco 201, 202 Introduction to Economics I, II (5 each)10
 - SpC 305 Interpersonal Communication for Business and the Professions3
 - Phy 350 Elements of Photography5
 - Bus 390 Consumer Economics4
- 30 credits

Minor in Radio-Television: 15 credits

- RTV 100 Introduction to R-TV Broadcasting4
 - RTV 312 R-TV Traffic, Scheduling and Billing2
 - RTV 322 R-TV Promotion and Public Relations3
 - RTV 421 R-TV Commercial Writing5
 - RTV 499 Directed Study in R-TV1
- 15 credits

BACHELOR OF ARTS IN EDUCATION DEGREE

Minor in Radio-Television: 15 credits

- RTV 100 Introduction to R-TV Broadcasting4
 - RTV 400 Modern Advertising Methods5
 - RTV 440 Educational R-TV3
 - Electives3
- 15 credits

RADIO-TELEVISION COURSES

RTV 100 INTRODUCTION TO RADIO-TELEVISION BROADCASTING AND TECHNICAL EQUIPMENT OPERATION (4)

Background of broadcasting AM, FM, TV, Carrier-Current and Closed-Circuit TV operation; station personnel and duties, program types, station coverage, ratings and general FCC information.

RTV 200 RADIO-TELEVISION ANNOUNCING AND PERFORMANCE TECHNIQUES (5) [100]

Selling with the voice, interview, and discussion techniques. Community responsibilities of the on-the-air personality, planning the musical portion of the program and FCC-required record-keeping.

RTV 312 RADIO-TELEVISION TRAFFIC, SCHEDULING, AND BILLING (2) [100]

Station program and commercial scheduling, program and engineering log record keeping, station billing procedures, discount, make-goods, preemptions, commercial separation, and protection, affidavits, contracts and working relationship with advertising agencies and the local radio-television sales force.

RTV 313 TELEVISION DIRECTING AND PRODUCING (3) [100, 410]

Experience in directing and producing "local type" television shows, development of programs, set design and construction, lighting, special effects and camera positioning; directing, as practiced by small and medium market television stations, involving the integrating of commercials, network programs, local programs, film, tape, etc.

RTV 322 RADIO-TELEVISION PROMOTION AND PUBLIC RELATIONS (3) [p]

(Same as Jrn 322) Methods and techniques of promotion and public relations. Program and personality promotion, costs, involvement in community affairs, use of direct mail, billboards, on-the-air promotion, open house, trade magazines, etc.

RTV 323 RADIO-TELEVISION NEWS (3)

A beginning course in R-TV news writing style, recognition and judgment of news, practical application, news gathering, writing and reporting. News construction and continuity.

RTV 324 RADIO-TELEVISION NEWS (3) [323, p]

An extension of RTV 323. Television news and news film scripting, news film techniques, video news recognition and market differences and libel and slander law as it affects the news.

RTV 330 RADIO-TELEVISION SALES AND MERCHANDISING (3) [p]

Emphasis on local sales, the use of rating as a sales tool. Sales approaches and techniques, role playing, a study of food broker organizations, grocery store, product distribution, marketing and merchandising techniques and practices. The use of contests, prizes, displays and an analysis of broadcasting sales management.

RTV 350 LEGAL RESPONSIBILITIES AND REGULATIONS IN COMMUNICATION MEDIA (3) [p]

(Same as Jrn 350) A comprehensive study of federal laws, regulations, and decisions. The Communications Act, Federal Trade Commission, rules and regulations of the FCC, cases, decisions, and opinions. Copyright law, freedom of press, privilege, libel, invasion of privacy, etc.

RTV 370 TELEVISION NEWS FILMING AND EDITING (5) [Phy 350 or 351, p]

A beginning course in 16 mm filming for TV news, features, and sports. Use of 16 mm cameras, film processor, splicer and raw film. Picture composition and news value.

RTV 371 TELEVISION NEWS FILMING AND EDITING (5) [370, p]

An extension of RTV 370. Daily filming and editing assignments and preparation of news film scripts. Introduction to sound filming, editing, timing and dupes.

RTV 399 SPECIAL STUDIES IN RADIO-TV (1-3)

Subjects studied vary according to faculty and student interest.

RTV 400 MODERN ADVERTISING METHODS, PRODUCTION AND ADVERTISING AGENCY OPERATIONS (5) [p]

(Same as Jrn 400) Production of ads of newspapers, magazines, outdoor and special media. Time and space buying, art selection, role of the account executive, new business presentations and the relationship of the agency to the client.

RTV 405 MOTION PICTURE FILM, SYNDICATED FILM AND TAPE BUYING (2) [p]

Buying and procurement of films and tapes. Producers and distributors, contracts, costs, residuals, mailing, discounts, sales, legal responsibilities, etc.

RTV 410 PROGRAMMING THE MODERN RADIO AND TELEVISION STATIONS (5) [100, 350]

The role of news and weather programs, syndicated film, live

programs, music, sports, special events, the network, and balanced programming to satisfy FCC requirements. Local program development techniques.

RTV 420 PROBLEMS OF THE STATION MANAGER AND PROGRAM DIRECTOR (2) [100, 350, 410]

A study and analysis of the many problems that confront station managers and program directors. Personnel, sales, programming, public and political pressure.

RTV 421 RADIO-TELEVISION COMMERCIAL WRITING (5) [100]

(Same as Jrn 421) Writing in the oral style. A study of psychological approaches to commercial writing. Emphasis will be on commercials for local sponsors and the scripting of formats for local programs.

RTV 425 RADIO-TELEVISION NEWS (5) [324, p]

An extension of RTV 324. In-depth reporting, feature writing, editorial responsibility, news management and direction, directing the modern radio and/or TV news operation, personnel duties and responsibilities.

RTV 440 EDUCATIONAL RADIO-TELEVISION TEACHING TECHNIQUES AND PRODUCTION (3) [p]

An introductory course for professional and student teachers; oral and visual techniques involved in educational television, course and lesson planning, set design and production techniques; outlining and writing the educational television program, classroom visitations and grading.

RTV 460 COMMUNICATIONS RESEARCH AND EVALUATION (5) [p]

(Same as Jrn 460) A study and analysis of techniques employed in communication research, such as: motivational semantic differential, recall, diary, telephone and personal interview. Sampling theory, questionnaire design, tabulation, data analysis, report writing and oral presentation of findings.

RTV 472 TELEVISION NEWSFILMING AND EDITING (5) [371, p]

An extension of RTV 371. Project study and achievement in documentary news film and the TV news film special. Industrial and promotional filming. Judgment and responsibilities to the audience. Daily filming assignments.

RTV 490 RADIO-TELEVISION STATION INTERNSHIP (5-15) [Maj, staff recommended]

An opportunity for superior students to get on-the-air experience in commercial radio and television stations, advertising agencies and public relations.

RTV 497 WORKSHOPS, SHORT COURSES OR CONFERENCES**RTV 498 CREATIVE ARTS SUMMER PROGRAM LABORATORY (1-3)—Su****RTV 499 DIRECTED STUDY IN RADIO-TELEVISION (1-5) [Jr, P before reg.]**

Adapted to individual needs of the student. Maximum of nine credits allowable.

GRADUATE COURSES**RTV 550 SEMINAR: RADIO-TELEVISION (3)**

Advanced group study and discussion of topics selected for each seminar.

RTV 596 COLLEGE TEACHING INTERNSHIP (1-5)

Teaching of a lower division college course under supervision of a regular faculty member. Includes course planning, arranging bibliographical and other instructional aids, conferences with students, experience in classroom instruction and student and course evaluation.

RTV 599 INDEPENDENT STUDY IN RADIO-TELEVISION (1-5) [P before reg.]

Projects in a selected field of radio-television.

Recreation & Park Administration
See Physical Education

SOCIAL SCIENCE EDUCATION

Edward Hamblin, Coordinator

BACHELOR OF ARTS DEGREE

Neither major nor minor (area of study) in Social Sciences available under the Bachelor of Arts Degree program.

BACHELOR OF ARTS IN EDUCATION

Preparation for teaching Social Sciences in junior and senior high schools.

No secondary Social Science major (Anthropology, Economics, Geography, History, Political Science or Sociology) or minor may be taken in combination outside of the Social Science field.

All secondary majors are required to take SSc 390. History 460 is required of all elementary and secondary majors in the Social Sciences.

Alternative Programs

Alt. 1: The student will complete a 45-credit departmental major from one of the following academic areas: Anthropology, Economics, Geography, History, Political Science, or Sociology. (See the appropriate sections of the catalog for requirements).

The student will also complete a minor in History unless the major is History. If the major is History the minor will be chosen from one of the following academic areas: Anthropology, Economics, Geography, Political Science, or Sociology.

In addition the student will choose 5 credits from each academic area in which the student has not chosen his departmental major and minor.

Alt. 2: The student may choose a 30-credit hour component from one of the academic areas listed in Alternate 1, a 30-credit hour component from a second field and a 20-credit hour component from a third field. One of these three fields must be History.

Specific requirements of the 30, 30, 20 program are listed in the appropriate departmental sections of the catalog.

This proposal is designed to allow Social Science advisers to more adequately meet the needs of students in terms of their interest and role in the teaching of Social Sciences.

Preparation for teaching Social Sciences at the primary and intermediate levels.

The student will select two departmental minors from among the following academic areas: Anthropology, Economics, Geography, History, Political Science, or Sociology. (See the departmental section of the catalog for requirements.)

In addition the student will select 5 credits from each academic area in which the student has not chosen his two minors.

Minor in the Social Sciences (Middle School or Junior High): 28 credits

(This minor must be approved by the Coordinator for Social Science Education)

Choice of two of the following:	10
Eco 201 or 301 Introduction Economics I	5
Ggr 360 Human Geography	5
PSc 102 American Politics	5
Soc 161 or 361 Principles of Sociology	5
Ant 241 or 341 Anthropology	5
Choice of two: His 101, 102, 103, 107, 108, 109 . . .	10
Two U.S. History courses OR	
Choice of two: Ggr 214, 331, 332, 435, 458, 459 . . .	8
	<u>28 credits</u>

Fifth-Year Programs—All Levels

The student should undertake in consultation with adviser to develop a program of studies in areas in which teaching experience indicates a need for concentration or expansion.

SOCIAL SCIENCE COURSES

SSC 390 SOCIAL SCIENCE IN THE SECONDARY SCHOOL (4) [2.00 & p]

The social science program for secondary schools. Objectives, curricula, teaching materials, and techniques.

SSC 490 SOCIAL STUDIES IN THE PUBLIC SCHOOLS (4) [Sr & Exp; or p] —Su

An examination of the objectives, curricula, teaching materials, and techniques and methods of the social studies.

SSC 497 SOCIAL SCIENCE WORKSHOPS

SSC 498 SEMINAR

SSC 499 DIRECTED STUDY IN SOCIAL SCIENCES [P]

GRADUATE COURSES

SSC 521 BIBLIOGRAPHY AND RESEARCH METHODS IN THE SOCIAL SCIENCES (5)

The identification, location, and exploitation of resource materials: an introduction to such research methods as the case study, historical, descriptive—survey, and experimental studies, and organizing and writing research reports. May serve as an alternate to Ed 520, Methods of Educational Research, for social science instructional field majors.

SSC 599 INDEPENDENT STUDY IN SOCIAL SCIENCE [P]

SOCIOLOGY

Also Anthropology, Social Work

Alfred J. Prince, Chairman

1971-72 Staff: Chertok, Christopher, Connor, Hashmi, Houseworth, Kabat, Keller, Keyser, Koyle, Lapoint, Moynahan, Perdue, Rich, Ross, Stephens, Stewart, Strange, Throckmorton

ANTHROPOLOGY

BACHELOR OF ARTS DEGREE

Major in Anthropology: 45 credits

Ant 241 Cultural Anthropology	5
Ant 343 Old World Prehistory, OR	
Ant 447 Archeology of North America	5
Ant 345 Physical Anthropology	5
Ant 498 Departmental Seminar in Anthropology	3
Electives in Anthropology	27
	<u>45 credits</u>

In addition majors are required to take Soc 101 Introduction to Sociology (5) and Ggr 214 Physical Geography (5) or Ggr 360 Human Geography (5), or their equivalents. Majors will be required to complete three quarters of foreign language or their equivalent. Majors should also consult departmental advisers for guidance in the selection of elective courses outside Anthropology and in the selection of a minor.

Minor in Anthropology: 15 credits

Ant 241 Cultural Anthropology (or equivalent)	5
Credits of upper-division Anthropology	10
	<u>15 credits</u>

Students who plan to become candidates for advanced degrees are advised to complete two years of a foreign language.

BACHELOR OF ARTS IN EDUCATION DEGREE

The 45-credit major or 15-credit minor in anthropology is available as a choice in the Social Science Bachelor of Arts in Education program. See page 102)

Requirements for the 45-credit major and a 15-credit minor in Anthropology under the Bachelor of Arts in Education degree are the same as for the Bachelor of Arts degree with the exception that supporting courses are not required for the major for the BA in Education degree.

Anthropology requirement for the alternative 30-30-20 Social Science program:

Cultural Anthropology, Ant 241, will be the only required course under either the 30 or 20 hour programs. The balance will consist of electives in Anthropology.

ANTHROPOLOGY COURSES

ANT 241 CULTURAL ANTHROPOLOGY (5) [Soc 101; Psy 101 desirable]

An introduction to the study of man with principal emphasis on culture.

ANT 341 GENERAL ANTHROPOLOGY (5)

An introductory course covering both physical and cultural anthropology. Intended primarily for upper-division non-majors, fifth year, and graduate students. Credit cannot be counted in both Ant 241 and 341.

ANT 342 PRIMITIVE SOCIETIES (5) [241 or 341]

Comparative studies of selected primitive or preliterate societies and an examination of their cultures.

ANT 343 OLD WORLD PREHISTORY (5) [241 or 341]

An introduction to European and Middle-Eastern Prehistory with a secondary emphasis on Africa and Asia.

ANT 345 PHYSICAL ANTHROPOLOGY (5)

An introduction to the origin, evolution, and distribution of man.

ANT 441 CULTURE, SOCIETY, AND PERSONALITY (5) [Below]

(Same as Soc 441) Synthesis of research, theory, and methodology concerning basic behavior and interactional concepts of culture, society, and personality. Prereq: At least five hours each in sociology, anthropology, and psychology.

ANT 442 ETHNOLOGY OF LATIN AMERICA (5) [241 or 341]

An ethnographic survey of contemporary cultures of Central and South America, including both aboriginal and peasant societies.

ANT 443 ETHNOLOGY OF AFRICA (5) [241 or 341]

A comparative view of selected societies of sub-Saharan Africa.

ANT 446 INDIANS OF NORTH AMERICA (5) [241 or 341]

A comparative overview of distinctive Indian cultures. Opportunities for individual research provided.

ANT 447 ARCHEOLOGY OF NORTH AMERICA (5) [241 or 341]

The Pre-Columbian history of America north of the Valley of Mexico.

ANT 448 PEASANT SOCIETIES (5) [241 or 341]

Analysis of relationships between communities and inclusive political structures.

ANT 449 MAJOR CIVILIZATIONS OF ASIA (5) [241 or 341]

An ethnographic survey of China, Islam, and India, emphasizing the core values of each.

ANT 450 CULTURAL ECOLOGY (5) [241 or 341]

Evaluations of cultural and ecological determinants.

ANT 451 SOCIAL STRUCTURE (5) [241 or 341]

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.

ANT 452 ARCHEOLOGICAL FIELD TECHNIQUES (5) [241 or 341]

Archeological theory and method with emphasis on excavation procedures and skills and laboratory analysis. Opportunity for limited field experience.

ANT 453 ETHNOLOGY OF OCEANIA (5) [241 or 341]

An ethnographic survey of Polynesia, Melanesia, and Micronesia.

ANT 454 THE ANTHROPOLOGY OF RELIGION (5) [241 or 341]

Religion as viewed by Anthropology, in both urban cultures and smaller nonurban groups. Primary emphasis is on non-western cultures.

ANT 455 ARCHEOLOGY OF MESO-AMERICA (5) [241 or 341]

The Pre-Columbian history of Mexico, Central America and Western South America.

ANT 497 WORKSHOP (1-5) [p]

Special short term programs of varying content, usually involving field work problems.

ANT 498 DEPARTMENTAL SEMINAR (3) [p]

Readings and evaluations in the history and theory of anthropology.

ANT 499 DIRECTED STUDY (1-5) [P]

Independent study in selected areas of anthropology.

SOCIAL WORK

BACHELOR OF ARTS DEGREE

This degree is intended for students who wish (1) to prepare for advanced professional education in social work, (2) to enter the employment of social agencies which require only a bachelor's degree, or (3) to include social welfare content in their baccalaureate preparation.

For these purposes a preprofessional program which emphasizes the social and behavioral sciences including recommended courses in humanities and natural sciences is offered.

Major in Social Work: 75 credits

Ant 241 Cultural Anthropology	5
Soc 101 Introduction to Sociology	5
Soc 263 Social Problems	5
SW 373 Social Welfare as an Institution	5
SW 473 Introduction to Social Casework	5
SW 475 Field Experience in Social Welfare	2
SW 480 Social Legislation	5
SW 483 Research Methods in Social Welfare	5

Thirty-eight (38) additional credits from courses numbered 300 and above to meet departmental recommendations and student needs and interest, chosen approximately as follows:

Humanities, foreign languages, or natural sciences	5
Psychology	15
Social Sciences	18

(A student must elect courses from a minimum of 3 of the following fields: History, Political Science, Economics, Sociology and Anthropology)

75 credits

Minor in Social Work: 15 credits

Courses to be selected from among the following:
SW 373, 450, 473, 480, 483, 484, 496

Neither Major nor Minor available in Bachelor of Arts in Education.

SOCIAL WORK COURSES

SW 373 SOCIAL WELFARE AS AN INSTITUTION (5) [Jr or p]

Analysis of social welfare as a social institution; study of society's structure and its relationship to meeting social welfare needs.

SW 399 SPECIAL STUDIES AND PROGRAMS IN SOCIOLOGY (Arr) [P]

SW 450 PRINCIPLES OF INTERVIEWING (4) [Jr or p]

(Same as Soc 450) The principles and practices of interviewing. Analysis of interviewing techniques employed in social science research, including casework, group work, community organization, correctional work, and related areas. Guided practice in interviewing.

SW 473 INTRODUCTION TO SOCIAL CASEWORK (5) [373 or p]

An orientation to casework processes and practices.

SW 475 FIELD EXPERIENCE IN SOCIAL WELFARE (2) [373]

Placement in community, public, and private social welfare agencies for supervised periods in combination with scheduled class meetings; classroom discussion of social welfare programs and problems encountered in agency assignment.

SW 480 SOCIAL LEGISLATION (5) [373]

A survey of social legislation as it affects public policy and administration at local, state and federal levels relative to social welfare.

SW 483 RESEARCH METHODS IN SOCIAL WELFARE (5) [373]

Examination of research methodology in social welfare; problem formulation; selected statistical concepts; collection, analysis, and presentation of social welfare data.

SW 484 SOCIOLOGY OF AGING (4) [101]

(Same as Soc 484) Analysis of demographic and institutional patterns, social roles, and emotional and physiological changes associated with aging.

SW 496 CHILD WELFARE PROGRAMS (5) [373 or p]

The functions and purpose of child welfare programs, public and private; child welfare legislation; trends in child welfare services.

SW 497 WORKSHOPS, SHORT COURSES, OR CONFERENCES (1-5)

Short duration programs of contemporary significance in societal-cultural behavior areas. The range and scope of topics will be essentially inter-disciplinary, and students from all academic areas will be eligible to participate.

SW 498 DEPARTMENTAL SEMINAR (3)

Readings and evaluations in contemporary issues in social welfare. May be repeated once for credit.

SW 499 DIRECTED STUDY IN SOCIAL WORK (1-5) [P]

Independent study in selected areas of social work. Open to seniors and graduate students from any department.

GRADUATE COURSES

SW 599 INDEPENDENT STUDY IN SOCIAL WORK (Arr) [P]

SOCIOLOGY

BACHELOR OF ARTS DEGREE

Major in Sociology: 45 credits

Soc 101 Introduction to Sociology	5
Soc 331 History of Sociological Thought	5
Soc 356 Introduction to Social Statistics	5
Soc 357 Methods of Social Science Research	5
Electives in Sociology	25
	<u>45 credits</u>

Required supporting courses: 30 credits

Electives from courses numbered 300 and above to meet student interests and needs, and departmental recommendations, from Anthropology, Economics, English, Geography, History, Human Biology and Physiology, Humanities, Language, Literature, Philosophy, Political Science, Psychology and Social Work. Not more than 10 credits are to be selected from any one field without departmental approval. (Exception: A student may elect up to 15 credits in Anthropology as supporting courses).

Minor in Sociology: 15 credits

Soc 101 Introduction to Sociology	5
Credits of upper-division Sociology	10
	<u>15 credits</u>

BACHELOR OF ARTS IN EDUCATION DEGREE

The 45-credit major or 15-credit minor in sociology are available as choices in the Social Science Bachelor of Arts in Education program. (See page 102)

Major: 45 credits

Soc 101 Introduction to Sociology	5
Ant 241 Cultural Anthropology	5
Electives in Sociology to meet student needs and interests	35
	<u>45 credits</u>

Minor: 15 credits

Soc 101 Introduction to Sociology	5
Credits of upper-division Sociology	10
	<u>15 credits</u>

Sociology requirement for the alternate Social Science 30-30-20 program:

Introduction to Sociology, Soc 101, will be the only required course under either the 30 or 20 hour programs. The balance will consist of electives in Sociology.

SOCIOLOGY COURSES

SOC 101 INTRODUCTION TO SOCIOLOGY (5)

An introductory course in the principles, theories, and processes of sociology. (See also Soc. 361.)

SOC 263 SOCIAL PROBLEMS (5) [101]

A comprehensive study of selected contemporary social problems.

SOC 299 SPECIAL STUDIES AND PROGRAMS IN SOCIOLOGY (Arr) [P]

SOC 320 DISCRIMINATION AND PREJUDICE (4) [101]

A study of racial, ethnic, and minority attitudes and processes in social structure and stratification systems.

SOC 331 HISTORY OF SOCIOLOGICAL THOUGHT (5) [101]

A companion course to Sociology 465, consisting of an inspection of sociological theories and thought of the past up to and including Durkheim. Emphasis will be placed on the historical development and growth of sociological thinking and its convergence into contemporary theory.

SOC 350 AMERICAN COMMUNITY STRUCTURE (5) [101]

Comparisons and contrasts of rural and urban environments, interaction, interdependence, and dominance of community structures; changing modes and styles of living. Opportunities for individual research.

SOC 351 SOCIAL STRATIFICATION (5) [101]

An investigation of class structures, stratification systems, and social mobility in contemporary American society.

SOC 353 DELINQUENT AND CRIMINAL BEHAVIOR (5) [263]

The study of juvenile delinquent behavior and adult crime as social problems in contemporary society; factors and conditions related to delinquency and crime, content and treatment, and apprehension, and disposition.

SOC 356 INTRODUCTION TO SOCIAL STATISTICS (5) [101]

A survey of statistical methods and techniques used in social science research.

SOC 357 METHODS OF SOCIAL SCIENCE RESEARCH (5)

An introduction to the principal research methods in the social sciences, including design of research projects, data gathering techniques, analysis and reporting of data.

SOC 361 GENERAL SOCIOLOGY (5)

A course in principles of sociology intended primarily for upper division, fifth-year and graduate students. Not open to lower division students or to sociology or social work majors without departmental permission. Credit may not be counted in both Soc 101 and 361.

SOC 363 SOCIOLOGY OF DEVIANT BEHAVIOR (5) [101]

Analysis of the processes of social and personal disorganization in relation to poverty, crime, suicide, family disorganization, mental disorders and similar social problems.

SOC 368 HUMAN POPULATION (4) [101]

Major qualitative and quantitative problems and trends in human population and consideration of those social factors which influence their composition.

SOC 370 MARRIAGE AND THE FAMILY (5) [101]

A consideration of family and marriage behaviors, family organization and interaction, changing family patterns, and family disorganization.

SOC 399 SPECIAL STUDIES AND PROGRAMS IN SOCIOLOGY (Arr) [P]

SOC 441 CULTURE, SOCIETY, AND PERSONALITY (5) [Below]

(Same as Ant 441) Synthesis of research, theory, and methodology concerning basic behavioral and interactional concepts of culture, society, and personality. Prereq: At least five hours each in sociology, anthropology and psychology.

SOC 450 PRINCIPLES OF INTERVIEWING (4) [Jr or P]

(Same as SW 450) The principles and practices of interviewing. Analysis of interviewing techniques employed in social science research, including casework, group work, community organization, correctional work, and related areas. Guided practice in interviewing.

SOC 452 JUVENILE DELINQUENCY (4) [101]

The study of deviant juvenile behavior in contemporary society; factors and conditions contributing to delinquency, control and treatment of juvenile offenders, and programs of prevention or curtailment.

SOC 455 CRIMINOLOGY (4) [101]

The study of crime as a social problem, its causes and prevention; a

study of the criminal, including apprehension, treatment, and disposition.

SOC 463 COMPLEX ORGANIZATIONS (4) [101]

The analysis of large, complex organization as a social system. Includes theory related to the emergence and structure of bureaucracy, authority, and control; organizational conflict and change; the individual and the organization; and the organization and its environment.

SOC 465 CONTEMPORARY SOCIOLOGICAL THEORY (5) [331]

A companion course to Soc. 331, beginning with Durkheim and carrying social theory to the present. Emphasis will be placed on the use of empirical data in the development of theoretical systems by important contemporary social thinkers.

SOC 469 SOCIAL CONTROL (4) [Below]

An examination of formal and informal processes of social control; explanatory theory and related research. (At least 15 credit hours in Sociology or p)

SOC 470 SOCIAL CHANGE (4) [101]

Analysis of theories of social and cultural change; processes, characteristics and conditions of change in large social systems; differential rate of change; the impact of change on man and his institutions.

SOC 471 SOCIOLOGY OF WORK (4) [101]

Dynamics of management and labor relations in formal and informal organizations from the standpoints of institutions, role relationships, behavior systems and expectations, and group processes.

SOC 472 SOCIOLOGY OF RELIGION (4) [101, adv.]

Investigation of the religious institutions in society in terms of their structure, function, and change.

SOC 475 SOCIOLOGY OF SMALL GROUPS (4) [101]

Analysis of small group structure and processes; examination of roles, interpersonal relations, leadership; current theory and research on small group interaction.

SOC 479 MEDICAL SOCIOLOGY (4) [101]

The social impact of disease and illness in human groups, including the definition and measurement of disease, response to illness, the doctor-patient interaction, the role of medical and paramedical professional and a study of medical care institutions and systems.

SOC 480 SOCIOLOGICAL ASPECTS OF MENTAL HEALTH (4) [Below]

A study of social and cultural variables instrumental in the etiology of mental illness. Prereq: At least 10 hours each in Sociology and Psychology.

SOC 481 SOCIAL PSYCHOLOGY (5)

(Same as Psy 481) The study of behavioral dependence and interdependence among individuals.

SOC 482 COLLECTIVE BEHAVIOR (4) [101]

Sociological and social-psychological theories and research in collective behavior.

SOC 484 SOCIOLOGY OF AGING (4) [101]

(Same as SW 484) Analysis of demographic and institutional patterns, social roles, and emotional and physiological changes associated with aging.

SOC 485 CORRECTIONS (4) [Jr. Appr. Maj]

Processes, organization, and problems of probation and parole and the functions, organization, and problems of institutional and correctional agencies in the control of crime and delinquency.

SOC 486 SOCIOLOGY OF CONFLICT (4) [101]

A study of war, revolutions, riots, and conflict as tools employed by social groups. The development of conflict as a social tool. Efforts and results in seeking alternatives.

SOC 488 SOCIOLOGY OF EDUCATION (4) [101]

Educational institutions as tools of society. The role of education in social change. Conflicts with social stability.

SOC 490 SELECTED SOCIAL PROBLEMS (3)

Extends inquiry principally into alcoholism, addiction, and dependency. Offers to teachers and majors in education desirable knowledge and theory. Recommended for social work majors.

SOC 497 WORKSHOP (1-5)

Special short-duration programs of contemporary significance in societal-cultural behavior areas. The range and scope of topics will be essentially interdisciplinary and students from all academic areas will be eligible to participate.

SOC 498 DEPARTMENTAL SEMINAR (3)

Examination of current research topics in Sociology. The specific content of the Seminar will vary according to recent developments in Sociology and according to the interests of the instructor. May be repeated once for credit.

SOC 499 DIRECTED STUDY IN SOCIOLOGY (1-5) [P]

Independent and/or group study in selected areas of sociology. Open to senior and graduate students from any department.

GRADUATE COURSES

SOC 599 INDEPENDENT STUDY IN SOCIOLOGY (Arr) [P]

SPEECH AND SPEECH CORRECTION

Dorvan Breitenfeldt, Chairman

L. L. Wilson, Coordinator of Speech Communication

1971-72 Staff: Craig, Gilbert, Gunderson, Hahn, Haugen, Kraft, Michaeloff, White, Wilson.

The Department of Speech and Speech Correction offers, as its name implies, courses in two areas—Speech Communication and Speech Pathology and Audiology.

A description of the two areas and requirements for majors are listed separately. Courses are designated by the abbreviation SpC and SPA, respectively.

SPEECH COMMUNICATION

Speech Communication offers a course of study leading to the Bachelor of Arts and B.A. in Education with emphasis in: Oral Interpretation, Rhetoric and Public Address, Communication Theory and Organizational Communication. A minor in Speech Communication is offered for students majoring in other fields. Varied student oral interpretation and reader's theater programs are presented and an active program in competitive intercolleige forensics is offered throughout the year. Interdisciplinary and fieldwork studies play a major role in the program.

BACHELOR OF ARTS DEGREE

Major in Speech Communication: 45 credits

General Requirements: 20 credits

SpC 200 Introduction to Speech Communication . . .	4
SpC 301 Public Speaking	4
SpC 306 Small Group Communication	3
SpC 310 Oral Interpretation	4
SpC 400 Introduction to Rhetorical and Communication Theory . . . . .	.5
	20 credits

Emphasis Electives: 25 credits chosen from two emphases

Rhetoric-Public Address

SpC 302 Argumentation and Debate	4
SpC 332 Forensics	1-3
SpC 401 Speech and Social Control	4
SpC 402 Persuasion	4
SpC 403 Rhetoric of Politics	4
SpC 409 Speech Criticism	5

106—SPEECH PATHOLOGY

Speech Communication

SpC 203 Parliamentary Procedure	3
SpC 305 Interpersonal Communication for Business and the Professions	3
SpC 496 Fieldwork	1-5

Oral Interpretation

SpC 319 Ensemble Interpretation	4
SpC 410 Advanced Oral Interpretation	4
SpC 412 Interpretation of Shakespeare	4
SpC 415 Interpretation of Poetry	3
SpC 416 Interpretation of Prose	3
SpC 417 Interpretation of Drama	3
	<u>25</u>

When offered SpC 399, 496, 498, or 499 may be used as electives in the above emphases.

Minor in Speech Communication: 19 credits

SpC 301 Public Speaking	4
SpC 306 Small Group Communication	3
SpC 310 Oral Interpretation	4
SpC 400 Introduction to Rhetorical and Communication Theory	5
Electives	3
	<u>19</u> credits

BACHELOR OF ARTS IN EDUCATION DEGREE

Major in Speech Communication (Secondary): 45 credits

General Requirements: 26 credits

SpC 301 Public Speaking	4
SpC 302 Argumentation and Debate	4
SpC 306 Small Group Communication	3
SpC 310 Oral Interpretation	4
SpC 330 Directing Forensic Activities	2
SpC 400 Introduction to Rhetorical and Communication Theory	5
SpC 442 Speech Communication in the Secondary Schools	4
	<u>26</u> credits

Electives: 19 credits selected in conference with student's adviser.

SpC 203 Parliamentary Procedure	3
SpC 319 Ensemble Interpretation	4
SpC 332 Forensics	1-3
SpC 401 Speech and Social Control	4
SpC 402 Oral Persuasion	4
SpC 403 Rhetoric of Politics	4
SpC 409 Speech Criticism	5
SpC 410 Advanced Oral Interpretation	4
SpC 412 Interpretation of Shakespeare	4
SpC 415 Interpretation of Poetry	3
SpC 416 Interpretation of Prose	3
SpC 417 Interpretation of Drama	3
SpC 498 Seminar in Speech	1-5
SpC 499 Directed Study in Speech	1-5
SPA 103 Voice and Articulation Improvement	3
SPA 304 Phonetics	3
SPA 451 Introduction to Speech Pathology	5
SPA 454 Language Development	3
Eng 360 The Nature of Language	4
Eng 465 Introduction to Linguistics	4
Eng 467 Semantics	3
RTV 100 Introduction to Radio-TV Broadcasting	3
RTV 440 Educational Radio-TV Teaching Techniques and Production	3
Drm 101 Introduction to Theater	3
	<u>19</u>

NOTE: Teacher candidates with a major in Speech Communication normally will be advised to elect English as their minor. Other recommended minors include Social Studies, Drama, or a modern Foreign Language.

Major in Speech Communication (Elementary): 30 credits

Eng 321 Children's Literature	3
Eng 391 English in Elementary Schools	4
Ed 494 Remedial Reading	3

SpC 414 Storytelling	3
SPA 451 Introduction to Speech Pathology	5
SpC 490 Speech for the Classroom	4
Drm 341 Creative Dramatics	3
Electives in Speech, Drama	5
	<u>30</u> credits

Minor in Speech Communication (Secondary): 19 credits

SpC 306 Small Group Communication	3
SpC 310 Oral Interpretation	4
SpC 330 Directing Forensic Activities	2
SpC 442 Speech Communication in the Secondary Schools	4
Electives in Speech or Drama	6
	<u>19</u> credits

Minor in Speech Communication (Elementary): 19 credits

SpC 310 Oral Interpretation	4
SpC 414 Storytelling	3
SpC 490 Speech Communication for the Elementary Schools	4
Electives in Speech and Drama	8
	<u>19</u> credits

SPEECH COMMUNICATION COMPETENCY
See the Department of Speech for details.

SPEECH PATHOLOGY

Consultants: Dorsey, Habel, Hamacher,
Harper, McNeil, Rulon

Eastern offers an intensive clinical program in Speech Pathology and Audiology. The student may pursue either the Bachelor of Arts or the Bachelor of Arts in Education degree programs on the undergraduate level. Graduate study may either lead to the Master of Science degree in Speech Pathology, or to a 45-credit, post-baccalaureate course of study. Both options lead to membership and clinical requirements for the Certificate of Clinical Competence in the American Speech and Hearing Association. The B.A. and B.A. in Education degrees in Speech Pathology are considered pre-professional, and a five-year college program may be anticipated by students pursuing this area of study. Recommendations for Education certificates for positions in the public schools will be made after the completion of the requirements for the Certificate of Clinical Competence. Supervised clinical practicum experiences, both on and off campus, dealing with speech and hearing handicapped children and adults is offered as an important part of the curriculum on the undergraduate and graduate levels.

BACHELOR OF ARTS DEGREE

Major in Speech Pathology: 60 credits

SPA 304 Phonetics	3
SPA 351 Speech & Voice Science	5
SPA 451 Introduction to Speech Pathology	5
SPA 452 Clinical Techniques in Speech & Hearing Disorders	5
SPA 453 Neurological Speech Disorders	5
SPA 454 Language Development in the Normal Child	3
SPA 456 Stuttering: Etiology & Therapy	3
SPA 471 Audiology	3
SPA 472 Audiometry	3
Electives selected from: SPA 450, 455, 475 SpC 301, 414 Psy 350, 355, 357, 363 Eng 360, 465, 467 Ed 408, 494	25
	<u>60</u> credits

BACHELOR OF ARTS IN EDUCATION DEGREE

Major in Speech Pathology: 60 credits

Requirements for this major are the same as for the major in Speech Pathology under the Bachelor of Arts Degree with the addition of SPA 455, Speech Therapy in the Public Schools (3), and the resulting reduction of electives from 25 to 22 credits.

Students need to also fulfill the secondary education requirements of the Education Department for completion of this degree.

POST BACCALAUREATE

Speech Pathology: 45 credits

SPA 452 Clinical Techniques in Speech & Hearing Disorders	4
SPA 550 Seminar in Speech Pathology & Audiology	3
SPA 551 Advanced Speech & Voice Science	5
SPA 552 Aphasia	3
SPA 553 Voice Disorders	3
SPA 554 Diagnostic Techniques in Speech Pathology	5
SPA 555 Articulation Disorders, Diagnosis & Therapy	3
SPA 557 Cleft Palate	3
Psy 518 Problems in Child Development OR	
Psy 519 Problems in Adolescence	4
Electives selected from:	
SPA 475, 556, 570, 572, 575, 576, 599	
Psy 404, 468, 550, 554, 556	12
	45 credits

SPEECH COURSES

SPC 100 SPEECH COMMUNICATION COMPETENCY (1)

A systematic evaluation of the individual's speech communication proficiencies is administered by the speech communication staff.

SPA 103 VOICE AND ARTICULATION IMPROVEMENT (3)

Studies in phonation, articulation, and pronunciation. Course is oriented to self-improvement.

SPC 200 INTRODUCTION TO SPEECH COMMUNICATION (4)

A beginning course in speech communication which 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.

SPC 203 PARLIAMENTARY PROCEDURE (3)

Introduction to the rules of order for the conduct of formal meetings. Practical training in group leadership.

SPC 301 PUBLIC SPEAKING (4)

Study of speech composition with emphasis on adaptation of message to audience, credibility, and oral style.

SPC 302 ARGUMENTATION AND DEBATE (4)

Logical development and support of arguments, analysis of evidence, briefing of arguments, and practice in debate.

SPA 304 PHONETICS (3)

A study of English speech sounds, their analysis and production. Major emphasis is on learning and use of the International Phonetic Alphabet.

SPC 305 INTERPERSONAL COMMUNICATION FOR BUSINESS AND THE PROFESSIONS (3)

Introductory theory and practice of effective interpersonal communication in all aspects of the organizational setting. Concentration is on accomplishing objectives through effective communicative behavior.

SPC 306 SMALL GROUP COMMUNICATION (3)

Study and application of small group communication concepts to various task oriented groups. Emphasis on analysis and practices of verbal and non-verbal concepts to reach group objectives.

SPC 310 ORAL INTERPRETATION (4)

An introduction to the art of interpretative reading of prose and poetry. Emphasis given to the analysis of literary types and the techniques employed in their oral re-creation.

SPC 319 ENSEMBLE TO INTERPRETATION (4) [310 or p]

Emphasis on the techniques used in group interpretation of literary types. Individual student projects presented during the term.

SPC 330 DIRECTING FORENSIC ACTIVITIES (2)

Study of objectives and methods of establishing and administering a forensic activities program for the secondary school.

SPC 332 FORENSICS (1-3) [p]

Intercollegiate and public debate, oratory, discussion, after-dinner speaking, extempore speaking. May be repeated for a total of nine credits.

SPA 351 SPEECH AND VOICE SCIENCE (5)

A practical study of the sciences of anatomy, physiology, and physics as they are involved in the speech process; also consideration of these sciences as used in diagnostic techniques and corrective practices in speech pathology.

SPC 399 SPECIAL STUDIES (1-5)

Subjects studied vary according to faculty and student interest.

SPC 400 INTRODUCTION TO RHETORICAL AND COMMUNICATION THEORY (5)

Survey of historical and contemporary theories of oral communication.

SPC 401 SPEECH AND SOCIAL CONTROL (4)

Exploration of the theories of oral persuasion in social action.

SPC 402 ORAL PERSUASION (4)

Study of the interaction of source, message, and receivers in effect-centered oral communication. Stress on preparation of persuasive messages.

SPC 403 RHETORIC OF POLITICS (4)

Analysis of communication processes and problems in contemporary American political campaigns.

SPC 409 SPEECH CRITICISM (5)

Methods of analysis, interpretation, and evaluation of oral discourse.

SPC 410 ADVANCED ORAL INTERPRETATION (4) [310 or Drm 101 or 201 or p]

Emphasis on the analysis and adaptation of selections of prose and drama for oral presentation. Practical experience in presenting and staging the literature for an audience.

SPC 412 INTERPRETATION OF SHAKESPEARE (4) [310 or p]

A study of selected plays by Shakespeare. Emphasis on language and characterization for the oral interpreter.

SPC 414 STORYTELLING (3)

The art of reading or telling children's stories in such a manner as to hold a young audience.

SPC 415 INTERPRETATION OF POETRY (3) [310 or p]

A study of the form and content of poetry as it affects the understanding and performance of the oral interpreter. Various periods of poetry are considered in view of their particular literary demands on the reader.

SPC 416 INTERPRETATION OF PROSE (3) [310 or p]

The analysis of the types of prose with a view to their oral presentation. Special consideration is given to the short story and the novel.

SPC 417 INTERPRETATION OF DRAMA (3) [310 or p]

A study of representative American and European dramatic literature. Emphasis given to the development of interpretation techniques required in the oral reading of a play.

SPC 442 SPEECH COMMUNICATION IN THE SECONDARY SCHOOLS (4) [Jr or p]

Study of objectives and methods of establishing an effective speech communication program for junior and senior high school students.

SPA 450 WORKSHOP IN SPEECH PATHOLOGY, (1-3)

SPA 451 INTRODUCTION TO SPEECH PATHOLOGY (5)

A study of the common speech defects and remedial procedures for the problems of delayed speech, articulation, hearing loss, cleft palate, cerebral palsy, and stuttering. Intended to assist teachers to deal adequately with speech defects commonly found in the classroom.

SPA 452 CLINICAL TECHNIQUES IN SPEECH AND HEARING DISORDERS (1-4) [304, 451, or p]

Supervised clinical work with speech-defective children and adults. May be repeated for a maximum of 12 credits.

SPA 453 NEUROLOGICAL SPEECH DISORDERS (5) [351, 451, or p]

Etiology, diagnosis, and treatment of speech problems due to neurological involvement. Emphasis on cerebral palsy, aphasia, and degenerative diseases of the central nervous system.

SPA 454 LANGUAGE DEVELOPMENT IN THE NORMAL CHILD (3)

A study of the normal acquisition of language. Course designed to give students practical experience in the analysis of the language skills of normal young children.

SPA 455 SPEECH THERAPY IN THE PUBLIC SCHOOLS (3) [452 or p]

Designed to precede student teaching experience, this course gives the student further information about the special administrative problems encountered in the public school situation. Affords an opportunity to build a kit of materials for school therapy programs.

SPA 456 STUTTERING: ETIOLOGY AND THERAPY (3) [451 or p]

Theory, research, and methodology in diagnosis and treatment of stuttering.

SPA 471 AUDIOLOGY (3) [351 or p]

Description of normal audition. Anatomy and physiology of the hearing mechanism. Causes and types of hearing loss and their effects on the individual and his speech.

SPA 472 AUDIOMETRY (3) [471]

The principles and techniques of auditory testing, and interpretation of hearing tests.

SPA 475 AURAL REHABILITATION (3)

Objectives and techniques for the teaching of speech conservation, speech reading, and language to the hard-of-hearing and deafened child and adult.

SPC 490 SPEECH COMMUNICATION FOR THE ELEMENTARY CLASSROOM (4) [Jr or p]

Study of techniques of setting up a speech program in the elementary schools; methods of integrating speech in the total elementary program stressed.

SPC 496 FIELDWORK IN SPEECH COMMUNICATION (1-5)

Directed student investigation or participation in the communication processes or problems of a business, an industry, a political campaign, a social, or religious movement.

SPC 497 SPEECH COMMUNICATION WORKSHOP (1-3)

Programs of varying content, allowing students to study approaches to speech communication at the elementary and secondary levels.

SPC 498 SEMINAR IN SPEECH (1-5)

Study of a major speech communication problem in the areas of: public address, group communication, rhetorical theory, speech education, speech criticism, argumentation, persuasion, or oral interpretation. May be repeated for credit.

SPC 499 DIRECTED STUDY (1-5) [p]

Individual study projects in a selected special field. Limited to senior and graduate students.

GRADUATE COURSES**SPA 520 GRADUATE RESEARCH IN SPEECH PATHOLOGY AND AUDIOLOGY (4)**

Introduction of the graduate student to the research literature in the field, to provide him with the skills for evaluating research and to afford him the opportunity to design and present a research project.

SPA 550 SEMINAR IN SPEECH PATHOLOGY AND AUDIOLOGY (1-3)

Supervised and directed individual projects in speech pathology.

SPA 551 ADVANCED SPEECH AND VOICE SCIENCE (5)

A core of information regarding the physiological, psychological and acoustical properties of speech. It must be taken as a prerequisite to graduate courses in speech pathology and audiology.

SPA 552 APHASIA (3) [551 or p]

Advanced study of the problems of aphasia and kindred disorders.

SPA 553 VOICE DISORDERS (3) [304, 451 or p]

Etiology, analysis, and therapeutic principles involved in correction of speech problems associated with pitch, loudness and quality.

SPA 554 DIAGNOSTIC TECHNIQUES IN SPEECH PATHOLOGY (5) [p]

The diagnostic aspects of speech pathology. Attention is given to interview procedures, case histories, and report writing. Demonstration of and practice in the use of specific diagnostic instruments is emphasized.

SPA 555 ARTICULATION DISORDERS, DIAGNOSIS AND THERAPY (3) [551 or p]

Consideration of factors involved in articulation theory, treatment and research.

SPA 556 PROBLEMS IN STUTTERING (3) [p]

Advanced study of theories and problems in stuttering.

SPA 557 CLEFT PALATE (3) [304, 451 or p]

Symptomatology, etiology, diagnosis, and therapy for cleft palate.

SPA 570 PROBLEMS IN HEARING (3) [472 or p]

The rehabilitation program and its approach and place in the aid to the acoustically handicapped. A research project describing a practical aspect of a total rehabilitation program is required.

SPA 572 ADVANCED AUDIOMETRY (5) [472, 551]

Special diagnostic testing procedures and practices in the evaluation of cochlear, retro-cochlear, and non-organic hearing loss.

SPA 575 ADVANCED AURAL REHABILITATION (3) [571, 475 or p]

Principles of aural rehabilitation including psychological, school and vocational problems of the individual with a hearing loss.

SPA 576 HEARING AIDS AND AUDITORY AMPLIFICATION (3) [472 or p]

The study of auditory amplification and its application to the acoustically handicapped. Discussion of criteria in hearing aid consultation. Techniques in making ear mold impressions.

SPA 596 COLLEGE TEACHING INTERNSHIP (1-5) [P]

Teaching of a lower division college course under the supervision of a regular faculty member. Includes course planning, arranging bibliographical and other instructional aids, conference with students, experience in classroom instruction and student and course evaluation.

SPA 599 INDEPENDENT STUDY (1-5) [p]

Independent study projects in a selected field.

SPA 600 THESIS (3-9) [520]

Under supervision of staff members, the graduate student organizes and formally writes up and presents a research project in thesis form.



LANGUAGE LAB

DIRECTORY OF PERSONNEL, 1972-73

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FACULTY 1971-72

This list reflects the status of the 1971-72 Eastern Washington State College faculty as of December 1, 1971, when this volume went to press. The date in parenthesis following each name is the academic year of first service to the College and does not necessarily imply continuous service since that time. The years of administrative assignment and faculty rank change, where different from the appointment date, are also given.

- James B. Albert** (1968) Assoc. Prof. of Music (1971); B.M., M.M., U. of Oregon
Celia B. Allen (1948) Assoc. Prof. of Education and Psychology (1961), B.A. in Ed., M.Ed., Eastern Washington State C.
Margaret N. Allen (1953) Assoc. Prof. of Elementary Education (1969), A.B., A.M., Colorado State C.
Jose Antonio Alonso (1967) Asst. Prof. of Spanish Licenciatura, U. of Madrid
Philip Anast (1965) Prof. of Psychology (1971) B.A., M.A., Baylor U.; Ph.D., U. of Wisconsin
James Anderson (1969)* Spec. Lect. in Physical Education, B.S., San Diego State C.; M.D., Loma Linda U., Diplomate, Nat'l. Bd. of Medical Examiners
 * Fall Quarter Only

- Jeremy H. Anderson** (1971) Assoc. Prof. of Geography, A.B., Yale U.; M.A., Ph.D., U. of Washington
Philip N. Anderson (1965) Asst. Prof. of Accounting (1969) B.A., Eastern Washington State C., M.B.A., Gonzaga U., CPA, Washington
Robert B. Anderson (1960) Director of Athletics (1970), Prof. of Physical Education (1970), B.A., M.A., U. of Montana; Ed.D., U. of Oregon
J. Austin Andrews (1954) Prof. of Music (1964), B.Mus.Ed., Bethany C.; M.Mus. Ed., U. of Colorado; Ed.D., Teacher C., Columbia U.
Rollin D. Andrews III (1968) Asst. Prof. of Biology, B.S., Eastern Illinois U.; M.S., U. of Illinois
Glenn R. Aplin (1968) Asst. Prof. of Education, B.S., M.Ed., Ed.D., U. of Oregon
Richard D. Arnold (1971) Asst. Prof. of Management, B.S., M.S., Portland State C.
Virginia Asan (1962) Asst. Prof. of Physical Education (1968), B.S., B.Ed., M.A.T., Washington State U.
Robert W. Atwood (1967) Chairman, Department of Psychology (1971), Assoc. Prof. of Psychology (1971), B.S., M.S., Ph.D., Brigham Young U.
Darrell W. Bachman (1965) Assoc. Prof. of Psychology (1970), B.A., B.A. in Ed., Central Washington State C.; M.Ed., Ed.D., U. of Oregon
Marion Bacon (1959) Prof. of Biology (1968), Director, Medical Tech. (1971), B.S., Iowa State U.; M.S., Ph.D., Washington State U.
Allan S. Baillie (1971) Asst. Prof. of Management, B.S., Ohio U.; M.B.A., U. of Washington
Achilles Balabanis (1969) Asst. Prof. of Music, B.M.E., Wichita State U.; M.S., U. of Illinois
Kenneth H. Baldwin (1970) Lect. in Pharmacology, B.S., Washington State U.; D.M.D., U. of Oregon, Dental School; M.S., U. of Detroit
William Barber (1969) Prof. of Psychology (1970), A.B., Gonzaga U.; M.A., Ph.D., St. Louis U.
Donald M. Barnes (1966) Assoc. Prof. of History (1968), B.A., U. of Maine; M.A., U. of Connecticut; Ph.D., Washington State U.
Robert D. Barr (1965) Asst. Prof. of Health and Physical Education, B.S., Oregon State U.; M.S., Pacific U.; M.P.H., U. of California, Ed. D. Oregon State U.
William E. Barr (1970) Asst. Prof. of History, B.A., M.A., Washington State U.
Charles H. Baumann (1969) College Librarian (1970), Prof. of Lib. Science (1969), B.S., Washington U.; M.A., Pratt Institute; Ph.D., U. of Illinois
Bruce D. Beal (1968) Asst. Prof. of Art (1971), B.F.A., M.F.A., Cranbrook Academy of Art
Elizabeth Beaver (1961) Assoc. Prof. of Home Economics (1971), B.S., U. of Idaho; M.Ed., Whitworth C.
Valerie C. Been (1971) Instr. in Dental Hygiene, B.S., U. of Washington

- Roy K. Behm** (1963) Acting Dean of Graduate Studies (W & S, 1972), Prof. of Chemistry (1970), B.A., Ph.D., U. of Washington
- David S. Bell, Jr.** (1967) Chairman, Department of Political Science (1971), Coordinator, Area Studies Program (1970), Asst. Prof. of Political Science (1967), B.A., Beloit C.; M.A., Ph.D., Indiana U.
- Donald R. Bell** (1964) Dir. Human Development Center, Prof. of Psychology (1970), B.S., M.S., Ed.D., U. of Oregon
- Robert F. Bender** (1959)* Prof. of Accounting (1968), B.B.A., M.B.A., North Texas State C.; Ed.D., U. of Denver; CPA, Washington
* Sabbatical Leave, 1971-72
- Jack C. Benson** (1965)* Asst. Prof. of Physical Education (1971), Coach (1966), B.A., Eastern Washington State C.; M.S., Washington State U.
* Leave of Absence, 1971-72
- Arthur Biehl** (1951) Assoc. Prof. of Music (1970) B.A., Eastern Washington State C.; M.M., Northwestern U.
- Lloyd C. Billings** (1969) Assoc. Prof. of Finance, B.S., Kansas State U.; M.A., U. of Missouri; Ph.D., U. of Arizona
- Gerald Blakley** (1969) Cons. in Reproductive Physiology, M.Sc., DVM, Ohio U.
- Sergio H. Bocaz** (1971) Asst. Prof. of Spanish, Certif. M.A., Catholic U. (Santiago, Chile)
- Stamey L. Boles** (1968) Asst. Prof. of Radio-TV (1970), B.A., M.A., U. of Kansas
- Thomas W. Bonsor** (1958) Assoc. Prof. of Economics (1970), B.S., Miami U. (Ohio); M.A., Fletcher School of Law
- Charles W. Booth** (1956) Prof. of Geography (1971), B.A., B.A. in Ed., Eastern Washington State C.; M.S., Oregon State U.
- Norman C. Boulanger** (1970) Asst. Prof. of Drama, B.A., U. of Washington
- Charles C. Bown** (1969) Assoc. Prof. of Finance, B.A., D.B.A., U. of Washington; M.B.A., UCLA
- Richard M. Boyd** (1964) Asst. Prof. of Spanish (1969), B.A., Washington State U.; M.Ed., Eastern Washington State C.
- Dorvan Breitenfeldt** (1962) Chairman, Dept. of Speech-Speech Correction (1964); Dir., Speech and Hearing Clinic (1962); Prof. of Speech (1969), B.S., M.A., U. of Minnesota; Ph.D., Southern Illinois U.
- Gary L. Breneman** (1971) Vstg. Asst. Prof. of Chemistry, B.S., Oregon State U.; Ph.D., Washington State U.
- Mabel P. Bright** (1941) Assoc. Prof. of Elementary Education (1968), B.A. in Ed., Eastern Washington State C.; M.A., Colorado State C.
- John E. Bruntlett** (1967) Asst. Prof. of Industrial Education and Technology, B.S., M.S., Washington State U.
- Edith P. Bucklin** (1969) Asst. Prof. of Physical Education, B.S., Eastern Montana C.; M.S., Washington State U.
- Peter B. Buerger** (1970) Asst. Prof. of Psychology, B.S., M.A., Ph.D., Southern Illinois U.
- Jerry D. Bumpus** (1968)* Assoc. Prof. of English (1971), A.B., Missouri U.; M.F.A., State U. of Iowa
* Leave of Absence, 1971-72
- David C. Bunting** (1971) Vstg. Asst. Prof. of Economics, B.S., M.A., Ohio State U.; M.S., U. of Wisconsin.
- Kent R. Burnham** (1970) Asst. Prof. of Business Education, B.A., Washington State U.; M.Ed., Eastern Washington State C.; Ph.D., U. of Iowa
- James L. Buskohl** (1970) Asst. Prof. of English, B.A., U. of California at Berkeley; M.A., Ph.D., Southern Illinois U.
- Curtis L. Byrnes** (1970) Instr. in Physical Education, B.A. in Ed., Eastern Washington State C.; M.Ed., Central Washington State C.
- Lynn R. Callender** (1970) Assoc. Prof. of Education, B.Th., Walla Walla C.; Ed.M., Temple U., Ed.D., Arizona State U.
- Richard J. Carey** (1969) Assoc. Prof. of French (1970), B.A., M.A., B.L.S., U. of California; Ph.D., Columbia U.
- Arnold K. Carlson** (1963) Instr. in Accounting (1965), B.A. in Bus. Adm., Washington State U.; CPA, Washington
- Robert L. Carr** (1969) Asst. Prof. of Biology (1970), B.A., Eastern Washington State C.; A.M., U. of Michigan
- Donald P. Cary** (1970) Instr. in Radio-TV, B.A., Eastern Washington State C.
- John E. Casey** (1956) Assoc. Prof. of Psychology (1959), B.S., U. of New Mexico; M.A., U. of Kentucky; Ed.D., Indiana U.
- Joseph W. Chatburn** (1959) Dean of Continuing Education (1971), Prof. of Education (1965), B.S. in Ed., Colorado State C.; M.S. in Ed., U. of Utah; Ed.D., Washington State U.
- Jeffers W. Chertok** (1971) Asst. Prof. of Sociology, B.A., Western Washington State C.; M.S., Ph.D., U. of Oregon
- Ed Chissus** (1953) Asst. Prof. of Physical Education; Coach (1954), B.A. in Ed., Eastern Washington State C.; M.A., Washington State U.
- Raymond W. Christian** (1970) Asst. Prof. of Geography, B.S., M.A., U. of Utah
- Stefan C. Christopher** (1970) Assoc. Prof. of Sociology, B.A., U. of Washington; M.S.S., Institute of Social Studies, The Hague; Ph.D., U. of Washington
- Steven B. Christopher** (1969) Actg. Dir. Primate Research Program (1971), Asst. Prof. of Psychology (1969), B.S., Ohio U.; M.S., U. of Cincinnati; Ph.D., Pennsylvania State U.
- Curtis W. Coffee** (1970) Assoc. Prof. of Music, B.M., Oberlin Conservatory; M.M.Ed., U. of Arizona; D.M.A., Boston U.
- Agnes Colton** (1954)* Prof. of English (1962), B.A., Whitman C.; M.A., U. of Oregon; Ph.D., U. of Washington
* Sabbatical Leave, Fall Qtr., 1971
- Ralph G. Connor** (1960) Prof. of Sociology (1966), B.S., M.A., Ph.D., U. of Washington

- Elizabeth Cook** (1971) Asst. Prof. of English, B.S., South Dakota State U.; M.A., U. of South Dakota
- Patricia J. Coontz** (1964)* Asst. Prof. of English (1971), B.S., U. of Utah; M.A., U. of Washington
* Sabbatical Leave, 1971-72
- Lu Diane H. Corbin** (1970) Asst. Prof. of French, B.A., North Texas State U.; M.A., Ph.D., U. of Texas at Austin
- James M. Craig** (1967) Assoc. Prof. of Audiology (1971), A.B., Occidental C.; M.S., Purdue U.; Ph.D., U. of Washington
- Ronald H. Dalla** (1970) Asst. Prof. of Mathematics, B.A., Fort Lewis C.; M.S., Ph.D., U. of Wyoming
- William E. Daniels** (1970) Vstg. Asst. Prof. of Business Education, B.S., M.Ed., U. of Idaho
- David M. Daugharty** (1966) Asst. Prof. of Mathematics (1969), B.S., M.Nat.Sc., U. of Idaho
- Joseph C. Daugherty** (1959) Assoc. Prof. of Art (1968), B.S. in Ed., Ohio State U.; M.F.A., U. of Oregon
- Maxine M. Davis** (1970) Asst. Prof. of Physical Education, B.S., Slippery Rock State C.; M.A., Los Angeles State C.
- Richard R. Detsch** (1970) Asst. Prof. of German, B.A., U. of San Francisco; M.A., U. of California at Berkeley; Ph.D., U. of Colorado.
- R. Boyd Devin** (1969) Chairman, Department of Drama (1971), Assoc. Prof. of Drama (1971), Director of Productions, B.S., M.S., U. of Oregon; Ed.D., Washington State U.
- Richard V. Diener** (1970) Pt-time Special Lect. in Home Economics (1971), B.A., George Washington U.; M.B.A., Michigan State U.
- Jere Donegan** (1967) Asst. Prof. of History, B.S., New Paltz State (N.Y.)
- Richard W. Donley** (1967) Asst. Prof. of History, A.B., M.A., Humboldt State C.
- Arthur S. Doran** (1971) Asst. Prof. of Dental Hygiene, D.M.D., U. of Oregon, Dental School
- A. George Dors** (1970) Asst. Prof. of Mathematics, B.S., M.S., U. of Idaho; Ph.D., U. of Utah
- Charles L. Dorsey** (1969) Cons. in Pediatrics, B.A., Virginia Military Inst.; M.D., Duke U.
- John E. Douglas** (1960) Prof. of Chemistry (1966), B.S., M.S., U. of Chicago; Ph.D., U. of Washington
- John A. Duenow** (1970) Asst. Prof. of Music, B.A., M.A., M.F.A., U. of Iowa
- George A. Durrie** (1970) Asst. Prof. of Political Science, B.A., Portland State U.
- James J. Edmonds** (1962) Prof. of Music (1970), B.M., Oberlin C.; M.M., D.M.A., U. of Michigan
- Christine Elrod** (1947) Campus School Librarian (1962), Asst. Prof. of Education (1952), B.A., Southwestern (Okla.) State C.; M.Ed., Eastern Washington State C.; M.Lib., U. of Washington
- Robert H. Elton** (1970) Asst. Prof. of Psychology, B.S., Weber State C.; M.A., Ph.D., U. of Utah
- Eldon Engel** (1967) Asst. Prof. of Education (1970), B.A., B.A. in Ed., M.Ed., Eastern Washington State C.
- Darwin W. Engen** (1971) Lect. in Periodontics, B.S., D.D.S., U. of Minnesota, School of Dentistry
- Michael L. Engquist** (1969) Asst. Prof. of Mathematics, B.S., Ph.D., Iowa State U.
- Gerald F. Estes** (1961) Assoc. Prof. of Office Administration (1971), B.A. in Ed., Eastern Washington State C.; M.B.A., Gonzaga U.
- Wendell L. Exline** (1949) Assoc. Prof. of Music (1959), B.M.E., M.M., Northwestern U.
- Robert E. Farrar** (1970) Vstg. Asst. Prof. of History, A.B., DePauw U.; A.M., Ph.D., Indiana U.
- Kelly S. Farris** (1970) Artist in Residence (1971), B.A., U. of Washington, B.M., Juilliard School of Music
- Donald W. Ferrell** (1969) Asst. Prof. of History, A.B., Duke U.; M.A., U. of North Carolina; Ph.D., The Australian National U.
- Opal Fleckenstein** (1949) Assoc. Prof. of Art (1970), B.A. in Ed., M. Ed., Eastern Washington State C.
- J. Eugene Fletcher** (1961)* Prof. of Education and Psychology (1968), B.S., Ph.D., U. of Washington; M.A., U. of Denver
* Sabbatical Leave, Fall 1971
- James D. Flynn** (1967) Asst. Prof. of Education (1968), Dir., College-Community Programs (1971), B.S., M.Ed., U. of Illinois; Ed.D., Washington State U.
- Michael M. Folsom** (1970) Asst. Prof. of Geography, B.S., Portland State U.; M.A., Ph.D., Michigan State U.
- John P. Ford** (1965) Asst. Prof. of Quantitative Analysis, B.S., Portland State U.; M.S., Washington State U.
- Earl N. Forsman** (1970) Int. Ch., Dept. of Physics (1971), Asst. Prof. of Physics (1970), B.S., Gonzaga U.; M.S., Ph.D., U. of Washington
- Joyce K. Fountain** (1971) Instr. in Elementary Education, B.A. in Ed., Eastern Washington State C.
- Everill W. Fowlks** (1965) Cons. in Corrective Therapy, B.A., M.A., U. of Utah; M.D., U. of Colorado, Diplomate of American Board of Physical Medicine
- Loretta Fretwell** (1959) Prof. of Psychology (1967), B.E., U. of Oregon; A.M., Ed.D., Colorado State C.
- A. Kerry Frey** (1971) Instr. in Physical Therapy, B.A. in Ed., Eastern Washington State C.
- Glen O. Fuglsby** (1966) Ch., Dept. of Industrial Education and Technology, Prof. Of Industrial Education and Technology (1969), B.S., South Dakota State U.; M.A., U. of Minnesota; Ph.D., Iowa State U.
- Richard O. Garcia** (1965) Asst. Prof. of Music (1968); B.M., St. Louis Institute of Music; M.A., Ed.D., Washington U.
- Robert J. Gariepy** (1968) Coord. of Humanities (1970), Assoc. Prof. of Humanities and English (1968), B.Ed., Gonzaga U.; M.A., Ph.D., U. of Washington
- R. Dean Gaudette** (1965) Ch., Department of Education (1968), Prof. of Education (1970), B.A., M.A., San Francisco State C.; Ed.D., Washington State U.

- C. Peggy Gazette** (1966) Ch., Dept. of Women's Physical Education, Prof. of Health and Physical Education (1969), B.S., M.Ed., Whitworth C.; Ph.D., Ohio State U.
- John K. M. Geary** (1970) Asst. Prof. of English, B.A., Brigham Young U.; M.A., D.A., U. of Oregon
- Mary K. George** (1970) Vstg. Inst. in Elementary Education, B.A. in Ed., Eastern Washington State C.
- Philip R. George** (1968) Assoc. Prof. of Education (1970), Coord. of Laboratory Experience (1970), B.A., M.Ed., Central Washington State C.; Ed.D., U. of Idaho
- Sterling K. Gerber** (1970) Assoc. Prof. of Psychology, B.S., M.S., Ph.D., U. of Utah
- Rae T. Gibbons, Jr.** (1966) Assoc. Prof. of Philosophy (1971) B.A., M.S., U. of Oregon
- Robert E. Gibbs** (1970) Asst. Prof. of Physics, B.S., U. of Puget Sound; Ph.D., U. of Washington
- Flash Gibson** (1971) Vstg. Asst. Prof. of Biology, B.A., Eastern Washington State C.; M.A., Ph.D., Oregon State U.
- Reta A. Gilbert** (1969) Asst. Prof. of Speech, B.S., M.S., Brigham Young U.; Ph.D., Louisiana State U.
- Ernest H. Gilmour** (1967) Assoc. Prof. of Geology (1969), B.S., U. of Southern California; M.S. Montana State U.; Ph.D., U. of Montana
- William G. J. Goetter** (1970) Vstg. Asst. Prof. of Elementary Education, B.S. in Ed., M.A. in Ed., Concordia Teachers C.
- Ernst W. Gohlert** (1970) Asst. Prof. of Political Science, B.A., Willamette U.; M.A., Ph.D., Washington State U.
- Donald F. Goodwin** (1962) Assoc. Prof. of English (1966), B.A., California State C. at Los Angeles; M.A., Ph.D., U. of Iowa
- Louis V. Grafious** (1948) Prof. of English (1955), B.A., Albany C.; M.A., U. of Oregon; Ph.D., Washington State U.
- Michael K. Green** (1967) Assoc. Prof. of History (1970), B.A., Eastern Washington State C.; M.A., Ph.D., U. of Idaho
- William A. Greene** (1964)* Prof. of Psychology (1970), Dir., Primate Research Program (1970), A.B., M.S., San Diego State C.; Ph.D., U. of Florida
* Sabbatical Leave, 1971-72
- Cornelius Groenen** (1967) Assoc. Prof. of French (1971), B.A., Central Washington State C.; M.A., Washington State U.; D.Litt., Universite DeLille
- Herbert Gunderson** (1965) Assoc. Prof. of Speech (1971), B.A., Central Bible Institute; M.S., Ph.D., U. of Oregon
- Dan W. Habel** (1969) Cons. in Speech Pathology, B.S., M.S., in Otolaryngology; M.D., U. of Michigan
- Richard Hagelin** (1952) Ch., Dept. of Health Education (1967), Prof. of Health and Physical Education (1957), B.S., U. of Nebraska; M.A., Ph.D., U. of Michigan
- Gabriele Hagelstange** (1970) Asst. Prof. of German, B.A., Western C. (Oxford, Ohio); M.A., U. of Southern California
- Patricia A. Hahn** (1968) Assoc. Prof. of Speech (1971), B.S., U. of Nebraska; M.A., Northwestern U.; Ph.D., U. of Oregon
- Wayne H. Hall** (1970) Asst. Prof. of Mathematics and Education, B.S., M.S., Kansas State Teachers C.; Ph.D., George Peabody C. for Teachers
- Kenneth A. Halwas** (1958) Ch., Dept. of English (1970), Prof. of English (1964), A.B., M.A., Ph.D., U. of Denver
- Edward N. Hamacher** (1965) Cons. in Cleft Palate Surgery, B.S., L.L.B., Gonzaga U.; M.D., Georgetown U.
- Edward Hamblin** (1965) Prof. of Education and Economics (1971), Coord. of Social Science Education (1970), B.S. in Bus. Adm., B.S. in Ed., M.A., Ph.D., Ohio State U.
- Ray O. Hamel** (1970) Asst. Prof. of Mathematics, B.S., M.S., U. of Wisconsin; Ph.D., U. of Oregon
- Marianna Hamilton** (1968) Instr. in Art (1969), B.A., U. of California at Santa Barbara; B.F.A., San Francisco Art Institute; M.F.A., U. of Arizona
- James L. Hanegan** (1970) Asst. Prof. of Biology, B.S., Northern Illinois U.; M.S., U. of Maine; Ph.D., U. of Illinois-Urbana-Champaign
- Kit Hanes** (1970) Asst. Prof. of Mathematics, A.B., U. of California; M.A., San Jose State C.; M.A.T., Brown U.; Ph.D., U. of Washington
- John E. Hanke** (1970) Asst. Prof. of Quantitative Analysis, B.S., M.S. in Ed., Northern Illinois U.; Ph.D., U. of Northern Colorado
- Roger E. Harman** (1970) Asst. Prof. of Psychology, B.A., M.S., Eastern Washington State C.; Ph.D., U. of Utah
- Gwendoline Harper** (1949) Assoc. Prof. of Music (1956), B.A., M.A., U. of Washington; M.Ed., Harvard U.
- Ted L. Harper** (1964) Cons. in Orthodontia, B.S., D.D.S., U. of Iowa; M.S., U. of North Carolina
- Dana E. Harter** (1947) Exec. Coord. Health Science Program (1970), Prof. of Chemistry (1954), B.S., M.S., Ph.D., U. of Washington
- Walter M. Hartman** (1965) Asst. Prof. of Business Education (1969), B.A. in Ed., M.Ed., Eastern Washington State C.; Ph.D., U. of Northern Colorado
- Syed M. Jameel Hasan** (1969) Asst. Prof. of Management (1970), B.Com., M.Com., U. of Karachi; M.B.A., U. of Southern California
- Bilal Hashmi** (1969) Asst. Prof. of Sociology, B.S., M.A., U. of the Panjab
- Elwyn R. Hasse** (1968)* Spec. Lect. in P.E., B.A., Walla Walla C.; M.D., U. of Mexico
* Winter Quarter only
- David M. Haugen** (1969) Asst. Prof. of Speech Pathology, B.A., Luther C.; M.A., U. of Minnesota; Ph.D., U. of Oregon
- Paul L. Helsing** (1961) Assoc. Prof. of Economics (1970), Actg. Ch., Dept. of Economics (1971-72), B.A., Eastern Washington State C.; M.A., Ph. D. Washington St. U.
- James M. Hemsley, Capt.** (1969) Asst. Prof. of Military Science, B.S., Johns Hopkins U.
- John R. Henry** (1970) Vstg. Instr. in Art, B.A. in Art Ed., U. of Dayton; M.A.T., Antioch C.
- Lula A. Hepton** (1966) Assoc. Prof. of Education (1971), B.A. in Ed., Eastern Washington State C.; M.Ed., Ed.D., U. of Idaho

- Robert B. Hermanson** (1970) Asst. Prof. of Management, B.S., M.B.A., U. of California at Berkeley
- Robert C. Herold** (1969) Asst. Prof. of Political Science, B.A., Brigham Young U.; M.A., Ph.D., George Washington U.
- Michel E. Hess, Capt.** (1971) Asst. Prof. of Military Science, B.A., Eastern Washington State C.
- Perry C. Higman** (1971) Asst. Prof. of Spanish, B.A., Pomona C.; M.A., U. of Iowa
- Robert R. Hiltabrand** (1970)* Asst. Prof. of Geology, B.S., M.S., Illinois State U.; Ph.D., Louisiana State U.
* Leave of Absence, 1971-72
- William Hoekendorf** (1967) Dean, Division of Sciences (1970), Prof. of Economics (1970), B.A., M.A., Ph.D., U. of Washington
- Richard E. Hoover** (1965) Assoc. Prof. of Journalism (1970), Director of Journalism (1970), A.B., M.A., Gonzaga U.
- Howard E. Hopf** (1962) Ch., Dept. of Radio-Television (1964), Prof. of Radio-Television (1970), B.A., San Diego State C.; M.S., Syracuse U.; Ph.D., Ohio State U.
- Donald R. Horner** (1966) Prof. of Mathematics (1969), B.S., Arlington State C.; M.S., North Texas State U.; Ph.D., New Mexico State U.
- Archie Hornfelt** (1961) Assoc. Prof. of Industrial Education and Technology (1971), B.A. in Ed., M.Ed., Eastern Washington State C.
- H. Kenneth Hossom** (1954) Prof. of Political Science (1960), A.B., Stanford U.; M.F.S., U. of Southern California; Ph.D., Princeton U.
- Charles W. Hough** (1971) Asst. Prof. of Music, B.A., Eastern Baptist C.; M.R.E., Eastern Baptist Seminary; M.C.M., Southwestern Baptist Seminary
- Donald E. Houseworth** (1970) Assoc. Prof. of Sociology, B.A., Western Michigan U.; M.A., U. of Denver; M.A., Ph.D., Brigham Young U.
- James M. Howard** (1970) Dir., ACTION Program (1971), Asst. Prof. of Education (1970), B.S., M.Ed., Ed.D., U. of Oregon
- Ellen L. Humes** (1969) Vstg. Asst. Prof. of Art (1971), B.S., U. of Michigan; M.F.A., Wayne State U.
- Donald E. Hunsaker** (1970) Asst. Prof. of Psychology, B.S., U. of Arizona; M.A., Arizona State U.; Ed.D., U. of Oregon
- Frances Huston** (1955) Prof. of English (1971), B.A., Reed C.; M.A., U. of Washington
- John S. Innes** (1968) Asst. Prof. of History, B.A., Oberlin C.; M.A., Vanderbilt U.; Ph.D. The U. of Texas at Austin
- Darrell B. Irvin, Col.** (1971) Prof. of Military Science (W. 1972), Ch., Dept. of Military Science (W. and S. 1972), B.S., Montana State U.; M.B.A., U. of Alabama
- Jerry E. Johns** (1963)* Assoc. Prof. of Biology (1969), B.A. in Ed. Eastern Washington State C.; M.S. in Ed., Ph.D., U. of Montana
* Sabbatical Leave, 1971-72
- Merritt A. Johnson** (1952) Spec. Lect. in Business Law, J.D., Gonzaga U.
- Sidney J. Johnson** (1970) Instr. in Management, B.A., M.S., Eastern Washington State C.
- Mary B. Johnston** (1970) Ch., Dept. of Home Economics, Assoc. Prof. of Home Economics, B.S., M.A., U. of Washington; Ph.D., U. of Wisconsin
- Wendal S. Jones** (1967) Prof. of Music (1969), B.A., M.A., Colorado State C.; Ph.D., U. of Iowa
- George J. Kabat** (1959) Prof. of Sociology and Education (1966), B.A. in Ed., Winona State C.; M.A., U. of Colorado; Ph.D., U. of Maryland
- Donald E. Kallem** (1964) Asst. Prof. of Health and Physical Education, B.S., State U. of Iowa, M.S., Northern Illinois U.
- Alexander Kara-Sokol** (1966) Asst. Prof. of Russian, B.A., Teachers C. (Moscow, Russia); M.A., Windham C.
- Henry D. Kass** (1962) Prof. of Political Science (1971), Dir., Center for Community Development (1970), B.A., Alfred U.; M.A., Ph.D., American U.
- Sidney K. Kasuga** (1970) Asst. Prof. of Biology, B.A., Lewis & Clark C.; M.S., Ph.D., U. of Montana
- Charles D. Kavaloski** (1968)* Prof. of Physics (1971), B.S., M.S., Ph.D., U. of Minnesota
* Leave of Absence, 1971-72
- Roland J. Keefer** (1961) Assoc. Prof. of Mathematics (1971), B.A., M.A., U. of Montana
- Bruce J. Kellam** (1969) Asst. Prof. of Marketing (1970), B.S., M.B.A., Sacramento State C.
- Sarah A. C. Keller** (1966) Assoc. Prof. of Anthropology (1971), A.B., Lawrence C.; Ph.D., Harvard U.
- E. Allen Kent** (1969) Asst. Prof. of Drama, B.A., M.A., U. of Washington
- Robert W. Keyser** (1969) Vstg. Asst. Prof. of Anthropology, B.A., M.A., U. of Minnesota
- William R. Kidd** (1957) Assoc. Prof. of History (1970), B.A., M.A., U. of Washington
- James K. Kieswetter** (1968) Assoc. Prof. of History (1971), B.M., M.A., Ph.D., U. of Colorado
- Orland B. Killin** (1953) Assoc. Prof. of Industrial Education and Technology (1967), B.A., U. of Washington; M.Ed., Oregon State U.
- Bernard Kingsly** (1955) Assoc. Prof. of Education (1971), B.S., Brockport State Teachers C.; M.A., Teachers C., Columbia U.
- Larry L. Kiser** (1971)* Asst. Prof. of Economics, B.S., Edinboro State C.
* Leave of Absence, 1971-72
- Eugene P. Kiver** (1968) Assoc. Prof. of Geology (1971), Ch., Dept. of Geology (1971), B.A., Case Western Reserve U.; Ph.D., U. of Wyoming
- D. Keith Kleven** (1970) Asst. Prof. of Physical Therapy, B.S., M.S., Brigham Young U.
- Jean E. Koyl** (1971) Asst. Prof. of Sociology, B.A. in Ed., Eastern Washington State C.; M.S.S. Smith C.
- Lawrence A. Kraft** (1966) Asst. Prof. of Speech (1969), B.A., St. Martin's C.; M.A., Whitworth C.
- Wayne B. Kraft** (1968)* Asst. Prof. of German, B.A., Washington State U.; M.A., U. of Washington
* Leave of Absence, 1971-72

- Barbara Y. Kran** (1970) Instr. in Art, B.A., M.A., U. of California at Berkeley; M.F.A., Cranbrook Academy of Art
- Jerome V. Krause** (1967) Assoc. Prof. of Health and Physical Education (1970), Basketball Coach (1967), B.A. in Ed., Wayne State C.; M.A., Ed.D., Colorado State C.
- Raymond P. Krebsbach** (1948) Dir. of General Academic Advising Program (1967), Assoc. Prof. of English (1953), B.A., U. of Nebraska; M.A., Colorado State C.
- Stephen J. Kridelbaugh** (1971) Vstg. Asst. Prof. of Geology, A.B., Wayne State U.; Ph.D., U. of Colorado
- David D. Kuo** (1969) Asst. Prof. of Philosophy and Humanities, A.B., National Taiwan U.; M.A., Indiana U.; Ph.D., Southern Illinois U.
- Bruce Z. Lang** (1967) Assoc. Prof. of Biology (1970), A.B., Michigan State U.; M.S., Ph.D., U. of North Carolina
- Elwyn C. Lapoint** (1971) Asst. Prof. of Anthropology, B.A., Miami U.; M.A., Ph.D., Cornell U.
- Robert N. Lass** (1947) Prof. of English (1953), B.A., M.A., Ph.D., U. of Iowa
- Frederick M. Lauritsen** (1969) Asst. Prof. of History, B.A., M.A., U. of Minnesota
- Dennis D. Lazzar** (1970) Vstg. Instr. in Physical Education, B.A. in Ed., Eastern Washington State C.
- Andrea L. Lefler** (1970) Instr. in Management, B.A., U. of California; M.A., San Francisco State C.
- Louise M. Leggett** (1970) Vstg. Instr. in Elementary Education, B.A. in Ed., Eastern Washington State C.
- Robert E. Lehto** (1958)* Asst. Prof. of Natural Science (1965), B.A., M.Ed., Western Washington State C.
- * Deceased, December, 1971.
- Jack R. Leighton** (1953) Ch., Depts., Health, Physical Education, Recreation and Athletics (1970), Ch., Dept. of Men's Physical Education (1953), Prof. of Physical Education (1955), B.S., M.S., Ph.D., U. of Oregon
- Bertram A. Lewis** (1964), Assoc. Prof. of English (1970), A.B., Wiley C.; M.A., U. of Nebraska
- Roland B. Lewis** (1959) Exec. Coordinator Teacher Education Programs (1970), Prof. of Education (1959), B.S., Seattle Pacific U.; M.A., Colorado State C.; Ed.D., Stanford U.
- Tsung-Hua Liu** (1970) Asst. Prof. of Economics, B.A., Tunghai U.; M.A., McMaster U.; Ph.D., U. of Toronto
- Daniel R. Long** (1967) Asst. Prof. of Physics, A.B., U. of California; M.S., Ph.D., U. of Washington
- George W. Lotzenhiser** (1960) Ch., Dept. of Music, Prof. of Music, B.A., B.A. in Ed., Eastern Washington State C.; M.Mus., U. of Michigan; Ed.D., U. of Oregon
- Anita H. Magafas** (1970) Asst. Prof. of Recreation and Parks Administration, B.S., Oklahoma Baptist U.; M.S., Indiana U.
- Shane E. Mahoney** (1969) Asst. Prof. of Political Science, B.A., M.A., U. of Notre Dame
- Glen E. Maier** (1957) Prof. of Psychology (1964), B.S., U. of North Dakota-Ellendale Center; M.Ed., Ed.D., U. of Washington
- John E. Malaby** (1968) Asst. Prof. of Psychology, B.S., Oklahoma State U.; Ph.D., U. of Miami
- James J. Maney** (1966) Assoc. Prof. of Education (1969) B.S., Portland State C.; M.Ed., Oregon State U.; Ed.D., U. of Oregon
- Ralph D. Manzo** (1960) Prof. of Music (1967), A.B., Central Washington State C.; A.M., Ed.D., Colorado State C.
- Carroll B. Marchant** (1970) Assoc. Prof. of Education, B.S., Ed.D., U. of Idaho; M.Ed., Central Washington State C.
- James R. Marshall** (1971) Vstg. Asst. Prof. of Geography, B.S., New Mexico State U.; M.A., U. of Kansas
- Philip R. Marshall** (1969) Vice President for Academic Affairs (1971), Prof. of Chemistry (1969), B.A., Earlham C.; M.S., Ph.D., Purdue U.
- Gerald R. Martin** (1970) Vstg. Asst. Prof. of Physical Education, B.A., M.S., Washington State U.
- Jackson J. Martin** (1969) Dir. Campus School, Assoc. Prof. of Education, B.A. in Ed., M.Ed., Eastern Washington State C.; Ed.D., U. of California
- Waldo D. Martin** (1970) Assoc. Prof. of Industrial Education and Technology, B.S., Purdue U.; M.S., Ed.D., U. of Illinois-Urbana-Champaign
- Gordon D. Martinen** (1966) Assoc. Prof. of Education (1969), B.A. in Ed., M.Ed., Central Washington State C.; Ed.D., U. of Idaho
- John D. Massengale** (1969), Head Football Coach (1971), Assoc. Prof. of Physical Education (1971), B.S. in Ed., Northwest Missouri State C.; M.S., Illinois State U.; Ed.D., U. of New Mexico
- William L. Maxson** (1959) Prof. of Music (1970), B.M., M.M., Indiana U.; Ed.D., U. of Idaho
- James J. McAuley** (1970) Asst. Prof. of English, B.A., University C. (Dublin); M.F.A., U. of Arkansas
- Kenneth Gary McCain** (1971), Vstg. Instr. in Management, B.S., M.S., Eastern Washington State C.
- Howard McConeghey** (1967) Assoc. Prof. of Art, B.F.A., Washington U.; M.A., New Mexico Highlands U.; Ed.D., Michigan State U.
- Kathryn McCulloch** (1953) Asst. Prof. of Physical Education (1954), B.A., Baldwin-Wallace C.; M.S., U. of Oregon
- Elroy McDermott** (1965) Ch., Dept. of Management (1968), Prof. of Management (1971), B.S., Utah State U.; M.S., Ph.D., Montana State U.
- William G. McDonough** (1963) Assoc. Prof. of Education (1968), B.A., Southeast Missouri State C.; M.A., Ed.D., U. of Denver
- Judith Lee McElvain** (1966) Asst. Prof. of Psychology, B.A., M.Ed., Eastern Washington State C.; Ph.D., Washington State U.
- Ernest C. McGoran** (1966) Assoc. Prof. of Chemistry (1970), A.B., U. of Oregon; Ph.D., U. of California
- Winifred C. McGrew** (1971) Adjunct Clinical Instr. in Speech-Speech Correction, B.A. in Ed., M.A. in Speech Pathology, Eastern Washington State C.
- Diane McHenry** (1970) Instr. in Dental Hygiene, B.S., U. of Washington

- James E. McKeehan** (1957) Prof. of Mathematics (1971), B.S., Southeastern (Okla.) State C.; M.A., U. of Oklahoma
- George McLaren** (1967) Lect. in Physical Education, B.S., Whitworth C.; M.S., U. of Colorado; M.D., Northwestern U., Diplomate of American Board of Physical Medicine
- Donald McManis** (1969) Assoc. Prof. of Psychology, B.S., Washington State U.; M.S., Ph.D., U. of Oregon
- Patrick F. McManus** (1959)* Assoc. Prof. of Journalism (1971), B.A., M.A., Washington State U.
* Sabbatical Leave, Spring 1972
- James P. McNeill** (1964) Cons. in Otolaryngology, B.S., M.D., U. of California
- John R. Meersman** (1966) Assoc. Prof. of Business Law (1971), M.B.A., J.D., Gonzaga U.; C.L.U.
- Paul Adolph Melchert** (1966) Assoc. Prof. of Psychology (1969), B.S., Elmhurst C.; M.A. in Ed., Ball State U.; Ph.D., Washington State U.
- Gerald Mercer** (1954) Prof. of Education (1964), B.A., Western Washington State C.; M.Ed. Eastern Washington State C.; Ed.D., Colorado State C.
- Goni Michaeloff** (1971) Assoc. Prof. of Speech and Drama, B.S., William Woods C.; M.A., U. of Illinois; Ph.D., Louisiana State U.
- Thomas K. Midgley** (1965) Assoc. Prof. of Education (1971), B.S., M.S., Brigham Young U.; Ed.D., Indiana U.
- Charles E. Miller** (1969) Assoc. Prof. of Education (1971), B.S., M.Ed., U. of Oregon; B.S. in Ed., Eastern Oregon C.; Ed.D., U. of Utah
- Richard F. Miller** (1940) Prof. of English (1954), B.A., U. of Oregon; M.A., Columbia U.; Ph.D., U. of Washington
- Boyd C. Mills** (1966) Dir., Community College Program, Prof. of Higher Education, B.S., Washington State U.; M.S., U. of Puget Sound; Ed.D., Washington State U.
- Hubert P. Mills** (1970) Assoc. Prof. of Management, B.S., Oklahoma State U. of Agric.; M.B.A., Stanford U.; D.B.A., George Washington U.
- Charles B. Minor** (1969) Assoc. Prof. of English, A.B., U. of Chicago; M.A., Ph.D., U. of Denver
- Bruce M. Mitchell** (1968) Assoc. Prof. of Education (1971), B.A., Whittier C.; M.A., U. of Southern Calif.; Ed.D., U. of Denver
- Robert E. Morgenstern** (1970) Asst. Prof. of Psychology, A.B., U. of Montana; M.A., Michigan State U.; Ed.D., U. of Northern Colorado
- Karl R. Morrison** (1952) Prof. of Art (1970), B.F.A., M.F.A., Syracuse U.
- Robert T. Morrow** (1964) Certification Officer (1968), Prof. of Education (1971), B.S., Mayville State C.; M.S., Fresno State C.; Ed.D., Washington State U.
- James M. Moynahan** (1966) Asst. Prof. of Sociology (1970), B.S., Washington State U.; M.A., U. of Montana
- Martin D. Mumma** (1969) Assoc. Prof. of Geology (1971), A.B., A.M., U. of Missouri; Ph.D., Louisiana State U.
- Marvin Mutchnik** (1960) Assoc. Prof. of Music (1967) B.M., U. of Illinois; M.M., Northwestern U.
- Felix E. Mutschler** (1969) Assoc. Prof. of Geology (1970), A.B., Hunter C.; M.S., U. of New Mexico; Ph.D., U. of Colorado
- Allan E. Neils** (1969)* Asst. Prof. of Economics, B.A., Eastern Washington State C.
* Leave of Absence, 1971-72
- Earl V. Nelson** (1971) Vstg. Lect. in Industrial Technology, B.A., Washington State U.
- Frank E. Nelson** (1968) Asst. Prof. of Business Education (1970), B.A., M.Ed., Eastern Washington State C.
- Mary Ann Nelson** (1967) Cons. in Elementary School English, Asst. Prof. of English, B.A., U. of Puget Sound; M.A., U. of Washington
- Claude W. Nichols** (1961) Prof. of History (1970), B.A., U. of Nevada; M.A., Ph.D., U. of Oregon
- Frank D. Nicol** (1953) Dir., Environmental Studies Program (1971), Prof. of Biology (1958), B.S. in Ed., M.S., Northwestern U.; Ph.D., Oregon State U.
- Arie J. Nyman** (1967) Assoc. Prof. of Psychology (1970), A.B., A.M., Temple U.; Ph.D., Washington State U.
- James A. O'Brien** (1966) Assoc. Prof. of Finance (1969), B.A., Gonzaga U.; M.S., D.B.A., U. of Oregon
- Benjamin C. Odum** (1970) Asst. Prof. of History, B.A., U. of Nigeria; M.A., Ph.D., U. of Washington
- Robert B. Olafson** (1967) Assoc. Prof. of English (1970), B.A., Pacific Lutheran U.; M.A., Ph.D., U. of Washington
- Marvin E. Oliver** (1970) Assoc. Prof. of Education, B.S., Washington State U.; B.Ed., U. of Puget Sound; M.Ed., Western Washington State C.; Ph.D. in Ed., Syracuse U.
- Austin A. O'Regan** (1965) Cons. in Secondary School English (1967), Assoc. Prof. of English (1968), B.A., Gonzaga U.; M.Ed., Eastern Washington State C.
- Harriet P. O'Swald** (1969) Asst. Prof. of German, B.A., M.A., Ph.D., U. of Washington
- Helen Pallister** (1968) Assoc. Prof. of Psychology (1970), A.B., Barnard C.; Ph.D., Columbia U.
- Kermit G. Palmer** (1968) Assoc. Prof. of Business Education, B.S., Kansas State Teachers C.; M.S., Ed.D., U. of Southern California
- O. Jerry Parker** (1968) Assoc. Prof. of Chemistry (1971), B.S., M.A., Kansas State Teacher C.; Ph.D., Iowa State U.
- Andrew H. Parnes** (1971) Vstg. Asst. Prof. of Economics, B.A., Williams C.; M.A., Stanford U.
- Dora B. Parsons** (1970) Instr. in Physical Education, B.S., Colorado State U.; B.S., M.S., Utah State U.
- Marguerite Parton** (1964), Asst. Prof. of Elementary Education, B.A., M.A., Whitworth C.
- Lovell E. Patmore** (1950) Prof. of Education and Psychology (1955), Ed.B., Ed.M., U. of Alberta; Ed.D., Stanford U.
- Nancy L. Patton** (1966) Asst. Prof. of English (1971), B.A., B.A. in Ed., M.Ed., Eastern Washington State C.
- William D. Perdue** (1969) Vstg. Asst. Prof. of Sociology, B.S., M.S., East Texas State C.

- Jack Pflug** (1971) Vstg. Instr. in English, B.A., Colorado State U.; M.Ed., Eastern Washington State C.
- Susan G. Pfoehler** (1963) Assoc. Prof. of Drama (1970), B.A., Monmouth C.; M.A., U. of Iowa
- Donald F. Pierce** (1957) Ch., Dept. of History (1966), Prof. of History (1965), A.B., M.A., Ph.D., U. of Iowa
- Keith A. Pierce** (1970) Assoc. Prof. of Education, A.B., Wheaton C.; M.Ed., D.Ed., U. of Oregon
- Walter L. Powers** (1954) Prof. of Psychology and Education (1962), A.B., Linfield C.; A.M., Ed.D., Colorado State C.
- Daniel B. Prather** (1971) Asst. Prof. of Geography, B.A., San Jose State C.; M.A., U. of Washington
- Demitrios P. Prekeges** (1963) Assoc. Prof. of Mathematics (1970), B.A., Eastern Washington State C.; M.A., U. of Montana
- Andy W. Pribnow, Col. Arty.** (1967)* Ch., Military Science, Prof. of Military Science, B.S., Oregon State U.; Army War C.
- * Retired January 1972
- Alfred J. Prince** (1963) Ch., Dept. of Sociology (1970), Prof. of Sociology (1969), B.A., M.A., U. of Idaho; M.S.W., Our Lady of the Lake C., Ph.D., Washington State U.
- Louise Prugh** (1964) Asst. Prof. of Home Economics (1969), B.S., U. of Nebraska; M.Ed., Eastern Washington State C.
- Thomas W. Pyle** (1969) Asst. Prof. of Psychology, B.A., Arlington State C.; M.A., Ph.D., U. of Texas
- Herbert K. Quincy** (1970) Asst. Prof. of Political Science, B.A., M.A., U. of California at Los Angeles
- Clifford A. Rajala** (1958) Prof. of Geography (1969), B.A., M.A., Ph.D., U. of Michigan
- Adam R. Raley** (1970) Asst. Prof. of Humanities and Philosophy, B.A., St. Johns' U.; STB, STL Pontificium Atheneum Anselmianum, Rome; STD, Lateran U., Academia Alfonsiana, Rome
- Ronald J. Raver** (1968) Instr. in Physical Education, B.A., Nebraska State Teachers C.; M.Ed., Eastern Washington State C.
- Robert W. Reid**, (1953) Prof. of Education (1959), B.A. in Ed., M.Ed., Eastern Washington State C.; Ed.D., Colorado State C.
- Arthur G. Reitsch** (1969)* Asst. Prof. of Quantitative Analysis, B.S., U. of Washington; M.B.A., Stanford U.
- * Leave of Absence, 1971-72
- Robert O. Rich** (1970) Asst. Prof. of Sociology, B.A., M.S.W., U. of Utah; Ph.D., Brigham Young U.
- Preston O. Ritter** (1970) Asst. Prof. of Chemistry, B.S., U. of California, Berkeley; M.S., Ph.D., U. of Wisconsin
- Travis Rivers** (1963) Assoc. Prof. of Music (1971), B.M., Baylor U.; M.A., U. of Iowa
- George T. Robertson** (1954) Prof. of French and Spanish (1960), Licence-es-sciences sociales, U. of Lausanne; B.A., U. of Alberta; M.A., Ph.D., U. of Virginia
- Stanley F. Robinson** (1966) Prof. of Mathematics (1969), B.A., UCLA; M.A., Ph.D., U. of Southern California
- Frank M. Rosekrans III** (1969) Asst. Prof. of Psychology, B.A., M.A., U. of Minnesota; Ph.D., U. of California at Santa Barbara
- John A. Ross** (1968) Asst. Prof. of Anthropology, B.A., U. of Montana; M.A., Washington State U.
- David S. Rostkoski** (1970) Assoc. Prof. of Music (1971), B.M., Oberlin C.; M.M., Northwestern U.; D.M.A., U. of Washington
- Irvin J. Roth** (1968) Asst. Prof. of Geography, B.A., Antioch C.; M.A., U. of Chicago; Ph.D., Syracuse U.
- William A. Rottmayer** (1970) Asst. Prof. of Philosophy, B.A., M.A., Ohio State U.; Ph.D., Stanford U.
- J. Thomas Rulon** (1964) Cons. in Otolaryngology, B.S., Jamestown C.; M.D., C.M., McGill U.
- Kenneth A. Runeberg** (1967) Instr. in Accounting, B.S., U. of Southern Mississippi; M.B.A., Southern Methodist U.
- Bill B. Sage** (1965) Assoc. Prof. of Art (1971), B.S., Black Hills Teachers C.; M.A.A., Montana State U.; M.F.A., Mills C.
- Robert E. Salsbury, Jr.** (1968) Assoc. Prof. of Education (1970), B.A., M.Ed. Eastern Washington State C., Ed.D., Washington State U.
- Dick T. Sampson** (1967) Assoc. Prof. of Psychology (1970), B.A., U. of Washington; A.M., Ed.D., Colorado State C.
- Ray C. Sawyer** (1963) Assoc. Prof. of Mathematics (1971), B.S. in Ed., M.Nat. Sci., U. of Idaho
- Francis J. Schadegg** (1946) Dir., Center for Urban and Regional Planning (1968), Prof. of Geography (1968), B.A. in Ed., Eastern Washington State C.; M.A., Clark U.
- Raymond L. Schults** (1957) Prof. of History (1967), B.A., Drew U.; M.A., Ph.D., U. of California, L.A.
- Joseph F. Schuster** (1968) Assoc. Prof. of Political Science (1970), B.A., St. Benedict's C.; M.A., St. Louis U.; Ph.D., Pennsylvania State U.
- Dennis E. Schwalm** (1965)* Ch., Dept. of Physics, Prof. of Physics, B.S. in Engin., M.S., Ph.D., U. of Colorado
- * Sabbatical Leave, 1971-72
- Stephen H. Scott** (1969) Dir. of Philosophy (1970), Asst. Prof. of Philosophy (1969), B.A., Marquette U.; M.A., U. of Toronto; Ph.D., Indiana U.
- Howard M. Shapiro** (1970) Asst. Prof. of Accounting, B.S., Syracuse U.; M.S., U. of Massachusetts; CPA Massachusetts
- Alvie L. Shaw** (1967) Coord. of Education Program, Development and School Services (1970), Assoc. Prof. of Education (1970), B.A., M.A., Eastern Washington State C.; Ed.D., U. of Denver
- Suk-Han Shin** (1969) Asst. Prof. of Geography, A.B., Seoul U.; M.A., Clark U.
- William C. Shreeve** (1967) Assoc. Prof. of Education (1970), B.A., M.Ed., U. of Montana; Ed.D., Colorado State C.
- Emerson C. Shuck** (1967) President, Prof. of English, B.S., Otterbein C.; M.A., Ohio State U.; Ph.D., U. of Wisconsin

- Steven M. Simmons** (1969) Asst. Prof. of Mathematics, B.A., Reed C.; M.S., U. of Oregon
- Horace R. Simms** (1966) Prof. of Biology (1971), B.S., M.S., U. of New Mexico; Ph.D., U. of Colorado
- Benjamin T. Sims** (1967) Prof. of Mathematics (1971), A.B., A.M., U. of Missouri; Ph.D., Iowa State U.
- John R. Sims, Maj. Art.** (1970) Asst. Prof. of Military Science, B.S., U. of Washington
- Clifton M. Smith** (1970) Dir., Dental Hygiene Program, Assoc. Prof. of Dental Hygiene, A.B., Louisiana State U.; B.A. in Ed., Eastern Washington State C.; M.S. in Ed., U. of Southern California; D.D.S., U. of Washington Dental School
- Grant W. Smith** (1968) Asst. Prof. of English, B.A., Reed C.; M.A., U. of Nevada
- Robert B. Smith** (1958)* Prof. of English (1968), B.A., U. of Puget Sound; Ph.D., U. of Washington
* Sabbatical Leave, W. & S.-1972
- Russell J. Smith** (1955) Assoc. Prof. of Accounting (1968), B.S. in Business Adm., Bowling Green State U.; M.B.A., U. of Denver
- Sam S. Smith** (1966) Assoc. Prof. of Music (1969), B.A., U. of Montana; M.M., Northwestern U.
- Katherine Snipes** (1963) Asst. Prof. of English (1969), B.A., M.Ed., Eastern Washington State C.
- James R. Snook** (1967) Assoc. Prof. of Geology (1969), B.S., M.S., Oregon State C.; Ph.D., U. of Washington
- Russell A. Snyder** (1969) Assoc. Prof. of Economics, A.B., M.A., Ph.D., U. of Illinois
- Raymond A. Soltero** (1971) Asst. Prof. of Biology, B.S., M.S., Ph.D., Montana State U.
- Stephen S. Spacek** (1958) Asst. Prof. of Elementary Education (1963), B.A. in Ed., Eastern Washington State C.; M.A., Colorado State C.
- George Stahl** (1947) Assoc. Prof. of Physics (1955), B.A., Huron C. (S.D.); M.A., Colorado State C.
- William K. Steele** (1970) Asst. Prof. of Geology, B.S., Case Institute of Technology; Ph.D., Case Western Reserve U.
- Henry-York Steiner** (1968) Dean of Undergraduate Studies, Assoc. Prof. of English, B.A., Grinnell C.; M.A., Yale U.; Ph.D., U. of Oregon
- Jack J. Stephens** (1970) Assoc. Prof. of Sociology, B.S., Montana State U.; M.A., U. of Montana; Ph.D., Purdue U.
- Harold K. Stevens** (1946) Dean, Div. of Arts and Letters (1970), Prof. of Speech and Drama (1959), B.A. in Ed., Eastern Washington State C.; M.A., Northwestern U.; Ph.D., U. of Denver
- Vincent Leroy Stevens** (1959) Ch., Dept. of Chemistry (1970), Prof. of Chemistry (1967), A.B., Ph.D., U. of California
- Geraldine A. Stevenson** (1971) Vstg. Lect. in Home Economics, B.S., U. of Idaho
- Earle K. Stewart** (1957) Prof. of Sociology (1963); B.A., M.A., Willamette U.; Ph.D., U. of California
- Norman W. Stone** (1956) Assoc. Prof. of Mathematics (1968), B.S., M.Ed., Oregon State U.
- Wesley C. Stone** (1970) Asst. Prof. of Mathematics; B.A., Eastern Washington State C.; M.S., Ph.D., U. of Idaho
- Dale F. Stradling** (1965) Assoc. Prof. of Geography (1970), B.A. in Ed., B.A., M.Ed., Eastern Washington State C.
- Fred S. Strange** (1970) Asst. Prof. of Anthropology, B.A., U. of California, Berkeley
- Ralph P. Stredwick** (1957) Asst. Prof. of Elementary Education (1964), B.A. in Ed., M.Ed., Eastern Washington State C., Ed.D., WSU.
- Arnold F. Stueckle** (1968) Assoc. Prof. of Education (1971), B.A., M.Ed., Whitworth C.; Ed.D., U. of Idaho
- Hugh D. Sullivan** (1967) Ch., Dept. of Mathematics (1970), Assoc. Prof. of Mathematics (1971), B.A., M.A., U. of Montana; Ph.D., Washington State U.
- Camilla Surbeck** (1954) Asst. Prof. of Elementary Education (1971), B.S., McPherson C.; M.Ed., Eastern Washington State C.
- Jack A. Swan** (1970) Asst. Prof. of Mathematics, B.S., Eastern Montana C. of Education; M.A., U. of Montana
- Kenneth Swedberg** (1962) Ch, Dept. of Biology (1971), Prof. of Biology (1969), B.S., St. Cloud State C.; M.S., U. of Minnesota; Ph.D., Oregon State U.
- William D. Syhlman** (1966)* Asst. Prof. of Distributive Education (1968), B.A., M.A. in Ed., Iowa State C.
* Leave of Absence, 1971-72
- Benard H. Taylor** (1962) Dir., Counseling Center (1965), Prof. of Psychology (1968), B.A., Eastern Washington State C.; M.S. Ph.D., U. of Washington.
- R. Jean Taylor** (1947) Prof. of English (1962), B.A. in Ed., Radford C.; M.A., U. of Washington; Ph.D., U. of Minnesota
- Grant R. Thomas** (1964) Dean, Div. of Professional Programs (1970), Prof. of Marketing (1967), B.S., M.S., U. of Utah; D.B.A., U. of Oregon
- William D. Thomas** (1958) Dir., College Writing Program (1965), Assoc. Prof. of English (1967), B.A., Whitman C.; B.A. in Ed., M.Ed., Eastern Washington State C.
- W. Radford Thomas** (1970) Ch., Dept. of Art, Prof. of Art, B.F.A., U. of Texas; M.A., New Mexico Highlands U.; Ph.D., U. of Texas at Austin.
- Duane G. Thompson** (1966) Assoc. Prof. of Psychology (1969); B.S., M.S., Ph.D., U. of Oregon
- Norman S. Thompson** (1954) Ch. Dept. of Business Education (1965), Prof. of Business Education (1967), A.B., U. of Minnesota; A.M., Ed.D., Colorado State C.
- Robert G. Thompson** (1964) Prof. of Mathematics, B.S., M.A., U. of Nebraska; Ph.D., U. of Colorado
- Robert B. Throckmorton** (1967) Asst. Prof. of Sociology, B.A., Eastern Washington State C.; M.A., U. of Washington
- Thorne L. Tibbitts** (1960) Dir., Recreation and Parks Administration (1970), Asst. Prof. of Rec. & Parks Adm., (1969), B.S., M.S., Washington State U.
- Keith Tracy** (1964) Asst. Prof. of English, B.A., U. of Washington; M.A.T., Reed C.
- Lynn G. Triplett** (1970) Asst. Prof. of History, B.A., Idaho State U.; M.A., U. of Hawaii

- William H. Trefry** (1970) Lect. in Oral Biology, D.D.S., U. of Washington Dental School
- W. Thomas Trulove** (1969) Asst. Prof. of Economics, B.S., M.S., U. of Oregon
- Ingeborg O. Urcia** (1969) Asst. Prof. of English, B.A., M.A., Ph.D., U. of Washington
- Loyd W. VandeBerg** (1947) Prof. of Industrial Education and Technology (1958), B.S., M.S., The Stout State U.; Ed.D., U. of Missouri
- Norman V. Vigfusson** (1969) Asst. Prof. of Biology, B.S.A., U. of Manitoba; Ph.D., U. of Alberta
- William L. Waddington** (1957)* Assoc. Prof. of English (1970), B.A., M.A., U. of Washington
* Sabbatical Leave, 1971-72
- Donald C. Wall** (1970) Assoc. Prof. of English and Humanities, B.A., Syracuse U.; M.A., Ph.D., The Florida State U.
- James P. Wallace** (1967) Assoc. Prof. of Political Science (1970), A.B., San Diego State C.; M.A., Long Beach State C.; Ph.D., U. of California, L.A.
- Larry C. Walrath** (1970) Asst. Prof. of Psychology, B.A., Cornell C.; Ph.D., U. of California
- Robert A. Webster** (1969) Ch., Dept. of Geography (Spr. 1971), Asst. Prof. of Geography (1969), B.A., Ph.D., U. of Reading (England)
- David S. Weekes** (1963) Asst. Prof. of English (1964), B.A., M.A., Pacific U.
- Phillip J. Weller** (1969) Asst. Prof. of English, B.A., U. of Puget Sound; M.A., Washington State U.; Ph.D., Kent State U.
- Helen J. Westrum** (1966) Asst. Prof. of Home Economics (1969), B.S., M.S., U. of Montana
- Wesley T. Westrum** (1961) Assoc. Prof. of Music (1971), B.S., U. of North Dakota; A.M., Colorado State U.
- Richard O. Whitcomb** (1968) Ch., Dept. of Foreign Languages, Prof. of German, B.A., Bowdoin C.; M.A., Harvard U.; Ph.D., Stanford U.
- Noel D. White** (1970) Asst. Prof. of Speech, B.S. in Ed., State U. of New York; M.A., U. of Kansas; Ph.D., Ohio U.
- Ronald J. White** (1965)* Assoc. Prof. of Biology (1970), B.S., California State Polytechnic C.; M.S., Ph.D., Oregon State U.
* Sabbatical Leave, 1971-72
- M. Patrick Whitehill** (1957) Prof. of Physical Education (1970), B.A. in Ed., M.Ed., Eastern Washington State C.; M.S., Ed.D., U. of Oregon
- Raymond P. Whitfield** (1949)* Dean, Graduate Studies (1955), Prof. of Education (1955), B.A., Central Washington State C.; M.A. Ed.D., Stanford U.
* Sabbatical Leave, W. & S., 1972
- Don D. Wiley** (1970) Assoc. Prof. of Education, B.S. in Ed., Kansas State Teachers C.; M.S., Ed.D. U. of Washington
- Robert F. Wilkens** (1968) Assoc. Prof. of Education (1971), B.S., State Teachers C. (N.D.); A.M., Ed.D., Colorado State C.
- William L. Wilkerson** (1958) Asst. Prof. of Geology (1967), B.S., M.S., U. of Oregon
- William G. Williams** (1969) Asst. Prof. of Education, B.S., Jamestown C.; M.S., U. of North Dakota; Ed.D., Ball State U.
- Lewellyn L. Wilson** (1968) Prof. of Speech (1971), B.A., U. of Washington; M.A., Ph.D., Northwestern U.
- William C. Wilson** (1962) Prof. of Education (1969), B.S., Southern Oregon C.; B.A., Northwest Nazarene C.; M.A. Colorado State C.; Ed.D., U. of California
- W. Thomas Wischmeyer** (1971) Asst. Prof. of Quantitative Analysis, B.A., Augustana C.; M.S., State U. of Iowa
- Frederick G. Wong, Capt. Inf.** (1970) Asst. Prof. of Military Science, B.A., Eastern Washington State C.
- H. T. Wong** (1968) Asst. Prof. of History, B.A., M.A., U. of California, L.A.
- Lois W. Woodell** (1965) Asst. Prof. of Business Education (1968), B.A. in Ed., M.Ed., Eastern Washington State C.
- Brent A. Wooten** (1963)* Asst. Prof. of Physical Education (1968), B.A., U. of Washington; M.Ed., Eastern Washington State C.
* Leave of Absence, 1971-72
- John L. Wright** (1971) Asst. Prof. of Russian, B.A., M.A., U. of Wisconsin
- Matthew T. Wright** (1970) Asst. Prof. of Higher Education, B.A., U. of Washington; M.S., New Mexico Highlands U.; Ph.D., Washington State U.
- William R. Wynd** (1970) Assoc. Prof. of Marketing, B.S., Oklahoma State; M.S., Auburn U.; M.B.A., Ph.D., Michigan State U.
- Edmund Yarwood** (1968)* Asst. Prof. of Russian and English, B.A., M.A., State U. of New York at Albany
* Leave of Absence, 1971-72
- Shik Chun Young** (1966) Assoc. Prof. of Economics (1969), B.A., Chun Chi C. (Hong Kong); M.A., Baylor U.; Ph.D., Washington State U.
- Niel T. Zimmerman** (1970) Asst. Prof. of Political Science, A.B., M.A., Ph.D., U. of California at Riverside
- John Zurenko** (1968) Ch. Dept. of Accounting and Quantitative Analysis (1971), Assoc. Prof. of Quantitative Analysis (1971), B.A., Fort Lewis Agricultural and Mechanical C.; M.S., Ph.D., U. of Montana
- Martin J. Zyskowski** (1968) Asst. Prof. of Music (1970), B.M. M.M., U. of Michigan

EMERITI

- Louise C. Anderson** (1915) Professor Emeritus of Foods and Nutrition (1956)
- James A. Barnes** (1957) Professor Emeritus of Education (1969)
- Amsel Barton** (1940) Professor Emeritus of Education (1968)
- E. L. Dales** (1916) Professor Emeritus of Industrial Arts (1959)
- Aretas A. Dayton** (1942) Professor Emeritus of History and Economics (1970)
- Daphne Dodds** (1947) Professor Emeritus of English and Radio-TV (1964)

- Cecil Dryden** (1923) Professor Emeritus of History (1957)
H. Antoinette Dustin (1920) Professor Emeritus of Physical Education (1964)
Esther Gingrich (1930) Professor Emeritus of Art (1970)
Evelyn Goodsell (1927) Professor Emeritus of Music (1960)
Clara May Graybill (1949) Professor Emeritus of Education (1959)
Robert Hanrahan (1951) Professor Emeritus of Art (1971)
Charlotte Hepperle (1948) Professor Emeritus of German (1967)
Clara Kessler (1947) Professor Emeritus of English (1969)
Margaret McGrath (1928) Professor Emeritus of Education (1956)
Alice Moe (1954) Professor Emeritus of Speech (1969)
N. William Newsom (1952) Professor Emeritus of Education (1964)
Don S. Patterson (1954) President Emeritus (1967)
Kate Brodnax Philips (1928) Professor Emeritus of Textiles and Clothing (1956)
W. B. Reese (1930) Professor Emeritus of Physical Education, Coach (1964)
William Lloyd Rowles (1929) Professor Emeritus of Music; Head, Division of Music (1960)
William H. Tallyn (1925) Professor Emeritus of Chemistry (1956)
Obed J. Williamson (1932) Professor Emeritus of Education (1966)

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- Philip R. Marshall**, Vice President of Academic Affairs
Roy K. Behm, Acting Dean of Graduate Studies (Winter, Spring 1972)
Joseph W. Chatburn, Dean of Continuing Education and Coordinator of Summer Session
William Hoekendorf, Dean of the Division of Sciences
Henry-York Steiner, Dean of Undergraduate Studies
Harold K. Stevens, Dean of the Division of Arts and Letters
Grant R. Thomas, Dean of the Division of Professional Programs
Raymond P. Whitfield, Dean of Graduate Studies—Sabbatical Leave, Winter, Spring 1972

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Donald R. Bell, Director, Center for Human Development
Dorvan Breitenfeldt, Director, Speech and Hearing Clinic
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- Charles H. Baumann, Ph.D.** College Librarian
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Barbara L. Remmerde, M.L.S. Reference Librarian I
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- Francis P. Ammann, B.A. in Ed.**, Coordinator of Student Development
Forrest M. Amsden, M.B.A., Placement Officer for Arts and Sciences
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Margaret J. Nichols, B.A., Payroll and Disbursement Supervisor
Allen Ogdon, M.Ed., Dean of Student Services
Betty Anne Ohrt, M.A., Dean of Women
James Rogers, B.A., Controller
Sue Shackette, B.A., Financial Aid Assistant
Alan Shaw, B.A., Director, Campus Safety
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Walter Zabel, B.A., Director, Student Activities
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Officers of the Senate

William R. Kidd, Chairman
Paul Helsing, Vice Chairman
Norman Thompson, Secretary

Term Expires

Leland G. Alkire	1972	Elroy McDermott	1974
J. Austin Andrews	1973	Robert Morrow	1972
Robert Barr	1974	Robert Olafson	1973
Tom Bonsor	1974	O. Jerry Parker	1972
Richard Boyd	1974	Ben Prather	1973
Robert Carr	1974	Hilda Roberts	1972
Boyd Devin	1972	Frank Rosekrans	1974
John Ford	1973	Robert Salisbury	1973
R. Theodore Gibbons	1972	Ray Schults	1972
Reta Gilbert	1974	Wes Stone	1974
Ernest Gilmour	1973	Duane Thompson	1972
Robert Herold	1973	Norman Thompson	1972
Mary Johnston	1973	Donald Wall	1974
Sarah A. Keller	1972		
Daniel Long	1972	Ex officio Members	
W. Dean Martin	1974	Daryl Hagie	
Gordon Martinen	1974	Fred Johns	
John Massengale	1973	Kenneth Kennedy	
Howard McConeghey	1973	Philip Marshall	
		Emerson Shuck	

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Emerson C. Shuck
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Paul Helsing
Norman Thompson
Robert Morrow
Frank Rosekrans
Elroy McDermott
John Zurenko, Business Affairs
Roland Lewis, Undergraduate Affairs
William Shreeve, Faculty Affairs
Ernest McGoran, Graduate Council
Frank Ammann, Student Personnel

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Frank Nicol
Russell Snyder

Ex officio

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Kenneth Kennedy

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Mark Lobdell
Charles Sealy

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Cecil Dryden	Kenneth Kennedy
Pete Smith	Donald Manson
	One student

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Betty Jay	Patrick Whitehill

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William Hoekendorf, Chairman
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 Henry Kass
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 Brenton Stark, Ex officio

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 Charles Baumann
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 Opal Fleckenstein
 Curtis W. Coffee
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George Lotzenhiser
 Travis Rivers
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 Two students

FACULTY AFFAIRS COUNCIL

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 Michael Green
 Cornelius Groenen
 James O'Brien
 Jerry Parker

Harold Stevens
 Kenneth Swedberg
 Benard Taylor
 W. Thomas Trulove
 Susan Wallace
 Philip Marshall, Ex officio

FACULTY INSURANCE & RETIREMENT COMMITTEE

Ralph Connor, Chmn
 Fred Johns
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Russell Snyder
 David Baird, Ex officio

PERSONNEL POLICIES & MERIT COMMITTEE

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 Philip Anast
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 R. T. Gibbons

Wendal Jones
 James Kieswetter
 Bruce Lang
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SCHOLARSHIP & RESEARCH COMMITTEE

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 Sergio Bocaz
 Peter Buerger
 John Fahey
 Donald Goodwin
 Michael Green

Lula Hepton
 Philip Marshall
 Hubert Mills
 Martin Mumma
 Alfred Prince

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Kenneth Halwas, Chmn
 Donald Barnes
 John Douglas
 James Dolliver
 Patricia Hahn

William Maxson
 Russell Snyder
 Richard Whitcomb
 Joe Chatburn, Ex officio

GRADUATE AFFAIRS COUNCIL

Ernest McGoran, Chmn
 John Fahey
 John Massengale
 Joseph Schuster
 Jean Taylor
 Norman Vigfusson
 Richard Whitcomb

William Williams
Students
 Mary Khan
 George Lee
 Fred Ploeger
Ex officio
 Raymond Whitfield

ARTS & SCIENCES JOURNAL COMMITTEE

Jean Taylor
 Robert Elton
 Bertram Lewis

Vincent Stevens
 Raymond Whitfield

COURSE & PROGRAM APPROVAL COMMITTEE

Duane Thompson
 Roy Behm
 John Fahey

John Massengale
 Mary Khan, student

FELLOWSHIP COMMITTEE

Richard Whitcomb
 Lloyd Billings
 Donald Horner
 William Dirks Thomas

Matthew Wright
 Raymond Whitfield
 Fred Ploeger, student

SELECTION CRITERIA & PROCEDURE COMMITTEE

William Williams, Chairman
 Robert Atwood
 Ray Schults
 Joseph Schuster

Norman Vigfusson
 George Lee, student
 Raymond Whitfield, Ex officio

STUDENT PERSONNEL COUNCIL

Students:
 Mike Kepl
 Niels Peterson
 Tom Wise
 Terry Hill
 Mark Eckerich
 Ralph Adams

Ex officio:
 Daryl Hagie

Frank Ammann, Chmn
 E. Clair McNeal
 David Bell
 Ralph Stredwick
 Mary Ann Nelson
 John Ford

ACADEMIC APPEALS BOARD

Donald Manson, Chmn
 Kent Burnham
 Gabriel Hagelstange
 Ray Krebsbach

Dick Sampson
 Benard Taylor
 Steve McKenzie, Student

ADMISSIONS COMMITTEE

Richard Detsch
 Ray Krebsbach
 Jack Martin
 Demitrios Prekeges
 John Zurenko

Student:
 Dennis Brandt

Ex officio:
 Clair McNeal

COLLEGE DISCIPLINARY COMMITTEE

Dale Stradling
James Flynn
James Kieswetter
Patricia Hahn
Robert Morganstern
Ray Krebsbach, Chmn

Students:
Karen Brown
Loren Groves
Jan Kam
Jimi Williams
Mike Baker

FINANCIAL AIDS & AWARDS COMMITTEE

Benard Taylor, Chmn
David Weekes
Peter Buerger
William McDonough
Russell Hartman
Allen Ogdon

Students:
Chester Irgens
Leonard Waller
Mark Lundstrom
Ex officio:
Kenneth Dolan
Susan Shackette

PUBLICATIONS BOARD

Advisers:
William Cowles III
Kenneth A. Halwas
Richard E. Hoover
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Students:
Dennis Brandt
Dianne Kidney
Colleen McConnell
Ginger Tollefson

REFUNDS COMMITTEE

Donald G. Manson, Chmn
Barbara A. Beetham
Delbert L. Liljegen
Allen Ogdon
One student

UNDERGRADUATE AFFAIRS COUNCIL

Roland Lewis, Chmn
R. Theodore Gibbons
Claude Nichols
Harriet O'Swald
Kermit Palmer
Travis Rivers
Grant Smith
M. Patrick Whitehill

Shik Young
Students:
Bruce Ellis
Pat Hayes
Pat O'Donnell
Ex officio
Henry-York Steiner

BLACK STUDIES COMMITTEE

Donald M. Barnes
Charles Booth
Sgt. David Cole
Edward Hamblin
Henry D. Kass
Philip Marshall
Charles B. Minor
Benjamin C. Odum
Harriet O'Swald
Alfred J. Prince
Stanley F. Robinson
Al C. Stallworth

Jack J. Stephens
Harold K. Stevens
Students:
John Allen
Louis Bell
Tom Graviett
Tommie Hodges
Dwayne Mallory
Talbert Mitchell
Ed Ray
Art Sullivan

CURRICULUM COMMITTEES:

B.A. IN ARTS AND LETTERS

Claude Nichols, Chmn
George A. Durrie
Benjamin T. Sims
Helen Westrum
Lewellyn L. Wilson

B.A. IN PROFESSIONAL PROGRAMS

Shik Young, Chmn
William E. Barr
Norman C. Boulanger
Kent R. Burnham
Herbert K. Quincy
John A. Ross

B.A. IN SCIENCES

Kermit Palmer, Chmn
Darrell W. Bachman
George J. Kabat
William Hoekendorf, Ex officio
Preston O. Ritter
Bill B. Sage
Donald C. Wall

BACHELOR OF SCIENCE

Grant W. Smith, Chmn
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Patricia Hahn
Sidney K. Kasuga
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JOINT COMMITTEE ON TEACHER EDUCATION

Undergraduate Reps.
James Snook, Chmn
Kermit Palmer
Richard Sampson
Graduate Reps.
John R. Fahey
Ernest McGoran
Raymond Whitfield
One student

GENERAL EDUCATION COMMITTEE

Robert J. Gariepy
James R. Snook
Shik Chun Young
one student

ALUMNI BOARD

Officers	Term Expires
William E. Nye, Spokane, President	1972
Walt Schaar, Spokane, President-elect	1972
Chuck Hafner, Spokane, Vice President	1972
Virginia Robinette, Corresponding Secretary	Appt.

Board Members	District
Jack Hall, Colville	1 1972
Robert Olson, Coeur d'Alene	2 1974
Wally Bannon, Davenport	3 1972
Gene G. Kelly, Chelan	4 1973
Harold Kafer, Quincy	5 1973
Dick Campanelli, Walla Walla	6 1972
Margaret Naegle, Richland	7 1974
Melody Thomsen, Bellevue	8 1974
George Sanders, Camas	9 1974
Wayne Chandler, Spokane	10 1972
Charles Naccarato, Spokane Valley	11 1973
Robert Fairchild, Spokane	12 1973
Carl Jones, Spokane (co-director)	12 1973
Stan Sullivan, South Spokane	13 1974
Dick Langum, Monroe	14 1974
Thomas Ennis, Lacey	15 1972
Emerson C. Shuck	EWSC President
John Allen	EWASB President
Jim DeWalt	EWASB Executive Vice President
Ramond Giles	Faculty Representative
	Executive Secretary

BUSINESS ADVISORY COUNCIL

Gene R. Christie, CPA	1973
Avery, Olson & Christie	
Winona Clarke	1972
Madison-North Convalescent Center	
Reginald J. Clizbe	1972
Washington Water Power Co.	
Jim Connors	1974
Cater Moving & Storage Co.	
Joseph R. Fay	1974
Spokane Culvert & Fabricating Co.	
Norman A. Gilchrist	1973
Bonneville Power Administration	

Jack P. Griffiths Spokane Chamber of Commerce	1974
David T. Hamer Hamer's	1973
Gerald E. Johnson Vern W. Johnson & Sons, Inc.	1972
Jack Johnston Van Waters & Rogers	1972
Patrick C. Johnstone Spokane Seed Co.	1972
C. R. Monson Kaiser-Trentwood	1974
C. Sidney Piper Fidelity Mutual Savings Bank	1973
Douglas M. Thomas Columbia Lighting, Inc.	1973
Harwood J. Tibbits, Jr. Harwood J. Tibbits & Assoc., Inc.	1974
Charles M. Turner Kaiser-Mead	1974
Jerry White Inland Freight Traffic Service	1972

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Edward Hamblin, Director
Tom Bonsor, Associate Director

Joint Council Officers

Lyle Stewart, President, NW Council on Economic Ed., Seattle
James Calderwood, Western Coord., Joint Council in Economic Ed., South Pasadena, Calif.

Local Advisory Committee

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Gregory Sanford, Consultant for Social Studies, District No. 81
Elmer L. Bierly, Vice President, Old National Bank
Fred Gleaves, Washington Water Power
Scott Hanson, Administrator, Washington Wheat Commission
Paul L. Helsing, Chairman, Economics Department, EWSC
William Hoekendorf, Dean, Division of Sciences, EWSC
Cliff Hussey, Chief Deputy Superintendent, Intermediate School District No. 101
Roland Lewis, Executive Coordinator, Teacher Education Program, EWSC
Omar Lofgren, Division Manager, Pacific Northwest Bell Telephone Company
John Lothspeich, Asst. to the President, EWSC
Lyle E. Stough, Spokane and Eastern Region, Seattle-First National Bank
Kenneth Webster, Building Trades Council

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Russell F. McNeill, President, Old National Bank
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Mrs. Patrick Winston, E1324 20th St., Spokane
Dorothy Hamilton, Graduate Student in Psychology
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Glen O. Fuglsby, Chmn., Dept. of Industrial Ed. and Tech.
Ernest H. Gilmour, Assoc. Prof. of Geology
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Henry D. Kass, Director, Center of Community Development
Elroy McDermott, Chmn., Dept. of Management
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Dr. William Trefry, Spokane

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Ellen Bell, Spokane
Julia Renner, Spokane

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 Ernest C. McGoran, Assoc. Prof. of Chemistry
 Ronald J. White, Assoc. Prof. of Biology
 Gerald F. Estes, Asst. Prof. of Office Administration

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Community College Members	Term Expires
Paul B. L. Anderson, Instructor in Philosophy Seattle Community College	1973
Gary France, Instructor in Psychology Wenatchee Valley College	1974
Wayne Johnson, Administrative Assistant for Special Programs Shoreline Community College	1972
Kenneth K. Knutson, Chairman, Division of Natural Sciences Highline College	1973
Donald Pratton, Dean of Instruction Columbia Basin College	1973
Max Snyder, President Spokane Falls Community College	1974
Rex Wilkes, Instructor in Business Big Bend Community College	1972

EWSC Members

J. Eugene Fletcher, Professor of Education & Psychology
 Robert J. Gariepy, Associate Professor of Humanities & English; Coordinator of Humanities
 Donald R. Horner, Professor of Mathematics
 John Lothspeich, Assistant to the President
 Raymond Schults, Professor of History
 Grant Thomas, Professor of Marketing; Dean, Division of Professional Programs
 Wesley Westrum, Associate Professor of Music

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Henry J. SiJohn, director

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Mrs. Cecilia Bercier	Bob Parisien
Ron Halfmoon	Bill Johnson
Mel Tonasket	Joe Dupris
Hillary Skannon	
Dr. Jack Ridley	Faculty

Students:

Chet Irgens	Dean H.-Y. Steiner
Virgil Gunn	William Wilkerson
Roy Nageak	W. T. Trulove
	Dr. Roland Lewis

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FOR THE CENTER FOR
NURSING EDUCATION**

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 Dr. Melvin Gibson

For Fort Wright College
 Sister Katherine Gray
 Sister Maryanne Blunt

For Whitworth College
 Dr. Alvin Quall
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For Eastern Washington State College
 Mrs. Celia Allen
 Dr. Dana E. Harter

The following are the staff for the Spokane Center for Nursing:

Mrs. Hilda B. Roberts, 1968, Director, Center for Nursing Education, Assoc. Prof. of Nursing; B.S., M.S., U. of Washington.

Mrs. Betty Anderson, 1968, Asst. Prof. of Nursing; B.S., U. of Washington; M.Ed., Whitworth.

Mrs. Joan Brogan, 1971, Asst. Prof. of Nursing; B.A., Northwest Nazarene College; B.S.N., Idaho St. Univ.; M.N., U. of Washington

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Mrs. Peggy Wagner, 1971, Lect. in Nursing; B.S.N., Loma Linda U.

Mrs. Virginia Wood, 1971, Asst. Prof. of Nursing; B.S.N., U. of Oregon; M.S.N., U. of Oregon

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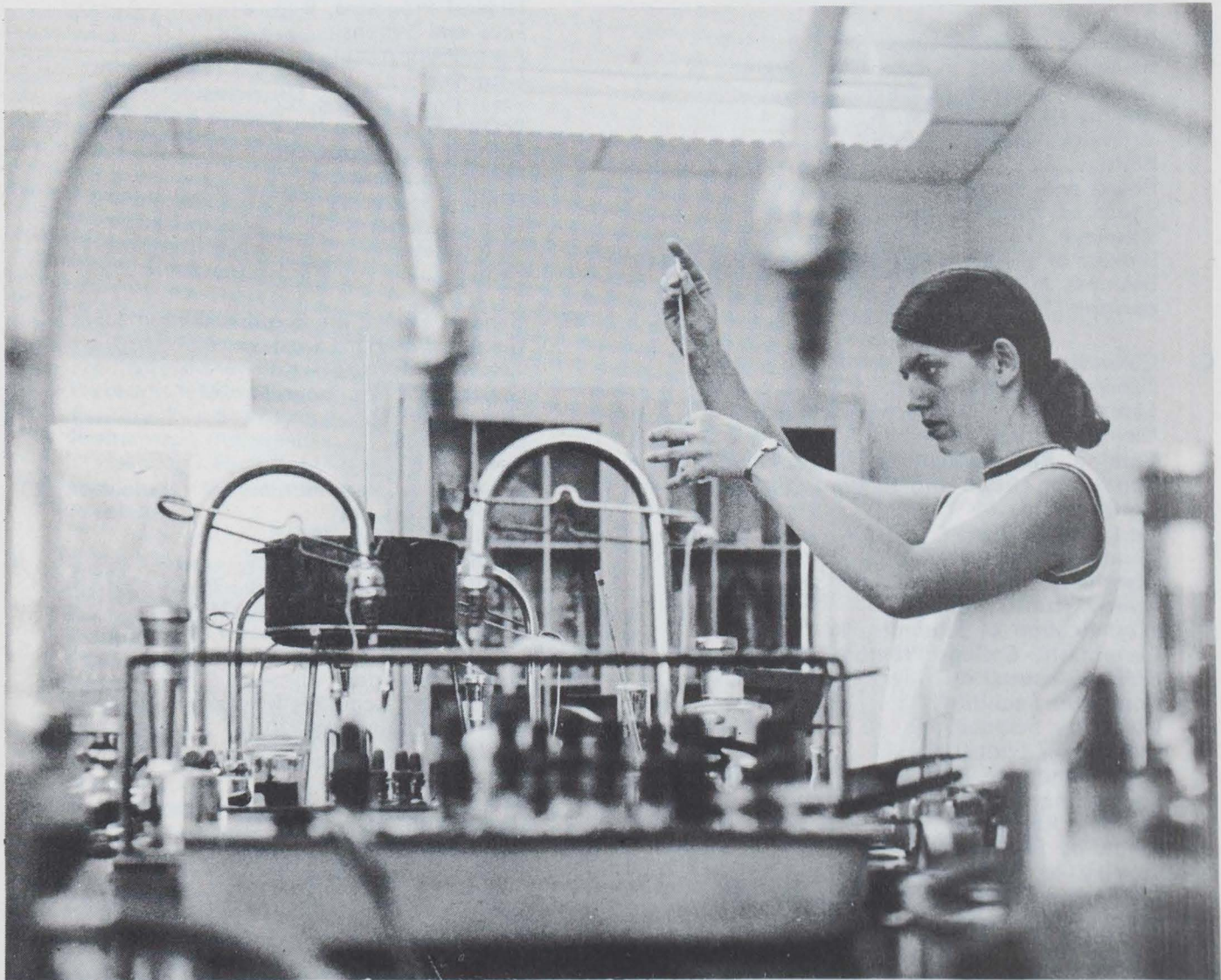
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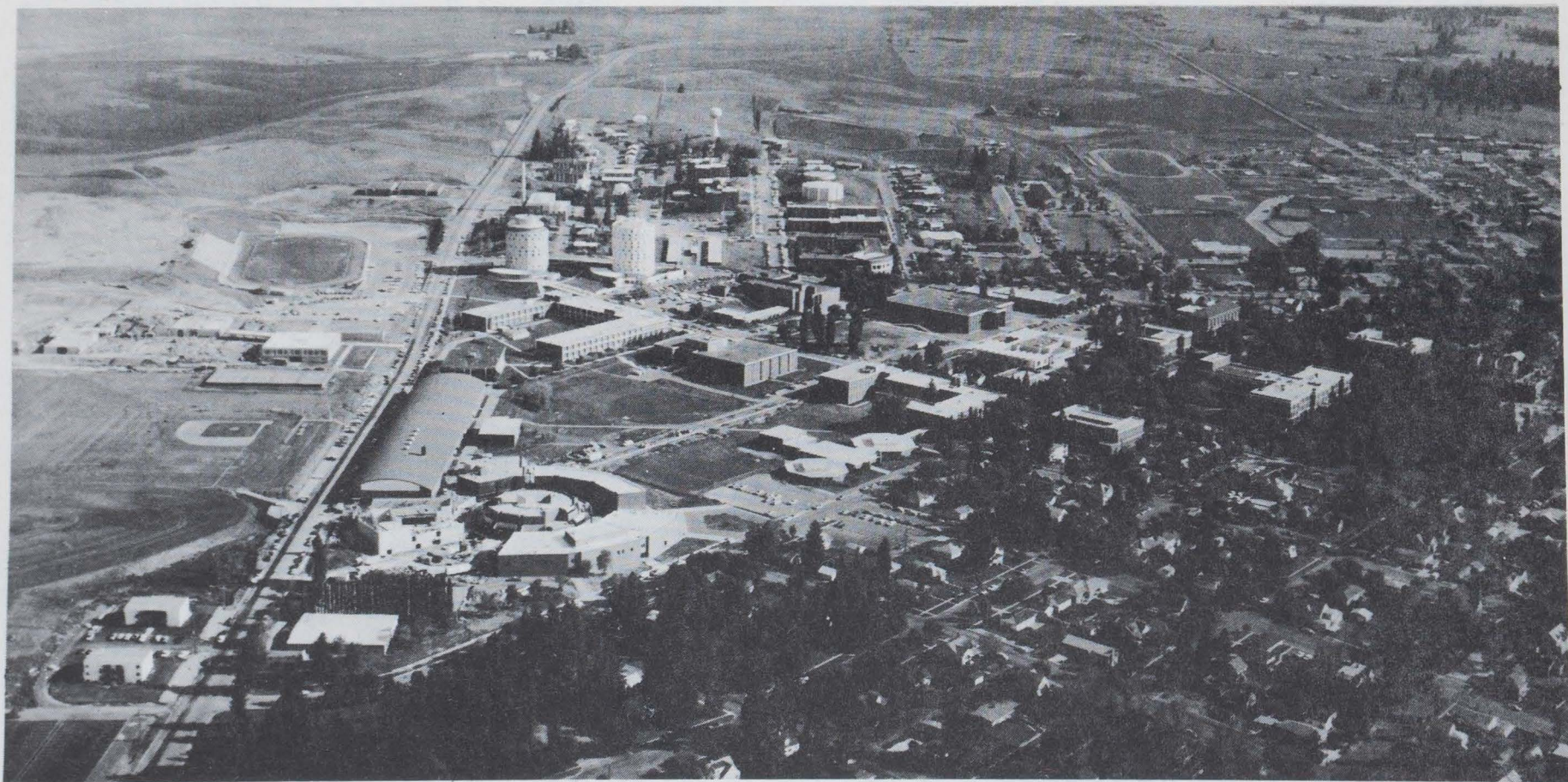


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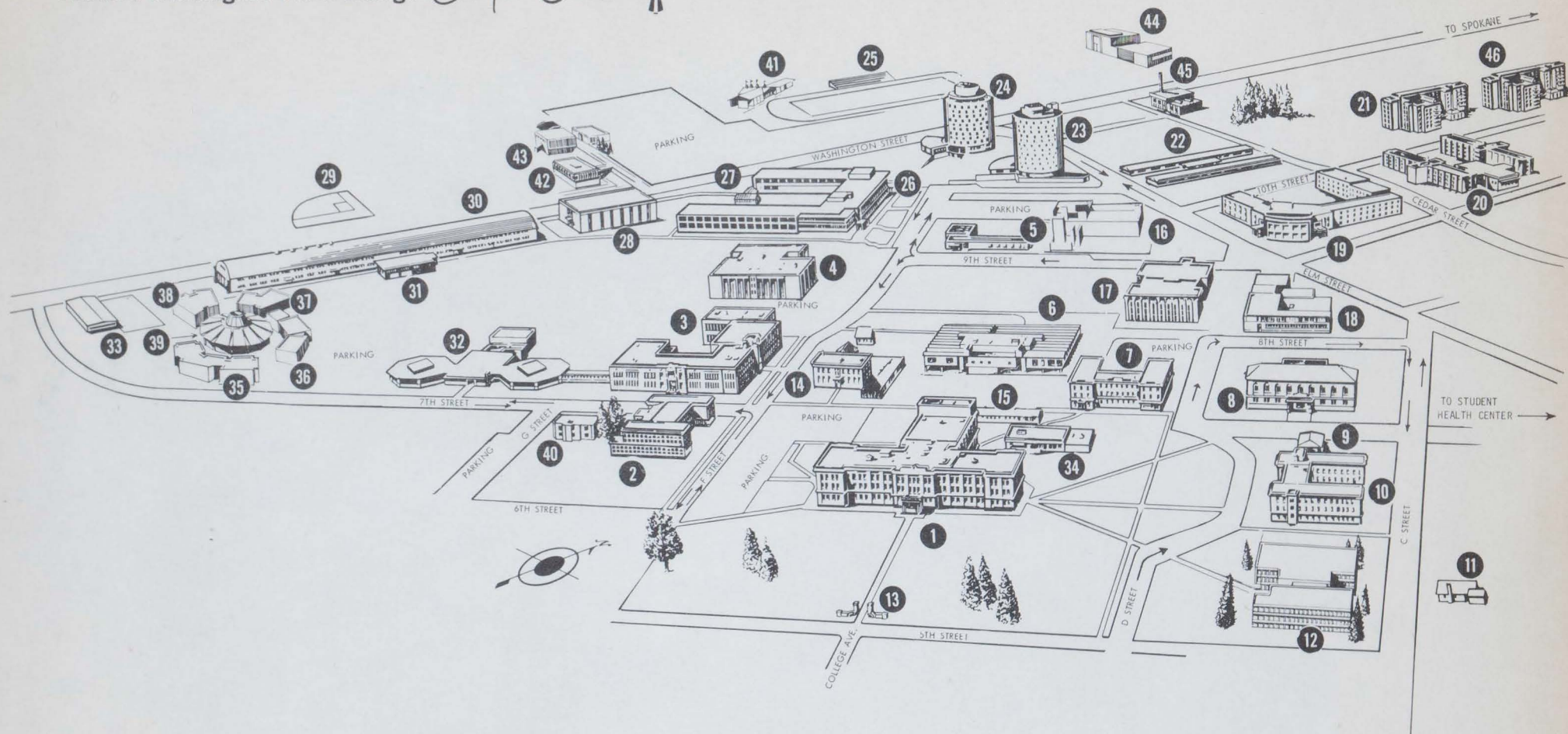
INDEX

- A** Academic Load, 16
 Academic Procedures, 16
 Academic Standards, 19
 Accounting, & Quantitative Analysis, 36
 Accreditation of College, 3
 Administration, 109
 Admission of Special Students, 4
 Admission to the College, 4
 Admission to Professional Degree
 Candidacy, 23
 Advising Service, 9
 Advisory Councils, 122
 Alumni Board, 122
 Anthropology, 102
 Apartments, 11
 Area Studies Program, 29
 Art, 32
 Associated Student Body, 8
 Athletics, 9
 Auditor's Fee, 7
- B** Bachelor of Arts Degree, 21
 Bachelor of Arts in Education Degree, 22
 Bachelor of Science Degree, 24
 Bachelor's Degree Fee, 6
 Bachelor's Degree, Second, 21
 Biology, 32
 Board and Room, 6
 Board of Trustees, 109
 Breakage Fee, 7
 Bureau of Business Research and Service, 14
 Business Administration, 35
 Business Education, 38
- C** Calendar, 2
 Campus Housing, 11
 Campus Guide, Inside back cover
 Campus School, 13
 Catalog, Requirements at Time of Issue, 20
 Center for Urban and Regional Planning, 14
 Certification, 24
 Certification Fee, 7
 Change in Registration, 5
 Chemistry, 42
 Chiron Studies, 13
 Classification of Students, 16
 Community College Program, 43
 College Instruction Advisory Panel, 124
 Computer Facilities, 12
 Computer Science, 82
 Continuing Education, 15
 Correspondence Directory, Inside front cover
 Counseling Center, 9
 Courses, Repeated, 18
 Credit by Examination, 16
 Credit/No Credit, 16
 Credit Requirement for Graduation, 20
 Curricula Outlined, 19
- D** Deans, Academic, 118
 Dental Hygiene, 44
 Dental Hygiene Clinic, 14
 Deposits, 7
 Distributive Education, 39
 Dormitories, 11
 Drama, 44
 Driver Education, 48
 Dropping Classes, 5
- E** Earth Sciences, 66
 Economic Education, Center, 123
 Economics, 45
 Education, 48
 Emeritus Faculty, 118
 Employment, Student, 10
 English, 53
 English Clearance, 23
 Extension and Correspondence Courses, 15
- F** Faculty, 109
 Fairchild AFB Center, 15
 Federal Programs, 9
 Fees and Expenses, 6
 Fees, Prepayment of, 6
 Fifth Year, 23
 Final Examinations, 17
 Financial Aid, 10
 Foreign Languages, 59
 Foreign Students, 4
 Foreign Study, 25
 Former Students, 5
 Fraternities, 9
 French, 61
- G** General Education Requirements, 19
 General Foreign Language, 62
 General Information, 3
 General Studies Program, 26
 Geography, 65
 Geology, 68
 German, 63
 Grade Point Requirement for Graduation, 20
 Grade Points, 18
 Grading System, 18
 Graduate Fellowships, 25
 Graduate Guidance Exam, 25
 Graduate Study Program, 24
 Graduation, Application for, 21
- H** Hall Regulations, 11
 Health and Accident Insurance, 10
 Health Examination, 10
 Health Education, 70
 History, 71
 Home Economics, 74
 Honor Roll, 18
 Honorary Organizations, 8
 Honors, Graduation, 18
 Honors Program, 18
 Housing, 11
 Housing Deposit, 7
 Human Development Center, 13
 Humanities, 56

- I** Improper Registration, 5
 Incompletes, 18
 Indian Education Program, 26
 Industrial Education and Technology, 77
 Instructional Media Center, 12
- J** Journalism, 57
 Junior Qualifying Exam (English), 53
- K** Kennedy Library, 11
- L** Late Registration Fee, 7
 Library Science, 52
 Lyceum, 13
- M** Major-Minor Forms, 21
 Management, 37
 Married Student Housing, 11
 Master's Degree, 24
 Master's Degree Fee, 6
 Mathematics, 80
 Mathematics Clearance, 23
 Military Science, 82
 Music, 84
- N** Natural Sciences, 93
 Numbering System, 27
 Nursing Program, 87
- P** Parking, Student, 11
 Personal Costs, 7
 Philosophy, 59
 Physical Education, 88
 Physics, 92
 Placement Office, 13
 Political Science, 94
 Pre-Professional Programs, 17
 Prerequisites, Abbreviations, 27
 Primate Research Program, 14
 Probational Status, 19
 Professional Education Program, 21
 Provisional Certificate, 24
 Psychology, 97
- R** Radio-Television, 100
 Readmissions to College, 5
 Recreation & Park Administration, 91
 Refunds, 7
 Registration, 5
 Repeated Courses, 18
 Residence Requirement for Freshman, 11
 Resident and Non-Resident Students, 6
 Room and Board Rates, 6
 Room Deposit, 7
 Room Reservations, 11
 R.O.T.C. Deposit, 7
 Russian, 64
- S** Scholarships, 10
 Senate, Councils, 120
 Social Sciences, 102
 Social Work, 103
 Sociology, 104
- Sororities, 9
 Spanish, 64
 Special Students, Fees, 6
 Speech and Hearing Clinic, 14
 Speech & Speech Correction, 105
 Speech Clearance, 23
 Standard Certificate, 24
 Standing Committees, 120
 Student Employment, 10
 Student Government, 8
 Student Health Service, 10
 Student Life and Welfare, 8
 Student Residence Facilities, 11
 Student Teaching, 23
 Summer Session, 5
- T** Teaching Certification, 24
 Transfer Students, 5
 Tuition, 6
- U** Upward Bound Program, 15
 Urban and Regional Planning, Center, 14
- V** Veterans, Fee Schedule, 6
- W** Washington Pre-College Test, 5
 Withdrawal From Courses, College, 5



Eastern Washington State College *Campus Guide*



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|---------------------|------------------------------|---------------------------------|
| 1 Showalter Hall | 17 Patterson Hall | 33 Warehouse |
| 2 Sutton Hall | 18 Isle Student Union | 34 Utility Maintenance |
| 3 Martin Hall | 19 Louise Anderson Hall | Creative Arts Complex: |
| 4 Kennedy Library | 20 Cecil Dryden Hall | 35 Music |
| 5 Rowles Hall | 21 Ruth Cheney Streeter Hall | 36 Speech |
| 6 Tawanka Commons | 22 Married Students Court | 37 Radio-TV |
| 7 Monroe Hall | 23 Pearce Hall | 38 Drama |
| 8 Hargreaves Hall | 24 Dressler Hall | 39 Art |
| 9 President's Home | 25 Woodward Field | |
| 10 Senior Hall | 26 Hall of Sciences | 40 Holter House |
| 11 Indian Center | 27 Greenhouse | 41 Concession |
| 12 Kingston Hall | 28 Cheney Hall | 42 H P E Classrooms and Offices |
| 13 Pillars | 29 Baseball Field | 43 H P E Activities Buildings |
| 14 Maintenance Shop | 30 Field House | 44 Plant Services |
| 15 Showalter Annex | 31 Cadet Hall | 45 Rozell Heating Plant |
| 16 Pence Union | 32 Campus Elementary School | 46 Morrison Hall |

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