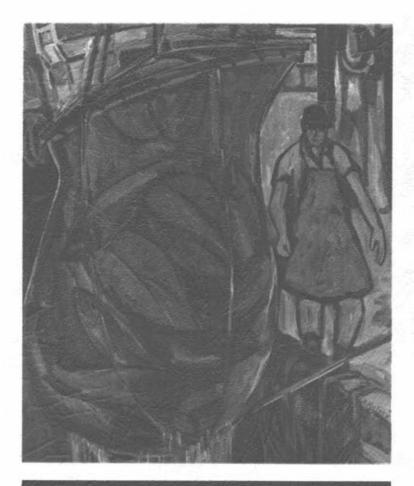
WESTERN WASHINGTON STATE COLLEGE

Bulletin June 1962







General Catalogue Issue 1962 - 1963

WESTERN Washington State College Bulletin

Bellingham, Washington

JUNE, 1962

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Water Color by Ruth Kelsey
WWSC Art Faculty

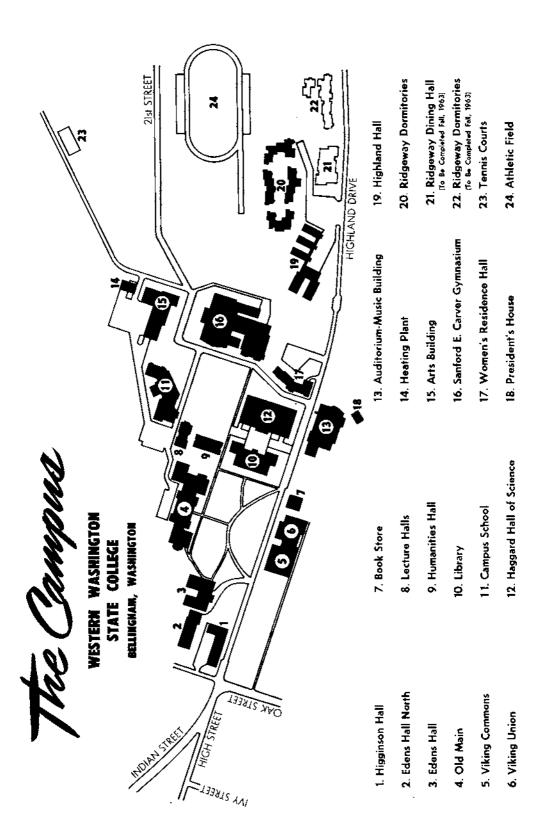


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College

Fall Quarter, 1962

August 15. Last day to apply for admission.

September 5-14. Registration of new students, by appointment.

September 23, 7:30 p.m. Convocation for new students.

September 24-25, 8:00 a.m.-4:00 p.m. Enrollment of returning students,

September 26, 8:00 a.m. Classes begin.

October 2, Final date far late enrollment.

Navember 12. Veterans' Day, holiday.

November 21, 12 Naon - November 26, 8:00 a.m. Thanksgiving recess.

December 11-14, Final examinations,

Winter Quarter, 1963

January 1, 2:00 p.m. Darmitories open.

January 2, 8:00 a.m. Registration.

January 3, 8:00 a.m. Classes begin.

Jonuary 9, Final date for late enrollment.

February 22. Washington's Birthdoy, holiday.

March 15-20. Final Examinations.

Calendar

Spring Quarter, 1963

March 31, 2:00 p.m. Darmitories open.

April 1, 8:00 a.m. Registration.

April 2. Classes begin.

April 8. Final day for late enrollment.

May 30. Memorial Day, holiday.

June 10-13. Final Examinations.

June 14. Commencement.

Summer Quarter, 1963

June 24. Registration Day.

June 25, 7:30 a.m. Classes begin.

July 4. Independence Day, holiday.

August 2. End of Six Weeks Session.

August 23. Quarter ends.

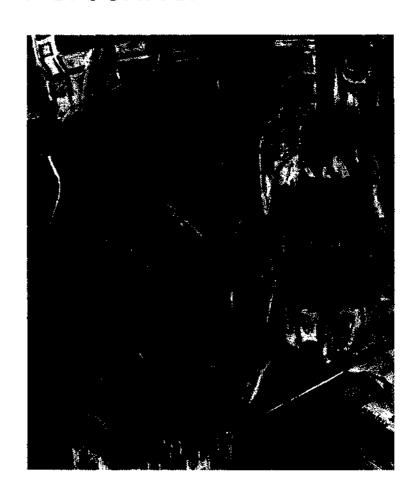
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Directions for Correspondence

Inquiries should be addressed to the offices named below:
GENERAL POLICY OF THE COLLEGEThe President
ADMISSION Undergraduate
ALUMNI AFFAIRSDirector of Alumni Services
EXTENSION AND CORRESPONDENCE COURSES
FEES OR BUSINESS MATTERSThe Comptroller
GENERAL INFORMATIONAdmissions Officer
HONORS PROGRAMChoirman of the Honors Boord
HOUSING AND RESIDENCE HALL ASSIGNMENTSDean of Men or Dean of Women
LOANS
PART-TIME EMPLOYMENTFinoncial Aids Officer
PLACEMENT OF GRADUATESDirector of Placement
SCHOLARSHIPS AND AWARDSFinoncial Aids Officer
STUDENT TEACHINGCoordinator of Student Teaching
THE CAMPUS SCHOOL Director of the Campus School
TRANSCRIPTS OF RECORD AND ACADEMIC REPORTSRegistrar

Organization and Personnel



Administrative Officers

JAMES L. JARRETT, Ph.D	President
MERLE S. KUDER, Ph.D	Deon of Students and Coordinator of Instruction
J. ALAN ROSS, Ph.D	Dean of the Summer Sessian, Director of Groduate Studies
DON F. BLOOD, Ph.D	Director of Institutional Research
CLARK C. BROWN, M.A	Acting Director, Campus School
S. J. BUCHANAN	
WILLIAM C. BUDD, Ph.D	College Examiner
DOROTHY BUTTON, Ed.M	Assistant Registrar
DONALD A. FERRIS, M.A	Caordinator of Space and Schedules
HAROLD A. GOLTZ, M.A	Assistant to the President
WILLIAM T. HATCH, M.A	Financial Aids Officer
C. W. McDONALD, M.A	Deon of Men
MILDRED HERRICK, M.A. in L.S	Librarian
FRANK NUGENT, Ph.D	Director, Counselling Center
WILLIAM J. O'NEIL, Ed.M	Registrar
PATRICK PENLAND, Ph.D	Director of Extension Services
LORRAINE POWERS, M.A	Dean of Women
	Director of Placement and Alumni Services
RICHARD REYNOLDS, M.Ed	Director of Student Activities
MARVIN P. SONDALLE	Admissions Officer

Governing Boards, 1962 - 1963 Board of Trustees

JOSEPH T. PEMBERTON, LL.B	Bellingham
MARSHALL FORREST, J.D.	Bellingham
Term ends June, 1967 DAVID G. SPRAGUE, M.A	Seattle
Term ends June, 1963 BERNICE M. HALL, B.A. in Ed	Bellíngham
Term ends June, 1963 STEPHEN CHASE, B.A	Everett
Term ends June, 1965	
State Board of Education	on
LOUIS BRUNO, President Ex-Officio	Olympia
WILLIAM P. BOWIE	
Term ends January, 1963	
JAMES F. HODGES	Bainbridge Island
Term ends January, 1967 MARK E. HOEHNE	Longview
Term ends January, 1966 STANLEY M. L!TTLE, JR	Sagetta
Term ends January, 1964	seame
FRANK M. LOCKERBY	Тасота
Term ends January, 1966 WILLIAM M. LUEBKE	
Term ends January, 1963	Chehalis
H. R. PRAETORIUS	Tieton
Term ends January, 1964	
MRS. FRED A. RADKE	Port Angeles
Term ends January, 1968	C I
T. G. REAMES	Spokane
ARCHIE R, ROLFS	East Wenatchee
Term ends January, 1965	
JOHN N. RUPP	Seattle
JAMES M. SPALDING	Bickloton
Term ends January, 1967	
ROBERT R. WALTZ	Snahomish
Term ends January, 1965 HAROLD WATKINS	-
Term ends January, 1967	I acoma

Councils of the Faculty

Faculty Council, 1961-1962

*Arthur Hicks, Chairman Marion Besserman Ray Ciszek Don Ferris Harvey Gelder Jerome Glass James Hildebrand Annis Hovde *M, S. Kuder David Marsh *Howard Mitchell Robert Monahan August Radke *Dorothy Ramsland *Bearnice Skeen

*Executive Committee

Administrative Council 1962-1963

James L. Jarrett, Chairman P. H. Atteberry Sene Carlile Robert Christman Raymond Ciszek Edwin Clapp Howard Critchfield Frank D'Andrea Stanley Daugert Donald Ferris
Andrew Frank
Harold Goltz
Charles Horwood
Joseph Hashisaki
Mildred Herrick
Eleanor King
M. S. Xuder
Arnold Lahti
Erwin Mayer

Keith Murray Mary Rokohr J. Alan Ross John Snedeker Leona Sundquist Herbert Taylor Ruth Weythman

Academic Councils

GRADUATE COUNCIL, 1961-1962 COUNCIL ON ARTS & SCIENCES, 1961-1962

J. Alan Ross, Director William Bender Don Blood Katherine Carroll James Mortin August Radke Roy Schwalm

COUNCIL ON TEACHER EDUCATION, 1961-1962

Ralph Thompson, Director Bernard Boylan Don Brown Charles Flora Halldor Karason James O'Brien Sheldan Rio Stewart Van Wingerden Marion Besserman, Director Margaret Aitken Mayle Cederstrom Jerome Glass Vivian Johnson Walter Robinson Carl Schuler

HONORS BOARD, 1961-1962

Henry Adams, Chairman Frank D'Andrea Annis Hovde James McFarland Erwin Mayer J. Alan Ross

Edward Simmel

COUNCIL ON GENERAL EDUCATION, 1961-1962

Edwin Clapp, Director Henry Adams Angelo Anostasio David Marsh Edward Neuzil Mary Watrous George Witter John Wuest

The FACULTY

Emeriti

WILLIAM WADE HAGGARD	President Emeritus of the College of Michigan; Ph.D., University of Chicago;
EDWARD J. ARNTZEN	Professor Emeritus of History Columbia University, University of Wash-
HAZEL BREAKEY	Assistant Professor Emeritus of Art. Columbia University; Graduate California Carnegie Scholarship, University of Oregon.
MAY LOVEGREN BETTMANInstruction College; Washington State Universion, Kalamazoo; Western Washington	ersity; Western Michigan College of Educa-
MIRA E. BOOTH	ssistant Professor Emeritus af Music Feachers College, Columbia University; Uni-
S. E. CARVERAssociate Profe B.A., Stanford University; M.A., University of Oregon,	essor Emeritus of Physical Education lity of Iowa; University of California; Uni-
LINDA COUNTRYMANAssociate Pr. B.S., Milwaukee-Dawner College; M.A., Toversity of Chicago.	ofessor Emeritus of Home Economics eachers Callege, Calumbia University; Uni-
NORA B, CUMMINSProfessor Eme B.A., University of Minnesota; M.A., C Industrial School.	ritus of Palitical Science and History olumbia University; Northern Normal and
IRENE ELLIOTT	ant Professor Emeritus of Education
GEORGIA P. GRAGGInstructor E	Handwriting
Western Washington State College; A.t	N., Palmer School of Penmanship.
	Professor Emeritus of Education e; B.A., Park College; M.A., University of niversity of Chicago; Ed.D., Teachers Col-
RAYMOND F. HAWK	Professor Emeritus of Education ord University; Ph.D., Washington State

THOMAS F. HUNT......Associate Professor Emeritus of Geography B.A., University of Minnesota, M.A., Clark University, University of Chicago, University of California. LUCY KANGLEY......Professor Emeritus of English B.A., M.A., University of Washington; Ph.D., Columbia University; Cambridge University; University of London; University of Minnesota; University of Colorado. PRISCILLA KINSMAN......Assistant Professor Emeritus of Education Ph.B., University of Chicago; M.A., Teachers College, Columbia University; University of Woshington. IRVING E. MILLER......Professor Emeritus of Education B.A., University of Rochester; M.A., Ph.D., University of Chicago. HAZEL JEAN PLYMPTON.....Associote Professor Emeritus of Art Ph.B., University of Chicago; M.A., Teachers College, Columbia University; Reed College; Portland School of Art. ANNA ULLIN.........Assistant Professor Emeritus of Foreign Languages B.A., University of Washington; M.A., Teachers College, Columbia University; Certificate, Sorbonne, Paris, Oxford, University of Mexico. ELSIE WENDLING......Assistant Professor Emeritus of Education B.S., M.A., Supervisors' Certificate, Teachers College, Columbia University; Northern Illinais State Teachers College, DeKalb; Western Washington State College, University of Washington; Continuation Center, University of Minnesota; Reading Clinic, Alameda, California. MABEL ZOE WILSON Professor Emeritus, Librarian

The Faculty

B.A., Ohio University; B.L.S., New York State School of Library Science.

1961-1962 and 1962-1963

Names preceded by \diamond constitute a complete and accurate list of faculty during the 1961-1962 academic year.

Names preceded by * constitute a list of the faculty for the 1962-1963 academic year as completed to June 1, 1962.

Ranks indicated are for the 1961-1962 academic year.

NOTE: Date in parenthesis indicates year of initial service with the College.

- **HENRY L. ADAMS (1957)......Associate Professar of Psychology B.A., M.A., University of Kentucky; Ph.D., University of Illinois.

*MARGARET AITKEN (1946)Associate Professor of Physical Education B.A., University of Washington; M.A., Ed.D., Teachers College, Columbia University
→ MELVIN A. ALLAN (1953)
*ANGELO ANASTASIO (1955)Associate Professor of Anthropologiand Sociologiand Sociologiand Sociologiand Sociologian A.A., Boston University, M.A., Ph.D., University of Chicago.
♦*DWIGHT ANDRUS (1961)Instructor in Education B.A., B.A. in Ed., M.Ed., Western Washington State College.
*ANGELO ANGELOCCI (1962)
**CHAPPELLE ARNETT (1960)
EDWARD J. ARNTZEN (1924)
♦*P. H. ATTEBERRY (1954)
 GERALD D. BAILEY (1960)
*DECLAN BARRON (1946)Associate Professor of Biological Science B.A. in Ed., Western Washington State College; M.A., Yale University; Stanfo University.
MARY BAUGHN (1961)
**WILLIAM BENDER (1960)
*JAMES R. BENNETT (1962)
*MARION BESSERMAN (1952)Associate Professor of Chemistre B.S., University of Washington, M.S., Purdue University, Ph.D., University of Washington.
♦ MICHAEL G. BILLINGS (1961) Instructor of Mothemati

B.A., M.A., Montana State University.

*DON F. BLOOD (1951)Associate Professor of Psychology and Director of Institutional Research
B.A. in Ed., Central Washington State College; M.A., Ph.D., State University of lawa.
**BERNARD L. BOYLAN (1956)
◆*LAURENCE W. BREWSTER (1948)Associate Professor of Speech B.A., Yankton College; M.A., Ph.D., State University of Iowa.
♦*CLARK C. BROWN (1956) Lecturer in Education and Acting Director, Campus School
B.A. in Ed., Western Washington State Callege, M.A., Columbia University.
♦*DON W. BROWN (1954)
**WILLIAM C. BUDD (1953)Associate Professor of Psychology and College Examiner
B.A., Hamline University; B.S., M.A., Ph.D., University of Minnesota.
◆*DOROTHY BUTTON (1955)Assistant Professor of Education; Assistant Registrar
B.A., University of California; University of Washington; Ed.M., Western Washington State College.
**DON F. BUTTRICK (1959)
*DONALD J. CALL (1958)†
*SENE R. CARLILE (1947): Professor of Speech B.A., B.S., Fort Hays Kansas State College; M.A., Colorado State College; Ph.D., University of Wisconsin.
*KATHERINE M. CARROLL (1958)Associate Professor of Education B.S., Salem State College, Ed.M., Ed.D., Boston University; Harvard University.
*WILLIAM CARSTENS (1962)Lecturer in Sociology B.A., Rhodes University; Ph.D., University of Capetown.
♦*RALPH CARTER (1961)
**KATHERINE M. CASANOVA (1932)Associate Professor of Education B.S., M.A., Teachers College; Columbia University; Stanford University; University of Washington.
♦*MOYLE F. CEDERSTROM (1935)

†Leave of Absence, 1961-1962. ‡Leave of Absence, Fall and Winter Quarters, 1961-1962.

**EDNA CHANNER (1940)..........Associate Professor of Industrial Arts B.A., University of Washington; M.A., University of Iowa; Oregon State College, Claremont Graduate School. ◆ DORIS C. CHING (1961)......Assistant Professor of Education. Ed.B., University of Hawaii; Ed.M., Ed.D., Harvard University. **ROBERT A. CHRISTMAN (1960)......Associate Professor of Geology B.S., M.S., University of Michigan; Ph.D., Princeton University, *RAYMOND A. CISZEK (1948)......Associate Professor of Physical Education B.S., M.S., University of Illinois; Ed.D., Boston University. ♦*EDWIN R. CLAPP (1960)......Professor of English A.B., Stanford University; M.A., Ph.D., Harvard University. ♦ NITA K, CLOTHIER (1961)......Acting Instructor of English B.A., B.A. in Ed., Western Washington State College. **GERALD COHEN (1959).......Assistant Professor of English and French B.A., Brooklyn College; Ph.D., University of Washington, ♦*A. GRAHAM COLLIER (1960).....Associate Professor of Art N.R.D., (London); M. Coll. H., University of London; Slade School of Fine Art, University of London, B.S., Eastern Montana College. *HOWARD J. CRITCHFIELD (1951).....Professor of Geography B.A., M.A., Ph.D., University of Woshington. B.S., M.A., University of South Caroling. ♦*FRANK L. D'ANDREA (1945)......Professor of Music B.S., M.A., New College, Teachers College, Columbia University; Royal Academy of Music; and Mary Datchlor School, London, England; Ed.D., Teachers College, Columbia University. A.B., M.A., Ph.D., Columbia University. **WILLIAM J. DITTRICH (1951)......Assistant Professor of Physics B.S., M.S., University of Washington. LAWRENCE F. DOUGLAS (1961)......Instructor of Sociology B.A. (Hons.), M.A., University of British Columbia. *HOWARD R. DOWNEY (1962)......Instructor of Librory B.A., M.A., University of Washington. ◆*DON J. EASTERBROOK (1959)......Assistant Professor of Geology B.S., M.S., Ph.D., University of Washington.

- WILLIAM E. ELMENDORF (1958)[†]......Instructor of Russion and Spanish B.S., University of Puget Sound; M.A., University of Washington.

- **EUNICE DAY FABER (1959)...Associate Professor of French and Spanish B.A., Howard University; M.A., Catholic University of America.
- MARK W. FLANDERS (1952)†‡......Assistant Professor of Speech B.A., Iowa State Teachers College; M.A., State University of Iowa.
- *A. HUGH FLEETWOOD (1962)............Assistant Professor of Philosophy A.B., M.A., University of Michigan.
- **CHARLES J. FLORA (1957).......Associate Professor of Zoology B.A., Purdue University; M. Ed., Ed.D., University of Florida.
- **ADA L. GAMBRELL (1961)......Assistant Professor of Business Education B.S., Winthrop College, M.B.A., University of Denver.
- *HARVEY M. GELDER (1948).......Associote Professor af Mothematics B.A., Colorado State College; M.A., University of Missouri; University of Washington; University of Chicago.

[‡]Leave of Absence, 1961-1962.

[†]Leave of Absence, 1962-1963.

- GEORGE GERHARD (1959)......instructor of Psychology B.S., M.S., University of Oregon.
- **HAROLD A. GOLTZ (1957).........Assistant Professor of Education and Assistant to the President
 - B.A., Macalester College; M.A., University of Minnesota.
- MARCIA E. GRABFELDER (1961)......Lecturer in Education B.A., University of Illinois, San Diego State College; University of California; University of Florida; San Francisco State College.
- ELIZABETH GREGORY (1948)......Lecturer in Education B.A. in Ed., Western Washington State College.
 - *THOMAS H. GROVE (1962)......Assistant Professor of Education 8.A., M.A., Ph.D., University of Washington.
- *MONICA C. GUTCHOW (1960)......Assistant Prafessor of Physical Education

 B.S., University of Oregon, M.F.A., University of North Carolina, Texas Women's University.
- PAUL W. HAGENSICK (1960)......Assistant Professor of Philosophy B.A., M.A., Ph.D., University of Wisconsin.
- ◆*BYRON E. HAGLUND (1956)...............Associate Professor of Economics B.B.A., M.A., University of Minnesota; C.P.A., Washington, D.C., and State of Washington.
 - *FRANCIS D. HAINES, JR. (1962)....Visiting Associate Professor of History B.A., University of California; M.A., Gonzaga University; Ph.D., University of Washington.
- *ELIZABETH J. HANAGAN (1962)...............Assistant Professor of Geology B.A., Southern Illinois University; M.A., University of Wyoming.
- - *CHARLES H. HANSFORD (1962)...........Assistant Professor of Education
 B.Mus., Central College; M.A., Stanford University; Ed.D., University of Missouri.
- FRANCES F. HANSON (1960)...........Associate Professor of Psychology B.S., Moorhead State College; M.A., University of Minnesota; Ed.D., Montana State University.
- →*CHARLES W. HARWOOD (1953).....Professor of Psychology
 B.S., M.S., Ph.D., University of Washington.

*JOSEPH HASHISAKI (1962)Professor of Mathematics
B.A., Montana State University; M.A., Ph.D., University of Illinois.
*WILLIAM T. HATCH (1962)Assistant Professor of Education and Financial Aids Officer
B.A., Western Washington State College; M.A., Claremont Graduate School.
*HERBERT R. HEARSEY (1941)Associate Professor of Library Science; Reference Librarian
B.A., Ed.M., Tufts College; B.S. in Library Science; M.A., in Library Science, University of Illinois.
*WALLACE G. HEATH (1962)Assistant Professor of Biological Sciences B.S., Ph.D., University of Arizona.
*JOHN J. HEBAL (1962)
*JOHN HELMS (1962)Assistant Professor of Foreign Languages B.A., Valparaiso University, M.A., University of Michigan.
*EARL R. HEPLER (1957)
*PAUL E. HERBOLD (1952)
*MILDRED HERRICK (1945)Associate Professor of Library Science; Librarian
B.A., Michigan State Normal College; B.A. in L.S., M.A. in L.S., University of Michigan.
*ARTHUR HICKS (1933)
*CLAUDE M. HIGBEE (1962)Associate Professor of Education B.A., Simpson College; M.S., Washington State University.
*JAMES L. HILDEBRAND (1952)Associate Professor of Mathematics B.A., M.A., North Texas State University; University of Iowa; Columbia University; University of Washington.
*HARLEY E. HILLER (1957)
*EVELYN M. HINDS (1960)
**MABEL HODGES (1957)

B.A., Western Illinois State University; M.A., Washington State University.

- JACKSON M. HUBBARD (1955).......Instructor of Physical Education B.A. in Ed., Ed.M., Central Washington State College.

- ◆*JAMES L. JARRETT (1959).................Professor of Philosophy and President of the College B.S., M.S., University of Utah; Ph.D., University of Michigan.
- **VIVIAN JOHNSON (1941)......Associate Professor of Education B.A., M.A., University of Washington; Teachers College, Columbia University.
- **ELVET G. JONES (1957).......Associate Professor of Psychology B.A., M.A., University of British Columbia; Ph.D., University of Minnesota.

- **HALLDOR C. KARASON (1949).......Assaciate Professor of Philosophy B.A. in Ed., Western Washington State College; M.A., Ph.D., University of Washington.
 - *HERBERT G. KARIEL (1962)......Assistant Professor of Geography B.S., M.Ed., University of Oregon.
- *EMELIA LOUISE KILBY (1956) Associate Professor of Physical Education

 B.S., The Mary Washington College of the University of Virginia; M.A., New York
 University; Ph.D., University of Washington.

*EUGENE C. KIM (1962)Assistant Professor of Education
B.A., Seoul University; M.A., New York State Teachers College; M.Ed., Cornell University; Ph.D., Western Reserve University.
*ELEANOR KING (1953)Associate Professor of French and German
B.A., University of British Columbia; M.A., University of Toronto; University of Munich, Germany; Ph.D., University of Wisconsin.
**FLORENCE J. KIRKPATRICK (1925)Associote Professor of Biological Science
B.S., University of Washington; M.A., Mills College; University of California.
*FRED W. KNAPMAN (1942)†Professor of Chemistry
B.A., Western Washington State College; M.Sc., University of Washington; Ed.D., Teachers College, Columbia University; Post-doctoral: University of Washington, University of London.
♦*GERALD F. KRAFT (1961)Instructor of Zoology
B.A., San Jose State College; M.S., Washington State University.
**MERLE S. KUDER (1937)Professor of Education and of Psychology Dean of Students and Coordinator of Instruction
B.A., University of Arizona; M.A., Ph.D., Teachers College, Columbia University.
*ARNOLD M. LAHTI (1955)
GEORGE LAMB (1958)†‡Instructor of Education
B.A., Macalester College; M.A., University of Washington.
**CHARLES F. LAPPENBUSCH (1933)Associate Professor of Physical Education and Director of Athletics
B.S., M.A., University of Washington; Whitworth College, Western Washington State College, Boston University, University of Washington.
**EDITH B. LARRABEE (1957)Instructor of Home Economics B.S., East Texas State College; M.A., Colorado State College.
**GOLDEN L. LARSEN (1956)Lecturer in English B.S., M.A., Utah State University; University of Washington.
*W. ROBERT LAWYER (1960)
*LAWRENCE LEE (1962)
*MERRILL LEWIS (1962)Instructor of English B.A., M.A., University of Oregon; University of Utah.

[†]Leave of Absence, 1961-1962 ‡Leave of Absence, 1962-1963.

- *FREDERICK M. LISTER (1954)......Assistant Professor of Mathematics B.S. Tufts University, M.A., University of Michigan.
- *JAMES R. LOUNSBERRY (1959)......Associate Professor of Physical Education
 B.A., Central Washington State College; M.S., Ed.D., University of Washington.
 - *LAWRENCE D. LOWENTHAL (1962)......Instructor of English B.A., M.A., Northwestern University,
- *RICHARD C. McALLISTER (1961).........Assistant Professor of Economics B.A., M.A., University of Washington; University of Florida; C.P.A., State of Washington.
- **CLYDE W. McDONALD (1946).......Associate Professor of Physical Education and Dean of Men B.A., M.S., University of Washington.
- *DAVID McDONALD (1948)......Associate Professor of Education and Director of Audio-Visual Center B.A., Bethany College; M.A., University of Southern California; Ed.D., University of Oregon, George Peabody College.
- *JAMES E. McFARLAND (1960)........Assistant Professor of Mathematics B.S., Denison University, M.S., Ph.D., Oregon State University.
- **RUBY D. McINNES (1948)......Associate Professor of Education B.A., University of Washington; M.A., Teachers College, Columbia University.
 - *WILLIAM MacKAY (1962)......Assistant Professor of Psychology A.B., Brown University, M.A., University of California, Berkeley.
- *RAYMOND R. McLEOD (1961)......Associate Professor of Physics B.A., M.A., University of British Columbia; Ph.D., Purdue University.
 - *MASON D. McQUISTON (1962)......Assistant Professor of Psychology B.A., M.A., University of Oregon.

- *JAMES S. MARTIN (1955)......Associate Professor of Botany B.S., M.S., Ph.D., University of Washington.
- *EVELYN P. MASON (1959)......Associate Professor of Psychology B.A., Mills Collage; M.A., Ph.D., Washington University, St. Louis, Missouri.
- *MIRIAM S. MATHES (1934).......Associate Professor of Library Science B.A., New York College for Teachers, Albany; M.A., Teachers College, Columbia University; B.S., M.S., School of Library Service, Columbia University.
- ALLAN E. MATHIESON (1960).......Instructor of English
 B.A., B.A. in Ed., M.Ed., Western Washington State College.
- **ERWIN S. MAYER (1953).................Associate Professor of Economics B.A., Hunter College; Ph.D., University of Washington.

- *VLADIMIR MILICIC (1962)......Instructor of Russian M.A., University of Belgrade; University of Chicago.
- **ELBERT E. MILLER (1957)...............Associate Professor of Geography B.A., Central Washington State College; University of Nebraska; M.A., Ph.D., University of Washington.
- *HOWARD E. MITCHELL (1955)............Associate Professor of Economics B.A., Whitworth College; M.A., Ph.D., University of Washington.
- ◆*ROBERT L. MONAHAN (1955)........Associate Professor of Geography B.A., University of Washington, M.A., University of Michigan, Ph.D., McGill University.
- **DEBNATH MOOKHERJEE (1961).......Assistant Professor of Geography B.Sc., M.Sc., University of Calcutta; Ph.D., University of Florida.

◆ EDWARD M. MORROW (1961)......Instructor of Education B.A., B.A. in Ed., M.Ed., Western Washington State College. ♦ KATHERINE KARNES MORSE (1960).....Guest Lecturer in Music Mus.B., Lawrence College; Oshkosh State Teachers' College; Columbia University; Eastman School of Music; M.A., Claremont Graduate School. ◆*GEORGE M. MULDROW (1960).....Assistant Professor of English B.J., M.A., University of Missouri; Ph.D., Stanford University. *JAMES H. MULLIGAN (1961).....Instructor of English (Journalism) and Director of Public Information B.A., M.A., University of Washington. ◆*ROY I, MUMME (1960)......Assistant Professor of Education A.B., A.M., Bob Jones University, Ed.M., University of North Carolina, University of Florida. ◆*KEITH A. MURRAY (1946).....Professar of History B.A., Whitworth College; M.A., Ph.D., University of Washington. *ROBERT A. NAGLE (1962)......Assistant Professor of Education B.S. Ed., M.Ed., Wayne State University. ◆*EDWARD F. NEUZIL (1959)......Assistant Professor of Chemistry B.S., North Dakota State College; M.S., Purdue University; Ph.D., University of Woshington, and Assistant Registrar B.A., University of Washington, *IDUS A. NEWBY (1962)......Assistant Professor of History B.S. ed., Georgia Teachers College, M.A., University of South Carolina, Ph.D., University of California at Los Angeles. *ALDEN L. NICKELSON (1962)......Assistant Professor of Education B.S., M.A., University of Washington. ◆*SYNVA K, NICOL (1937).....Associate Prafessor of Education B.A., Fresno State College; M.A., Teachers College, Columbia University, University of California, University of Oslo. ◆*WILLIAM A. NILSSON (1961)......Assistant Professor of Chemistry B.S., University of Illinois; Ph.D., University of California. **FRANK A. NUGENT (1961)......Associate Professor of Psychology ond Director, Counselling Center B.S., New Jersey State Teachers' College; M.A., Columbia University; Ph.D., University of California.

♦*JAMES H. O'BRIEN (1946)	Associate Professor of English
B.A., Seattle University; M.A., Univers lin, Ireland; Ph.D., University of Was	ity of Washington, University College, Dub- hington.
**EVELYN ODOM (1936)	Associate Professor of English s College, Columbia University; University of
**FRED A. OLSEN (1961)	Assistant Professor of Industrial Arts. Stout State College, Wisconsin; Ph.D., Ohio
♦*WILLIAM J. O'NEIL (1950)	Assistant Professor of Education and Registrar
B.A., in Ed., Ed.M., Western Washing versity.	gton State College; Washington State Uni-
*THOMAS OSBORN (1962)	
**MARIE B. PABST (1948)*	Associate Professor of Geology; Curotor af the Science Museum
B.S., University of Minnesota; Universit Ph.D., University of California.	y of Chicago; Northwestern University; M.A.,
→*VILIS PAEGLIS (1961)	•
♦*HAROLD O. PALMER (1956)	Professor of Business Education d.M., University of Oregon, Ed.D., Oregon
**DICK S. PAYNE (1961)	•
*MIRIAM L. PECK (1946)	
♦*PATRICK R. PENLAND (1960)	Assistant Professor of Librory Science and Director of Extension Services
B.A., University of British Co ^l umbia; University of Michigan.	B.L.S., McGill University; A.M.L.S., Ph.D.,
♦ JOSEPH PESSÉAT (1961) License d' Anglais.	Acting Instructor of French
*RUTH E. PLATT (1927)	

fleave of Absence, 1961-1962.

→ HAZEL JEAN PLYMPTON (1926).....Associate Professor of Art Ph.B., University of Chicago; M.A., Teachers Callege, Columbia University; Reed College; Portland School of Art, *SAM R. PORTER (1962)......Assistant Professor of Industriol Arts A.B., Iowa State Teachers College; M.A., Teachers College, Columbia University. ◆*LORRAINE POWERS (1941).......Associate Professor of Mathematics and Dean of Women B.A., University of Wisconsin; M.A., State University of Iowa; University of Washington. B.S., M.A., New York University; Ph.D., University of California. **FRANK N. PUNCHES (1948)......Associate Professor of Education and Director of Placement and Alumni Relations B.A., University of Washington; M.A., Washington State University. *RICHARD L. PURTILL (1962)......Instructor of Philosophy B.A., M.A., University of Chicago; University of California, Los Angeles, **AUGUST RADKE (1953)......Associate Professor of History B.A., M.A., Ph.D., University of Washington. ◆*DOROTHY RAMSLAND (1949)† Associate Professor of Home Economics Luther College; B.S., University of Wisconsin; M.S., Michigan State University. **BERNARD W. REGIER (1945)......Associate Professor of Music B.S.M., Kansas State Teachers College, Emporia; Northwestern University; M.Mus., University of Michigan; University of Washington; University of Southern California. A.B., University of Kansas City; M.M., University of Southern California. and Director of Student Activities B.S., M.Ed., University of Oregon. ◆*CHARLES M. RICE (1941)......Associate Professor of Industrial Arts. B.F.A., M.A., Washington State University, University of Washington; University of Oregon; Carnegie A.I.A. Art Sessions in 1934 and 1935; Ed.D., Oregon State College. *GARLAND C. RICHMOND (1962)......Instructor of German B.A., University of Texas. *WILLARD P. RIDDLES (1962)......Assistant Professor of Education

8.A., M.A., Arizona State University; Ed.D., University of Colorado.

**SHELDON T. RIO (1959)......Associate Professor of Mathematics
B.A., Westmar College; M.A., Montana State University; Ph.D., Oregon State

University.

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of Vienna.
*ALFRED L. ROE (1962)
*MARY ROKAHR (1962)Lecturer in Home Economics A.B., University of Nebraska; M.A., Teachers College, Columbia University.
♦ ESTHER ROSS (1961)
*J. ALAN ROSS (1942)Professor of Education and Psychology; Dean of Summer Session; Director of Graduate Studies B.A. in Ed., Western Washington State College; University of Chicago; M. A., Ph.D., Yole University.
*MARJORIE RYAN (1961)
*PAUL T. RYGG (1962)
*BEATRICE E. SABOURIN (1960)†Assistant Prafessor of Education A.B., Colorado State College of Education; Ed.M., Western Washington State College.
*WALTER J. SANDERS (1959)Assistant Professor of Mathemotics B.A., M.A., University of Washington; M.S., University of Illinois.
*DAVID B, SCHAUB (1953)†Associate Professor of Music B.A., Mus.B., Lawrence College; M.A., Harvard University; Ph.D., University of California.
*ERHART A. SCHINSKE (1957)
♦ MARY ANN SCHUETTE (1961)
**CARL U. SCHULER (1959)*
*RAY A. SCHWALM (1949)

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- ♦*DONALD J. SCHWEMMIN (1960).........Assistant Professor of Biology B.S., M.S., Ph.D., University of Michigan. *WILLIAM H. O. SCOTT (1960)......Assistant Professor of Library Science and Circulation Librarian A.B., A.M., A.M.L.S., University of Michigan. ◆*JEAN-CHARLES SEIGNEURET (1961)......Instructor of French B.A., University of British Columbia; M.A., University of California at Los Angeles. **VERNON C. SERL (1959)......Instructor of Sociology-Anthropology B.A., University of British Columbia. ♦ EDWARD C. SIMMEL (1960)......Assistant Professor of Psychology A.B., University of California; Ph.D., Washington State University, *DELBERT R. SIMON (1962)......Assistant Professor of Music B.M.E., Simpson College; M.M., Miami University. ◆ ROBERT BRUCE SIMPSON (1960).......Associate Professor of Education and Principal of the Campus School A.B., M.A., Stanford University; Ed.D., Teachers College, Columbia University. *NIRMAL SINGH (1962)......Instructor of English B.A., M.A., Panjab University. ♦*BEARNICE SKEEN (1947).....Professor af Education and Coordinator of Student Teaching B.S., M.S., University of Oregon; Ed.D., Washington State University. *KNUTE SKINNER (1962).....Assistant Professor of English A.B., Colorado State College; M.A., Middlebury College; Ph.D., State University of lowa. ◆*JOHN H. SNEDEKER (1961)......Professor of Education B.S., M.A., New York University; Ed.D., Indiana University. ◆*JOHN W. SPALDING (1961)......Assistant Professor of Speech B.A., Northwestern University; M.A., Ph.D., University of Michigan. ◆*PHILIP T. SPAULDING (1960)......Instructor of Sociology
 - *THOMAS W. STEINBURN (1962)......Assistant Professor of Socialogy B.A., M.A., University of Washington.

◆*THADDEUS H. SPRATLEN (1961)........Assistant Professor of Economics

B.S., M.A., Ph.D., Ohio State University,

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*THOMAS E. STEVENS (1958)Assistant Professor of Education B.A., B.Ed., Washington State University.
PAUL H. STONER (1961)
LEO F. STORM (1961)
**LEONA M. SUNDQUIST (1923)Professor of Biological Science 8,A., M.S., University of Washington; Teachers College, Columbia University.
PAUL H. SUNSET (1960)
*MYRTLE E. SWANSON (1962)Lecturer in Home Economic B.S., towa State College; M.A., University of Missouri.
DONALD C. SWEDMARK (1958)†
*MARY P. TAGLIABUE (1962)Assistant Professor of French and Sponisi A.B., Rosary College, M.A., Northwestern University, M.A., University of Wisconsis
*HERBERT C. TAYLOR, JR. (1951)Professor of Anthropolog 8.A., M.A., University of Texas; Ph.D., University of Chicago.
**PHILIP C. THAYER (1959)
*LESLIE J. THOMAS (1962)
**RALPH H. THOMPSON (1950) Professor of Education B.A., Dickinson College; M.A., University of Delaware; Ed.D., University of Illinois
*WILLIAM TOMARAS (1961)
B.A., M.S., University of fillingis; Ed.D., University of Oregon. ◆*MARTINITIICKED (1961)
TOTAL TOTAL TOTAL STREET STATES AND STREET A

B.S., State University of New York; M.S., M.F.A., University of Wisconsin.

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B.S., B.Ed., M.Ed., Washington State University.

♦*GEORGE E. WITTER (1955)Associate Professor of Mothematics 8.A., M.A., Miami University, University of Washington, University of Michigan, University of California, Los Angeles.
*PAUL D. WOODRING (1939)†
versity; Doctor of Humane Letters, Kalamazoo College; Ph.D., Coe College.
MARY M. WORTHYLAKE (1960)Assistant Professor of Education B.A. in Ed., M.Ed., Wes'ern Washington State College; University of California.
*JOHN J. WUEST (1960)Associate Professor of Government B.S., M.S., University of Southern California; Ph.D., University of California, Los Angeles.
*RAYMOND A. YOUNG (1961)
Affiliated Teachers of Music
Annialed reachers of Music
EDNA BIANCHI
EDNA BIANCHI
EDNA BIANCHI
EDNA BIANCH!
EDNA BIANCH! Voice Graduate of the Malojali School of Bel Canto, Italy; Artist-teacher in New York for fifteen years. KENNETH A. CLOUD. Trombone, Trumpet B.A., Mus.Ed., University of Washington. First Trombone, Seattle Symphony since 1939; Trombone instructor at the University of Washington and Seattle Pacific
EDNA BIANCH!
EDNA BIANCH!
EDNA BIANCH!

[†]Leave of Absence, 1961-1962.

The College



The College

Western Washington State College is an integral part of the public school system of the State of Washington, which encomposses elementary and secondary schools, three state colleges, and two universities. The College is governed by a board of trustees appainted by the Governor and confirmed by the Senate.

The College is lacated in Bellingham, a city of 35,000, geographically situated on the seaboard, eighty-seven miles narth of Seattle and twenty-three miles fram the Canadian border.

History

The College was ariginally authorized as a State Normal School by an act of the State Legislature in the year 1893. It was not, however, until the fall of 1899 that the school was formally apened with a faculty of six members.

As a State Normal School the Callege's curriculor program was for several decades directed to the single objective of preparing teachers for the common schools of the state. As higher standards for teacher certification come into being the program changed in scope and content. In 1920 o full four-year pragram was offered for the first time. The right to grant a baccalaureate degree was outhorized in 1933, and in 1937 the name of the school was changed to Western Washington College of Education.

After the College become a degree granting institution with the need to meet standards for accreditation, the program of afferings in the various academic fields was greatly expanded. This led to an increasing enrallment of students with educational purposes other than teacher preparation. The college was beginning to assume a multi-purpose role. This new role was recognized in 1947 when the right to grant the Bachelor of Arts Degree was authorized. At the same time the teacher education pragram was extended with the right to grant a graduate degree, Master of Education. In 1961 the State Legislature gave full recognition to the multi-purpose character of the Callege by changing the name to Western Washington State College.

Description

Accreditation

Western Washington State College is accredited by the Northwest Association of Secondary and Higher Schools and by the National Council for the Accreditation of Teocher Education. It is on the list of approved colleges and universities of the American Association of University Wamen.

Buildings and Facilities

The 108-acre compus is situated on Sehome Hill overlooking the City of Bellingham. The location and arrangement of the twenty-three major buildings are shown on the campus map, page 2.

During the first twenty-five years in the history of the College, plant expansion consisted of a number of additions to the original single building. This entire structure, naw known as "Old Main," is devoted to general classroom use and to administrative offices. A library building was added in 1928 and a physical education building with an attached swimming poal in 1936. A laboratory school, with classrooms for children in the elementary grades, was completed in 1943 to provide student teaching and observation apportunities.

The construction of buildings for more specialized use began with the Arts Building in 1950. Here are included facilities for both industrial and fine arts. The Auditorium-Music Building was finished in 1951.

The Viking Union which accommodates student government, student publications, and a wide range of student activities and social affairs, was completed in 1959. Its construction was financed by student fees.

W. W. Haggard Hall of Science became operational in the summer of 1960. In addition to laboratories and classraoms appropriate to the study of all branches of physical and biological science, its special features include a museum display area, shops for constructing laboratory equipment, a seismagraph, a planetarium, aquarium, roaf greenhauses, and facilities for meteorological work.

The Student Cooperative Book Store, construction of which was financed by student fees, was occupied in the fall of 1960. Textbooks and other supplies of an educational or personal nature for students and faculty are made available in this student-operated compus facility.

Viking Commons, centralized dining facility, also financed through student fees, was apened in the fall of 1961.

Also aperative for the first time during the 1961-62 academic year was the Sanford E. Carver Gymnasium. This new structure houses four

basketball courts, class and seminar raoms, dressing raams, affices, and a substantial increase in spectator space.

New academic facilities constructed for initial use in the foll of 1962 include additions to the library which more than doubles its size and a classroom and affice building where the departments of English, History, Foreign Languages and Philosophy will be located.

College-Owned Residence Halls. Residence halls for wamen include six major dormitory structures on the campus, which house approximately 720 women. In addition, the callege-owned and operated Senior Hall, a residence situated about halfway between the compus and downtown Bellingham, houses 26 women.

College-owned residences for men are located at the sauth end of the campus, in the Ridgeway area. Four buildings house 436 men students.

A new dormitory in the Ridgeway area will house 217 students, and an orea dining hall will serve 600 dormitory residents.

Objectives

Western Washington State College is a community of scholars. Students, who are apprentice scholars, associate with members of the faculty, who are seasoned scholars, in the advancement and dissemination of truth and beauty.

The College strives to provide its students with the opportunity and incentive for gaining a higher education which will develop their intellectual powers and enlarge their understanding and appreciation of their cultural heritage. Such education is appropriate to a free citizen and provides a sound basis for any vocational pursuit.

A principal responsibility of the College is to prepare teachers, administrators, and other personnel for the public schools of Washington. To this end, it offers programs leading to the Bachelor of Arts in Education and the Moster of Education degrees.

Programs within the liberal arts and sciences lead to the Bachelor of Arts degree.

For students intending to enter schools of Engineering, Law, Medicine, etc., pre-professional programs are provided.

In order to accomplish these functions the total college program provides planned experiences in the areas of:

- 1. General education;
- 2. Professional education of teachers:
- 3. Subject matter specialization.

The aims of the general education program are:

- To broaden and intensify the student's understanding of the most significant aspects of man's cultural heritage;
- To train the student in the methods and tools of thought and expression;
- 3. To assist the student in integrating his knowledge;
- To assist the student in developing his powers of aesthetic enjoyment and creativity;
- To stimulate the student in formulating a philosophy of life based upon knowledge and reflection.

The aims of the teacher education pragram, developed upon a foundation of general education, are:

- 1. To develop the student's:
 - a. knowledge of the subject matter and techniques oppropriate to his teaching fields;
 - b. understanding of individual differences and of the processes of growth and learning in children;
 - c. understanding of the processes whereby personality is formed and maladjustments avoided;
 - d. understanding of the place of school in society and its present organization and administration;
 - e. interest in forming his own philosophy of education.
- To provide the student, prior to provisional (four-year) certification, with the background and the appartunity to demonstrate his:
 - a, skill in planning and in carrying out his ideas independently;
 - b. skill in using established methods of instruction, plus a willingness to experiment with new methods.

- c. ability to evaluate his own teaching practices;
- d. ability to work cooperatively with children, colleagues, parents, and others in the community;
- ability to discriminate between the significant and the less significant in education.
- To provide the student, prior to standard (five-year) certification, with an opportunity:
 - a. to extend his knowledge of subject matter appropriate to his teaching fields;
 - to obtain training in techniques found lacking after one year of teaching under a provisional certificate.

Subject matter specialization should meet the needs of a persan who seeks:

- Increased depth af subject matter mostery oppropriate ta his teaching assignment.
- A sound basis for pursuing further and mare advanced study in o specialized field.

Program

To implement the objectives stated an the preceding pages the College has developed an integrated program which it is constantly working to refine and improve.

Curricula

Teacher Education — Undergraduate

The four-year program of pre-service preparation for teachers has been developed in accordance with the high standards for certification in the State of Washington. A broad base of prescribed general education encompasses all major subject matter fields. This undergirds a program of caurses and extensive laboratory experiences with children at both elementary and secandary levels. Adequate provision is made for specialization.

Teocher Education — Graduate

The program for standard certification in Washington requires a year of study beyond the bachelor's degree subsequent to public school

teaching experience. Hence, graduate study is an integral part of the total college program, related not only to the student's earlier preparation but to needs which have been demonstrated and plans which have been developed in the field. There is thus in the graduate program a high sensitivity to the needs of teachers. For all, the fifth or graduate year leads to a Standard Certificate. Graduate study may culminate in a Master of Education degree as well, for which there are certain special standards and requirements aimed at developing more specialized competency in a selected area of school service.

The Arts and Sciences

The Bochelor of Arts degree traditionally represents a well-rounded, truly liberal, four-year college program. In 1947, the Legislature of the State of Woshington extended the apportunity for general higher education in the tax-supported calleges and universities by authorizing the state calleges to confer the B.A. degree. The College, already well staffed and equipped in the major subject matter divisions, immediately developed a program of studies and awarded its first such degree in August, 1947.

As outlined in greater detail in a loter section of the cotologue, the four-year courses now available assure the degree condidate not only a broad base of general education, but ample apportunity for specialization. Students in increasing numbers are turning to the Callege for this type of training.

For many years the College hos offered work to meet the needs of students who desire to undertake their initial college study in the mare intimate atmosphere of a smaller institution. Such students in most instances anticipate further work at the prafessional schools or universities in such fields as engineering, business administration, journalism, home ecanomics, and the like. Because of the ropidly grawing demand for lawer division courses in such areas, the College has developed and corefully defined a number of one- and two-year programs leading to advanced standing in other institutions.

The Honors Program

The Hanors Program provides a chollenging opportunity for the student of high ocodemic ability to realize his potential. A student may be considered for admission to honors work if: (a) his scholastic aptitude test scores place him in the top 5 per cent of all students at the College,

(b) he attains a cumulative grade point average of 3.7., or (c) he is nominated by a high school or college instructor. Eligibles are selected by the Hanars Board after an interview with members of the Board.

Those selected for honors study participate in much of the general education program required af all degree candidates, particularly the courses in General Education, but are responsible to the Hanors Board for the precise determination of their programs. Each honors student is assigned to a tutor to whom he presents papers for subsequent discussion and with whom he confers regularly. There are a number of special courses for honors students.

Thase interested in mare details concerning the Honors Program should write to the Chairman of the Honors Board.

Personnel Services and Student Affairs

The College recognizes as a bosic condition for its entire program, the foct of individual differences. It therefore accepts responsibility for (a) guiding the student toward the formulation of educational and career plans that are realistic in the light of his abilities; (b) assisting the student ta develop techniques of self-evaluation and personal problem solving that will help him make sound decisions for himself. Orientation, testing, and counseling are among the means used to achieve these ends.

All aspects of student life are recognized as significant in relation to the achievement of college objectives. Group living, student government, social life, athletics and intramural sparts, music, art, drama, club activities—each has a recognized place in the total program. Effective stimulation and organization for these out-of-class phases of the college program are provided by coordinated student personnel services.

Concert - Lecture Series

The College brings to the campus distinguished performers, scholars, and lecturers from the fields of drama, donce, music, letters, science, travel, and world affairs. The programs are open to all students and faculty. The services of these performers may be further utilized by various departments in special forums or workshops.

Civic Music Series

The College, through the Concert-Lecture Series, makes it possible for interested students to attend events scheduled by the Civic Music Association of Bellingham. Each year this series includes programs by soloists and groups of international reknown.

The Student



Admission

General Provisions

Health

A thorough health examination is required of all students prior to admission. This examination forms a basis for the work of the Health Service in maintaining the health of each student and in helping him to overcome physical defects. The College supplies each applicant with a standard form for recarding medical history and examination data. Presentation of this form, fully executed by a licensed physician, based on an examination made within 90 days satisfactorily meets this requirement. The adequacy of the examination and tharoughness of the report must meet college standards.

The protection of immunization for smallpox, diphtheria, scarlet fever, and typhaid fever, is strangly urged far all entering students. A requirement of immunization, at student expense, may be instituted at any time at the discretion of the Health Service.

Entrance Tests

All entering freshmen are required to take the Washington Pre-College Test Battery prior to formal admission. This is a comprehensive battery made conveniently available to high school students in Washington during the second semester of their senior year. All other freshmen applicants for admission take these tests on campus immediately prior to the opening of the fall quarter. The cost of administering, scoring, and interpreting these tests (\$5.00) is borne by the student.

Freshmen failing to meet minimum standards in mathematics on the Washington Pre-College Test must take a mathematics placement test prior to initial enrollment.

All transfer students are required to take an academic aptitude test at the time of entrance. Those who do not present college credit in English and/or mathematics will take placement tests as required.

Any student failing to take tests as initially scheduled is required to poy an additional service charge for a specially orronged test.

Admission As Freshmen

General Requirements

Beginning with admission for the fall quarter, 1962, and thereofter, the College will select far freshmen admission those applicants who, on

the basis of the evidence available, are judged likely to succeed in a college program. Since no single factor is a sufficient predictor of college success, admission will be granted to graduates of accredited high schools either on the basis of high school achievement or on the results of aptitute tests which indicate that the applicant has the potential to achieve success in an ocademic program.

This multi-factor admissions policy will grant admission to freshmen applicants who qualify in either of the following two respects:

1. High School Achievement

By achieving a 2.5 or better cumulative grade point average.

OR

By graduating in the upper one-half of the senior class.

OR:

2. Measured Aptitude

By demonstrating the ability to do college level work through aptitude tests which are commanly used in high school counseling and testing programs.

In order to ease the transition from one set of standards to another a student may qualify for admission either on the basis of high school grades earned after September, 1961, or upon his total high school record.

Special provision will be made for mature persons, twenty-one years of age or older, who may be unable to meet the requirements for freshman admission.

Procedure

Method of Application

An applicant should (o) pracure the uniform application blank used by all colleges and universities in the State of Washington either directly from his high school principal or from the Admissions Office of the College; (b) provide the personal data required on this blank; (c) submit the application form to his high school principal who will supply the academic record and forward all data directly to the College.

The applicant will receive prompt notification of action on his application.

Time of Application

Prospective freshmen are encouraged to apply any time after the close of the first semester of the seniar year and should make application as early as possible. The deadline is August 1 for Fall Quarter, December 15 for Winter Quarter, and March 15 for Spring Quarter.

Early Admission

Freshman applicants for fall quarter admission who are clearly eligible at the end of the first semester of the senior year will be granted early admission subject only to high school graduation. Where the final semester grades or test scores are needed the applicant will receive notification of action on his application as soon as passible after the receipt of the necessary information.

Admission with Advanced Standing

General Requirement

Students who have attended another accredited college or university are eligible for admission, providing they have achieved a cumulative grade point average of 2.0 (C) in all previous college wark and are in good standing at the last callege attended. Those who do not meet this standard may submit a written petition to the Admissions Board. Exceptions to the minimum scholarship standard will be made only when extenuating circumstances are shown to be the cause of low academic achievement and when evidence of scholastic competence can be furnished. In many instances a personal interview will be required. The petition and supporting evidence must be in the hands of the Committee not later than August 1 for Fall Quarter, December 15 for Winter Quarter, and March 15 for Spring Quarter.

Because a large part of the teacher education curriculum is prescribed, it is frequently necessary for a student in this field who enters with three years advanced credit to spend four or five quarters to meet the total requirements for graduation.

Procedure

Procure "application for admission" form from the Admissions office. Fill out and return the form, according to the instructions.

Have an official transcript of all credits earned sent directly from each collegiate institution previously attended. Failure to submit a complete record is considered a serious breach of honor.

Upon receipt of the application and records the College will notify the applicant os to his admission and his status in regard to graduation requirements.

All applications must be filed prior to August 1 for Fall Quarter, December 15 for Winter Quarter, and March 15 for Spring Quarter.

Admission to Graduate Standing

See section on graduate work, page 81.

Academic Regulations

Registration

Dates of Registration

The date of registration for each of the four quarters will be found in the afficial calendar an pages 4 and 5.

Early Registration for New Students

In the Fall, provision is made for each new student to come to the campus for advisement and registration on an appointed day a week ar two prior to the official opening of the college year. New students are expected to return for an induction period two days prior to the beginning of Fall instruction. Any students entering for the first time, whether as freshmen or transfers from another college, who fail to participate in this opening week pragram will find themselves at a very serious disadvantage.

Registration During the College Year

During the Fall, Winter, and Spring quarters, students in attendance who plan to continue the succeeding quarters are expected to make out their class schedules for that quarter and register on the days specified for the purpose, customarily during the two weeks prior to final examinations. In the spring quarter, students also preregister for the fall.

Registration Day

Except as noted in the preceding paragraphs, registration day for new students will be the first day of each quarter. Earlier registration opportunities are provided for students of opportunities.

Applicants for admission whose credentials have not been filed with the Admissions Office will not be permitted to complete their registration.

Late Registration

A charge of \$3.00 is assessed if a student does not complete final registration by the close of the opening day at the new quarter.

Change in Registration

A charge of \$1.00 is made for any change in a student's schedule after registration is completed unless such change is made upon the initiative of college authorities.

Entering New Courses

After the close of the first week of class instruction in the Fall, Winter, and Spring quarters, students are not permitted to enter new courses. Special limitations apply to the more brief summer sessions; details are given in the summer bulletin.

Withdrawal

Withdrawal from Courses

Formal withdrawal from any course must be mode in the Registrar's office. Students leaving a class without formal withdrawal will receive a failing grade in the course.

Students may withdraw from a course with a grade of "W" during the first four weeks of instruction in any quarter. No penalty is attached other than the change of registration fee and the loss of credit.

In unusual circumstances, a student may withdraw from a course after the fourth week of instruction. A grade of P (passing) or F (failing) will be posted according to the instructor's evaluation of the student's work up to the time of withdrawal, unless such withdrawal is made at College request.

Na withdrawals are permitted during the last two weeks of a quarter.

Withdrawal from College

A student may completely terminate his enrallment at any time prior to the final two weeks of a quarter. Farmal withdrawal of the Registrar's Office is necessary. Students who leave the College without official withdrawal will receive failing grades.

The regulations regarding P and F grades as stated in the preceding section apply equally to withdrawal from the College.

Credits and Load

Credits

The unit of college work, the "quarter hour credit," represents one class hour per week throughout a period of eleven or twelve weeks, which is colled a "quarter." Laboratory courses normally meet for additional hours.

Courses generally corry credit ranging from one to five units or hours, according to the number of class meetings per week. Sixteen credits on this basis constitute the work of a quarter, and farty-eight credits that of the regular school year of three quarters.

Correspondence and Extension Credit

Work done by correspondence or extension through a fully accredited college or university may be accepted toward the bachelor's degree up to a moximum of one-fourth of the credits required.

Credit by Examination

Credit for work porolleling courses listed in this catalogue may, with the advance approval of the Registrar and of the department choirman, be established by examination. In some instances advanced placement without credit is determined also by examination.

The Academic Load

Sixteen hours including physical education constitute the standard student load. During the first quorter in residence students are limited to the standard load. Thereafter any program in excess of seventeen credits must be approved by the Registrar.

Students who are permitted to carry an overload must have met the following grade point standard during the previous quarter or in all previous work done in this institution:

18-hour	load	2.8
19-hour	load	3.0
20-hour	load	3.2

A load in excess of twenty hours is not permitted under any circumstances. The maximum load allowed is somewhat less in the summer sessions.

A student doing outside work for three or four hours per day shall not carry more than thirteen hours, including physical education, unless he has demonstrated his ability to carry the load without detriment to his scholarship or health. A student working more than four hours per day is expected to reduce his scholastic program accordingly.

Attendance and Grades

Attendance Regulations

Closs ottendance is required at all times. Absences are excused only for reasons of illness or injury certified by the Health Service, in cases of emergency allowed by the Registrar, are at the request of some authorized member of the staff.

System of Grading

In reporting grades to the Registror, instructors use the following marks:

A Superior	U Unsatisfactory
B High	S Satisfactory
C Average	KIncamplete
DLow	W Withdrawn
F Foilure	WP Withdrawn, Passing

A course in which a student has failed most be repeated if credit is desired.

A grade of F is assigned if a student fails to carry out the prescribed pracedures when withdrawing from a course or fram the college, or if he fails to clear a grade of K in the prescribed time.

The grade of S is given in certoin courses where it is not practical to use the regular grading system. Credit is allowed as specified but no grade points are assigned and the course is disregarded in computing the grade point average.

The grade of K indicates that the work is satisfactory as far as completed. It permits the student after consultation with the Registrar to camplete the work within a reosonable period in the way prescribed by

the instructor. The grade of K is given only in cases of illness or other extenuoting circumstances which make it impossible to complete all work by the close of the quarter.

If the student remains in college the incomplete must be cleared during the quarter immediately following receipt of the grade; otherwise a grade of F is assigned automatically. In special circumstances the Registror may extend the period for removal of the incomplete. The privilege of clearing an incomplete lapses after five years even though the student is not cantinuously enrolled.

A grade of W is given when the instructor is notified that the student has officially withdrown. P or F grades are assigned in cases of withdrowal after the fourth week of instruction as provided on page 45. If a course has been corried long enough and the work has been of a satisfactory character, the instructor may assign a K or, in exceptional circumstances, a grade carrying credit for the course.

Grade Reports

At the close of each quarter a grade report is mailed to all students. Reports will be mailed to parents of students under 21 years of age upon request of the parent or the student.

Mid-Term Deficiency Report

In the middle of each quarter, unsatisfactory work evaluated as less than "C" is reported directly to the student, but not recorded.

Grade Points

Grode points serve as a means of objectively stating a given level of scholarship. The point value assigned for each grade is as fallows: 4 paints for A, 3 for B, 2 for C, 1 for D, 0 for F or U. The number of grade paints earned in each course is computed by multiplying the number of credits by the grade paint value of the letter indicated. Thus a 3-hour course with a grade of B is assigned 9 grade points. The grade paint overage is the result of dividing the total number of grade points by the total number af registered hours. A grade point overage af 2.0 represents a letter standard of C. A grade af S and the credit involved in such a course do not enter into the computation of grade point average.

Grades for Repeated Courses

In the event a student repeats a course in which he has received a failing or low passing grade, the second grade is used in computing the grade point average, and the first grade is ignored.

Standards Governing

Low Scholarship

Regulations

Termination of Enrollment

At the end of the third quarter of attendance, or any subsequent quarter, a student is dropped from the College if his cumulative grade point average falls below 2.0, except that a student will not be dropped at the close of any quarter in which he achieves a 2.0 average or better for the quarter. A student whose enrollment is terminated may normally petitian the Scholostic Standing Committee for reinstatement unless he is on final probotion. (See below.)

Warning

Students who are not dropped but who receive less than a 2.0 grade point average during any given quarter are notified of the faculty's concern and encouraged to take advantage of all available assistance. Such warning becomes a matter of permanent record.

Academic Probation

- 1. A freshman admitted to regular status who fails to achieve o grade point average of 2.0 at the end of the first quarter of attendance is sent a warning notice. He is required to consult with his faculty counselar during the first week of the ensuing quarter. If he then fails to achieve a cumulative grade point average of 2.0 at the end of his second quarter he is placed an academic probation.
- Students other than first or second quarter freshmen are placed on academic probation:
 - a. when subject to scholastic worning far two consecutive quarters or
 - b. when admitted or readmitted to the College by action of the Scholastic Standing Committee.

Final Academic Probation

A student placed on "final probation" by the Scholastic Standing Committee must thereafter meet standards governing minimum scholarship and may not petition for re-enrollment if he fails to do so.

Restrictions Governing Students on Academic Probation

Students on academic probation (including final academic probation)
(a) are not eligible for remunerative emplayment on campus; (b) may not hold an elective or appointive office in any student arganization nor appear in any performance before the student body or the public; (c) may not represent the College or student body at any conference nor as a member of any team or organization.

Probationary status is terminated when a cumulative grade point average of 2.0 has been attained. This applies to those on final academic probation, except that in the event of subsequent failure to maintain this standard the student may not petition for reinstatement.

Other Regulations

Resident Status

Certain college regulations and standards relative to an-campus employment, eligibility for student offices, and requirements for graduation require status as a "full time resident student." This requires enrollment in regularly scheduled courses totaling not less than twelve quarter hours. However, veterans or students deferred by the Selective Service System are expected to carry loads adequate to constitute normal progress taward a degree.

Special Students

Persons corrying not more than six credits are classed as special students. They pay a smaller fee but do not share in certain student body privileges.

Auditors

Any mature person not desiring to register for credit may, with the consent of instructors and upon payment of a fee of \$15.00 per quarter, enroll as an auditor in any except laboratory courses.

Final Examinations

As a matter of Callege policy, individual students are not permitted to take early final examinations. Failure to take the final examination in any course normally results in a grade of "F." When, for emergency reasons, a student is unable to appear at a final examination at the scheduled time, he may arrange in advance with the instructor to receive a grade of "K" (incomplete). This privilege is to be extended only to students whose achievement in the course is satisfactory. Removal of the "K" grade is to be achieved early in the following quarter (summer excepted).

Application for Graduation

Students must make farmal application to the Registror for ony degrees ar certificates which are to be issued by the College. It should be noted that completion of requirements does not automatically lead to the issuance of the degree or certificate unless formal application is filed.

Student Living

General Information

The College considers group living an important phose in the total college experience and is therefore directly concerned in mointaining high standards.

Residence halls for men and women and a large number of approved homes provide adequate accommodations for students. Privately owned boarding places and housekeeping rooms are approved only as they meet the college standards.

All students who are not living at home or with immediate relatives are required to live in College approved residences. Women secure their rooms through the office of the Dean of Women. Men secure their rooms through the office of the Dean of Men.

General Information

Each hall is in charge of a qualified house mother. Adequate provision for the social life of student residents is provided.

Board and room are furnished to students at a rote as low as is consistent with proper living conditions. Dormitory residents must board at the College dining hall.

Most roams are for double occupancy. They are furnished with single beds, pillows, mattresses and pads, as well as study desks and chairs. Bed linen is supplied by the College. Blankets are furnished by the students. Tawels, dresser scarves, pictures, and other accessaries are furnished by the student.

Laundry facilities are available in both the women's and men's residences. No electric irons, electric heaters, or electric plates may be used in student rooms.

Students may not move from the halls during a given quarter except in an emergency and only with the consent of the Dean of Men or the Dean of Women.

The residence halls are closed during the college vacations.

On the apening day of each quarter, payment for raom and baard may be accomplished as part of the regular enrollment procedure.

College Residences

For Women

EDENS HALL, located on the north part of the campus, has accommadations for two hundred-twenty in two wings attached by an enclosed breezeway. Residents share a comman social room and other facilities. In general Edens North and Edens South are considered to be one half.

HIGGINSON HALL, a new dormitory, is located on the north part of the campus. Unlike the other darmitories, this has twa-room suites with connecting both with four girls in each suite. Twa hundred eight are accammodated in this building.

RIDGEWAY DORMITORIES A and D, located at the south end of the campus are ready for occupancy in the fall of 1962. There will be ten darmitories and a Cammons in the Ridgeway area by the fall of 1964. Freshmen may apply for Ridgeway.

SENIOR HALL is conveniently located midway between the college and city center, about eight blacks from campus. This is a small darmitory, housing 25 residents. It has a special atmosphere of graciousness and charm.

WRH (Womens Residence Hall) is located on the south side of the campus, and accommodates 76 residents.

For Men

HIGHLAND HALL, including a three-wing addition completed in September, 1960, provides quarters for 236 men. Ridgeway Dormitories B and C, open for occupancy in the fall of 1962, house 197 men.

Off-Campus Housing

Furnished Rooms

Furnished rooms are available in private houses near the College. These are engaged for the entire quarter; no changes are permitted during the quarter except in cases of emergency when satisfactory arrangements must be made with the house mother and either the Dean of Men or the Dean of Wamen. Students are advised to make personal application before entering the College. A list of approved house will be mailed upon request to the Dean of Men or the Dean of Wamen.

Housekeeping Rooms

Under special canditions students may be granted permission by the Dean of Women or the Dean of Men to do housekeeping in approved quarters which are supervised by house mothers. A list of approved housekeeping rooms is available in the deans' offices,

The Y.W.C.A. and the Y.M.C.A.

These organizations afford living accommodations for a limited number of students. They also serve as temporary quarters for those who have not found permanent homes in the city.

Financial Arrangements

A room deposit of \$25 is required of all students in bath collegeowned and college-approved residences. A receipt for this deposit establishes the student's reservation for all three quarters of the academic year. The deposit may be left to apply at a later date following a leave of one quarter or more.

This deposit, less any charges for breakage, is normally refunded when the student checks out at the close of any quarter. Students in college halls obtain a checkout card from the Resident Director and a clearance signature from the Room Service Office.

Since summer reservations are made separately, deposits are corried over for the summer quarter only upon request of the student.

When this deposit is made in advance of actual occupancy it constitutes a reservation fee which in the event of cancellation is non-refundable unless the vaconcy is filled without loss of revenue. Consequently, the earliest possible notification of cancellation is advisable. When a student is entitled to such a refund it is made at the beginning of the second week of the quarter for which the room was reserved.

Housing rates are described on page 61.

Housing For Married Students

The College owns and aperates fifty apartments that are located on or near the campus. These apartments are unfurnished except for an oil-conversion range which provides heat and hot water for the unit. The rent on these units ranges fram \$30.00 per manth for a one-bedraam to \$35.00 per manth for two bedraams. Application for this type of housing is made through the Business Office. Preference is given to undergraduate veteran students.

Privately-owned apartments and dwellings suitable for morried students are sometimes available. The offices of the Dean of Men and Dean of Women provide lists of known vacancies on request. These lists are prepared for distribution prior to the start of each quarter. In the main it is advisable to seek such housing further in advance.

Food Service

All College boarding facilities are centralized in Viking Commons, a new building adjacent to the Viking Union.

All dormitory residents are required to take their meals in Viking Commons on the seven-day meal plan (twenty-one meals). When the student is required to be off-compus every week-end far employment or other excusable reasons, a five-day plan may be arranged after clearance with the Dean of Men or Dean of Women.

Food service at Viking Cammons is available to those living off campus at the same cost as that to dormitory residents. Meal tickets may be purchased an a seven-day basis. Single meals are also available on a cash basis.

Health Service

The primary function of the Health Service is the protection of the college cammunity.

A dispensary is open to all students during class hours. The College also maintains a hospital on the campus for cammunicable diseases and minor illnesses. Any student is provided core without charge for five days during the academic year. Thereafter a nominal per diem charge is made.

Illness of students must be reported at once, and each day thereafter, to the Nurses' Office. After an illness, the student must report in person to the Nurses' Office before attending classes.

In cases of severe illness the Health Service reserves the right to request the attendance of a physician chosen by the student. Close cooperation is maintained between the Health Service and the physician. For serious illness there are two city hospitals available to students.

In addition to the health services, 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 corry adequate health and accident insurance are urged to take advantage of this plan.

Student Activities and Organizations

A total college experience, one which is in Woodrow Wilson's phrase "courses, contacts and contagions," encompasses a great deal that accurs autside the classroom. The program of student affairs at the College is planned and coordinated through the office of the Director of Student Activities to provide maximum opportunity for student participation in a wide range of genuinely profitable experiences. Student affairs are in no sense incidental in the tatal plans of the College; rather they are an integral and highly important phase of the total range of experiences aimed at helping students become well integrated, effective people.

Student activities and organizations, in a large measure, are administered by the students themselves with faculty advisement and within the framework of general college policy. The student handbook, "The Navigator," outlines in detail the frame of reference within which student organizations and activities operate.

MEMBERSHIP IN THREE ORGANIZATIONS belongs to every student by being enrolled in the College:

THE ASSOCIATED STUDENTS, by which the student body is largely self-governing, assumes a vital role in financing and managing a wide range of student activities.

FRESHMEN, SOPHOMORE, JUNIOR and SENIOR classes which are organized with officers, committees, and a plan of aperation.

THE ASSOCIATED WOMEN STUDENTS and the NORSEMEN which promote common interests and fellowship among women and men respectively. These groups assist in meeting and welcoming new students, and in generally sponsoring student activities.

The VIKING UNION is the community center of the College. Offices for many student activities, including the Associated Student Body, publications, and the Director of Student Activities, ore located in the Union. The Director and the Union Board of Commissioners administer facilities and services which give a new dimension to this aspect of college life. Meeting rooms, lounges, shops and work areas, together with the organization and program represent a well-considered plan for the community life of the college.

LIVING GROUP ORGANIZATIONS represent an important opportunity for personal growth. Students not residing at home will find that the residence halfs are organized for self government and often sponsor activities on the campus.

STUDENT ORGANIZATIONS are planned to provide an educational and social experience not always available to students in the ordinary classroom situation. Within the stated educational objectives of the college, and under the guidance of the Director of Student Activities and faculty advisors, these organizations sponsor programs and activities common to the interests of the membership.

Although a few student organizations are open only to students with a particular departmental affiliation or skill, most are open to any interested student. Students are encouraged to become involved in some aspect of the out of class activity program. A listing of all student organizations and their purpose is published in the Navigator.

POLITICAL ACTIVITIES—are open to all students through the local chapter organization of the Young Democrats and the Young Republicans. Although these groups do not represent an official action of the Callege, students are able to develop and further their own political ideas and to find expression for them in either of the two groups.

RELIGIOUS ACTIVITIES AND ORGANIZATIONS are open to all students through interdenominational and denominational groups not directly a part of the college program.

Inter-denominational organizations are the Inter-Varsity Christian Fellowship and the United Student Christian Foundation.

Denominations currently represented by student clubs are Baptist, Christian Science, Episcopalian, Eutheran, Methodist, Marmon and Roman Cathalic.

ATHLETICS have an important place in the activities program, whether inter-collegiate or intramural. Students interested, either as spectators or as participants, in intercollegiate sports can choose from football, basketball, baseball, trock, swimming, rugby, tennis, golf, wrestling, and skiing. The College is a member of the Evergreen Conference.

The comprehensive intramural schedule, which is outside of class hours, includes practically all group and individual sports. All students are encouraged to participate and ta reap the benefits, not only of healthful recreation, but of increased physical skill.

DEBATE, DRAMA, MUSIC, PUBLICATIONS: Broad opportunities for the development of new interests and skills lie in the activities of various departments. Debate is a field in which the college has won considerable eminence, not only in this State, but in competition across the country. With the facilities of a regulation theater size stage, the students have an excellent opportunity for both acting and production. An active music department is developed around performance organizations including the bond, orchestra, acappella choir, various quartets, string ensembles, and other small groups. Various publications, including a news weekly, the WESTERN WASHINGTON COLLEGIAN; a college yearbook, the KLIPSUN; and certain minor publications, exemplify an active interest in journalistic and editorial talents.

The Recreational Program

A policy of the College is to make ample provision for recreation throughout the year for all students, both men and women. The program, which is under the direction of a faculty committee, includes a wide range of activities.

A strong intromurol program provides activities for men and for women as well as on a coeducational basis. The following activities which vary according to season and student interest, are available: field hockey, volleyball, basketball, softball, swimming, table tennis, tennis, golf, soccer, archery, speedball, shuffleboard, badminton, horseshoes, hiking, flag or touch football, and fencing.

On one evening a week the physical education building is open for recreation for both men and women. Other coeducational activities include hiking and skiing. Frequent ski trips are taken to the Mt. Baker Lodge area; accasional overnight trips are arranged during the height of the skiing seasan. The College Ski Shop provides equipment on a rental or purchase basis and has a repair service available.

During the summer sessian an extensive program of recreotion is conducted.

At the LAKEWAY GOLF COURSE, a nine-hole course within easy walking distance of the College, instruction is offered at reduced rates to students, who are allowed playing privileges for a nominal fee. Other galf courses are located within a few minutes drive of the campus.

VIQUEEN LODGE, a thirteen-acre tract of land, is on Sinclair Island, one of the San Juan group. The praperty has a shore line on two sides. The lodge is owned by the Women's Recreational Association, but is available to other college students for day or week-end trips through the Women's Physical Education Department.

KULSHAN CABIN, a mountain lodge lacated in the Mount Baker regian, is owned jointly by the College and the Mount Baker Club of Bellingham. Hikes of varying length and difficulty moy be made in the vicinity of the cabin.

LAKEWOOD, owned by the Associated Students, is a nine-acre tract of land, with a quarter-mile waterfront on Lake Whatcom, where swimming, boating, and other outdoor recreation may be enjoyed. Lake Whatcom, a beautiful body of water twelve miles long and a mile wide, is within twenty minutes ride by autamobile from the College.

Student Finances

In a period of fluctuating prices, all fees and living charges are subject to change without notice. Such changes, if any, will be moderate. The College will continue its policy of holding student costs to the minimum commensurate with effective services and healthful living.

Tuition and Fees

Checks and money orders for fees or living charges should be made payable to
WESTERN WASHINGTON STATE COLLEGE

Quarterly Tuition				
Residents of the State of Woshington\$15.00				
Non-Residents of the State of Washington				
Additional Quarterly Fees				
These fees are required of all students who register for more than six quarter hours of credit. Funds derived from this source are used to finance certain non-instructional aspects of the College program, including (a) student activities, such as athletics and publications; (b) a student health program; (c) bond redemption for student residences and Union Building; (d) the student book store building; (e) the purchase of designated supplies and laboratory materials.				
Special Student Fee —paid quarterly in lieu of other regular fees by those who register for not more than six credits:				
Basic fee				
Additional, for each credit				
Auditors Fee—paid quarterly by those enrolling for one or more courses without credit by permission of the instructor and the Registrar				

Miscellaneous Service Charges

Muscendileous del vice Charges			
On-compus parking, per quarter			
Changes of Schedule. After the student has completed his regis- tration, \$1.00 is charged for any change not made on the inj- tiative of a college official.			
Late Registration. \$3.00 is charged If a student fails to preregister or register at appointed times.			
Test Service			
Required of those who fail to take the entrance tests at the regularly scheduled time.			
Special Examination Charge for those who seek college credit in a given course through examination			
Teaching Certificate. Payable at the time of issuance			
Diploma Charge. Payable at graduation\$5.00			
Placement Service Charge. Payable at graduation \$2.00			
Transcript Charge Schedule			
Each student is entitled to one official transcript of his scholastic record at Western Washington State College without charge. For subsequent transcript requests, there is a charge of \$1.00. Additional copies requested at the same time are issued at a charge of 25c each. When additional credits have been earned, a free supplement will be sent upon request to the same addressee os a previous transcript.			
Music Instrument or Proctice Space Charges			
Pipe Organ rental, per quarter\$10.00			
Other Instrumental or Practice Space Rental, per quarter 2.00			

Refund of Fees

Tuition fees are not refundable. In ordinary circumstances, all other fees are refunded if a student withdraws during the first week of the quarter. If withdrawal occurs during the second week, one half of the fees, other than tuition, will be refunded. After the second week of instruction, no refunds are granted.

Textbooks

The College does not provide textbooks for the personol use of students, but the Cooperative Bookstore is maintained by the Associated Students to furnish all necessary books and supplies at reasonable prices.

Charges for Materials

For the convenience of those in certain courses requiring the extensive use of materials or articles retained by the student, materials are charged to the student at cost. The department issues an invaice for such materials and the student pays the charge at the Business Office.

Lackers

Metal lockers are available without charge to students in certain buildings. Students must provide themselves with the standard type combination lock sold only by the Student Caoperative Bookstore.

Living Costs

Board and Room in College Residence Halls

Board and room charges in college residential halfs for both men and warmen are payable by the quorter in advance. The rates are as follows:

Fall Quarter(Due September 26)	\$231.80*
Winter Quarter	233.90*
Spring Quarter	219.30*

While arrangements for smaller payments at the first of each month may be made, the student is obligated for the total quarterly charge.

^{*} These charges are based on the actual number of meals served during the quarter, Board and room on a Monday-through-Friday basis is available only in cases of regular out-of-town week-end employment. Such arrangements are made through the Dean of Men or the Dean of Women.

Delinquent Accounts

Unpaid room and board accounts are assessed a penalty of 25c per day effective on registration day. The penalty applies each pay period for those who are delinquent in their payments. Registration and payment of room and board is to be made befare the student receives meals in the residence halls. The student may pay on a cash basis until his board account is paid. This maney is not refundable.

Refunds

Room payments are not refundable. Board refunds or partial refunds are made in case of one full week's illness or when a student teaching assignment conflicts with the meal schedule. Refund cards are issued in the Room Service Office, Viking Commans.

Furnished Rooms Off-Campus

Prices for furnished rooms without board range from \$17.50 to \$27.50 a manth for each student in the room. Single rooms are somewhat higher.

Estimate of Total Costs

The total estimated expense for three quarters, including cost of boaks and supplies as well as a moderate allowance for incidentals, is as follows:

	MUMINIM	AVERAGE
If rooming and boarding	\$1,100.00	\$1,300.00
If housekeeping	850.00	1,150.00
If living at home or working for roam and board	450.00	550.00

These figures make no provision far clothing costs or travel expense.

In a period of fluctuating prices, all fees and living charges are subject to change without notice. Such changes, if any, will be moderate. The College will continue its policy of holding student costs to the minimum commensurate with effective services and healthful living.

Opportunity for Self - Support

It is the policy of the College to offer as many opportunities as possible to young men and women who must earn part of their expenses. Such apportunities are found in the library and the science laboratories, the dining hall, and in janitor service. Eligibility is established by registration for twelve credit hours of academic work and the attainment and maintenance of a satisfactory grade point average before or during attendance at the College. The College makes an effort to assist students is gaining part-time employment through the Financial Aids Officer, to which all inquiries should be addressed.

Students thus employed may be required to lighten their academic loads.

Living expenses may frequently be met in part by work in private homes and in stores and shaps in the city. Also room and board may be provided in exchange for help with household duties. Such oppartunities are more aften available for women than far men. Arrangements for such apportunities may be made through the office of the Dean of Women.

Departmental Assistantships

Pregraduate Assistantships

The Cooperative Program of Education for Callege and University Teaching, sponsored by the Ford Foundation and the University of Washington, is designed to aid superior students in Arts and Sciences, in the fields of chemistry, English, history, fareign languages, mathematics, and physics, in their lost two years as undergraduates and in their first year of graduate study. Counseling, as well as financial assistance, is provided.

A Prergraduate Assistant works with a professor in his chosen field so as to encourage the student's development as scholar and teacher. He receives a stipend in connection with this activity.

Graduate Assistantships

A number of graduote assistantships will be available in 1962-63 and 1963-64. Duties will be assigned in the various departments of the College. A stipend of \$200 per month will be paid. Inquiries should be addressed to the Dean of Graduate Studies.

Scholarships

Western Washington State College annually owards approximately 75 scholarships to outstanding entering freshmen. The awards are sufficient to cover the cost of College tuition and fees for one year.

To be eligible far consideration, students must rank in the upper quarter of their graduating class at the time of application and be recommended by their high school principal. Application forms may be secured from the high school principal or counselor after January 15 or by writing directly to the College. All applications must be completed and on file by Morch 15.

The awards include:

PROSPECTIVE TEACHER SCHOLARSHIPS: These are available to entering students who plan to enter the teaching profession and who have demonstrated in a high degree those qualities required of superior teachers.

ARTS AND SCIENCES SCHOLARSHIPS: Entering freshmen who do not anticipate a teaching career but who expect to complete requirements for a College degree in another field of study are eligible to apply.

In addition to scholarships offered by the College, the Washington Congress of Parents and Teachers each year makes awards to freshmen students of outstanding merit entering Western Washington State College to prepare for teaching careers. For 1962-1963, three such scholarships are being granted in the omount of \$700 (\$175 each year for four years).

Music Students from Whatcom County are eligible to compete for the Paul Lusterman Memorial Scholarships. Three scholarships, in the amounts of \$250, \$100, and \$50, are awarded annually.

Also, the Baeing Company has established scholarships at the College for prospective teachers of science and/or mathematics. Applicants for a Baeing Scholarship must show evidence of interest and outstanding ability in science or mathematics.

A limited number of awards are available to graduates of Washington junior colleges. Detailed information is available on request.

Tuition and Fees Scholarships

The following full Tuition and Fees Scholarships are offered:

Alpine Cafeteria

American Fabricators Company

Mr. Claude Aubert

8 & P Distributors

Bossetti & Morse, Architects

Bellingham Builders

Ballingham Cold Storage

Bellingham First Federal Savings & Loan

Bellingham Kiwanis Club

The Bellingham National Bank

A. J. Blythe Plumbing

Boeing Company

Cascade Laundry & Cleaners

Cascade Natural Gas Corporation

Dahl Fish Company

Eiford Construction Company, Inc.

Fountain Drug & Variety

Fauntain Motors

Haskell Corporation

Horseshoe Cafe

Ireland & Bellingar Insurance

Mr. J. W. Johnson

KVOS-Television

Mobil Oil Company, Ferndale Refinery Employees

Newland Construction Company

Northern Sales Company

Pacific First Federal Savings & Loan
Association

Presser Foundation

Puget Sound Power & Light Company

Puget Sound Pulp & Timber Company

Rotary Club

Royal Inn

Safeway Stores

Saga Food Scholorships for Academic

Excellence

Sears Roebuck & Company

(Bellingham Branch)

Thriftway Stores

Tri-County Office Equipment

Union Printing Company

Vienna Cleaners Award

Whatcom County Dairymen's Association

Whatcom County Medical Society

Whatcom Travel Service

The College Student Loan Fund

STUDENT LOAN FUND—A student loan fund exceeding \$30,000 is held in trust by the Board of Trustees and is made available at a low rate of interest to such students as recommended by a faculty committee. No one is eligible to borrow from this fund until after one quarter's residence.

EMERGENCY LOANS—Under special circumstances small emergency loans are made from the student loan fund through the Dean of Women or Dean of Men. Na emergency loan is granted for the payment of fees.

PROCEDURES — Detailed information concerning the Student Loan Fund may be secured from the Financial Aids Office. Loan application forms are obtained from the Secretary of the Student Loan Committee in the Business Office.

National Defense Education Act Program

The College participates in the National Defense Education Act Student Laan Program — Loans are available to all students with proven academic obility who can also demonstrate financial need. The provisions of the Act make this loan program especially attractive for prospective teachers and students majoring in science, mathematics, or a modern fareign language. High school seniors of superior ability who are unable to finance a college education may make application for a loan under this program during the spring semester prior to graduation. All inquiries about the National Defense Student Laan Program should be directed to the Financial Aids Office.

Information For Veterans

The College has made every effart to adopt to the special needs of veterans. Those who are qualified for educational benefits under Public Law 550 (the Korean Bill) enroll under the provisions of that act. All payments are made directly to the veteran. A contract with the Veterans Administration is kept in force for those attending under Public Law 894, the Rehabilitation Act for disabled veterans.

A special advisory service for all veterans is provided through the Office of Admissions. Special inquiries should be directed to that office.

Matters of eligibility for veterans' benefits should be arranged directly with the Veterans Administration in advance of initial entrance. Veterans may secure a certificate of eligibility by presenting a copy of their discharge to the nearest Veterans Administration Office.

Veterans transferring fram one institution to another or from another training situation in which they have been receiving veterans' benefits must notify the regional office of the Veterans Administration servicing their particular area and receive a revised certificate of eligibility.

There is some provision for the housing of married veterans at maderate cost.

Children of deceased veterans who qualify for educational benefits under Public Law 634 should make the necessary arrangements directly with the Veterans Administration.

Student Personnel Services

The College does not consider that its responsibility to students ceases with the provision of good instruction and instructional facilities. There is a keen awareness that oll aspects of the student's college experience relate to his development as an increasingly effective person. It is recognized that each student is a unique individual with his own pattern of obilities, circumstances, and needs. The College endeavors through its guidance program to assist a student toward better self-understanding and wise decisions in educational planning.

THE ORIENTATION PROGRAM. Enrollment of new students occurs in early September each year with planning and advisement on an individual basis. Immediately prior to convening the fall quarter new students have apportunity to become acquainted with the facilities and program af the College and to meet faculty and staff on an informal basis.

THE FRESHMEN COUNSELING PROGRAM. Without exceptions, all members of the teaching faculty devote a definite share of their time to consultation with new students during their first year on the campus. The advisory relationship extends on a more informal basis throughout the student's entire scholastic career. Each faculty sponsor accepts responsibility for ossisting the individual student to effectively meet the initial problems of adjusting to college, to develop an intelligent career plan, and to select the program of studies most appropriate to that plan.

The oim of all counseling at Western Woshington State College is to develop in the student himself the capacity and skills necessary for self-guidance.

THE ACADEMIC ADVISEMENT PROGRAM is a natural extension of services through the sophomare, junior, and senior years in all three divisions of study. The student's academic program in the freshman year consists largely of generol education courses. As more elective opportunity develops, the student finds it necessary to make important decisions in the matter of course selection. Only by so doing may be realize the greatest returns from his college study in terms of a career objective. Further, for most students, an academic program must be planned within the framework of degree requirements. Through a carefully developed plan, the College endeavors to provide continuing personalized advisement. Enrollment and registration are loaked upon as highly individualized procedures.

Student Personnel Offices

THE OFFICE OF THE DEAN OF STUDENTS. This office has the responsibility for planning and coordinating the aut-of-class program and the guidance services of the College, bringing together into an effective working relationship all student personnel offices.

OFFICE OF THE REGISTRAR. This office is responsible for the maintenance of complete student records and enrallment procedures. The Registrar also has important counseling and advisement responsibilities.

THE ADMISSIONS OFFICE. High school students considering application for admission to Western Washington State College usually contact the Admissions Officer during their senior year through the State program of college conferences. In addition to pre-entrance guidance, this office administers admission procedures.

THE OFFICES OF THE DEAN OF MEN AND DEAN OF WOMEN. In these offices students find friendly counsel in meeting with any problems which may arise. The Deans also assume responsibility for providing and regulating living conditions conducive to success in college.

OFFICE OF STUDENT AFFAIRS. The encouragement of sound student government and the effective coordination of the extra-curricular program are the major responsibility of the Director of Student Activities.

OFFICE OF FINANCIAL AID. Awards and scholarships, loans, and student employment are administered by this office.

THE PLACEMENT OFFICE. Through this office, the College assists its graduates and prospective graduates to find full-time positions appropriate to their training and abilities. Placement service is also rendered to graduates who may register for promotion or change of position.

THE HEALTH SERVICE. The College nursing staff is consulted in any instance of illness or accident and is available for guidance in all health matters. Through this office dispensary and infirmary services are also administered.

OFFICE OF THE COLLEGE EXAMINER. Primary responsibility for psychological and achievement testing and the interpretation of test data resides in this affice.

THE COUNSELING CENTER. Students seeking special assistance in vacational planning or personal problem-solving are encouraged to use the resources of this office.



The Instructional Program



The Instructional Program

Courses of study offered by the Callege are planned to meet the needs of three distinct groups:

Those preparing for careers in public school teaching and administration. This is the first responsibility of the College.

Those seeking o full four years of liberal education os general preparation or as pre-professional training.

Those entering upon well-defined prafessional training, such os engineering, journalism, and business administration, who prefer to take the first one or two years in the more intimate atmosphere of a smaller college.

Pravisions for these three groups are outlined under:

- 1. The Program of Teacher Education.
- 2. The Arts and Sciences Program.
- The Transfer Program.

Teacher Education

Teacher Certification, Washington

In 1960 the Washington State Board of Education adopted modifications in the teacher certification program which are implemented in the program of teacher education at the College. Under this program, two certificates are granted: (1) The Pravisional Certificate, and (2) The Standard Certificate. The Provisional Certificate is issued with the Bachelar of Arts in Education degree upon campletion of a prescribed four-year pre-service program. The Standard Certificate is issued ofter teaching experience and upon completion of a fifth college year.

The guidelines and standards odopted by the State Baard of Education place responsibility upon the teacher-education institutions for recommendation of teachers to teach at specific grade levels and in specific subject-matter areas in the schools of the state. The assignment of first-year teachers at the recommended grade levels and in the recommended subject-matter areas is the responsibility of the school districts of the state.

The initial year of teoching experience is considered part af the teocher's education and is to be followed by a planned program of continued study before the standard certificate is issued.

The Pre-Service Program

The undergraduate or four-year college program leading to the provisional teaching certificate includes

- **General Education:** Every teacher, regardless of the level at which he teaches, should be a liberally educated person. His knowledge should range across such areas as the humanities, the arts, the social sciences, and the natural sciences and mathematics.
- Areas of Subject-Matter Concentration: Every teacher should achieve a reasonable degree of scholarly competence in some field ar area of learning which is applicable to the curriculum of the public schools.
- The Professional Sequence: Every teacher should engage in a systematic study of education as a profession in order that he may understand the school, the pupil, and the teaching process.
- **Electives:** Every teacher should extend his knowledge beyond that developed through required courses by choosing courses immediately related to his widely-ranging interests.

The Bachelor of Arts in Education Degree and the Provisional Certificate

General Requirements

Each student wishing to be granted the Degree of Bachelor of Arts in Education must satisfy the following requirements:

- Residence. At least one full year (45 credits) in residence. A maximum of 48 credits may be applied in extension or correspondence work.
- Final Residence. The last quarter's work (at least 12 credits) earned in residence.
- **Scholarship Standard.** A cumulative grade point average of 2.0 and at least "C" grades in all professional caurses and in all courses applying to majors and minors.
- Credits. At least 192 credits.
- **Upper Division Credit.** Not less than 60 of the 192 credits must be in courses numbered 300 or higher.

Requirements in General Education

All students wishing to qualify for the Provisional Certificate and the Bachelor of Arts in Education Degree must take the following:

C	redits
*English 100, English Composition	3
English 101, English Composition	
Speech 100, Fundamentals of Speech	
General Education 101, Matter and Energy	4
Biology 104, Principles of General Biology	4
**Mathematics 151, Fundamentals of Mathematics	3
Physical Education, Selected Activity Courses	3
General Education 102, Earth Science	4
General Education 105, Behavioral Science	4
General Education 121, Humanities I	6
General Education 122, Humanities 11	6
General Education 123, Humanities III	6
General Education 221, Humanities IV	6
General Education 321, A Survey of Afro-Asia	2
General Education 421, Great Issues	, 2

^{*}Students failing to meet minimum standards in English on the Washington Pre-College Test may not register in English 100 until their second quarter of college attendance. These students are urged to undertake remedial study during their first quarter. Special instruction is available on the campus under qualified teachers but outside the college curriculum. The cost of this instruction (\$15.00) is borne by the student.

IMPORTANT:

All regular students must earn a passing grade in English 100 by the end of their freshman year. Enrollment for a fourth quarter is open only to students who have satisfied this requirement.

^{**}Students judged deficient in mathematics on college entrance tests are required to remove the deficiency prior to a fourth quarter of enrollment.

The Professional Sequence

Each student wishing to qualify for the Provisional Certificate and the Bochelor of Arts in Education Degree must take the following courses:

	Credits
Education 301, Education and American Society	3
Education 392, Directed Teaching	. 8
Education 492, Directed Teaching	16
One of the following three courses:	
Education 315, Foundations of Education	3
Education 316, Foundations of Education	5
Education 415, Philosophy and the Curriculum	., 5
Psychology 261, Psychology of Adjustment	3
Educational Psychology 355, Human Growth and Development	. 4
Educational Psychology 371, Evaluation in the Public School	3
Educational Psychology 451, Principles of Human Learning	3

Requirements for Subject-Matter Concentration

Each student wishing to qualify for the Provisional Certificate and the Bachelor of Arts in Education Degree must earn from 60 ta 70 credits in an approved concentration of courses in a field or fields related to the curriculum of the State's public schools.

A choice may be made among programs at three levels of public school organization

- 1. PROGRAM FOR ELEMENTARY SCHOOL TEACHING
- 2. PROGRAM FOR JUNIOR HIGH SCHOOL TEACHING
- 3. PROGRAM FOR SENIOR HIGH SCHOOL TEACHING

Further choice as to subject-matter specilization may be made within each program, as described below:

PROGRAM FOR ELEMENTARY SCHOOL TEACHING

Subject-matter concentrations are to total no more than 70 credits and are to be divided into two categories:

The Elementary Concentration. Courses required in this block will total no more than 42 credits, and will be distributed over the four years of preparation. Approval of programs in this concentration will be conducted by the Coordinator of Student Teaching.

Expressive Arts:	Credits
Art 325, Art Education (with listed prerequisites)	5
Music 250, Music for Elementary Teachers	'5
Industrial Arts 350, Industrial Arts for Elementary Schools	3
Language Arts:	
English 485 or Education 485, Techniques of Reading	3
Two of the fallowing courses:	
English 425, English for the Elementary School	3
Librory 305, Books for Elementory Schaols	3
Speech 233, 355, 430, or 450	3
Mathematics:	
Mothematics 251, Foundations of Mathematics	4
Mothematics 481, Mathematics in Grades One through Eight	4
Physical Education:	
Physical Education 306, Physical Education Methods and Materials for the Elementary School	3
Science:	
Two of the following three courses:	
Physical Science 382, Physical Science for Elementory School	S lc
Biology 383, Biological Science for the Elementary School	3
Geology 384, Earth Science for the Elementary School	3
Social Studies:	
Social Studies Education 425	3

One or more of the courses listed above may be waived if permission is granted by the department in which the course is tought. A student should request the woiver of a course only if he can provide evidence that the competence which the course is to develop has been provided for in other ways; for example, mothematics majors may request a waiver of Mathematics 251, or students having extensive background through private lessons in music may request a waiver of Music 250.

Subject-Matter Major. In addition to completing the elementary cancentration, each student will, prior to graduotion with provisional certification, complete at least 28 quarter hours of credit toward a major, the remainder of the major to be completed during the fifth year of college work.

The student preparing to teach at the elementary level will take one of the following majors:

ART	GENERAL	MATHEMATICS
BIOLOGY	SCIENCE	MUSIC
EARTH SCIENCE	GEOGRAPHY	SOCIOLOGY-
ENGLISH	HISTORY	ANTHROPOLOGY
FOREIGN	LIBRARY	SOCIAL STUDIES
LANGUAGE	SCIENCE	SPEECH THERAPY

Specialists for the Elementary Schaols: There are two majors which prepare teachers for special programs in the elementary schools but not for general classroom teaching. These are the 67-credit major for music specialists, which prepares teachers for vocol and instrumental work at all levels of instruction; and the 45-credit major in speech therapy, which prepares specialists who upon graduation will deal with remedial speech cases in elementary schools. For details of these two majors, see the appropriate sections of the catologue.

PROGRAM FOR JUNIOR HIGH SCHOOL TEACHING

Students wishing to prepare for teaching in the junior high school, in addition to fulfilling the requirements in general education and the professional sequence, will normally camplete a major of no more than 45 credits and a minor of no more than 25 credits. If students wish to prepare for the core or block of time program in the junior high school, they should be certain that they take the appropriate majors and minors.

The student preparing to teach at the junior high level may take any of the following departmental or interdepartmental majors:

ART	GEOGRAPHY	MUSIC
BIOLOGY	HISTORY	SPECIALIST*
EARTH SCIENCE	НОМЕ	PHYSICAL
ENGLISH	ECONOMICS	EDUCATION
FOREIGN	INDUSTRIAL ARTS	PHYSICAL
LANGUAGE	TANCHAGE ADTO	SCIENCE
GENERAL	LANGUAGE ARTS	SOCIAL
SCIENCE	MATHEMATICS	STUDIES

The following departmental minors are permitted for the junior high level:

ART	GEOLOGY	MATHEMATICS
BIOLOGY	GEOGRAPHY	PHILOSOPHY
BUSINESS	GOVERNMENT	PHYSICAL
EDUCATION	HEALTH SCIENCE	EDUCATION
CHEMISTRY	HISTORY	PHYSIC\$
ECONOMICS	HOME	PSYCHOLOGY
ENGLISH	ECONOMICS	SOCIOLOGY-
FOREIGN	industrial arts	ANTHROPOLOGY
LANGUAGE	LIBRARY SCIENCE	SPEECH .

PROGRAM FOR SENIOR HIGH TEACHING

Students intending to specialize as teachers at the senior high school level, in addition to fulfilling the requirements in general education and the professional sequence, are expected to prepare themselves in at least two fields of study, a major of no more than 45 credits and a minor of no more than 25 credits.

The fallowing departmental majors are permissible at the senior high level:

ART	GEOGRAPHY	MUSIC
BIOLOGY	GOVERNMENT	SPEC!ALIST*
BUSINESS	HISTORY	PHYSICAL
EDUCATION	HOME	EDUCATION
CHEMISTRY	ECONOMICS	PHYSICAL
ENGLISH	industrial arts	\$CIENCE
FOREIGN	MATHEMATICS	PHYSICS
LANGUAGE		SPEECH

^{*67} credits preparing music specialists for all levels of instruction.

Minors may be obtained in the following fields:

ART	GEOLOGY	MATHEMATIC\$
BIOLOGY	GEOGRAPHY	PHILOSOPHY
BUSINESS	GOVERNMENT	PHYSICAL
EDUCATION	HEALTH SCIENCE	EDUCATION
CHEMISTRY	HISTORY	PHYSICS
ECONOMICS	HOME	PSYCHOLOGY
ENGLISH	ECONOMICS	SOCIOLOGY-
FOREIGN	INDUSTRIAL ARTS	ANTHROPOLOGY
LANGUAGE	LIBRARY SCIENCE	SPEECH

Sequence of Courses

In order that courses required in teacher education be taken in proper sequence, a student's program is planned in advance. To effect a distribution of students among courses, entering freshmen are classified into three groups. Specifically outlined schedules for these groups are printed in the Schedule of Classes which is published prior to the beginning of the academic year. Students are expected to follow the sequence for their group unless they are enrolled in specialized programs which require an adjusted pattern.

The Fifth Year of Study for the Standard Teaching Certificate

The Provisional Teaching Certificate is issued for a period of three years and is renewable for three more years upon the completion of at least 12 credits of the fifth callege year. During the first year of teaching, the teacher consults with school district and college advisers in order to develop plans for a fifth year of college study. His program is individualized in light of his unique experience, preparation, and plans for the future.

General Credit Regulations

- 1. Total credits required: 45 credits.
- 2. Extensian and/ar correspondence credit is limited to 12 credits.
- At least one-holf of the credits must be in upper division or graduote courses.
- 4. Although the fifth year of study normally comes after teaching experience, fifteen credits may be taken prior to the beginning of the teaching career. Under special conditions the College may permit individual students to take as many as thirty credits prior to the initial year of teaching. Not more than fifteen of these thirty credits may be taken prior to the approval of a fifth-year plan. In any case, at least half of the credits must be taken in residence at the recommending institution or an approved out-of-state institution. The candidate is ollowed six years in which to meet the requirements for the Standard Teaching Certificate.

The Fifth Year-

The fifth year for the Standard Teaching Certificate requires the completion of an approved program of study of at least 45 credits. At Western Washington State College this may be completed in either of two potterns:

- The Moster of Education program. (See graduate builtetin for details. Teachers interested in this alternative should consult the Director of Graduate Study.)
- 2. A fifth year program, not leading to a Master's degree, will be developed under advisement. Specific courses in the student's program will be selected within a framework of three categories: depth, breadth, and professional competence. A minimum amount of course wark, in terms of credits, is suggested for each category, according to the following specifications:

DEPTH

A minimum of nine credits in courses intended to extend the major, expand the minor, or complete the elementary major.

BREADTH

A minimum of nine credits in courses intended to extend the student's subject matter competence in areas or fields other than his undergradaute major or minor.

PROFESSIONAL COMPETENCE

A minimum of nine credits in courses intended to increase the student's knowledge in the areas of the foundations of education (educational sociology, history, psychology, or philosophy), the curriculum, and methods and materials of teaching.

The remaining eighteen credits may be used to expand any of the above categories in occordance with the student's opproved plan far his fifth year of work.

Regulation Governing Choice of Institutions

The teacher may choose the institution of higher learning in which to fulfill the fifth college year requirement for the Standard Teaching Certificate.

If the teacher selects a teacher-education institution within the State of Woshington for his fifth college year, that institution will develop with him an appropriate program and will be responsible for recommending him for the Standard Teaching Certificate.

A teacher who selects an out-of-state college or university far his fifth college year will rely upon his pre-service or undergraduate college for odvisement and recommendation for the certificate. In such cases approval for the fifth year plan must be obtained from the pre-service institution in advance,

DIVISION OF GRADUATE STUDY

The College has as its primory purpose the preparation of prafessianal personnel far the schools of the State. In 1947 the legislature authorized the College to offer programs of study leading to the degree of Master of Education. The administration and faculty of the College have interpreted their responsibility as that of developing with candidates advanced subject backgrounds and professional skills in order that they may assume positions of leadership in teaching, administration, supervision, and special services.

Accreditation

The graduate program provided at Western Woshington State College is accredited by the National Council for Accreditation of Teacher Education for the preparation of teachers, school principals, and specialized school personnel.

The Program

Students working toward a master's degree at this college are admitted to the program in two stages:

- 1. Admissian ta graduate degree status.
- 2. Admission to candidacy for the degree.

Graduate Degree Status

Students holding an earned baccalaureate degree from an institutian accredited by the National Council for Accreditation of Teacher Education, or by the appropriate regional accrediting agency, may be admitted to graduate courses provided their baccalaureate degree embodies a pattern of professional preparation comporable to the requirements for teacher certification in the State of Washington. Admission to graduate courses does not imply graduate degree status.

Admission

Students desiring admission to graduate degree status must:

- file with the Director of Graduate Studies an opplication for graduate degree status;
- furnish two official copies of transcripts covering their boccalaureate degree and any courses taken subsequently;
- provide scores for the Graduate Record Examination, and the Miller Anologies Tests. These are regularly administered at the College prior to summer sessions.

Eligibility

- Unconditional admission to graduate degree status requires o grade point average of 3.0 (B) for the last year of undergraduate study.
- 2. Those students with a grade paint average from 2.5 to 2.99 for the final undergraduote year who have completed 12 hours of an approved graduate program with a "B" average are considered by the Graduate Council to have satisfied the scholostic requirement. Credit toward the moster's degree may be allowed for those approved courses in which a grade of "A" or "B" is achieved.
- 3. Those students with a grade point average below 2.5 for the final undergraduate year who hove completed 15 hours of approved upper division courses with a "B" average, are considered by the Graduate Council to have sotisfied the scholastic requirement. However, these credits do not opply to the moster's degree.

- 4. If the student's undergraduate caurse has been deficient in breadth and does not provide a proper foundation for advanced work in his chosen area of concentration, he is required to take specified undergraduate courses, without graduate credit, before he may be admitted to regular graduate degree status. All such deficiencies must be cleared before the student is admitted unconditionally to candidacy for the moster's degree.
- 5. Work beyond the boccaloureate level taken prior to application for the master's degree will be reviewed in terms of applicability to a master's degree program. In no case will more than 9 hours of such wark be accepted as applicable to the master's degree.
- 6. Students of Western Woshington State College who require less than sixteen hours for a bachelor's degree may be permitted to eorn graduote credit for hours in excess of the 192 required undergroduate credits. For such students the total load during the quarter in question may not exceed sixteen hours.

Advisement

Upon admission to graduate degree status'a student is ossigned an interim adviser who approves his program until such time as the student is admitted to candidacy for the master's degree.

Candidacy

Admission

- Students desiring admission to condidacy for the master's degree must file an application with the Director of Groduate Studies. This application should be presented within the lost three weeks of the quarter in which Education 501, Introduction to Graduate Study, is completed.
- 2. Applications for admission to candidacy are acted upon by the Graduate Council after approval by the department or departments involved in the applicant's area of concentration.

Eligibility

In addition to the requirements for admission to graduate degree status, the following items are considered in admission to candidacy for the moster's degree.

- 1. A minimum of one year's approved teaching experience.
- 2. A minimum of twelve hours of acceptable resident graduate wark with an average of 3.0 (B) is required, including Education 501. When a grade of C is earned in Education 501, consideration far candidacy is postponed until Education 512 has been completed.

- 3. Evidence of general maturity and professional promise.
- 4. The candidate's rating on the Graduate Record Examination and the Miller Analogies Test,

Students approved by the Graduate Council as meeting the above requirements are natified promptly. Where there is doubt, the decision is delayed so that the student may have an opportunity to demonstrate his abilities. In no cose will the decision relative to admission to condidacy be delayed beyond the opening of the third quarter of graduate study.

Preliminary Examination

A preliminary examination in education is administered during the first quarter of graduate residence and prior to admission to condidacy for the master's degree. The results of this examination provide a basis for program advisement.

Advisement

Upan admission to candidacy, an adviser or a committee will be oppointed for each candidate, depending upon the option which he chooses for the completion of the degree requirements. Choice of adviser will be made in accordance with the oreo of concentration which the candidate chooses.

A graduate student who upon admission to candidacy has indicated an area of concentration, will be required to natify the graduate office and his graduate adviser of any changes in plans which affect this area of concentration. In the event he changes from one area of concentration to another, his credits will be evaluated in terms of their applicability to the new area of concentration. The Director of Graduate Studies will in consultation with a representative of the new area of concentration determine the number of credits to be allowed.

Degree Options

An approved candidate may qualify for the Master of Education Degree by either of two plans. It is the student's responsibility to notify the Division of Groduate Studies as to choice of option when application is mode for admission to candidacy.

Option I

CREDIT REQUIREMENT

Forty-five quarter hours of credit.

A minimum of twenty-three of these hours of occeptable course work must be earned in courses open only to graduate students (500 numbered).

FIELD PROJECT OR THESIS

Plans must be reported to and approved by the student's groduate committee before research study is begun. Six quarter hours of credit are earned upon approval of the completed report or thesis.

The field project or thesis demonstrates the student's ability to do independent study and to report his investigation or project in writing. The thesis or project report must be approved as ready for binding ane month before the close of any quarter in which the degree is granted. Two copies become the property of the College. One copy is placed in the College Library and one copy in the Graduate Division Library. The third copy is delivered to the student's committee chairman.

The candidate is required to submit with his field project or thesis a 200-500 word abstract. A form for this abstract may be obtoined from the Office of Graduate Studies.

FINAL EXAMINATION

A comprehensive oral exomination is conducted by the candidate's committee during his last quarter of residence. The examination covers the content of the master's degree program in professional education and in the condidate's area of concentration.

GRADUATE COMMITTEE

A committee of three is appointed to advise the candidate and approve his thesis program of various stages of its development. The chairman of the committee will approve the candidate's program of study.

GENERAL REQUIREMENTS (See below).

Option II

CREDIT REQUIREMENT

Forty-eight Quarter Hours of Credit

A minimum of twenty-four hours of acceptable course work must be earned in courses open only to graduate students (500 numbered).

FINAL EXAMINATION

The examination covers the content of the master's degree program in professional education and in the candidate's area of cancentration.

ADVISER

An adviser is appointed to approve the candidate's program of study.

GENERAL REQUIREMENTS

(See below).

General Requirements Relative to Both Options

COURSE AND GRADE REQUIREMENTS

All courses submitted by a student in fulfillment of the master's degree requirement must be approved by his adviser and must represent a coherent program of study as related to his area of concentration.

NUMBER OF CREDITS PRIOR TO EDUCATION 501—Nat more than 15 hours of graduate credit earned prior to enrolling in Education 501 will be accepted.

COURSES APPLICABLE IN THE DEGREE PROGRAM—Only those courses in the 400 and 500 numbered series and certain specified 300 numbered courses are counted toward the master's degree. Courses in the 500 numbered series are open to graduates anly and must represent at least half of the candidate's program.

GRADES—The grades for all courses submitted for the master's degree must average not less than "B." No grade below "C" is allowed for graduote work. A grade of "S" is counted as a "C" in determining the student's grade average.

REQUIRED COURSES.—Three courses are required of all candidates: Education 501, 512, and 513.

NUMBER OF CREDITS AFTER ADMISSION TO CANDIDACY

A degree condidate must complete a minimum of fifteen quarter hours of acceptable groduate credit following his admission to candidacy for the master's degree.

SEVEN-YEAR TIME LIMITATION

Graduote courses taken seven years or more prior to the time for graduation shall be reviewed by the student's adviser to determine their acceptability. He shall make recommendations to the Graduote Cauncil for final action.

EXTENSION AND CORRESPONDENCE COURSES

- No graduate credit shall be allowed for courses taken by correspondence.
- Not more than nine quarter hour credits of extension work may be allowed for the master's degree. For such courses the standard of

work must be equal to that of the courses offered an the campus and must be taught by regular members of the college staff. Extension courses da not opply in satisfying the residence requirement.

Befare enralling for extension courses the graduate student must secure the approval of his adviser.

The responsibility for the furnishing of transcripts covering extension wark rests with the student.

Six quarter haur credits may be earned through supervised field projects. These should include conferences and a report to be reviewed by the student's adviser or committee.

RESIDENCE REQUIREMENTS

- 1. Residence status requires that the candidate be enrolled on campus at least three quarters and earn a minimum of thirty-six quarter hours. These need not be consecutive quarters. Some modification of the residence requirement is possible for graduates of Western Washington State College and limited adjustments may be made far students professionally employed.
- 2. Students of Western Woshington State College who require less than sixteen hours for a bachelar's degree may be permitted to earn graduate credits for hours in excess of the 192 required undergraduate credit. For such students the total load during the quarter in question may not exceed sixteen hours.

TRANSFER CREDITS

A graduate of Western Washington State College, having achieved graduate degree status, may transfer a maximum of 15 hours of acceptable credit earned at another accredited institution. However, it is desirable that the student take the first quarter of his graduate study at Western Washington State Callege in order that work taken elsewhere may be port of an approved program.

COURSE LOAD

- 1. The course load of the graduate student shall not exceed 15 hours in any one quarter and may further be limited by the Graduate Council and/ar the student's graduate adviser or committee.
- 2. Students holding what would ordinarily be considered a fulltime position may not be permitted to receive graduate credit for more than five quarter hours during any one quarter.

Awarding the Degree

The degree is officially granted at the clase of the quarter in which the student has fulfilled all degree requirements. Recommendo-

tions for the awarding of the degree are made to the Graduate Council by the student's adviser or by the chairman of his thesis committee.

Graduation

Commencement exercises are held annually in June at the close of the regular school year. All candidates for the moster's degree in education are required to participate in the commencement exercises following the granting of the degree regardless of the quarter in which they complete all degree requirements.

Calendar

I NOIT9O

THESIS OR FIELD PROJECT—The thesis or project repart must be ready for binding one month befare the close of any quarter in which the degree is granted.

FINAL ORAL EXAMINATION—A comprehensive oral examination is conducted by the condidate's committee during his last quarter of residence. This examination cavers the cantent of the master's degree program in professional education and in the candidate's area of concentration.

OPTION II

FINAL WRITTEN EXAMINATION—A written examination will be held in April and in July or August of the close of the six-week summer sessian each year. This examination covers the content of the master's degree program in professional education and in the condidate's area of concentration.

Area Programs

The moster of education degree program is planned to meet the need of the public schools for educational experts with academic praficiency and leadership obility. In accordance with this planning, the granting of the Ed.M. degree depends an demanstrated competence in:

- 1. Interpreting current thinking and practice in the field of education;
- understanding and applying the findings of educational research to the problems of education;
- relating educational problems to their basic rationale in human experience and knowledge;
- providing academic background and specialized techniques essential to meet the responsibilities involved in certain school positions;
- applying a creative approach to the study and solution of educational problems.

To develop the above competence, the deportments of the College

working with the Graduate Council have argonized a number of degree programs in professional areas. These pragrams are designed to meet current needs in the field of education and to make provision for the degree condidate's individual needs for professional and academic learning. In these area programs, only 12 quarter hours of general background work are required. The remaining requirements and electives are based on the specialization for which the program prepares and on the background of the individual student.

Programs have been developed in the following areas

TEACHING SPECIALIZATIONS

Art—Elementary
Art—Secandary

Biolagy

Business Education

Chemistry

Core Program

Elementary School

English

General Science

History

Industrial Arts

Mathematics

Music-Chorol Director

Music—Instrumental Director

Physical Education

Physico! Science

Physics

Social Sciences

ADMINISTRATION

School Administration— Elementary, Secondary,

General.

SCHOOL SERVICE PERSONNEL

Audio-Visual Education-

Director

Curriculum Consultant—

Elementary

Curriculum Consultant—

Secondary

Elementary School Supervisor

Music Consultant—

Elementary School

Reading Consultant

Teacher of Exceptional Children

PSYCHOLOGICAL SERVICES

School Counselor

School Psychologist

Graduate Assistantships

For information regarding graduate assistantships, see page 63.

FOR FURTHER INFORMATION

For further information, interested persons may write the Director of Graduate Studies, requesting a capy of the Graduote Bulletin.

Arts and Sciences

The four-year programs in non-professional areas are planned to insure students a background in the broad fields of learning and an opportunity to master the skills of communication. In addition, they provide ample opportunity for specialization as well as elective leeway.

Requirements for the Degree of Bachelor of Arts

General

- A. RESIDENCE. A minimum period of one year of residence is prescribed. Not less than 45 credits must be earned in residence on the campus. A portion of these credits must be earned in the majar, as indicated under "Requirements far Subject-Matter Concentration," below. A maximum of 48 credits of correspondence and/or extension study may be applied.
- **B. FINAL RESIDENCE.** The last quarter's work (at least twelve quorter hours) before receiving the degree, must be earned in residence.
- C. SCHOLARSHIP. A minimum grade-paint average of 2.0 (C) is required. No course graded below "C" may be counted in a major or minor concentration.
- D. CREDITS. A total of 192 credits.
- E. UPPER DIVISION CREDITS. At least 60 quarter hours must be in courses numbered 300 or higher.

The requirements for the Bachelor of Arts degree include (1) prescribed credits in general education; (2) subject-matter concentration up to 110 credits; (3) free electives.

General Education Courses

	Cre	dits
*English 100	English Composition	3
English 101	English Composition	3
Speech 100	Fundomentals of Speech	3
Biology 104	Principles of General Biology	4
**Mathematics 151	Foundations of Mathematics	3
or: Mathematics 101	Principles of Algebra 5	
Physical Education	Selected Activity Courses	3
General Education 101	Matter and Energy	4
or: Physics 131	Introductory Physics5	
or: Chemistry 121	General Chemistry	
or: Chemistry 125	General Chemistry	4
General Education 102	Earth Science	
General Education 105	Behavioral Science	4
General Education 121	Humanities I	6
General Education 122	Humanities II	6
General Educotian 123	Humanities III	6
General Education 221	Humanities IV	6
General Education 321	A Survey of Afro-Asia	2
General Education 421	Great Issues	2

^{*}Students failing to meet minimum standards in English on the Washington Pre-College Test may not register in English 100 until their second quarter of college attendance. These students are urged to undertake remedial study during their first quarter. Special instruction is available on the campus under qualified teachers but outside the college curriculum. The cost of this instruction (\$15.00) is borne by the student.

All regular students must earn a passing grade in English 100 by the end of their freshman year. Enrollment for a fourth quarter is open only to students who have satisfied this requirement.

^{**}Students judged deficient in mathematics on college entrance tests are required to remove the deficiency prior to a fourth quarter of enrollment.

Requirements for Subject-Matter Concentration

A degree candidate must present one major and one minor field of concentration. The application of courses taken in other colleges will be determined by the department chairman concerned. For the most part, it is expected that the work toward the concentration will be done in this institution. Transfer students are normally required to take courses from at least two instructors in the major department.

MAJOR

Requirements for the major are specified by each department. In most cases "supporting courses" are prescribed as a required supplement to the major. The total requirements for a major and supporting causes in no case exceed 85 credits,

MINOR

Fram 18 to 25 credits as prescribed by departments are required for a minor.

Students may take additional elective courses in major and minor fields of study.

SPECIFICATIONS FOR MAJORS AND MINORS will be found under appropriate departmental headings in the "Academic Departments" section of this cotologue.

MAJORS: Art, Biological Science, Chemistry, Economics—Business, Economics—General, English, Foreign Languages, Geography, Geology, Government, History, Home Economics, Industrial Arts, Mothematics, Music, Psychology, Physics, Recreation, Sociology-Anthropology, Speech.

MINORS: Art, Biological Science, Business Education, Chemistry, Economics—General, English, Foreign Languages, Geography, Geology, Government, History, Home Economics, Industrial Arts, Mathematics, Music, Philasophy, Physical Education—The Dance, Physics, Psychology, Recreation, Saciology-Anthropology, Speech.

FREE ELECTIVES

The minimum of 23 uncammitted credits may be used by the student for exploration, greater breadth, or additional specialization.

Transfer Programs

Carefully planned programs of study have been developed in the Arts and Sciences to meet the needs of students who are not concerned with teacher education or a full four-year program at this institution.

Two years of general studies with a wide range of electives are available. Chiefly, however, the wark is designed for those who plan more advanced specialized study in other colleges and universities. Many such students prefer to begin their college careers in such an institution os Western Washington State College, completing one or two years for odvonced standing before transferring to a professional school.

A number of specific programs have been developed in close collaboration with Washington State University and the University of Washington.

It is to be clearly understood that in no sense does the College maintain professional schools outside of teacher education. However, students contemplating transfer to one or other of these institutions in the fields listed can, by taking the appropriate courses, transfer without undue loss of credit.

One or two-year programs lead to advanced standing in the following fields:

Agriculture Architecture

Business Administration

Engineering
Fisheries
Forestry

Home Economics

Pharmacy
Pre-Journalism

Pre-Law
Pre-Medical
Technology

Pre-Medicine and Pre-Dentistry

Pre-Nursing

Pre-Occupational Therapy
Pre-Physical Therapy
Pre-Veterinary Medicine

Special Departments and Services

The Library

This year marks the completion of the remodeling work in the library and the construction of two new wings each with five floors. With this expansion, housing is pravided for mare than double the present callection of 95,000 books, periodicals and pamphlets, and space is made available for increased numbers of readers and services.

The removal of the circulation desk to the first floor, the addition of typing rooms, reading areas, carrells, and studies easily accessible to the open stacks, a separate microfilm room and the rearrangement of affice and work space all cambine to make the library a more convenient place to study.

With a staff of trained library specialists the library not only makes its own resources available but as a member of the Pacific Northwest Bibliographic Center brings in much other supplementary material through inter-library loans.

One floar of one of the new wings is given over to classrooms and offices for the Library Science students and faculty. Tied in with this work and with the Campus School is the collection of 12,000 books for children now located in new quarters in the Compus School itself. Two other related services functioning through and in the Education Department are the Professional Workroom with curriculum materials for teacher education students and the Audio-Visual Center with films, projectors and other special equipment.

The library is open from 7:45 a.m. to 10:00 p.m. Monday through Thursday; 7:45 a.m. to 5:00 p.m. Friday; 1:00 p.m. to 5:00 p.m. Saturday and Sunday.

The Audio-Visual Center

The Audio-Visual Center serves the entire instructional program of the College by:

Maintoining and operating a library of instructional materials and equipment, and reference files on such materials and equipment

as may be available elsewhere and providing faculty with reference services.

Arranging for the rental or purchase of instructional materials ond providing projection service at the request of faculty.

Providing consultant, guidance, and evaluative services to college persannel, prospective teachers, the public schools, and the cammunity in the purchase, use and maintenance of instructional materials.

Maintoining facilities to serve the faculty and prospective teachers in the production of instructional materials.

Extension Services

The College makes its resources available for those adults who wish to continue their formal or informal education. Many community organizations and agencies are cancerned with programs in adult education. The singular role of the College is to stimulate and assist adults in a wide range of educational activities which require the resources that only a college can provide.

The College invites interested adults to inquire about study apportunities currently available. Information may be obtained from the Office for Extension Services. Individuals may register for correspondence and extension classes or evening study apportunities by mail, at the Extension Office, or at the first meeting of a class.

Correspondence Courses: This Office coordinates the program of course offerings available by correspondence. The courses parallel certain of the offerings given in residence. They are in all cases conducted by regular members of the teaching staff. A special bulletin concerning all phases of correspondence study may be had upon request.

Extension and Night Courses: A considerable number of the courses listed in the College Catalogue are available at night on compus or in the home communities of teochers and other students. These courses are taught by regular members of the staff, occasionally with the aid of resident assistants. The standards and requirements are the same as for the regularly conducted college offerings. Extension and night courses may be made available to any student group sufficiently large to warront instruction.

Evening Study: In line with its resources, the College makes available general study offerings for adults. These are open to all who are interested in a liberal education and include studies in Arts and Crofts, English, History, Languages, Literature, Music, Philasophy, Psycholagy, Pre-School and Parent Education, Public Affairs, Science and others. No previous educational training is required, and no formal credits are awarded. Evening study is open to all interested adults regardless of educational background, age or sex. Evening study opportunities are available to any groups of adults sufficiently large to guarantee continuation.

Counseling Center

Professional counselors affer the following services to students:

- Assistance with academic problems.
- 2. Aid in vocational planning.
- Aid in dealing with emotional problems which are debilitating to personal growth and academic accomplishment.

The College Examiner

The Office of the College Examiner is charged with the conduct of testing programs. These include testing entering students, testing for placement of non-teaching staff, and testing an a contractual basis for autside agencies such as the College Entrance Examination Baard. The office also provides consultation on test development, test item analysis, and the scoring of certain types of examinations for various departments and faculty.

The Bureau of Institutional Research

The Bureou of Institutional Research abtains information related to problems of Callege concern. It may initiate studies on its awn or advise and caoperate with departments, committees, or individual faculty members in research activities.

Departments, Concentrations, and Courses



Departmental Concentrations and Courses

Course Numbers

Caurses numbered fram 100 to 299 are classified as lower division. The first digit generally indicates the year far which the course is intended.

100-199 first-year courses 200-299 second-year courses 300-399 third-year courses 400-499 faurth-year courses

500-599 apen only to graduate students

Students are not permitted to take courses mare than one year above their class standing except in unusual circumstances.

In general, the numbers 300, 400, and 500 are used to designote individual study or conference courses or special project work in a given field. Such courses are available only through prior orrangement with the instructor and with the approval of the department chairman.

Course numbers which have been changed from the previous Cotalogue are listed in parentheses.

DEPARTMENT of ART

Faculty

Associate Professors: Collier, Kelsey, Peck.

Assistant Professors: Marsh, Praweller, Wegner.

Instructors: Michener, Tucker,

The Art Deportment performs three functions in the college program. It provides an art major for students who want to specialize in the field and earn an Arts and Science Degree. It provides a field major for students preparing to teach art. It also makes a cultural contribution to the general education of all participating students.

Teacher Education

All students enrolled in teacher education, elementary or secondary, are encouraged to elect Art 101, 102 or equivalent for introductory understanding of art, and also Art 260 Basic Design and Art 320, 321 or 325 Art in the School.

Students planning to teach Art in the elementary or secondary schools should plan their schedules well in advance in order to complete most or all of the required work in ort, including Art 320 or 321 or 325 before their student teaching in this subject.

Concentrations

MAJOR (elementary)

Two courses from Drawing: Art 151, 152, 153.

Ceramics and Sculpture: Art 210 and 212.

Color and Design: Art 260, Display 272.

*Art Education: Art 320 or 325.

Water Color Painting: Art 355 and Art History 380.

Additional courses to total 45 credits including ten credits in art education.

At least 20 of the 45 credits must be in upper division courses.

MAJOR (secondary)

Art 151, 152, 153, 210, 212, 260, 261, 270, *321, 351 or 355, 361 or 362 and 380.

One sequence of 9 credits from:

Design and crafts: 304, 430, 431, 461, 462.

Ceramics and sculpture: 211, 310, 410, 213, 312, 412.

Commercial art: 271, 272, 371, 451, 471, 472.

Drawing, composition and painting: 252, 253, 351, 352, 353, 355, 356, 357, 451, 452, 453, 490, 491.

Interior design: 240, 241, 242.

Art history: 380, 480, 482.

Additional credits to total 45, at least 20 of which must be in upper division courses.

MINOR (elementary)

Three credits from Drawing: Art 151, 152, 153.

Ceramics or Sculpture: Art 210 or 212,

Design: Art 260.

Display: Art 272.

*Art Education: Art 320, or 325.

Additional electives under advisement to total 20 credits.

^{*}Art Education whether 320, 321 or 325 must be taken before the quarter of student teaching in art.

MINOR (secondary)

Three credits from Drawing Art 151, 152 or 153.

Ceramics and Sculpture: Art 210 and 212.

Design & Color: Art 260.

*Art Education: Art 321.

Additional electives under advisement to total 20 credits.

*Art Education, whether Art 320 or 321 or 325, must be taken before the quarter of student teaching in art.

Arts and Sciences

Students majoring in ort should begin art courses early in their callege careers to secure the 70 credits required for a major. They may select specialized fields fram drawing and composition, painting, design and crafts, interior design, ceramics and sculpture.

Concentrations

MAJOR

Art 151, 152, 153, 210, 212, 260, 261, 270, 361 or 362, 380, 480 or 482, and 351 or 355.

A minimum of 9 credits each in two of the following areas:

Painting - Oil: 351, 352, 353, 354 or Water Color 355, 356, 357.

Drawing and composition: 252, 253, 358-359, 452, 453, 490, 491.

Sculpture: 211, 310, 410.

Ceramics: 213, 312, 412.

Interior design: 240, 241, 242.

Design and Crafts: 304, 362, 430, 431, 461, 462.

Additional elective courses to total not less than 70 credits, 30 of which must be in upper division courses.

Supporting courses: 15 credits selected under advisement from philosophy, industrial arts, home economics, or a foreign language. Philosophy 405, Aesthetics, must be included among the supporting courses.

MINOR:

Two courses from 151, 152, 153; 260; 261; and one History of Art course plus electives under advisement to total 24 credits.

Courses

- ORIENTATION 3 credits. Introduction to the place and scope of art in contemporary society.
- 102. INTRODUCTION TO ART 2 credits. Exploration of various types of art expression and their relation to contemporary living.
- 151. BASIC DRAWING 3 credits. Drawing techniques and pictorial space concepts using a variety of media.
- 152. LIFE DRAWING 1 3 credits. Drawing the human figures in a variety of techniques to interpret contour, gesture, and volume.
- 153. DRAWING AND COMPOSITION I 3 credits. Drawing, employing a variety of media and types of composition with emphasis on landscape.
- SCULPTURE I 3 credits. Techniques developed for working with clays and plaster with emphasis on plastic design.
- SCULPTURE 11 3 credits. Prerequisite: Art 210. Extension of the techniques learned in Art 210 to develop a more thorough understanding of sculptural problems.
- 212. CERAMICS 1 3 credits. Basic ceramics with emphasis on the use of materials and techniques. Laboratory practice is provided in the hand-building processes, non-technical glaze composition, kiln stacking, and firing.
- 213. CERAMICS II 3 credits. Prerequisite: Art 212. Extension of Ceramics I to include experiments in glazes.
- 240. INTERIOR DESIGN 3 credits. Prerequisites: Art 101 or 102 and 260. Basic study of plans, elevations, and colors for home furnishing.
- INTERIOR DESIGN 3 credits. Prerequisite: Art 240. Further study in interior design, emphasiting the group living area in home furnishing.
- 242. INTERIOR DESIGN 3 credits. Prerequisite: Art 241. Three dimensional study (340) of color and design as related to all aspects of home decoration and furnishing.
- 252. LIFE DRAWING 11—3 credits. Prerequisite: Art 152. Drawing of the figure in pencil, charcoal and ink. This course is a continuation of Art 152 involving more advanced problems.
- 253. DRAWING AND COMPOSITION II 3 credits. Prerequisite: Art 153. Advanced drawing, in which the student experiments with various types of composition. Media: pencil, conte crayon, charcoal, and pastels.
- 260. BASIC DESIGN 1: 3 credits. Prerequisite: 101, 102 or equivalent. Development of student's judgment and abilities to use design and color in 2-dimensional problems.
- 261. BASIC DESIGN II 3 credits. Prerequisite: Art 260. A continuation of Art 260 to develop the student's abilities in 3-dimensional problems.
- 270. LETTERING 1 2 credits. Practice in pen, brush, and show card lettering, employing various styles in contemporary advertising.
- LETTERING [1] 2 credits. Prerequisite: Art 270. Continuation of Art 270, with emphasis on layout and poster design.
- 272. FUNDAMENTALS OF DISPLAY 2 credits. Design principles, materials, and techniques for planning and executing bulletin boards and three-dimensional display.
- 300. SPECIAL PROBLEMS Variable credit. Prerequisites: 15 credits in Art and consent of the instructor. Problems selected and credit earned vary with the interests and needs of the individual student.

- 304. JEWELRY DESIGN 3 credits. Prerequisite: Art 260 or permission of instructor. Design and construction of jewelry in various metals, with emphasis on silver. The work of the course includes the setting of stones. Also offered as Industrial Arts 304.
- SCULPTURE III 3 credits. Prerequisites: Art 152, 210 and 260. Problems in various techniques for creating forms in space involving laboratory practice in clay modeling, wood, and stone carving.
- 312. CERAMICS III 3 credits. Prerequisites: Art 212, and 260. Continuation of Art 212 with emphasis on the use of form and design, and the study of clay bodies. Laboratory practice in the use of the potter's wheel and decorative techniques is provided.
- 320. ART IN THE SCHOOL 3 credits. Prerequisite: Art 260. A study of child development in art from kindergarten through junior high school. Observation of classroom activities in art and experimentation with materials usually available for use in schools are among the activities.
- ART IN THE SECONDARY SCHOOL 3 credits. Lecture, discussion, laboratory, and observation relating to the philosophy and techniques of art in the secondary school.
- 325. ART EDUCATION 5 credits. Prerequisite: Art 101 or 102 or Humanities sequence, Not recommended to students who have credits for Art 260, Child development in art from kindergarten through high school. Problems in design, drawing, and painting as they relate to school situations are considered.
- ELEMENTARY OIL PAINTING 3 credits. Prerequisites: Art 151, 152, 153, 260.
 Fundamental technique of painting and use of color.
- 352, 353, 354. OIL PAINTING 3 credits each. Prerequisites: Art 351. Practice in the technique of oil painting.
- 355, 356, 357. WATER COLOR PAINTING 3 credits each. Prerequisites: Art 151 or 153 and Art 260. Practice in the techniques of water color in compositions of still life and landscape.
- 358. PRINT MAKING 1 3 credits. Prerequisites: Art 151 and 260. Exploring the planographic and relief techniques of serigraph, lithograph and wood cut.
- 359. PRINT MAKING II 3 credits. Prerequisite: Act 358. Continuation of Art 358 by exploration of etching and engraving techniques.
- 361. DESIGN AND COLOR 3 credits. Prerequisite: Art 260. Design, stressing twodimensial qualities, textures, and color, and using the silk screen medium.
- 362. DESIGN AND COLOR 3 credits. Prerequisite: Art 260. Continuation of experiments and applications in the study of color and design with emphasis on three-dimensional qualities.
- COMMERCIAL DESIGN 1 3 credits. Prerequisites: Art 151, 152, 260, 270. Analysis and design of commercial products. Laboratory practice in the use of the air-brush is provided.
- 380. HISTORY OF ART 3 credits. Survey of the representative masterpieces of the oncient, medieval, and modern periods.
- 381. HISTORY OF SCULPTURE 3 credits. A survey of sculpture from the ancient to the modern world as it appears in Western civilization, Africa, the Orient and the Americas.
- 400. SPECIAL PROBLEMS IN ART 2 to 5 credits. Prerequisites: senior status and consent of the instructor. Individual instruction for students who wish to undertake special projects under supervision.

- 400E. FOREIGN STUDY IN EUROPE 9 credits. A European odyssey in music and arts. The program includes music festivals, university lectures, seminars and visits to the major centers of art, architecture, drama and dance. Readings and papers are a required part of the course. Summer only.
- 4001 STUDY TOUR IN JAPAN 6 credits. Selected itinerary planned to expand the student's knowledge and understanding of the arts of Japan through readings, lectures and visits to museums and cultural centers. Summer only.
- 400M. ART WORKSHOP IN MEXICO 6 credits. Carefully planned itinerary in Mexico.

 Visits to museums and art centers and study of archeology, history, and folklore are planned. Summer only.
- 400P ORIENTAL ART STUDY TOUR 8 credits. Selected ininerary including Japan, Hong Kong, Manila and Hawaii, planned to give the student knowledge and understanding of the arts in the countries visited. Summer only.
- 407. PUPPETRY 3 to 6 credits. Prerequisite: 15 credits in Art, Industrial Arts and Speech or by permission of instructor. Construction of puppets, various types of stages and scenery.
- 408. GRAPHIC DESIGN 6 credits. Prerequisites: Art 260 and 270 or industrial Arts 340. For Industrial Arts students. The study and application of the principles of layout, design and printing in relation to their commercial applications. Also offered as Industrial Arts 408.
- 410. SCULPTURE IV 3 credits. Prerequisite: Art 310. Creation of original works in wood, metal, clay, stone, plaster, plastics, or other media. A survey of sculpture and a study of important artists are required.
- 412. CERAMICS IV 3 credits. Prerequisites: Art 212, 312. Continuation of study in ceramics with emphasis on functional design and historical background. Laboratory practice in the mixing of glazes, stains, slips, clay bodies, and the stacking and firing of kilns is provided.
- 421. ART IN THE SCHOOL 3 credits. Prerequisites: Art 320 or 321. Continuation of Art 320 with emphasis on the handling of color and design in terms of their use on both elementary and secondary levels.
- 422. MATERIALS OF ART EDUCATION 4 credits. Prerequisites: Art 320 or 325 and Industrial Art 350. Media, reference material, and subject matter related to art and its integration with other school subjects.
- 423. EYALUATION OF CHIED ART 2 credits. Art problems suitable for children at various stages of development. Evaluation of children's work and the uses of materials usually available for schools are considered.
- 425. DRAWING AND PAINTING FOR THE SCHOOL 4 credits. Prerequisites: at least one course in art and teaching experience. Various painting media used in relation to school problems, group projects, and individual development. Experiments in mural painting, water color, and tempora are carried on.
- 426. DEVELOPMENTAL ART EXPERIENCES 3 credits. Prerequisite: teaching experience, student teaching, or permission of the instructor. For teachers, with stress on understanding the development of children, especially in the elementary and junior high school. It provides practical experience with materials and a teaching philosophy that considers art in the school program.
- 429. ART WORKSHOP Variable credit. Group endeavor for the elementary or secondary classroom teacher. Using workshop procedure, the class explores (a) art materials, old and new, and (b) methods of adapting art work to the individual differences of children.
- 430. DESIGN AND CRAFTS 3 credits. Prerequisites: Art 260 and 361 or 362. Study and application of color and design to crafts using both modern and traditional techniques and materials.
- 431. DESIGN AND CRAFTS 3 to 5 credits. Prerequisite: Art 430. A continuation of Art 430, with continued emphasis on achievement in good design and fine craftsmanship.
- ILLUSTRATION 3 credits. Prerequisites: Art 151, 152, 260 and 270. Techniques of illustration.

- 452. LIFE PAINTING 3 credits. Composition and painting using a variety of media with the human figure as the subject.
- 453. DRAWING 3 credits. Prerequisite: one drawing course or graduate status and permission of the instructor. Drawing and composition using a variety of subjects. The media employed are pencil, charcoal, conte crayon, pastels, and ink.
- 458A. PERCEPTION AND DRAWING 2 credits. Prerequisite: one drawing course or permission of the instructor. Study of perception in relation to the problems of expression. The media employed are pencil, charcoal, conte crayon and ink.
- 461. ADVANCED DESIGN 3 credits. Prerequisite: Art 361. Color and Design in two or three media, with emphasis on two dimensional work.
- 462. ADVANCED DESIGN 3 to 5 credits. Prerequisites: Art 361 or 362. A continuation of Art 362, with emphasis on the relationship between abstract and functional design in three-dimensional work.
- 471. COMMERCIAL DESIGN II 3 credits. Prerequisites: Art 371 and Industrial Arts 350. A continuation of Art 371 involving laboratory practice in the use of air-brush techniques combined with photography, and the organization and presentation of final products.
- 472. POSTER AND DISPLAY 3 credits. Prerequisites: Art 270 or 271 and 260 or equivalent. Effective display of visual materials. The course includes experimentation in design in posters, bulletin boards, layout, and the production and printing of a poster design.
- 480. HISTORY OF AMERICAN ART 3 credits. Art in America from colonial times to the present day.
- 481. HISTORY OF PAINTING 3 credits. Development of pictorial expression from its beginnings to the rise of French Impressionism.
- 482. HISTORY OF MODERN ART 3 credits. Growth of modern art from the Impressionist movement to the present day.
- 490. COMPOSITION 3 or 5 credits. Prerequisites: Art 151, 152, and 260, or Art 153, and 361, or Art 351, or Art 355. Practice in the development of good structure in line and mass for picture composition.
- 491. COMPOSITION 3 credits. Prerequisite: Art 490. Color qualities in relation to pictorial composition.
- 500. SPECIAL PROBLEMS IN ART EDUCATION 2 to 4 credits. Prerequisite: graduate standing, teaching experience and 27 credits in art including Art 260 and Art 320 or equivalent. Study under supervision of a selected problem related to the teaching of art.
- 520. APPRAISAL OF DRAWING TECHNIQUES 4 credits. Prerequisites; graduate standing, teaching experience and 27 credits in art including Art 260 and Art 320 or equivalent. Approaches to the teaching of drawing through experiments and research.
- 521. COMPARATIVE TECHNIQUES IN DESIGN AND COLOR 4 credits. Prerequisites: graduate standing, teaching experience, and 27 credits in art including Art 260 and 260 or equivalent. Research in a number of techniques and materials for teaching design and color.
- 522. CURRICULUM PLANNING 4 credits. Prerequisites: graduate standing, teaching experience, and 27 credits in art including Art 260 and 320 or equivalent. Ways to plan, develop, and evaluate art in relation to the total curriculum.
- 540. RESEARCH IN ART MATERIALS 2 to 4 credits. Prerequisites: graduate standing and teaching experience, Art 310 and Art 312 or permission of instructor. Research related to three-dimensional expression in art as a development factor.
- 550. RESEARCH AND SEMINAR IN PICTORIAL EXPRESSION 2 to 4 credits. Prerequisites: graduate standing, teaching experience, Art 320, 351, or 355. Concepts, media, and techniques of cultural pictorial expression.

DEPARTMENT of BIOLOGY

Faculty

Professor: Sundquist, (Chairman).

Associate Professors: Borran, Flora, Kirkpatrick, Martin, M. Mitchell, Platt.

Assistant Professors: Heath, Schwemmin.

Instructor: Kraft.

Program Planning

It is strongly recommended that a student planning a program involving a major or minor in bialogy consult an adviser in the Biology Department at the beginning of the freshman year so that sequences of caurses can be established. The following programs are suagested for the first two years:

Teacher Education

	Fall	Winter	\$pring
First	Chem. 121* or	Chem. 125*	Zoology 262
Year	Chem. 125 (see W	Vin-Biology 104	
	ter) or Phys. Sci. 1	01. Zaology 261	
Second Year	Botany 252	Botany 251	Biology 301

^{*}It is strongly recommended that all biology majors include Chemistry 121-122 or Chemistry 125-251, and Geology 211 in their programs.

Arts and Sciences

	Fall	Winter	Spring
First	Chem. 121-122 (See	Chem. 122	Chem. 251
Year	Wtr) or Chem 125-	Chem. 125	Zoology 262
	251 series (see Win- ter and Spring) Biology 104	Zoology 261	
	Math as recommended		
Second	Botany 252	Botany 251	Biology 301
Year	Chem. 351**	Chem. 352	Chem. 353

^{**}If Chemistry 121-122 series is elected.

Transfer Student

A transfer student who has not had any work in the department must take at least 5 credits in residence for a minor or 11 credits for a o major, under departmental advisement.

Teacher Education

For students planning to teach in the elementary or junior high school the General Science major ar minor is recommended (See page 216). Courses may be selected under advisement from the three divisions of biology as well as from the science education courses which are specially adopted for the classroom teacher. Students wishing greater specialization in biology may select a major or minor in biological science (See page 107).

Graduate work leading to the degree of Moster of Education with major emphasis in science education is intended to equip master teachers and science education consultants in public schools.

Concentrations

MAJOR (elementary)

The following required courses:

Biology 247 Health Science 3 credits.

Biology 301 Principles of Ecology 5 credits.

Botany 251, 252 General Botany 10 credits-

10 credits to be selected under advisement from the following:

Zoology 241 Human Anatomy 5 credits.

Zoology 243 Human Physiology 5 credits.

Zoology 248, 249 Human Anatomy and Physiology 5 credits each.

Zoology 261, 262 General Zoology 5 credits.

17 credits to be selected under advisement from the following:

Biology 240 Marine Biology 3 credits.

Biology 401 Fresh Water Biology 5 credits.

Biology 453 Montane Biology 3 or 5 credits.

Biology 474 Preparation of Biological materials for classroom use 3 credits,

Botany 253 Plants of the Northwest 3 credits.

Botany 352 Systematic Botany 5 credits.

Botany 456 Algae 5 credits.

Botany 458 Mosses and Ferns 5 credits.

Zoology 263 Nat. Hist. Animals of Northwest 3 credits.

Zoology 264 Birds of Washington 3 credits.

Zoology 266 Insects of Northwest 3 credits.

Zoology 324 Entomology 5 credits.

Zoology 361, 362 Ornithology 3 credits.

Zoology 363 Mammalogy 5 credits.

Zoology 461 Marine Invertebrae Zoology 5 credits.

MAJOR (secondary)

General education requirements in the sciences: Chemistry 121 or 125 in lieu of General Education 101; Biology 104; General Education 102 and 105.

Sotony 251 or Zoology 261 (preferably both); Botony 252, Zoology 262; Biology 301:

At least 5 credits from Biology 345, 371, 471, 473, 477, 478, Botany 479, Zoology 366, 368.

At least 5 credits from Biology 401, 402, 403, 453, Botony 253, 352, 456, 458, Biology 474, Zoology 263, 264, 266, 324, 361, 362, 363, 461. Biology 493.

General Science 405.

Additional electives from the courses above or from other biological science courses, chosen under advisement, to total not less than 45 credits.

Note: It is strongly recommended that all biological science majors include Chemistry 121-122 (or 125 and 251), and Geology 211 in their programs.

MINOR (a second teaching field for elementary teachers and junior and senior high school teachers):

General Education requirements in the sciences: same as for major.

Biology 301, Botany 252, and/or Zoology 262.

At least 5 credits from Biology 345, 371, 471, 473, 477, 478, Botany 479, Zoology 366, 368.

3 to 5 credits from Biology 401, 402, 403, 453, 474, Botony 253, 352, 456, 458. Zoology 263, 264, 266, 324, 361, 362, 363, 461.

Selected courses under departmental advisement to total with the above minor requirements not less than 25 credits. Biology 383 or 493 is recommended as an elective.

Arts and Sciences

For the person not wishing to teach in the public schools courses are offered leading to a major or minor in bialogical science (see below). While it is required that a student have work in both the botanical and zoological aspects of bialogy, it is possible to select courses to emphasize whichever area the student prefers. The major in biology is recommended to the student wishing to enter various professional schools in dentistry, medicine, and veterinary medicine, as a basis for work in some aspects of forestry and agriculture, for employment by several governmental agencies, and as a basis for graduate work in the various biological sciences.

Since bialogy is becoming increasingly based an chemistry and physics, it is recommended that a biology major carry a minor in one af these two areas and that he not neglect mathematics.

Concentrations

MAJOR: General education requirements in science (Chemistry 121 or 125 in lieu of General Education 101, Biology 104, General Education 102 and 105).

Fifty additional credits selected under departmental advisement to include: (a) Biology 301, Botany 251 and 252, Zoology 261 and 262; (b) 10 credits from Biology 345, 371, 471, 473, 477, 478, Botany 479, Zoology 366, 368; (c) 10 credits from Biology 402, 403, 453. Botany 352, 456, 458, Zoology 324, 361, 362, 363, 461; (d) General Science 405;(e) electives from above or other biological science courses or Geology 316.

Supporting courses: (a) 5 credits in Anthropology or Sociology; (b) Chemistry 122 and 251 or 352, and 354, (c) Geology 211; (d) at least 15 credits in Physics, 15 in a foreign language, and additional mathematics including statistics are strongly recommended.

MINOR: General education requirements in science (same as for major). Additional credits to be selected from either of the following:

- 25 credits in Biological Science selected under departmental advisement to include Botany 252 and Zoology 262.
- 25 credits in Biological Science selected under departmental advisement to include: (a) Zoology 261 and 262; (b) 5 credits from Biology 371, 471, 477, 478, Zoology 366, 368; (c) 5 credits from Biology 402, 403, Zoology 324, 361, 362, 353, 461; (d) 5 credits from Biology 345 or Zoology 243.

General Education

With the exception of General Education 101, all students, including biology majors and minors, are required to include the general education science courses in their programs. It is suggested that Chemistry 121 or 125 be substituted for General Education 101.

Courses In Biology

- 104. PRINCIPLES OF GENERAL BIOLOGY 4 credits. Prerequisite: General Education 101 or departmental permission, Major concepts of biology and their contributions to man's thinking and culture. Properties common to all life are specially emphasized. Answers are sought to such questions as: What is life? How is it perpetuated? How does it change? Attention is devoted to the methods by which the science of biology is advanced. This course includes those basic concepts of cell physiology, growth, development and speciation commonly included in beginning botany and zoology courses. Students majoring or minoring in biology should consider Biology 104 as a prerequisite to botany and zoology courses.
- 204. GENERAL BIOLOGY 4 credits. Prerequisite: Biology 104 or permission of instructor. The plant and animal kingdom as illustrative of the biological principles developed in Biology 104. Consideration of problems dealing with variety, classification, development, adaptation, distribution, evolution and interrelationship of organic forms.
- 240. MARINE BIOLOGY 3 or 5 credits. Prerequisite: Biology 104 or its equivalent Study of plants and animals of the seashore. Collecting, preparation of specimens, identification, habits of animals, and ecology will be included. Several Saturday field trips will be made. Not open to students having credit in Zoology 461 or Botany 456.
- 245. GENERAL MICROBIOLOGY 5 credits. For students of Nursing, Hame Economics, Education and others with minimal background in Chemistry who are interested in a one-quarter general course.
- 247. HEALTH SCIENCE 3 credits. Prerequisite: Biology 104 or equivalent. Health information which affords a base for intelligent guidance in the formation of health habits and attitudes. Stress is laid upon how the body functions.
- 300. SPECIAL PROJECTS IN BIOLOGY 2 to 5 credits. Prerequisite: 15 credits in biological science and consent of the instructor. Special projects under supervision.
- 301. PRINCIPLES OF ECOLOGY 5 credits. Prerequisites: 10 credits in biological science. Factors of the environment as they affect the distribution of life. Basic principles and concepts are derived from experiences in the field through the study of fresh water, salt water, and land communities. Not open to students having credit in Zoology 461 or 463.

- 345. FUNDAMENTALS OF MICROBIOLOGY 5 credits. Prerequisites: Chemistry 121, 122, 351-352 or 251, and 10 credits in Botany or Zoology, or permission of instructor. Comparative marphology, taxonomy, physiology and relationships of microbes: bacteria, yeasts, molds and viruses. This is a course for students majoring in biology and others interested in the biological and chemical aspects of microbial life. Formerly Health Science 345.
- 371. GENETICS 5 credits. Prerequisite: Biology 104: Basic theories, principles, and laws of heredity; a study of recent investigations with special reference to human development and social improvement. Laboratory experiments are conducted with drosophila.
- 383. BIOLOGICAL SCIENCE FOR THE ELEMENTARY SCHOOL 3 credits. Prerequisite: Biology 104. Philosophy and learning experiences are developed through readings, lectures, discussions, demonstrations, and field trips, while the laboratory work develops skill in working with materials suitable for the elementary school. Formerly Science Education 383.
- 399. SEMINAR IN BIOLOGY 1 credit. Prerequisite: 25 credits in biological sciences and permission of the instructor. Outstanding developments, past and present, in the biological sciences.
- SPECIAL PROJECTS IN BIOLOGY 2 to 5 credits. Prerequisite: consent of the instructor. Special projects under supervision.
- 401. FRESH WATER BIOLOGY 5 credits. Prerequisite: 10 credits in biology: Ecology of plant and animal arganisms of inland waters. Content derived from field studies of local lakes, streams and rivers.
- 402. LIMNOLOGY 5 credits. Prerequisites: Chemistry 121 or 125, Botany 252, and Biology 301. Physical and chemical characteristics of fresh water in relation to biotic communities.
- 403. ADVANCED ECOLOGY 3 or 5 credits. Lectures only, 3 credits; fecture and laboratory, 5 credits. Prerequisite: Biology 301, 15 credits in Chemistry. An intensive study of the theories of population and trophic dynamics.
- 447. COMMUNITY HEALTH AND HYGIENE 3 credits. Prerequisites: ten hours of a biological science. Practical application of the principles of personal and group hygiene; analysis of community problems of health and sanitation; study of the application of the pure food and drug acts; examination of national and international health problems; and study of the contributions of the great personalities who have worked in the fields of health, sanitation and medicine. Sophomores may take this course by permission of the instructor. Formerly Health Science 447.
- 453. MONTANE BIOLOGY 3 or 5 credits. Prerequisites: Biology 301, Botany 252 and Zoology 262. Flora and fauna of the Cascade Mountains. Intensive field work at different elevations, laboratory study of collected material, and lectures are intended to give the student an understanding of the variety of plants and animals of the Cascades and of their distribution and interactions with the environment. A number of Saturday field trips are required.
- 471. PHYSIOLOGICAL GENETICS 5 credits. Prerequisite: 10 credits chemistry and one course in genetics. Structure and chemical composition of genetic material-Genetic concepts derived from research on virus, bacteria, yeasts, and molds. Recently discovered aspects of the biochemical genetics of mon which apply to the nature of gene function. Loboratory experiments to illustrate selected techniques from physiology and microbiology which are applicable to genetic problems.
- 473. HISTOLOGICAL TECHNIQUES 5 credits. Prerequisite: 10 credits in biology. Preparation of microscopic slides, both of plant and animal tissues. A student completing this course in good standing should have a basic set of microscope slides of his own preparation.

- 474, PREPARATION OF BIOLOGICAL MATERIALS FOR CLASSROOM USE 3 to 5 credits. A course for elementary and secondary classroom teachers in the techniques of preserving, mounting, displaying, and caring for various biological materials. Students in this course have actual experience in the preparation of classroom materials, each according to individual needs. These may range from the care of plant, animal, insect, and bird specimens brought to the classroom by children to the preparation of permanent mounts of microscopic materials and the use of plastic in the display of specimens.
- 477, 478. GENERAL CELLULAR PHYSIOLOGY 5 credits each. Prerequisites: 20 credits in biological sciences, Chemistry 121-122 and 251 or 351-352, or permission of the instructor. Structural and functional basis of living matter, the cell, This includes a study of energy transformations in living systems, the transport of water and salutes, the characteristics of excitable tissue, the mechanism of muscle contraction, and the effect on and emission of organisms of light.
- 493. BIOLOGICAL SCIENCE FOR THE JUNIOR AND SENIOR HIGH SCHOOL. 3 credits. Prerequisite: 15 credits in biological science. A course concerned with the biological science program in the secondary school, Philosophy and learning experiences are developed through readings, lectures, and discussions, demonstrations, and field trips, while the loboratory work provides opportunities to gain knowledge and skill in working with materials of the biological sciences. Formerly Science Education 493.
- 494. FIELD BIOLOGY 14 credits. Prerequisite: permission of instructor. This course is restricted to participants in the National Science Foundation sponsored summer institute for teachers of high school and junior high school biology and general science. A full eight weeks study of ecology and related aspects of biology. Summer only.
- 500. SPECIAL PROJECTS IN BIOLOGY 2 to 5 credits. Prerequisites: graduate standing and consent of the instructor. This course is available to students who wish to undertake special projects under supervision.
- 599. SEMINAR IN BIOLOGY 2 credits, Prerequisite: 40 credits in biology. Selected problems in biology with emphasis on current literature.

Courses in Botany

- 251. GENERAL BOTANY 5 credits. Plants as living organisms; a study of the structures and functions of typical spermatophyte plants. A study of heredity and the biology of the cell are included in Biology 104 and are not repeated here.
- 252. GENERAL BOTANY 5 credits. Prerequisite: Botany 252 may be taken without Botany 251 as a prerequisite. Comparative study of the major phyla of the plant kingdom, with a view to interpreting present structure in terms of ecological adaptation and past evolutionary heritage. The basic study of evalution is included in Biology 104, which should be taken before Botany 252.
- 253. PLANTS OF THE NORTHWEST 3 credits. Primarily for teachers who desire to become familiar with the common plants of the local region. Instruction includes the identification and field recognition of plants, and an understanding of their reproduction and adaptations to their environment. Field trips furnish the materials for the course. Students majoring in biological science see Botany 352. Formerly Science Education 450.
- 352. SYSTEMATIC BOTANY 5 credits. Prerequisite: Botany 252, Historical survey of classification systems; the use of taxonomic keys in the identification of plants; the evolutionary development of flowering plants; the recognition of common plants and plant communities. Field trips furnish materials for the courses.
- 456. ALGAE 5 credits: Prerequisite: 10 credits in biology. Collection, identification, classification, distribution, and economic importance of marine and fresh water algae. Field trips are a required port of the course.

- 458. MOSSES AND FERNS 5 credits. Prerequisite: 10 credits in biology. Collection, identification, distribution, and evolution of mosses and liverworts, and ferns and their allies. Numerous field trips are a regular part of and furnish the material for the course.
- 479. PLANT PHYSIOLOGY 5 credits. Prerequisite: Biology 478, Cell physiology pertaining to plants and mineral nutrition, water economy, sails, auxins, and other items of special importance to plant growth.

Courses In Zoology

- 241. HUMAN ANATOMY 5 credits. Biology 104 is recommended as a preceding course. For teacher education, physical education and home economics students who will be taking anatomy and not physiology. Charts and models of the human body are used as instructional aids. Cat dissection is an important phase of the course. Not open to students who have had Zoology 141, 248 and 249.
- 243. HUMAN PHYSIOLOGY 5 credits. Biology 104 is recommended as a preceding course. For teacher education, physical education and home economics students who will be taking physiology and not anatomy. Normal functions of the human body and the various bodily processes which aid in adjustment. Significant advances in the sciences of physiology and medicine are considered in the discussions. Laboratory work provides suitable illustrations of principles of physiology and apportunities for consideration of individual interests. Not open to students who have had Zoology 143, 248 and 249.
- 248. HUMAN ANATOMY AND PHYSIOLOGY 5 credits. Prerequisite: Biology 104 or permission of the instructor. First part of a two-quarter sequence: structure and function of the human body, including the physics and chemistry of protoplasm; the cell; the skeletal, muscular, and circulatory systems. Cot dissection in the laboratory. This sequence is designed for all students expecting to take both Anatomy and Physiology. Not open to students who have had Zoology 241 or 243.
- 249. HUMAN ANATOMY AND PHYSIOLOGY 5 credits. Prerequisite: Zoology 248. Second part of a two-quarter sequence; structure and function of the human body, including detailed study of the respiratory, digestive, excretory, endocrine, nervous and reproductive systems. Not open to students who have had Zoology 241 or 243.
- GENERAL ZOOLOGY 5 credits, Prerequisite: Biology 104, or concurrent registration. Survey of the invertebrate phyla, protozoa through the annelids and molluscs.
- 262. GENERAL ZOOLOGY 5 credits. Prerequisite: Biology 104 or Zoology 261. Survey of arthropod phylum and the chardate line.
- 263. NATURAL HISTORY: ANIMALS OF THE NORTHWEST 3 credits. For teachers interested in using the living materials of the local environment. Higher animals of the Pacific Northwest, their identification, life histories habits, and distribution. Field trips supplement the classroom work, (Formerly Science Education 460)
- 264. BIRDS OF WASHINGTON 3 credits. Identification of our common birds, knowledge of their life habits, structural adaptations, problems of food supply, methods of protection, economic importance, and migraiton. The course is conducted both in the field and laboratory. (Formerly Science Education 464)
- 266. INSECTS OF THE NORTHWEST 3 credits. Non-technical instruction for teachers in the elements of insect classification identification, life histories, and habits. Field trips furnish much of the materials for study. Formerly Science Education 465.
- 324. GENERAL ENTOMOLOGY 5 credits. Prerequisite: Zoology 262. An introduction to the study of insects, their metamorphoses, morphology, physiology, classification, identification, economic importance, and control. Field trips to obtain specimens for study and preparation of a representative insect collection.

- 361. ORNITHOLOGY 3 credits. Prerequisite: Biology 104 or equivalent, Structural and morphological adaptations of birds, their evolution, classification, distribution, and economic importance. Field trips are concerned with the identification of permanent and winter residents.
- 362. ORNITHOLOGY 3 credits. Prerequisite: Biology 104 or equivalent. The migrations, foods, and nesting behavior of birds. The need for and types of bird protection are also studied. Field work emphasizes the spring migrants and the accurate recording of observations. It is recommended that Zoology 361 be taken before Zoology 362.
- 363. MAMMALOGY 5 credits. Prerequisite: Zoology 262. Life habits, identification, distribution, and classification of mammals of the Northwest. Laboratory work stresses methods of collection in the field, preparation of study skins, and the use of taxonomic keys.
- 366. COMPARATIVE VERTEBRATE ANATOMY 5 credits. Prerequisite: Zoology 262. Comparative study of the morphology and evolution of the organ systems of the major vertebrate groups.
- 368. GENERAL VERTEBRATE EMBRYOLOGY 5 credits. Prerequisites: Biology 104 and Zoology 262. Principles of the development of the vertebrates; laboratory study of the embryos of the chick and pig with application to human development.
- 461. MARINE INVERTEBRATE ZOOLOGY 5 credits. Prerequisite: Biology 301 and Zoology 261. Laboratory and field study of local marine invertebrates. Biological principles are demonstrated and techniques for the study of manne biology are elaborated throughout this course. Consideration is given to life histories, structures, functions, and development, collection, and identification. Special emphasis is placed on examination of interrelationships of organisms to each other and to their environment.

DEPARTMENT of

CHEMISTRY

Faculty

Professors: Knapman.

Associate Professors: Besserman, Frank (Chairman).

Assistant Professors: Eddy, Neuzil, Nilsson.

Program Planning

It is strongly recommended that a student planning a program involving a major or minor in chemistry consult an adviser in the department at the beginning of the freshman year so that sequences of courses can be established. The following program is recommended:

Fall	Winter	Spring
Chemistry 121	Chemistry 122	Chemistry 131
Mathematics 101	Mathematics 102	Mathematics 122
English 100	English 101	General Education
Speech 100	Gen. Ed. 102	121
Physical Education	or Biol. 104	Physical Education
•	Physical Education	,

Teacher Education

For students planning to teach in the elementary or junior high school the General Science major or minor is recommended (see page 216); while for students planning to teach in the senior high school the chemistry major is recommended. The upper division courses in these areas are also available under advisement for students working toward the Master of Education degree or the fifth year program.

Concentrations in Chemistry

MAJOR: General Science 405 or 406, or Philosophy 411 in lieu of General Education 101 and Math 101 in lieu of Math 151 in the required general education program;

45 additional credits to include Chemistry 121, 122, 131, 233, 351, 352, 353, 354, 461, 462, 463, and Physical Science 492.

. Supporting courses: one year of college physics and Mathematics 102, 122, 222.

MINOR: For science majors: Chemistry 121 in lieu of General Education 101 in the required general education program;

For non-science majors: General Science 405 or 406 or Philosophy 411 in lieu of General Education 101 in the required general education program;

25 additional credits in Chemistry to include Chemistry 121, 122, 131, 251, (or 351 and 354) and either 233 or Physical Science 492.

Arts and Sciences

For students planning to continue their studies in graduate school or to enter business or industry, a major and minar in chemistry are offered. Many of the courses are applicable to various preprofessional programs.

Concentrations in Chemistry

MAJOR: General Science 405 or 406 or Philosophy 411 in lieu of General Education 101 and Math 101 in lieu of Math 151 in the required general education program:

56 additional credits in chemistry to include Chemistry 121, 122, 131, 233, 351, 352, 353, 354, 355, 435, 436, 461, 462, 463, 464, 465.

Supporting courses: One year of college physics and Mathematics 102, 122, 222.

Recommended: Reading knowledge of a foreign language.

MINOR: For science majors: Chemistry 121 in lieu of General Education 101 in the required general education program;

For non-science majors: General Science 405 or 406 in lieu of General Education 101 in the required general education program;

25 additional credits in Chemistry to include Chemistry 121, 122, 131, 233, 251, (or 351 and 354).

Courses in Chemistry

- 100. ELEMENTARY CHEMISTRY 2 credits. An introduction to the structure of matter and to chemical reactions with emphasis on nomenclature, equations and weight relations. Only for students who have had no high school chemistry.
- 121, 122. GENERAL CHEMISTRY 5 credits each. Prerequisite: High School chemistry or satisfactory completion of Chemistry 100. Principles and laws of chemistry developed from the properties, structure, and reactions of matter.
- 125. GENERAL CHEMISTRY 5 credits. Principles and laws of chemistry developed from the properties, structure, and reactions of matter. An obbreviated course in general chemistry for persons studying general science, biological science, nursing, and home economics. (Recommend postponing for students having Mathematics deficiency).
- 131. QUALITATIVE ANALYSIS 5 credits. Prerequisite: Chemistry 122 or equivalent. The theory of electrolytic solutions and its applications to systematic separations.

- QUANTITATIVE ANALYSIS 5 credits. Prerequisite: Chemistry 131. Theory and practice of gravimetric, volumetric, colorimetric, and electrolytic analysis.
- 251. ELEMENTARY ORGANIC CHEMISTRY 5 credits. Prerequisite: Chemistry 121 or 125. Reactions, nomenclature, and uses of carbon compounds. An abbreviated course in organic chemistry primarily for persons studying general science, biological science, nursing, and home economics.
- 300. PROJECT IN CHEMISTRY 1 or 2 credits. Prerequisite: 20 credits of chemistry and permission of the instructor. Projects under supervision.
- 305. GLASS WORKING 1 credit. Prerequisite; permission of the instructor. The basic techniques of glass working and the construction of simple glass apparatus.
- 344. INORGANIC PREPARATIONS 2 or 3 credits. Prerequisite: Chemistry 233, Preparations of selected inorganic compounds of high purity by diverse methods.
- 351, 352, 353. ORGANIC CHEMISTRY 3 credits each. Prerequisite: Chemistry 122 for Chemistry 351; Chemistry 351 for 352; Chemistry 352 for 353; or permission of the instructor. Chemistry of carbon compounds with emphasis on structural theory, reactions, and mechanisms.
- 354. ORGANIC CHEMISTRY LABORATORY 2 credits. Prerequisite: Chemistry 351. Reactions, separations, and syntheses of organic compounds.
- 355. ELEMENTARY QUALITATIVE ORGANIC ANALYSIS 2 credits. Prerequisite: Chemistry 131; 354, and 353 or concurrent. Identification and characterization of organic compounds.
- QUALITATIVE ORGANIC ANALYSIS 5 credits. Prerequisite: Chemistry 131, 352, and 354. Identification and characterization of organic compounds. (Not to be offered after Spring, 1963.)
- 399. SEMINAR IN CHEMISTRY 1 credit. Prerequisiter 25 credits in chemistry and permission of the instructor. The presentation and discussion of papers in chemistry.
- PROJECT IN CHEMISTRY 1 to 3 credits. Prerequisite: permission of the instructor. Special projects under supervision,
- 435. INSTRUMENTAL ANALYSIS 3 credits. Prerequisite: Chemistry 463 or permission of the instructor. Physics 155 is recommended. Theory of optical, electrical, and other physical measurements applied to chemical analysis.
- 436. INSTRUMENTAL ANALYSIS LABORATORY 2 credits. Prerequisite: Chemistry 435. Experimental techniques of instrumental analysis and analytical separation.
- 441. INORGANIC CHEMISTRY 3 credits. Prerequisite: Chemistry 463 or permission of the instructor. Chemical bond, structure and shape of molecules, acids and bases, coordination compounds and ions, and such topics as transition metals, lanthanides, and actinides.
- 461, 462, 463. PHYSICAL CHEMISTRY Chemistry 461 and 462 are 4 credits each; Chemistry 463 is 3 credits. Prerequisite: One year of college physics, Mathematics 222 and Chemistry 233 or concurrent, or permission of the instructor. Atomic and molecular structure, states of matter, solutions, chemical thermodynamics and equilibria, chemical kinetics and electro-chemistry.
- 464, 465. PHYSICAL CHEMISTRY LABORATORY 2 credits each. Prerequisite: Chemistry 461, 462, 463. Chemistry 464 and 465 may be taken concurrently with Chemistry 462 and 463 respectively. Experiments designed to illustrate some concepts and techniques of physical chemistry; also formal report writing.
- 482. NUCLEAR CHEMISTRY 3 credits. Prerequisite: Chemistry 131, Physics 381, and Mathematics 122, or permission of the instructor. Theoretical and applied nuclear and radio-chemistry. (Offered in odd-numbered years.)

- 483. NUCLEONICS LABORATORY 2 credits. Prerequisite: Physics 381 or permission of the instructor. Experimental techniques of nuclear physics and nuclear chemistry.
- 498. RESEARCH PROJECT IN CHEMISTRY 6 credits. Prerequisite: permission of the instructor. Investigation of a problem in chemistry under the spansorship and supervision of a member of the chemistry faculty. An acceptable written report of the project is required together with presentation of the report at a chemistry seminar. The project must extend over a minimum of two quarters with credit granted after the presentation of the seminar.

DEPARTMENT of

ECONOMICS, BUSINESS and GOVERNMENT

Faculty

Professor: Palmer.

Associate Professors: Haglund, Mayer (Chairman), H. Mitchell, Wuest. Assistant Professors: Gambrell, Hebal, McAllister, Payne, Spratlen.

Instructor: Swedmark.

Concentrations in Economics

Arts and Sciences

MAJOR: Economics (Business)

Economics 201, 202, 251, 252, 253, 271, 275, 302, 311, 352, 375, 408. Two courses selected from Economics 322, 333, 335, 411. Additional courses under advisement to total 70 credits.

Supporting courses: Geography 207, History 360, and Mathematics 101 are required. Government 101 and Sociology 201 are strongly recommended.

MAJOR: Economics (General)

Economics 201, 202, 251, 252, 253, 275, 301, 302, 311, 375, 403. Additional upper division courses under advisement to total 50 credits.

Supporting courses: Geography 207, History 341 and 360, and Mathematics 101 are required. Govt. 101, Soc. 201, and Philosophy 201 are strongly recommended.

MINOR: Economics (General)

Economics 201 and 202. Additional courses under advisement to total 25 credits of which at least 10 must be upper division.

Teacher Education

MINOR (Economics)

Economics 101, 201, 251.

Additional courses under advisement to total at least 24 credits of which at least 10 must be at the 300 ar 400 level.

MINOR (Business Education)

Economics 201, 251, 252, 253, 271. Those with acceptable equivalents may, under departmental advisement, complete the minor with courses elected from Economics 311, 335, 350, 353, 354, 355, 371, 411.

Concentrations in Business Education

Teacher Education

MAJOR:

The program of studies for teachers of business education consists of this field major taken in conjunction with a minor made up of courses drawn from the field of economics.

Required courses consist of: Business Education 116, 117 or 215, 120, 121, 122, 201, 223, 241 or 242, 319, 321, 322, 323, Economics 101.

Those who have taken typing and/or shorthand in high school are placed, under departmental advisement, as high in the sequence as their backgrounds permit. Additional courses under departmental advisement to complete the business education major may be drawn from Business Education 400, 471, 472, 481.

MINOR:

Required: Business Education 319, 322 or 323. Under departmental advisement, additional courses in shorthand, typing, and secretarial practice to total 20 credits

Arts and Sciences

MINOR:

Under advisement, courses in typewriting, shorthand, secretarial accounting, and secretarial practice to total $25\ \text{credits}.$

Concentrations in Government

Arts and Sciences

MAJOR:

Government 101, 251, either 252 or 253, and a minimum of eight credits in each of four of the following areas:

Comparative Government: 301, and one of the following: 401, 402, 404, 405, 406.

Public Law: 310, 410.

Public Administration: 320, and one of the following: 420, 421, 422.

Political Dynamics 340, and one of the following: 440, 441.

Political Theory: 460, 461, 462 463, 464.

International Relations: 273, and one of the following: 375, 376, 473, 474.

Additional courses under departmental advisement to total 50 credits.

Supporting courses: History 203 and 204, Economics 201; and one of the following regional geography courses: Geography 310 to 320.

MINOR:

Government 101, 251, and a minimum of five credits each in two of the following areas:

Public Law: 310, 410,

Public Administration: 320, 420, 421, 422.

Political Dynamics: 340, 440, 441.

Political Theory: 460, 461, 462, 463, 464,

International Relations: 273, 375, 376, 473, 474.

Comparative Governments: 301, 401, 402, 404, 405, 406.

Additional courses under departmental advisement to total 25 credits.

Teacher Education

MAJOR:

Government 101, 251, 252 or 253, and a minimum of eight credits in each of three of the following areas:

Comparative Government: 301, and one of the following: 401, 402, 404, 405, 406.

Political Dynamics: 340, and one of the following: 440, 441.

Political Theory: 460, 461, 462, 463, 464.

International Relations: 273, and one of the following: 375, 376, 473, 474.

Supporting courses: Social Studies 426.

Additional courses under departmental advisement to total 45 credits...

Teacher Education

MINOR:

Government 101, 250, and 273 and additional credits to total 10 in Government, under departmental advisement.

Courses in Economics

- 101. INTRODUCTION TO BUSINESS 5 credits. Elementary business organization dealing with various types of ownership, location of business plants, labor problems, marketing problems, log and short-term financing, and managerial controls.
- 200. GENERAL ECONOMICS 3 credits. American economic institutions. This course is designed for those who need basic economics as a foundation for study in other areas. Not open to students who have had Economics 201.
- 201. INTRODUCTION TO ECONOMICS 5 credits. Organization and operation of the American economy. Consideration is given to the basic problems of economics; to the role of business, labor, and government, of money and the banking system; and to problems of inflation and deflation.

- 202. PRINCIPLES OF ECONOMICS 5 credits. Frerequisite: Economics 201. Theory of price and income distribution, with particular application to the structure of American industry. Also considered are problems of the world economy and of alternative economic systems.
- 250. INCOME TAX FOR THE EMPLOYEE AND SMALL PROPRIETOR 3 credits. For wage earners, small businessmen, and students who do not plan to major in economics. Fundamental principles of the federal income tax law. Simple returns are completed. This course may be audited without credit.
- 251. PRINCIPLES OF ACCOUNTING 4 credits. Prerequisite: Passing score on mathematics entrance test. Introduction to the theory of accounting, including book-keeping and financial statements. Not open to first or second-quarter freshmen.
- 252. PRINCIPLES OF ACCOUNTING 3 credits. Prerequisite: Economics 251. Con-(152) tinuation of Economics 251 with emphasis on depreciation, the voucher system, partnership and corporation accounting.
- 253. PRINCIPLES OF ACCOUNTING 3 credits. Prerequisite: Economics 252. Con-(153) tinuation of Economics 252, covering manufacturing accounting, financial analysis, and interpretation of accounting data.
- BUSINESS LAW 1 5 credits. Legal principles of use in everyday business dealings, with emphasis upon contracts, agency and negatiable instruments.
- 275. STATISTICAL METHODS 3 credits. Prerequisites: Economics 101 or 201 and Mathematics 100 or its equivalent. Elementary statistical techniques and their application to economic and business problems. This course gives principal emphasis to the description of frequency distributions and to the analysis of time series. (See Economics 375).
- 291. PERSONAL FINANCE AND INVESTMENTS 3 credits. Basic information useful to the typical family, relative to the various outlets for savings, such as savings accounts, stocks, bonds and insurance, as well as information concerning the major institutions in the investment market. Summer only.
- NATIONAL INCOME ANALYSIS 5 credits. Prerequisites: Economics 201 and 202.
 Determinants of the level of income, employment, and output in the economic system.
- 302. INTERMEDIATE ECONOMIC THEORY 5 credits. Prerequisites: Economics 201 and 202. Systematic treatment of the theory of markets and price under conditions of competition and of monopolistic competition. Also treated are the relation of prices and costs and the functional distribution of income.
- 311. MONEY AND BANKING 5 credits. Prerequisite: Economics 201. Nature and functions of money, credits, and banking and the relationship of money and bank deposits to the economy with special reference to the United States.
- 322. PERSONNEL MANAGEMENT 5 credits. Prerequisite: Economics 101 or 201. Survey of principles and practices involved in obtaining and maintaining an effective working force. Attention is given to such topics as job evaluation, hiring practices, and wage administration.
- 325. ECONOMICS OF LABOR 5 credits. Prerequisite: Economics 201, Economic factors in labor problems. This course deals with the problems of labor organizations in their relation to the total economy and to industry in particular.
- 333. PRINCIPLES OF PRODUCTION 5 credits. Prerequisite: Economics 202 and 253 or permission of instructor. Principles and procedures of the manufacturing enterprise. Consideration is given to organization and administration, to location and layout, and to planning and control.

- 335. PRINCIPLES OF MARKETING 5 credits. Prerequisite: Economics 101 or 201. Institutions, functions, problems, and policies in the distribution of industrial and consumer goods. Pricing, costs, and governmental regulations are studied.
- 341. PRINCIPLES OF TRANSPORTATION 5 credits. Prerequisite: Economics 201. Economic principles and problems relative to the transportation and communication system of the United States.
- 350. INCOME TAX ACCOUNTING 3 credits. Prerequisite: Economics 251 or permission of the instructor. Legal requirements and practical problems orising in connection with the preparation of individual and partnership income tax returns.
- 352. COST ACCOUNTING 5 credits. Prerequisite: Economics 253. Available to students who have taken Economics 353 only with permission of instructor. Historical factory job and process cost systems, distribution cost systems, fixed and flexible budgeting and other controls over business operations available to management from the accounting records.
- 353. MANAGEMENT CONTROLS 3 credits. Prerequisite: Economics 253. Not open to students who have taken Economics 352. Cost systems, fixed and flexible budgeting, and other controls over business operations available to management from the accounting records.
- 354. INTERMEDIATE ACCOUNTING 5 credits. Prerequisite: Economics 253. Analysis and interpretation of financial statements, including advanced theory of inventories, depreciation, and the application of funds.
- 355. ADVANCED ACCOUNTING 5 credits. Prerequisite: Economics 354. Continuation of Economics 354, with the application of accounting theory to portnerships, branch accounting, installment sales, and other accounting problems.
- 361. INTERNATIONAL ECONOMICS 5 credits. Prerequisite: Economics 201 and 202. Theory of international trade. The course includes discussion of the theory of balance-of-payments equilibrium, and of economic policies, including customs unions.
- 371. BUSINESS LAW II 5 credits. Prerequisite: Economics 271. A continuation of Economics 271, with emphasis upon sales, conditional sales, personal property, partnership, and corporation law.
- 375. STATISTICAL METHODS II 3 credits. Prerequisite: Economics 275 or equivalent. Continuation of Economics 275, introducing the concepts of sampling, statistical inference, and statistical decision making as they apply to problems in economics and business.
- 401. PRINCIPLES OF BUSINESS MANAGEMENT 5 credits. Prerequisite: Economics 253 or permission of instructor. An evaluation of the types of management organization responsible for over-all company operations. The role of the board of directors, committees, and the functions of top management in organizing, staffing, directing, planning, and controlling company operations are discussed.
- 403. THE HISTORY OF ECONOMIC THOUGHT 5 credits. Prerequisite: Economics 201 or permission of the instructor. Development of economic thought with major emphasis placed upon the period following Adam Smith.
- 405. COMPARATIVE ECONOMIC SYSTEMS 5 credits. Prerequisite: Economics 201 or permission of instructor. Economic systems of the leading nations of the world. Emphasis is placed upon a comparison of private competitive enterprise in democratic countries with the systems that prevail in other countries.
- 406. ECONOMIC GROWTH IN UNDERDEVELOPED COUNTRIES 5 credits. Prerequisite: Economics 201 or permission of instructor. Conditions necessary for and the progress of economic development in underdeveloped countries. Such topics as resource allocation and development, effects on the international economy, and the significance of foreign-aid programs for economic development are studied.

- 408. THE ROLE OF BUSINESS IN AMERICAN SOCIETY 3 credits. Development of American capitalism and of its legal, philosophical, and ethical foundations. The course covers such topics as the ethics of the profit sysetm, philosophies of management, and the responsibilities of business toward society at large. It is particularly appropriate for teachers of the social studies.
- 409. CONTEMPORARY ISSUES OF ECONOMIC POLICY 3 credits. Prerequisite: A minimum of 20 credits in one field of the social sciences, or permission of the instructor. An examination of some of the crucial policy issues facing the American economy of the 1960's. A partial list of the topics to be dealt with are inflation, economic growth, automation, business concentration. Summer only.
- 410. PUBLIC FINANCE AND TAXATION 5 credits. Prerequisites: Economics 201 and 202 or permission of the instructor. Principles of taxation and problems of tax administration. Special attention is given to the effect of government taxation, expenditure, and debt management policies upon employment, income, prices, and the structure of the economy.
- 411. BUSINESS ORGANIZATION AND FINANCE 5 credits. Prerequisites: Economics 101 or 201 and Economics 253 or permission of the instructor. Major forms of business organization and problems dealing with the sources, uses, and control of funds in business enterprises. Emphasis is upon sources of long and short-term funds, policies relating to working capital, income management, and the financing of growth and expansion.
- 412. BUSINESS CYCLES 5 credits. Prerequisites: Economics 201 and 275, or permission of instructor. Characteristics and major explanations of the prosperity-depression cycle in business, with major emphasis on forecasting.
- 415. PROBLEMS AND PRACTICES IN STATE AND FEDERAL FINANCE 3 credits. Problems of governmental expenditures, budgets, taxation, and borrowing, local, state, and federal problems and practices are considered.
- 421. PROBLEMS IN PERSONNEL ADMINISTRATION 3 credits. A discussion of a limited range of problems in personnel administration. The topics covered include problems of wage and salary administration, employee rating, and employee selection.
- 426. LABOR RELATIONS AND THE LAW 3 credits. Prerequisite: Economics 325 or permission of the instructor. A non-technical course in the elements of labor law. Particular attention is given to the Federal law with respect to labor relations.
- 442. GOVERNMENT AND BUSINESS 5 credits. Prerequisites: Economics 201 and 202, or permission of the instructor. Public policy and business enterprise. Particular attention is devoted to the anti-trust laws and their interpretation.
- 485. EUROPEAN INTEGRATION AND WORLD TRADE 3 credits. Regional development of Western Europe in its economic and political aspects. Also offered as Government 485. Summer only.
- 490. SPECIAL PROBLEMS IN ECONOMICS 1 to 5 credits. Prerequisite: 20 credits in economics and prior consultation with the instructor. Independent investigation of a problem in economics under the supervision of a member of the economics faculty. An appropriate written report is required,

Courses in Business Education

NOTE: Beginning in the fall of 1962, Beginning Typing will not be offered in the regular program. Instead, it will be offered as a part of the extension program, and will carry two credits.

115. BEGINNING TYPEWRITING 2 credits. For those with no previous instruction in typewriting. A beginning course in typewriting, with emphasis on the development of basic skills, arrangement of typewritten materials, and related learnings.

- 116. INTERMEDIATE TYPEWRITING 2 credits. Prerequisite: Business Education 115 or equivalent or one year of high school typewriting. Typewriting problems with continued emphasis on the development of speed and accuracy, and the use of typewriting as a communicative tool.
- 117. ADVANCED TYPEWRITING 2 credits. Prerequisite: Business Education 116 or equivalent or advanced high school study in typewriting. Continuation of Business Education 116 with more advanced work on rough drafts, tabulation, and business communications.
- 120. BEGINNING SHORTHAND 3 credits. Fundamentals of Gregg Shorthand Simplified, including development of skill in reading and writing from printed shorthand. Open to students with no previous training.
- 121. INTERMEDIATE SHORTHAND 3 credits. Prerequisite: Business Education 120 or equivalent. More advanced forms of shorthand, completing the fundamental principles of Gregg Shorthand Simplified. Continued development of skill in reading and writing. Designed for those students who have had previous training in shorthand.
- 122. ADVANCED SHORTHAND 1 3 credits. Prerequisite: Business Education 121 or equivalent. Principles of Gregg Shorthand continued with intensive dictation on new-matter dictation and long-hand transcription of business correspondence and other material. Considerable emphasis is placed on correct English.
- 150. ACCOUNTING FOR SECRETARIES 4 credits. Theory and practice of book-keeping and accounting with emphasis on both cash and accrual systems. The problems of a secretary in a small business office are considered.
- 201. BUSINESS CORRESPONDENCE 3 credits. Prerequisite: English 100 or equivalent. Development of skill in the use of correct English for business purposes. Attention is given to the writing and handling of business correspondence. Also offered as English 201.
- 215. BUSINESS TYPEWRITING 2 credits. Prerequisite: Business Education 117 or equivalent. An advanced course for the development of proficiency in speed and control. It includes arrangement and production of business communications and forms, tabulation, reports, legal forms, and masters, typed under office conditions for production standards. The course is designed for business teaching and secretarial students.
- 222. ADVANCED SHORTHAND II 3 credits. Prerequisite: Business Education 122 or equivalent of two years of high school shorthand. Intensive dictation and transscription practice on business correspondence for those who wish to acquire the ability to take and transcribe shorthand rapidly and accurately in a wide number of business fields. The development of a comprehensive business vocabulary is also stressed.
- 223. SHORTHAND TRANSCRIPTION 3 credits. Prerequisite: Business Education 122 or equivalent or two years of high school shorthand. Development of habits, attitudes, and transcription skills with emphasis on mailable transcripts.
- 224. SECRETARIAL PRACTICE 3 credits. Prerequisite: Business Education 223 or equivalent. Advanced secretarial training dealing with further development of transcription skills, office techniques, and the duties and problems of the secretary in business and professions. Includes an analysis of secretarial manuals and secretarial organizations.
- 241. OFFICE MACHINES 3 credits. Prerequisite: Business Education 115 or equivalent. Introduction to the operation of rotary and key-driven calculators, duplicating machines, adding machines, transcribing and recording machines, and electric typewriters. The principles and practices of filing are also included.
- 242. SPECIALIZED OFFICE MACHINES 3 credits. Prerequisite: Business Education 241 or tquivalent. Advanced training on selected office machines.

- 319. BUSINESS EDUCATION IN THE SECONDARY SCHOOL 3 credits. The secondary school business education program. This course introduces the student to curriculum planning with consideration of philosophy, scope, and objectives.
- 321. TEACHING BOOKKEEPING AND BASIC BUSINESS SUBJECTS 3 credits. The teaching of bookkeeping, general business, and business law through an analysis of objectives, materials, and method of presentation.
- 322. METHODS OF TEACHING TYPEWRITING 3 credits. Introduction to the principles underlying the development of skill in typewriting. This is a study of current trends and techniques involving the use of the newest instructional aids and equipment. It includes lesson planning, grading, remedial instruction, and demonstrations particularly helpful to the beginning teacher.
- 323. METHODS OF TEACHING SHORTHAND AND TRANSCRIPTION 3 credits. Introduction to the principles underlying the development of skill in shorthand and transcription. Special emphasis placed upon lesson planning, grading, demonstrations, and dictation techniques. It is designed primarily to fit the needs of the beginning teacher.
- 400. DIRECTED STUDY IN BUSINESS EDUCATION 1 to 3 credits. Prerequisites: senior standing and consent of instructor. Individual instruction for students who wish to undertake special projects by conference arrangements.
- 434. FAMILY AND PERSONAL FINANCE 3 credits. Prerequisite: Teaching experience in Business Education, Home Economics, or Social Studies, The role of personal and family financial management in the secondary curriculum. Consideration is given to such topics as credit, investments, insurance, consumer buying, legal problems, taxation, with emphasis on an understanding of the economic problems involved. Also offered as Home Economics 434. Summer only.
- 471. CURRENT TRENDS IN THE TEACHING OF TYPEWRITING 3 credits. Problems underlying the development of typewriting skills. In addition to the emphasis given to student motivation, the course deals with the skillful use of supplementary materials and special audio-visual devices. Electric typewriting techniques are also studied. Consideration is given to the problems of both beginning and experienced educators. Summer only.
- 472. IMPROVEMENT OF INSTRUCTION IN THE TEACHING OF BOOKKEEPING 3 credits. Prerequisite: departmental permission. A critical evaluation of content materials, methods, and practices used in teaching bookkeeping with special emphasis given to general education values and to teaching problems of teachers. For teachers who are interestd in improving the teaching of bookkeeping. Summer only.
- 472w. WORKSHOP IN BOOKKEEPING 1 credit. An intensive one-week workshop providing an opportunity for professional personnel to work cooperatively on problems, procedures, and techniques of high school bookkeeping with a specialist in the field. Summer only.
- 481. PROBLEMS AND ISSUES IN BUSINESS EDUCATION 3 credits. Trends in the business programs of secondary schools. Attention is given to research studies as well as to analysis of the problems and issues of concern to business educators. Summer only.
- 501. SPECIAL PROJECTS IN BUSINESS EDUCATION 2 or 3 credits. Supervised planning and development of practical and creative projects in business education. The course encompasses directed reading, conferences, and appropriate related experiences carried out, as far as possible, in actual school situations.
- 502. IMPROVEMENT OF INSTRUCTION IN SECRETARIAL STUDIES 3 credits. Pre-requisite: departmental approval. Modern methods in teaching typing, shorthand, transcription, and office practice with special concern for the psychology of skill building and teaching techniques. Summer only.

Courses in Government

- NOTE: The following courses will not be offered in 1962-63, but will be offered in 1963-64: 375, 376, 404, 405, 406, 421, 440, 462, 464.
- 101. INTRODUCTION TO GOVERNMENT 5 credits. Principles and practices of government as they exist in the contemporary world.
- 250. INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT 5 credits. Comprehensive survey of American national government designed for those who need a course in basic principles as a foundation for study in other areas. Students may not receive credit for both Government 250 and the 251-252 sequence.
- 251, 252. AMERICAN NATIONAL GOVERNMENT 5 credits each. Structure, functions, and problems of the Federal government. First quarter covers fundamental principles, the judicial and popular processes, and political dynamics; second quarter, civil liberties, the legislative and administrative processes, and government in the economic order. Required of majors and minors in Government.
- 253. AMERICAN STATE AND LOCAL GOVERNMENTS 3 credits. Development, na-(233) ture, and problems of American government and politics at various levels other than the national, with emphasis on intergovernmental relations and the role of the citizen.
- 273. INTERNATIONAL RELATIONS 5 credits. Prerequisite: Government 250 or 251. Survey of international relations, including politics, organization, and law.
- 301. COMPARATIVE GOVERNMENT: PRINCIPLES AND PROBLEMS 5 credits. Prerequisite: Government 250 or 251. Similarities and dissimilarities between States with respect to constitutional and legal concepts, institutions and procedures of government, civil and administrative functions, political processes.
- 310. INTRODUCTION TO PUBLIC LAW 5 credits. Prerequisite: Government 250 or 251. Nature of the judicial process; evolution, arrangement, and subject matter of law; sources and theories of law; Roman and common law systems; legal methods; fundamental legal concepts.
- 320. PRINCIPES AND PROBLEMS OF PUBLIC ADMINISTRATION 5 credits. Prerequisite: Government 250 or 251. Theory and practice of administration in the Amercan system of government, with a general introduction to such problems as organization and management, financial administration, personnel administration, and administrative regulation and responsibility in the public service.
- 340. POLITICAL PARTIES AND ELECTIONS 5 credits. Prerequisite: Government 250 or 251. The nature, organization, activities, and methods of American political parties; nominations, political campaigns, and elections.
- 375. FOREIGN POLICIES OF MAJOR POWERS 3 credits. Prerequisite: Government 273 or permission of the instructor, Foreign policies of major world powers other than the United States.
- 376. AMERICAN FOREIGN POLICY 3 credits, Prerequisite: Government 273 or permission of the instructor. Contemporary foreign relations of the United States; objectives of American external policies; foreign and domestic factors affecting foreign policy; governmental institutions concerned with the development and execution of American external policies; current issues and problems in the area of foreign relations.
- 400. SELECTED READINGS AND RESEARCH 2-6 credits. Supervised readings and/or research in a selected area of political science with conferences and related activities undertaken under the guidance and supervision of the instructor.

- 401. GOVERNMENTS AND POLITICS OF WESTERN EUROPE 3 credits. Prerequisite: Government 301 or permission of the instructor. Political systems of Great Britain, France, West Germany and/or other countries selected at the discretion of the Department.
- 402. GOVERNMENTS AND POLITICS OF EASTERN EUROPE 3 credits. Prerequisiter Government 301 or permission of the instructor. An analysis of the political systems of the Union of Soviet Socialistic Republics, and the Communist States of Eastern Europe, with particular attention to the role of the Communist Party, the nature of the constitutional system, and foreign affairs.
- 404. GOVERNMENTS AND POLITICS OF LATIN AMERICA 3 credits. Prerequisite:
 Government 301 or permission of instructor. Description and analysis of the governmental and political systems of selected Latin American countries.
- 405. GOVERNMENTS AND POLITICS OF THE FAR EAST 3 credits. Prerequisite: Government 301 or permission of the instructor. Description and analysis of the governmental and political systems of selected Far Eastern countries.
- 406. GOVERNMENTS AND POLITICS OF SOUTHEAST ASIA AND THE MIDDLE EAST 3 credits. Prerequisite: Government 301 or permission of the instructor. A description and analysis of the governmental and political systems in Southeast Asia and the Middle East; the countries to be considered are selected at the discretion of the Department.
- 410. THE SUPREME COURT AND CIVIL RIGHTS 3 credits. Prerequisite: Government 250 or 251. Comparative study of leading Supreme Court decisions regarding first Amendment freedoms, procedural rights in trials, Fourteenth Amendment liberties, due process of law, and equal protection of the laws.
- 420. NATIONAL ADMINISTRATION 3 credits. Prerequisite: Government 320 or permission of the instructor. A study of the organization and procedure of the administrative agencies of the national government, and their basic relationship to each other and to administrative agencies on other levels of government.
- 421. STATE AND MUNICIPAL ADMINISTRATION 3 credits. Prerequisite: Government 320 or permission of the instructor. A study of the organization and procedure of the administrative agencies of state and local governments, with some emphasis on the State of Washington; legal and administrative relationships between state and local governments; selected problems in administration; proposals for administrative reform.
- 422. PUBLIC PERSONNEL ADMINISTRATION 3 credits. Prerequisite: Government 320 or permission of the instructor. A specialized study of the problems of public personnel administration, such as classification and compensation, recruitment and placement, training programs, supervision, service ratings, and employee morale and discipline.
- 440. POLITICAL LEADERSHIP AND THE LEGISLATIVE PROCESS 3 credits. Prerequisite: Government 340 or permission of instructor. The relationship of executive and legislative party leadership to public policy formulation and law making.
- 441. PUBLIC OPINION AND PROPAGANDA 3 credits. Prerequisite: Government 340 or permission of the instructor. The principal instrumentalities and techniques of communication for the formation and direction of political opinion and activity; case studies of propaganda use; the conduct and analysis of public opinion polls; the relation of public opinion to the governmental process.
- 460, POLITICAL THEORY: ANCIENT AND MEDIEVAL 5 credits. Prerequisites: Either General Education 121, History 105; or consent of the instructor. Origins and evolution of major concepts in Western political thought from the time of Pericles to that of Niccolo Machiavelli.

- 461. POLITICAL THEORY: RENAISSANCE AND MODERN 3 credits. Prerequisites: Either General Education 122 or Government 460; or consent of the instructor. Origins and evolution of major concepts in Western political thought from the time of Machiavelli to that of Edmund Burke.
- 462. POLITICAL THEORY: CONTEMPORARY IDEOLOGIES 3 credits. Prerequisites: Either General Education 123, or History 106 or Government 460; or consent of the instructor. Origins and evolution of major concepts in Western political thought from the time of Edmund Burke to the present, with primary emphasis upon the development of modern conservatism, liberalism, Marxism, and Fascism. or national socialism.
- 463, 464. AMERICAN POLITICAL THEORY 3 credits each. Prerequisites: Either History 203, 204 for equivalents); or Government 250 or 251 and 252. Origins and evolution of major concepts in American political thought from the colonial period to the present. The first quarter covers the period to the Civil War; the second quarter, from the Civil War to the present.
- 473. CONTEMPORARY WORLD POLITICS 3 credits. Prerequisite: Government 273, or permission of the instructor. International politics since 1941, with emphasis upon the impact of continuing crises on the external policies of the United States and on the operation of the United Nations.
- 474. INTERNATIONAL ORGANIZATION 3 credits. Prerequisite: Government 273 or (480) permission of the instructor, Development, organization, and operation of various types of international institutions including the United Nations.

DEPARTMENT OF EDUCATION

Faculty

Professors: Ross, Skeen, Snedeker (Chairman), Thompson.

Associate Professors: D. Brown, Carroll, Casanova, Higbee, Johnson, D. McDonald, McInnes, Nicol, Watrous, Williams.

Assistant Professors: Grove, Honsford, Hodges, H. Jones, Kim, Miller, Mumme, Nogle, Nickelson, Riddles, Sobourin, Stevens, Von Wingerden.

Instructors: Andrus, Crowford, Lamb.

Lecturer: C. Brown.

Program Planning

The course offerings of the Department of Education deal with understandings, information, attitudes, and skills which are pertinent to service in the field of education. Satisfactory completion of course and other requirements leads to a recommendation for teaching competency, a Bachelor of Arts in Education degree, and a Provisional Certificate to teach in the State of Washington. For details of the program of teacher education, requirements, and certification, see the material found in the section, "The Instructional Program." The offering of the required professional sequence is shared by the Departments of Education and Psychology.

Core Courses in Teacher Education

Introductory Course. During the sophomore year the student preparing to teach enralls in Education 301, American Education and the Teacher. Transfer students with junior or senior standing should enrall in Education 301 during their first quarter on campus unless they have had an approved equivolent.

Foundations of Education, Education 315, 316 or 415. The student may enroll in any one of three caurses to satisfy the requirements in foundations of education. Education 315 (3 credits), Foundations of Education, requires an introductory caurse in Sociology or Anthropology as prerequisite. Education 316 (5 credits) Foundations of Education, has no such prerequisite, but instead includes sociological concepts as part of the course content. Education 415 (5 credits), Philosophy and the Curriculum, combines philosophical content and its application to the curriculum.

First Student Teaching, Education 392. This student teaching is taken, normally, in the junior year, at a level other than the one for which teaching competency is desired. Levels are defined as elementary and secondary. Elementary encompasses primary (kindergarten, grades one, two, and three), and intermediate (grades four, five, and six); secondary includes junior high (grades seven, eight, and nine), and senior high (grades ten, eleven and twelve). Usually the student teacher works in a public school district. In some exceptional cases a student may do this student teaching during a regular summer school session.

Secand Student Teaching, Education 492. In his second student teaching the student will be expected to assume, as far as circumstances permit, the responsibilities of a regular classroom teacher. Although the major part of the student's time will be used in the classroom laboratory, there is a prescribed program of seminars and conferences in which educational and psychological theories are considered in their application to the teaching-learning situation. Before taking this course the student should have completed most of the subject-motter preparation needed for the educational areas he has chosen.

Flexibility is preserved in programming individual student teaching sequences. In special circumstances students may be required to take additional student teaching, may elect an additional student teaching, or may have a part of their student teaching waived.

Requests for exceptions must be made to the Coordinator of Student Teaching. Exceptions are granted only on the basis of criteria accepted by the Department of Education.

Pilot Studies in Student Teaching 1962-63. During the 1962-63 school year a number of students toking student teaching will be asked to participate in pilot studies. These studies will attempt to determine the relative effectiveness of varying formats of credit hours and contact hours. Students participating in these will be given appropriate credit toward completing their student teaching requirements.

Facilities for Laboratory Experiences

Opportunity for observation, participation, and teaching are available in the Campus School and in the public schools of the immediate vicinity.

The Campus School, with classes in grades kindergarten through six, is a part of the Department of Education. Opportunity for observation is provided to all departments of the College as well as to students in teacher education, and participation and teaching opportunities are provided for a limited number of students. The Campus School also carries on various kinds of experiments related to the teaching-learning problems of elementary age children.

The public schools of the vicinity also provide for observation, participation, and teaching for students in teacher education. Assignment of student teachers is made upon a caoperative basis.

Eligibility for Student Teaching

Application for Student Teaching. Application for student teaching should be made at least two quarters prior to anticipated first student teaching. Normally, a student opplies at the end of the Education 301 course. A transfer student, contemplating graduation within three or four quarters after admission, should apply during his first quarter in residence.

At the time of application o student should have tentative plans for correlating his two student teaching experiences with other courses during the junior and senior years. Students are expected to plan one experience at the elementary level and one of the secondary level.

First Student Teaching, Education 392.

Junior standing, a minimum of 96 credits.

A cumulative grade point overage of 2.0 or better.

A grade of "C" or better in Education 301, Psychology 261, and Educational Psychology 355.

A sotisfactory score in the English Campetency Test.*

A sotisfactory clearance from the Speech Department.**

Completion of the General Education requirements, with the exception of General Education 321 and General Education 421.

A chest X-ray, in compliance with state law.

An authorization to register from the Department of Education.

Second Student Teaching, Education 492. To be eligible for this course, the student must satisfy the requirements above, and in addition must have attained the following:

Completion of Education 315 or Education 316*** and Educational Psychology 451.

Campletion of a minimum of one-half of the Subject-Matter Concentration or the Elementary Concentration.

Campletian of Educational Psychology 371 is also recommended.

^{*}In addition to the required courses in English composition, teacher education students must pass an English Competency Test in order to be eligible for student teaching. The test may not be taken prior to the student's fifth quarter of college, nor while he is enrolled in a required composition course. Transfer students who are in their fifth quarter of college work and have completed the required camposition courses may take the test. It is given during the seventh week of the quarter.

Recommendation for Teaching Campetence

In accordance with guidelines established by the State Board of Education, recommendations as to the professional academic competence of graduotes are made by the Callege. The Department of Education will formulate the statement of professional competence for all graduates in teacher education. The major and/or minor departments will formulate the statements of academic campetence required for teaching assignments in the junior and senior high school. In general, these statements will be based upon the student's total college achievement.

Students who wish to qualify for more than one teaching competence may do so by meeting the requirements for additional areas of competence. This usually will require more than the twelve quarters of the four-year degree program.

The test is a performance test, and does not employ grammatical terminology. It consists of two parts:

1. The writing of a theme, which is graded in terms of the following criteria:

Content, which means that the topic should be adequately developed, should be free of unsupported generalities and cliches, and should avoid pointless repetition.

Organization, which includes not only the development of the main idea (thesis), but also the arrangement or sequence of ideas which support it.

Reasoning, which means the use of clear, convincing argument rather than vague generalization.

Style, which includes effective sentence structure, the use of transition, and exactness of word choice.

Mechanics, which includes correct spelling, punctuation, and usage.

2. A spelling test, which may be either dictation or proofreading.

Results of the test are mailed to students within ten days.

Application to take the test must be made two weeks in advance of the dates an which the test is given. Study materials to be used in preparing for the test will be made available at the time of application.

**For students who take Speech 100 clearance is obtained by passing the course and in addition receiving an "S" from the instructor which indicates satisfactory use of voice and acceptable articulation and language.

Transfer students obtain clearance by passing a competency test consisting of speaking extemporaneously and reading aloud.

*** Exceptions are commonly made in the case of experienced teachers, ar students who have earned the Bachelor's degree at other institutions. These students may substitute Education 415 far Education 315 ar 316, and may be admitted to Second Teaching, Education 492, without prior completion of the course.

Courses in Education

NOTE: The letters "a, b, c, or d" attached to the course numbers indicates teaching level; primary, intermediate, junior high, or senior high school grades respectively.

- 301. AMERICAN EDUCATION AND THE TEACHER 3 credits. Prerequisite: sophomore status. The development of the American school system and the role of the teacher. The purpose of this course is (1) to examine contemporary American public education considering certain historical, social, and economic factors; (2) To survey teaching as a profession; (3) To aid the student in decision making with reference to teaching as a career and to his particular choices as to grade level and/or subject specialty.
- 315. FOUNDATIONS OF EDUCATION 3 credits. Prerequisites: Education 301, Sociology-Anthropology 201 and junior status. Functions of the school from a sociological viewpoint. The teacher's role in school and in community; and curriculum construction, implementation, and evaluation, are studied with reference to basic sociological concepts.
- 316. FOUNDATIONS OF EDUCATION 5 credits. Prerequisite: Education 301 and junior status. Sociological concepts related to the functions of the public school. Culture, value, change, and social organization will be considered as they apply to such problems as: the teacher's role in school and in community; and value conflicts in curriculum construction, implementation, and evaluation.
- 373. ELEMENTARY STATISTICAL METHODS IN EDUCATION AND PSYCHOLOGY 5 credits. Prerequisite: permission of the instructor. Statistical procedures for educational research. Emphasis is given to the criticism of evidence, the design of simple studies, and the basic techniques of statistical inference. The purpose of the course is to facilitate informed reading as well as application of statistics to original research. Also offered as Psychology 373.
- 392 a, b, c, d. DIRECTED TEACHING 8 credits. Prerequisite: Approval of the Department of Education. First supervised teaching experience, taken during the junior year, to develop an understanding of the problems of teaching and to gain some teaching competence. This integrated experience includes observation of teaching, planning, organizing, collecting materials and evaluating instructional techniques. Self evaluation and related personal problems are considered. Regular on-campus seminars are an integral part of this course.
- 400. SPECIAL PROJECTS IN EDUCATION 2-6 credits. Prerequisite: senior status or teaching experience. Special supervised projects for credit. These projects must suit the purpose of the student and may not be directly related to any courses listed in the catalogue.
- 400H. THE HONORS PROGRAM IN THE HIGH SCHOOL: HUMANITIES 3 credits.

 Prerequisite: permission of instructor. A study of high school honors courses in the humanities. Attention is directed to outstanding programs, appropriate content, and patterns and problems of organization. A three-week laboratory for observing a high school humanities course is included. Summer 1961 only.
- 413. HISTORY OF AMERICAN EDUCATION 5 credits. Historical development of formal education emphasizing the impact of cultural forces on the evolution of the American system of public education.
- 414. COMPARATIVE EDUCATION 3 credits. Educational systems in the major countries in terms of backgrounds, aims, types, and present functions. Significant differences and similarities existing between these systems and the American system of education are emphasized.

- 415. PHILOSOPHY AND THE CURRICULUM 5 credits. Prerequisites: student teaching and senior status. Philosophic assumptions concerning knowledge, truth and value, and of societal conditions influencing curriculum development. Course work involves a study of four areas: (1) development of skill in philosophical analysis; (2) application of philosophical concepts to curriculum design; (3) application of philosophical concepts to instructional content and method; (4) application of sociological concepts to curriculum development and implementation.
- 421. CURRICULUM DEVELOPMENT 3 credits. Prerequisite: student teaching or teaching experience. Theory and structure of curriculum, including procedures for the selection, organization, and evaluation of school experiences at different levels of instruction.
- 422ab, c, d. INSTRUCTIONAL PROBLEMS 3 credits each. Prerequisites: student teaching or teaching experience and Education 421. Study in the application of curriculum theory to instructional practice. Students will work on their respective group and individual curriculum problems. Choice of problems will depend upon the background and interests of the students enrolled in the causes.
 - ab. Elementary level; c. Junior High level; c. Senior High level.
- 424. LANGUAGE ARTS IN THE CURRICULUM 3 credits. Prerequisite: student teachor teaching experience or departmental permission. Functions of the language arts in the curriculum involving a review of research, on analysis of current trends, and a formulation of programs.
- 427. WORKSHOP IN CONSERVATION AND OUTDOOR EDUCATION 5 credits. Field study of problems in conservation of forests, soil, wildlife, and fisheries. Opportunity will be provided for preparation of teaching materials. One-day field trips and overnight camping trips will be made. Summer only.
- 441. SCHOOL LAW 3 credits. Prerequisite: senior status or teaching experience. The courts and school management and personnel. This course examines the legal principles underlying statutes and court decisions related to the schools. Emphasis is upon the status of the teacher and the administration. Summer only.
- 442. SCHOOL AND COMMUNITY RELATIONS 3 credits. Human behavior in school-community situations. This course involves a critical examination of human relations factors and how they impinge upon the school, formal and informal power structures, their attendent problems, and some methods of handling these problems are studied.
- 450. ADULT EDUCATION: PRINCIPLES AND METHODS 3 credits. Social, educational, and administrative implications of continuing education; application of basic concepts in adult education in a variety of institutional settings. Summer only.
- 461. ROLE OF THE CLASSROOM TEACHER IN THE EDUCATION OF THE EXCEPTIONAL CHILD 3 credits. Prerequisite: senior or graduate standing. Identification, instruction, and development of children with mild or moderate handicaps or with exceptional ability. Areas of study include orthopedic problems, speech, hearing, vision, low vitality, and epilepsy. Problems of the gifted and of the dull child also are studied. This course is designed for the regular classroom teacher who is facing the problems of the exceptional child. Laboratory activities include demonstrations, observations, clinics, and field trips.
- 462. METHODS, CURRICULUM AND MATERIALS FOR EXCEPTIONAL CHILDREN 3 credits. Prerequisite: senior or graduate status. Objectives for teaching exceptional children; organization, facilities, and materials needed for their classes; and development of programs appropriate for them.

- 463. METHODS, CURRICULUM AND MATERIALS FOR REMEDIAL READING 3 credits. Prerequisite: Education 485 or teaching experience. Identification of the causes of reading difficulty; selection of children who may profit through work in remedial reading; organization, facilities, and materials needed for learning situations which will meet the learner's needs; techniques especially adapted to remedial reading.
- 480t. EDUCATIONAL TELEVISION 3 credits. Prerequisite: student teaching or teaching experience. Television as an instructional aid. This course deals with the findings of experimental studies as they apply to the techniques of instruction, the unique contributions and limitations of television as an instructional aid, the sources of educational television, and the problems involved in planning and using television as an educational medium. Summer only.
- 482. THE CONSTRUCTION OF AUDIO-VISUAL MATERIALS FOR THE CLASSROOM 2 credits. Education 489 or equivalent, is recommended as a preparatory course. Individual or committee work in making audio-visual materials for specific curriculum application. Skills and techniques involved in planning and making motion pictures, film strips, slides, still photographs, models, charts, and posters, as aids in teaching are taught on the basis of individual student interest, experience and ability.
- 483a, b, c, d. ADVANCED OBSERVATION AND TECHNIQUES 3 credits. Prerequisite: senior status, Education 492, or teaching experience, Observation of teaching techniques. This course provides for a study of children in a classroom and deals with the problems and techniques of instruction.
- 484. THE TEACHING OF SOCIAL STUDIES IN THE ELEMENTARY SCHOOL 3 credits. Prerequisite: teaching experience, Preparation of social studies units with attention to related fine arts and communicative skills. This is a laboratory course involving observation in the Campus School. Also affered as Social Studies 425.
- 485a, b, c, d. TECHNIQUES OF TEACHING READING 3 credits. Prerequisite: student teaching. The study of the specific skills which constitute general reading ability and an analysis of some of the factors which further or interfere with the acquisition of these skills. Each student is expected to study some problem of reading specifically connected with his own field of teaching. An examination is made of current theories and practices. Also affered as English 485.
- 486. CLASSROOM TECHNIQUES IN CONSERVATION EDUCATION 2 credits. Taken in conjunction with Education 496. Conservation materials and the techniques of using them in the classroom studied through actual camp living, field trips, and seminars. Summer only.
- 489. AUDIO-VISUAL INSTRUCTION 3 credits. Types of audio-visual aids, technical processes, educational procedures, and the administration of audio-visual instruction. Students are instructed in the operation of motion picture, opaque, and slide-film projectors, tape recorders and other sound and visual apparatus.
- 491a, b, c, d. ADVANCED TEACHING AND ITS TECHNIQUES 8 or 12 credits. Pre-requisite: student teaching experience. Supervised teaching experience taken during the senior year. The work of the course is built for each student upon the strengths and weaknesses of his first student teaching course and should round out his practice in all phases of public school taeching.
- 492a, b, c, d. DIRECTED TEACHING 16 credits. Prerequisite: Education 392 and senior status. Supervised teaching taken during the senior year. Extensive teaching apportunity is provided so that each student may develop maximum teaching competence. To provide an integrated experience, the following major areas of study are included: principles of teaching, general methods, problems and practices of instruction, observation of teaching, and introduction to the curriculum. Regular on-campus seminors are an integral part of this course.

- 494. DIRECTED TEACHING IN REMEDIAL READING 8 credits. Prerequisite: Education 463 or equivalent and senior standing. Observation and teaching in an elementary grade remedial reading room.
- 495. DIRECTED TEACHING, EXCEPTIONAL CHILDREN 8 credits. Prerequisite: teaching experience and senior standing, Education 462. Laboratory opportunities are provided for work with exceptional children as individuals and in groups.
- 496. DIRECTED TEACHING IN OUTDOOR EDUCATION B credits. Prerequisite: approval of department and teaching experience. Point of view and specific skills essential for effective outdoor education. The course may be accepted as a part of the student teaching requirement or may be taken as an elective. Summer only.
- 497. DIRECTED TEACHING IN OUTDOOR EDUCATION 5 credits. Prerequisite: approval of department and teaching experience. Point of view and specific skills essential for effective outdoor education. The course may be accepted as a part of the student teaching requirement or may be taken as an elective. This course is the same as Education 496, except that it is offered for a shorter period and for less credit. Summer only.
- 500. SPECIAL PROJECTS IN EDUCATION 3-5 credits. Special projects under supervision. These projects must suit the purpose of the student and may not be directly related to any of the courses listed in the catalogue.
- 501. INTRODUCTION TO GRADUATE STUDY 4 credits. Prerequisite: graduate status. Experimental, documentary, case study, survey, and other methods of educational research and investigation. This course is required during the first quarter of the student's program toward the master's degree.
- 511. EDUCATIONAL SOCIOLOGY 3 credits. Major problems in American culture as they relate to education. Problems include: social stratification, individual-group interaction, the family, social attitudes and prejudices, public health and welfare.
- 512. SEMINAR IN EDUCATIONAL CONCEPTS AND ISSUES: HISTORICAL-PHILOSOPH-ICAL 4 credits. Prerequisite: Education 501. Differing concepts of the nature of man and his education. The historical and philosophical development of these concepts is analyzed to determine their basic premises and implicit assumptions. Related educational issues are viewed in their contemporary setting.
- 513. SEMINAR IN EDUCATIONAL CONCEPTS AND ISSUES: PSYCHOLOGICAL-SOCIO-LOGICAL 4 credits. Prerequisites: Education 501 and Education 512. Differing concepts of the nature of the individual and society. The psychological and sociological development of these concepts is analyzed to determine basic premises and implicit assumptions. Related educational issues are viewed in their contemporary setting.
- 515. PHILOSOPHY OF EDUCATION 3 credits. Critical analysis of theoretical positions in educational philosophy. The emphasis is on modern and contemporary discussions of educational theory. Seminar discussions. Also affered as Philosophy 515.
- 516. EDUCATIONAL CLASSICS 3 credits. A study of selected writings which have come to be recognized as having influenced the development of educational thought. Works of Plato, Aristotle, Quintilian, Comenius, Locke, Rousseau, Dewey and others are considered. Seminar discussion.
- 521ab, c, d. SEMINARS IN CURRICULUM 4 credits each. Prerequisites: teaching experience and Education 421 or permission of the instructor. Seminars in the planning and development of curriculum, including advanced study of curriculum design and materials. Independent research is a part of the course. ab. Elementary level; c. Junior High level; d. Senior High level.

- 541. PUBLIC SCHOOL ORGANIZATION AND ADMINISTRATION 3 credits. Practical problems related to administration of school personnel, plant, and program. The structure and organization of the school system is considered.
- 542. WORKING WITH STUDENT TEACHERS 3 credits. The literature, techniques for the orientotion of student teachers, major problems which confront student teachers and evaluation of their achievement are studied. For experienced teachers who have worked or may be working with student teachers in cooperation with a college teacher-education pragram, or for teachers who have responsibility for working with beginning teachers, and for curriculum coordinators.
- 543. SUPERVISION IN THE PUBLIC SCHOOLS 3 credits. Supervision as educational leadership in the development and periodic revision of plans for the continuous evaluation and improvement of school practice. Emphasis is upon problems growing out of supervisor-teacher relationships.
- 544. ORGANIZATION AND ADMINISTRATION OF AUDIO-VISUAL MATERIALS 3 credits. Prerequisites: Education 489 or permission of the instructor. Basic problems and principles in establishing and directing an audio-visual service center. Special attention is given to coordinating, stoffing, financing, housing and evaluating the service as well as assisting in the proper use of audio-visual aids.
- 545. PUBLIC SCHOOL FINANCE 3 credits. Prerequisite: Education 541, Problems involved in school finance, including budgetary and accounting procedures. Concentration is upon problems of particular school systems.
- 546. PUBLIC SCHOOL BUILDINGS AND FACILITIES 3 credits. Prerequisite: Education 541. Planning of school building programs through analysis of population trends in the community; examining the relationship of school plant to the educational program of the school; and exploration of problems in utilization of school facilities.
- 547. SCHOOL DISTRICT PLANNING 3 credits. Prerequisite: graduate status or permission of the instructor. Programs for school district planning and materials and methods in the graphic presentation of data are considered. Class work includes lectures, discussion, and laboratory work.
- 548. FIELD EXPERIENCE IN ADMINISTRATION FOR THE PRINCIPAL 1-5 credits. For applicants for the principal's credential who have been admitted to candidacy for the moster's degree. The course meets the State Board of Education requirement for the principal's credential. See Graduate Bulletin for details.
- 549. SEMINAR IN SCHOOL PERSONNEL ADMINSTRATION 3 credits. Professional relationships among certified employees and other school personnel. Emphasis is given to the development and implementation of policies, and to other personnel practices designed to improve teaching services. Summer only.
- 5615. ADVANCED PROBLEMS IN SPECIAL EDUCATION 3 to 5 credits. Prerequisites; Graduate status and permission of instructor. The student is expected to select an area in special education and to study the problems in that area intensively.
- 561R. ADVANCED PROBLEMS IN REMEDIAL EDUCATION 3 to 5 credits. Prerequisites: Graduate status and permission of instructor. The student is expected to select an area in remedial education and to study the problems in the area intensively.
- 562. CURRICULUM AND PROBLEMS OF INSTRUCTION FOR THE MENTALLY RETARDED 3 credits. Prerequisite: graduate status and teaching experience, or permission of the instructor. Problems of diagnosis, class organization, selection of curriculum content and instructional aids for teaching the slow learner. Ways of meeting individual needs in special and regular classes are presented and evaluated.

- 570. FIELD PROJECT OR THESIS 6 credits. Prerequisite: approval of the student's graduate committee. Field project or a research study under the direction of a faculty committee. The field project, report, or thesis must be written to conform to the standards given in Campbell's "Form Book for Thesis Writing." The field project or thesis may be done off-campus between periods of residence work; however, residence credit is allowed.
- 575. STATISTICAL INFERENCE FOR EDUCATION AND PSYCHOLOGY 3 credits. Pre-requisite: Psychology 373. Advanced statistical methods with emphasis on the statistical inferences that may be drawn from the analysis of research data. Also offered as Psychology 575.
- 585. ADVANCED TECHNIQUES IN THE TEACHING OF READING 3 credits. Pre-requisites: Education 485 and teaching experience. Recent research in the teaching of reading; principles of learning upon which modern reading methods are based, analysis of current reading texts and programs, measurement of reading achievement, evaluation of mechanical devices for the improvement of reading.
- 586. DEVELOPMENT AND SUPERVISION OF READING PROGRAMS 3 credits. Investigation of types of reading programs in the elementary and secondary schools; their philosophy, evaluation, and administration. The course will include study of roles of persons involved in a reading program: teacher, principal, supervisor, librarian, and other resource people. Summer only.
- 596. ADVANCED SUPERVISION AND LEADERSHIP IN OUTDOOR EDUCATION 8 credits. Prerequisites: Education 496, teaching experience, graduate standing, and permission of the department, Preparation for direction or supervision of an outdoor education school program or camp.

DEPARTMENT OF FNGLISH

Faculty

Professors: Cederstrom, Clapp (Chairman), Hicks, Van Aver.

Associate Professors: O'Brien, Odom.

Assistant Professors: Bennett, Cohen, Hovde, Hunt, Lawyer, Lee, Mendel,

Muldrow, Ryan, Skinner.

Instructors: P. Abel, Lowenthal, Mulligan, Singh.

Lecturers: Larsen, Lewis.

Composition

The basic English requirements for all degree candidates are English 100 and 101, English Composition 3 credits each. Students will normally camplete these twa courses in the freshman year. The first course, English 100, must be completed before enralling far a fourth quorter. Students failing to meet minimum standards in English on the Washington Pre-College Test may not register in English 100 until their second quarter of college attendance. These students are urged to undertoke remedial study during their first quarter. Special instruction is available on the campus under qualified teachers, but outside the college curriculum. The cost of this instruction (\$15.00) is borne by the student.

IMPORTANT:

All regular students must earn o passing grade in English 100 by the end of their freshman year. Enrallment for o fourth quarter is open only to students who have satisfied this requirement.

English Competency Test

See Department of Education, page 130.

Journalism

Offerings of the English department include a limited number of courses appropriate to those who aim to develop special campetency in journalism. These are of special interest not only to those who anticipate more advanced professional study and a journalistic career but to prospective teachers and advisers of student publications. These courses are as follows:

200. News Writing

205, 206, 207. Newspaper Staff

235, 236, 237. Yearbook Staff

305, 306, 307. Advanced Newspoper Staff

335, 336, 337. Advanced Yearbook Stoff

- 400. Special Problems in Journalism
- 413. Advising and Preparing the School Newspaper
- 414. Advising and Preparing the School Yearbook

Note for pre-journalism students who plan to transfer to the University of Washington:

- Those planning an editorial sequence should include among their electives Geography in World Affairs, Modern European History, Theory and Practice of Government in the State of Woshington.
- Those planning an advertising and management sequence should take Introduction to Business, Drawing, and Principles of Marketina.
- All journalism students must complete a total of 9 credits in English Literature at some time during their four years.

Teacher Education

Concentrations

MAJOR: (Secondary)

- a. Select two: English 301, 302, 303
- b. Select two: English 380, 381, 382
- c. Select one: English 425, 427, 428
- d. Select one: English 200, Speech 204, Speech 230
- e. Elect courses dealing with major authors to total a credits
- f. Elect an upper division writing course
- g. Additional English electives under advisement: 8 to 10 credits

MAJOR: (Elementary)

One of the following: English 301, 302, or 303.

Two of the following: English 380, 381, 382

One of the following: English 200, Speech 204, or Speech 230

Major author, one course,

One upper division writing course

English 460

Electives to total 28 credits.

In the Fifth Year the student will elect under advisement an additional 17 credits of English.

MINOR:

Choose two of the following alternatives:

- 1. Courses in major authors—6 credits
- 2. Five credits from English 301, 302, 303
- 3. Six credits from English 380, 381, 382
- 4. Courses in recent or contemporary literature-6 credits

A course in the teaching of English-3 credits

Additional English electives under advisement: 5 to 6 credits

Arts and Sciences

Concentrations

MAJOR:

English 301, 302, 303, 380, 381, 382

Courses dealing with major authors — 6 credits

An upper division writing course

Additional upper division courses under advisement to total 55 credits

Supporting Courses: the equivalent of two years of college study in French or German for those English majors who plan to do graduate work.

MINOR:

Choose two of the following alternatives:

- 1. Courses in major authors 6 credits
- 2. Five credits from English 301, 302, 303
- 3. Six credits from English 380, 381, 382
- 4. Courses in recent or contemporary literature 6 credits

Additional upper division courses under advisement to total 25 credits.

Courses

- 100. ENGLISH COMPOSITION 3 credits. Prerequisite: A satisfactory grade in English placement tests or second quarter standing. Practical approach to the writing problems of the average student on the college level.
- 101. ENGLISH COMPOSITION 3 credits. Prerequisite: English 100 or equivalent. Continuation of English 100. Emphasis is given to methods of gathering material culminating in the writing of a term paper.
- 102. ENGLISH COMPOSITION 3 credits. Prerequisites: English 100 and 101 or equivalent. Continuation of English 101 designed to complete the standard nine-hour freshman composition requirement of many colleges and universities.
- 200. NEWS WRITING 3 credits. Writing for newspapers. Subjects included are news elements and values, methods of gathering news, structure and style of news stories, the covering of speeches and meetings, interviewing, and laws affecting the press.
- 201. BUSINESS CORRESPONDENCE 3 credits. Prerequisite: English 100 or equivalent. Development of skill in the use of correct English for business purposes. Attention is given to the writing and handling of business correspondence. Also offered as Business Education 201.
- 205, 206,207. NEWSPAPER STAFF* 1 credit each. Prerequisite: English 200 or permission of the instructor. Practice in writing or editing copy for the college newspaper. Weekly conferences with the adviser are required.
- 235, 236, 237. YEARBOOK STAFF* ? credit each. Practice in annual production. Weekly conferences with the adviser are required.

^{*}Not more than six one-credit staff courses may be applied toward the English major.

- 251, 252, 253. CRITICAL INTRODUCTION TO LITERATURE 2 credits each. Prerrequisite: English 100. Form and function, meaning and value in fiction, drama, poetry. The series is intended primarily for English majors and minors.
- 263, 264, 265. GENERAL LITERATURE 3 credits each. Readings extending from the classical period, with special emphasis on Hamer and the Greek dramatists, through the Middle Ages, the Renaissance, and the Romantic Movement in European literature to the contemporary period. This sequence is intended primarily for transfer students whose previous work in general education has not included interdisciplinary courses in the Humanities.
- 281. SHAKESPEARE: EARLIER COMEDIES 3 credits. Also offered as Speech 281.
- 282. SHAKESPEARE: HISTORICAL PLAYS ENGLISH AND ROMAN 3 credits. Also offered as Speech 282.
- 283. SHAKESPEARE: TRAGEDIES AND LAST COMEDIES 3 credits. Also offered as Speech 283.
- ENGLISH LITERATURE 5 credits. Introduction to English literature through a study of the greater figures and more important works from Anglo-Saxon times to the late eighteenth century.
- 302. ENGLISH LITERATURE 5 credits. Continuation of English 301 dealing with the Romantic Period.
- ENGLISH LITERATURE 5 credits. Continuation of English 302 dealing with the Victorian Period and after.
- 305, 307. ADVANCED NEWSPAPER STAFF* 1 credit each. Prerequisite: English 205, 206 or 207, or permission of the instructor. Advanced practice in writing or editing copy for the college newspaper. Weekly conferences with the adviser are required.
- 311. INTRODUCTION TO MODERN WORLD LITERATURE 3 credits. Introduction to modern World Literature, emphasizing a comparative perspective of writings produced in several countries. Translations are used. All types of literature are read and instruction is given on the special problems posed by each type and by each literary tradition. The principal aim is to encourage on approach to a work of literature on its own terms as an index to the thought of its time and for increased reading pleasure.
- 312. CLASSICAL MYTHOLOGY 3 credits. Prerequisite: permission of the instructor required for sophomores; no prerequisites for upper division students. The nature of mythical thought, its development among the Greeks and Romans, and its influence on Western literature. Selected readings in English in ancient sources are used.
- 321. ELIZABETHAN DRAMA 3 credits. Representative plays and brief sketches of the dramatists, portraying the development, range, and achievement of Elizabethan drama. Consideration is given to the evaluation of the plays as vital theater in their reflection of the period, and their influence upon Shakespeare's art.
- 322. DRAMA FROM 1640 TO 1850 3 credits. European and American drama beginning with that of the Restoration period. A critical study is made of the plays and their relationship to historical and sociological events. Also offered as Speech 322.
- 323. MODERN DRAMA 3 credits. Plays of lbsen and Strindberg, founders of the modern drama. Selected plays of the early twentieth century playwrights are included. Also offered as Speech 323.
- 324. MODERN AMERICAN DRAMA 3 credits. Plays, playwrights, and related movements of artists of the American theater, beginning with O'Neill and concluding with playwrights of the present. Also offered as Speech 324.

^{*}Not more than six one-credit staff courses may be applied toward the English major.

- 330. THE ENGLISH NOVEL 5 credits. Growth of the novel as a form of literature, with some attention to the technique of the type, and the reading of representative novels.
- INTRODUCTION TO RUSSIAN LITERATURE 3 credits. More important works of a few major figures of the modern period.
- 335, 336, 337. ADVANCED YEARBOOK STAFF* 1 credit each. Prerequisite: English 235, 236 or 237, or permission of the instructor. Advanced practice in annual production. Weekly conferences with the adviser are required.
- 340. CONTEMPORARY POETRY 5 credits. Tendencies in modern American and British poetry with extensive reading in the field.
- 345. MODERN IRISH LITERATURE 3 credits. The poetry, drama, and fiction of Irish writers since 1890, with emphasis on Yeats, Synge, O'Casey, and Joyce.
- 350. THE SEVENTEENTH CENTURY 3 credits. Seventeenth century English literature exclusive of the drama.
- 351. EIGHTEENTH CENTURY PROSE 3 credits. Prerequisite: English 301 or equivalent. English prose—exclusive of the novel and drama—of the Age of Reason. This course deals with the work of such men as Swift, Defoe, Addison, Shaftesbury, Berkeley, Bolingbroke, Samuel Johnson, Lord Chesterfield, Horace Walpole, and others.
- 352. EIGHTEENTH CENTURY POETRY 3 credits. Prerequisite: English 30? or equivalent. English poetry of the eighteenth century the age of Pope and the precursors of the Romantic Movement such figures as Pope, Gay, Goldsmith, Collins, Gray, Shenstone, Bishop, Percy, Macpherson, and others.
- 360. ADVANCED COMPOSITION 3 credits. Prerequisite: six hours of college credit in English composition. Practice in the writing of the familiar, informal essay and of the critical book review. The course also deals with the techniques of descriptive and narrative writing.
- 361. ADYANCED COMPOSITION EXPOSITION 3 credits. Prerequisite: six hours of college credit in English Composition. Principles and techniques of expository writing. Considerable writing is required.
- 367. FRENCH LITERATURE IN TRANSLATION: 19th AND 20th CENTURIES. Readings in Hugo, Baizac, Flaubert, Maupassant, Baudelaire, Gide, Sartre and others. May be taken in conjunction with History 367 and French 201 and/ar French 210 to provide a coordinated program in French language and culture. Offered summer session only.
- 370. CREATIVE WRITING 3 credits. Prerequisite: English 100 or its equivalent. Practical approach to the problems of writing through class and conference. The technical aspects of English are taken up only as they occur as problems to the individual student.
- 380. AMERICAN LITERATURE 1800-1860 3 credits. Romantic and nationalistic tendencies of the period as they are expressed in the paetry and prose of the times.
- 381. AMERICAN LITERATURE 1860-1900 3 credits. Growth of realistic and naturalistic tendencies in American fiction and poetry of the period.
- 382. AMERICAN LITERATURE 1900-1930 3 credits. Social and literary ideas expressed in the prose and poetry of the period.
- 385. THE CONTEMPORARY AMERICAN NOVEL 3 credits. English 382 is desirable but not required as a preceding course. The American novel since 1940. This is primarily a reading course.

^{*}Not more than six one-credit staff courses may be applied toward the English major.

- 390. THE BIBLE AS LITERATURE 3 credits. Cultural background of the Old and New Testaments and a literary analysis of selected passages.
- 400. SPECIAL PROBLEMS IN JOURNALISM 1-3 credits. Opportunity for journalism students to work in special areas of interest. Approval of the adviser and weekly conferences are required.
- 402. ROMANTIC POETS 3 credits. Major English poetry in the Romantic Period with provision for collateral reading and reports. Summer only.
- 403. VICTORIAN PROSE 3 credits. Victorian thought as expressed by the major prose writers of the period.
- 406. JOSEPH CONRAD 3 credits. The author's career and achievement as seen in representative short stories and novels.
- 407. MATTHEW ARNOLD 3 credits.
- 408. MILTON 3 credits.
- 409. CHAUCER 3 credits. Major works, with emphasis on literary values.
- 410. LITERARY CRITICISM AND APPRECIATION 5 credits. Prerequisiter fifteen credits in literature or an equivalent satisfactory to the instructor. An analysis of literary theory from ancient to modern times.
- 413. ADVISING THE SCHOOL NEWSPAPER 3 credits. Prerequisite: English 200. Preparation of a typical secondary school newspaper. Included is a review of the principles and techniques of journalism, with an emphasis on responsible reporting and newswriting. The planning and staffing of the paper and the actual pracessing of both the duplicated and printed school journal campose the bulk of the course.
- 414. ADVISING THE SCHOOL YEARBOOK 3 credits. Production of the secondary school "anual," with stress being placed on the practical processes of yearbook composition; the scheduling of the divisions of the book; the selection of efficient staff members; the planning of "dummies" and "logs."
- 419. GREEK LITERATURE IN TRANSLATION 3 credits. Selected major works of Greek literature with reference to their historical and cultural setting, literary merit, and subsequent influence. The course involves lectures, discussions, and readings in English.
- 420. LATIN LITERATURE IN TRANSLATION 3 credits. Selected major works of Latin literature with reference to their cultural and historical setting, literary merit, and subsequent influence. The course involves lectures, discussions, and readings in English.
- 421. INTRODUCTION TO ORIENTAL LITERATURE 5 credits. Literature of India and China; examination of the Indian epics and philosophies of India; Chinese literature, especially the ideals of Confucius; relation of oriental literature to the thought of our times.
- 425. ENGLISH FOR THE ELEMENTARY SCHOOL 3 credits. Teaching the language arts reading, writing, speaking, and listening at the elementary school level. Methods of instruction appropriate to a formal English class and to the more informal unit teaching are explored. Consideration is given to methods of stimulating creative expression as well as to the teaching of such specific skills as spelling and usage. Appraisal of textbooks and curricular material is part of the work.
- 427. GRAMMAR AND COMPOSITION FOR THE SECONDARY SCHOOL 3 credits. Probelms of teaching grammar in connection with writing. Some attention is given to recent research in linguistics. A brief review of grammatical terminology is included.

- 428. LITERATURE FOR THE SECONDARY SCHOOL 3 credits. Teaching literature in the junior and senior high school. The course deals with (a) methods of instruction appropriate to formal English classes and (b) the integrated core program approach to literature.
- 430. THE CONTEMPORARY BRITISH NOVEL 3 credits. The period since 1920 with emphasis on four or five leading novelists.
- 431. NINETEENTH CENTURY RUSSIAN FICTION 3 credits. A course emphasizing the novel but also including some short stories. Only Gogol, Turgenev, Dostoevsky, and Tolstoy are considered.
- 432. EIGHTEENTH CENTURY ENGLISH NOVEL 3 credits. A study of the development of the novel with emphasis on Richardson, Fielding, Smollett, and Sterne. Summer only.
- 433. FOUR MODERN POETS 2 credits. A few important poets of our time.
- 434. CONTEMPORARY POETS 3 credits. Eliot, Frost, Crane, Auden and Stevens. Emphasis is placed upon textual analysis of the poems; a term paper is required.
- 445. ADVISING AND PRODUCING SCHOOL PUBLICATIONS 10 credits. Concentrated 6-weeks workship in techniques of publications writing, photo-journalism, and graphic arts processes (offset lithography, letterpress, and mimea) essential for the advisor of school publications. Also offered as Industrial Arts 445. Summer only.
- 460. THE STRUCTURE OF ENGLISH ...3 credits. A study of traditional grammar and the "new" grammar as descriptions of the structure of English.
- 470. WRITING SEMINAR 3 credits. Practical problems of writing for publication.
- 475. HISTORY OF THE ENGLISH LANGUAGE 3 credits. Development of the English language from the standpoints of morphology, syntactical relationship, and semantics.
- 483. SOCIAL CHANGE AND THE MORAL ORDER IN RECENT LITERATURE 4. credits. Also offered as Philosophy 483 and Sociology 483.
- 485. TECHNIQUES OF TEACHING READING 3 credits. Prerequisite: student teaching experience. The importance of attitudes in maintaining normal progress in the acquisition of reading skills. Study is made of the factors conducive to desirable attitudes. The specific skills which constitute general reading ability are analyzed, as are the procedures suited to their development. Each student is expected to study some problems of reading specifically connected with his own field of teaching. Also offered as Education 485.
- 501. RESEARCH WRITING 2 credits. Thesis preparation.
- 520. PRINCIPLES AND PROBLEMS OF LITERARY CRITICISM 3 credits. Some answers to the enduring problems of literary judgment, with emphasis upon poetry and recent criticism.
- 583. SEMINAR IN SHAKESPEARE 3 credits. A close examination of two plays together with collateral reading and reports.
- 584. SEMINAR IN AMERICAN LITERATURE 2 credits. The background of the New England Romantic Movement in American literature, 1830 to 1860.
- 585. SEMINAR IN AMERICAN LITERATURE 2 credits. Prerequisites: English 380 and 381 or equivalent. Social, economic, and political writers and philosophers of America during the period 1870 to 1910 and their influence on American literature. Consideration is given to such figures as Edward Bellamy, Henry George, Henry Adams, William James, Lincoln Steffens, and others.

DEPARTMENT of

FOREIGN LANGUAGES

Faculty

Associate Professors: Faber, King, (Chairman).

Assistant Professors: Cohen, Helms, Robinson, Tagliabue, Yaung.

Instructors: Elmendorf, Milicic, Richmond, Seigneuret.

Arts and Sciences

Concentrations

MAJOR: 45 credits beyond the first year in one foreign language.

Supporting courses: courses in English, History, Philosophy, Geography or in a second Foreign Language (at least 24 credits), selected under departmental advisement.

MINOR: 24 credits in one language. Students majoring in one foreign language may minor in a second foreign language.

Teacher Education

Concentrations

MAJOR: (elementary) (French, German, Spanish)

For students who begin French, German or Spanish at this college. 101, 102, 103, 201, 202, 203, 210, 211

17 additional credits to be taken under advisement during the fifth year. It is strongly recommended that students also elect Foreign Language Education 432.

For students with two or more years of high school French, German or Spanish.

- for students who have had two years of high school work in the language: 201, 202, 203, 210, 211, 310, 312 (or 410 in French, Foreign Language Education 432)
 - 6 credits to be selected under advisement from the following: 301, 302, 303; 330, 400 (or French 312 or 410, if not taken as a requirement).
 - 17 additional credits to be taken under advisement during the fifth year,
- 2. For students who have had three years of high school work in the language: 210, 211, 310, 311, 312, (or 410 in French), Foreign Language Education 432
 - 15 credits to be selected under advisement from the following: 301, 302, 303, 330, 400 (or French 312 or 410, if not taken as a requirement).
 - 17 additional credits to be taken under advisement during the fifth year.

MAJOR (Secondary)

A. 45 credits in French, German or Spanish. Required are: 201, 202, 203, 210, 211 and 17 credits in courses numbered 301 and above. Foreign Language Education 432 should also be elected if possible.

- B. Students with two or more years of high school French, German or Spanish may:
 - Elect a combined foreign language major to consist of 27 credits in the language studied in high school plus at least 15 credits in a second language plus Foreign Language Education 432.
 - take 40 credits in the language studied in high school plus Foreign Language Education 432.

MINOR:

24 credits in one language, selected under departmental advisement.

Course In Foreign Language Education

432. METHODS AND MATERIALS FOR THE TEACHING OF MODERN FOREIGN LAN-GUAGES 3 credits. Prerequisite: at least eighteen credits of one modern foreign language and permission of the instructor.

Courses In French

NOTE: Students with one year of high school credit in French take the second quarter of the first year work (102) in that language for 2½ credits and 103 for full credit.

Students with two years of high school credit in the language take 201, 202 and 203 and/or 210, 211 and 330.

Students with three years of high school study in the language take 210, 211, 330 and/ar a more advanced course with departmental permission.

- 100A, 100B, 100C. A REVIEW OF FUNDAMENTALS 2 credits each, Prerequisites; one year of high school French for 100A; two years of high school French for the sequence. For students who need additional preparation before taking second year French. Credit may be counted toward graduation, but not toward a major or minor in French.
- TOOS. FUNDAMENTALS OF THE FRENCH LANGUAGE 3 to 5 credits. Prerequisite: two years of high school French or the permission of the department. A refresher course in pronunciation, grammar, aural comprehension, reading and speaking, for students with some previous experience with the language. Credit may not count toward a major or minor in French, nor is the course available to students who have taken 100A, B, C. Summer only.
- 101, 102, 103. FIRST YEAR FRENCH 5 credits each. Fundamentals of the French language: pronunciation, grammar, aural comprehension, reading, and speaking.
- 201, 202, 203. SECOND YEAR FRENCH 3 credits each. Prerequisites: French 101, 102, 103, or twa years of high school French, or the equivalent. Review of fundomentals, reading, oural comprehension and speaking.
- 210. SECOND YEAR CONVERSATION AND COMPOSITION 2 credits. Prerequisites: French 103, or two years of high school French or the equivalent. May be taken concurrently with French 201.
- 211. SECOND YEAR CONVERSATION AND COMPOSITION 2 credits. Prerequisite: French 210. Continuation of French 210.
- 301. SEVENTRENTH CENTURY LITERATURE 3 credits. Prerequisite: nine credits of second year French or the equivalent. An introduction to: (a) The Classical Theorems Cornelle, Moliere, Rocine; (b) The doctrine of Classicism In Le Grand Siecle: Molherbe, Boleau; (c) The Precieux Movement; (d) The French Academy; (e) Philosophical thought: Descartes, Poscal.

- 302. NINETEENTH CENTURY LITERATURE 3 credits. Prerequisite: nine credits of second year French or the equivalent. An introduction to the period of Romanticism to 1870. Lectures, discussions and compositions treat all genres.
- 303. MODERN LITERATURE 3 credits. Prerequisite: nine credits of second year French or the equivalent. An introduction to the late nineteenth and twentieth centuries from the Symbolist Movement to the present day. Lectures, discussions, and explication de texte treat the development of the modern novel, drama and poetry.
- 310. INTERMEDIATE CONVERSATION AND COMPOSITION 2 credits. Prerequisites: nine credits of second year French (including French 211), or the equivolent. Written and oral composition and vocabulary building.
- 311. INTERMEDIATE CONVERSATION AND COMPOSITION 2 credits. Prerequisite: French 310. Continuation of French 310 and explication de texte.
- 312. INTERMEDIATE CONVERSATION AND COMPOSITION 2 credits. Prerequisite: French 311. Continuation of French 311.
- 330. CIVILIZATION OF FRANCE 2-5 credits. Prerequisite: nine credits of second year (300) French or the equivalent, Significant elements of French civilization presented through French texts.
- 340. THE MODERN FRENCH NOVEL 3 to 5 credits. Prerequisite: nine credits of second year college French, or three years of high school French and the consent of the department. Interpretation and discussion of selected readings; lectures and student reports in French, Summer only.
- 341. THE MODERN FRENCH DRAMA 3 to 5 credits. Prerequisite: nine credits of second year college French, or three years of high school French and the consent of the department. Interpretation and discussion of selected readings; lectures and student reports in French. Summer only.
- 342. THE FRENCH SHORT STORY 3 to 5 credits. Prerequisite: nine credits of second year college French, or three years of high school French and the consent of the department. Interpretation and discussion of selected readings; lectures and student reports in French. Summer only.
- 400. SPECIAL PROBLEMS 2-5 credits. Prerequisite: eight credits in French courses numbered 301 or obove, or the equivalent and permission of the department. Advanced study for majors.
- 410. PHONETICS 3 credits. Prerequisites: French 210, 211, 310, 311. Aims at a mostery of good pronunciation through the study of phonetics. Phonetic transcription and intensive aral practice with special attention given to individual difficulties.

Courses In German

NOTE: Students with one year of high school credit in German take the second quarter of the first year work (102) for 2½ credits and 103 for full credit.

Students with two years of high school credit in German take 201, 202 and 203 and/or 210, 211 and 330.

Students with three years of high school credit in German take 210, 211, 300 and/or a more advanced course with departmental permission.

- 100A, 100B, 100C. A REVIEW OF FUNDAMENTALS 2 credits each. Prerequisites: one year of high school German for 100A; two years of high school German for the sequence. For students who need additional preparation before taking second year German. Credit may be counted toward graduation, but not toward a major or minor in German.
- 1005. FUNDAMENTALS OF THE GERMAN LANGUAGE 3 to 5 credits. Prerequisite: two years of high school German or the permission of the department. A refresher course in pronunciation, grammar, aural comprehension, reading and speaking, for students with some previous experience with the language. Credit may not count toward a major or minor in German, nor is the course available to students who have taken German 100A, B, C. Summer only.
- 101, 102, 103- FIRST YEAR GERMAN 5 credits each. Fundamentals of the languages pronunciation, grammar, aural comprehension, reading and speaking.
- 201, 202, 203. SECOND YEAR GERMAN 3 credits each. Prerequisites: German 103, or two years of high school German, or the equivalent. Review of fundamentals, reading, aural comprehension and speaking.
- 210. SECOND YEAR CONVERSATION AND COMPOSITION 2 credits. Prerequisites: German 103, or two years of high school German, or equivalent. Speaking, understanding and writing German. May be taken concurrently with German 201.
- 211. SECOND YEAR CONVERSATION AND COMPOSITION 2 credits. Prerequisite: German 210. Continuation of German 210.
- 301. THE EIGHTEENTH CENTURY 3 credits. Prerequisite: nine credits of second year German or the equivalent. An introduction to the classical period of German literature based on selected works by Lessing, Goethe, and Schiller, supplemented by Jectures, discussions and student compositions and reports.
- 302. THE NINETEENTH CENTURY 3 credits. Prerequisite: nine credits of second year German or the equivalent. An introduction to German literature between the Romantic movement and Naturalism, Classroom lectures, discussions and student reports will supplement the reading of such authors as Gotthelf, Hebbel, Grillparzer, Storm, Keller, Meyer, Fontone and others.
- 303. MODERN GERMAN LITERATURE 3 credits. Prerequisite: nine credits of second year German or the equivalent. An introduction to Naturalism, Impressionism, Expressionism and subsequent trends in recent German literature, with special attention to social problems as treated by such authors as Hauptmann, Thomas Mann, Kafka, Brecht, Hesse and others. Lectures, discussions, and student reports.
- 310. INTERMEDIATE COMPOSITION AND CONVERSATION 2 credits. Prerequisite: German 211 or the equivalent. Written and oral composition and vocabulary building.
- INTERMEDIATE COMPOSITION AND CONVERSATION 2 credits. Prerequisite: German 310 or the equivalent, Continuation of German 310.
- 312. INTERMEDIATE COMPOSITION AND CONVERSATION 2 credits. Prerequisite: German 311 or the equivalent. Continuation of German 311.
- CIVILIZATION OF GERMANY 2-5 credits. Prerequisite: nine credits of second (300) year German or the equivalent. Significant elements of German civilization, presented through German texts.
- 340. THE GERMAN NOVELLA 3 to 5 credits. Prerequisite: nine credits of second year college German, or three years of high school German and the consent of the deportment. Interpretation and discussion of selected readings; lectures and student reports in German. Summer only.

- 341. THE GERMAN DRAMA 3 to 5 credits. Prerequisite: nine credits of second year college German, or three years of high school German and the consent of the department. Interpretation and discussion of selected readings; lectures and student reports in German. Summer only.
- 342. THE MODERN GERMAN KURZGESCHICHTE AND HORSPIEL 3 to 5 credits. Prerequisite: nine credits of second year college German, or three years of high school German and the consent of the department. Interpretation and discussion of selected readings; lectures and student reports in German. Summr only.
- 400. SPECIAL PROBLEMS 2 to 5 credits. Prerequisite: 8 credits in German courses numbered 301 or above, or equivalent, and permission of the department. Advanced study for majors.

Courses in Greek

101, 102, 103. FIRST YEAR GREEK 5 credits each. Fundamentals of Greek grammar designed primarily to provide an elementary reading knowledge; selected readings from Homer's Iliad and Odyssey, Attic prose writers, and the New Testament.

Courses In Latin

NOTE: Students with one year of high school credit in Latin take the second quarter of the first year work (102) for 2½ credits and 103 for full credit. Students with two years of high school credit in Latin take 201, 202 and 203.

- 101, 102, 103. FIRST YEAR LATIN 5 credits each. A structural approach designed to provide not only a foundation in grammar and an elementary reading knowledge of Latin, but also an introduction to the general laws of language.
- 201, 202, 203. SECOND YEAR LATIN 3 credits each. Prerequisite: Latin, 103, or two years of high school Latin, or the equivalent. Review of fundamentals and selected readings from Cicero, Virgil, Ovid, Petronius and other Roman writers.

Courses in Latin Literature in Translation (English 420), Greek Literature in Translation (English 419), and in Classical Mythology (English 312) are available in the English Department.

Courses In Russian

- 101, 102, 103. FIRST YEAR RUSSIAN 5 credits each. Fundamentals of the languages pronunciation, grammar, aural comprehension, reading, and speaking.
- 201, 202, 203. SECOND YEAR RUSSIAN 3 credits each. Prerequisites: Russian 103, or two years of high school Russian, or the equivalent. Review of fundamentals, reading, aural comprehension, and speaking-
- 210. SECOND YEAR CONVERSATION AND COMPOSITION 2 credits. Prerequisite: Russian 103, or two years of high school Russian, or the equivalent. May be taken concurrently with Russian 201 and/or Russian 220.
- SECOND YEAR CONVERSATION AND COMPOSITION 2 credits. Prerequisite: Russian 210. A continuation of Russian 210.
- 220, 221, 222. RAPID READING IN RUSSIAN 2 credits each. Prerequisite: Russian 103, or two years of high school Russian, or the equivalent. May be taken concurrently with Russian 201, 202, and 203.

 CIVILIZATION OF RUSSIA 2-5 credits. Prerequisite: nine credits of second year Russian or the equivalent. Significant elements of Russian civilization, presented through Russian texts.

Courses In Spanish

NOTE: Students with one year of high school credit in Spanish take the second quarter of the first year work (102) for 2½ credits and 103 for full credit.

Students with two years of high school credit in Spanish take 201, 202 and 203 and/or 210, 211 and 330.

Students with three years of high school credit in Spanish take 210, 211, 330 and/or a more advanced course with departmental permission.

- 100A, 100B, 100C. A REVIEW OF FUNDAMENTALS 2 credits each. Prerequisite: one year of high school Spanish for 100A; two years of high school Spanish for the sequence. For students who need additional preparation before taking second year Spanish. Credit may be counted toward graduation, but not toward a major in Spanish.
- 1005. FUNDAMENTALS OF THE SPANISH LANGUAGE 3 to 5 credits. Prerequisite: two years of high school Spanish or the permission of the department. A refresher course in pronunciation, grammar, aural comprehension, reading and speaking, for students with some previous experience with the language. Credit may not count toward a major or minor in Spanish, nor is the course available to students who have taken 100A, B, C. Summer only.
- 101, 102, 103. FIRST YEAR SPANISH 5 credits each. Fundamentals of the language: pronunciation, grammar, aural comprehension, reading, and speaking.
- 201, 202, 203. SECOND YEAR SPANISH 3 credits each. Prerequisite: Spanish 103, or two years of high school Spanish or the equivalent. Review of fundamentals, reading, aural comprehension, and speaking.
- 210. SECOND YEAR CONVERSATION AND COMPOSITION 2 credits. Prerequisite: Spanish 103, or two years of high school Spanish, or the equivalent. Speaking, understanding and writing Spanish. May be taken concurrently with Spanish 201.
- SECOND YEAR CONVERSATION AND COMPOSITION 2 credits. Prerequisite. Spanish 210. Continuation of Spanish 210.
- 301. INTRODUCTION TO SPANISH-AMERICAN LITERATURE 3 credits. Prerequisite: nine credits of second year Spanish or equivalent: A survey of the literature of Spanish America from the Colonial Period to the present. The important works, prose and poetry, are studied in an historical and sociological framework.
- 302. THE SPANISH-AMERICAN NOVEL 3 credits. Prerequisite: nine credits of second year Spanish at the equivalent. Development of the novel in the late nineteenth and twentieth centuries in Mexica and the South American republics. Special emphasis on the regional character of the Spanish-American novel and the political and social atmosphere in which it was developed.
- 303. THE CLASSICAL DRAMA OF SPAIN 3 credits. Prerequisite: nine credits of second year Spanish or the equivalent. Masterpleces of the Siglo de Ora from Cervantes to Calderon. Special attention is given to those qualities of the drama characteristic of Spanish mentality and mores as these are revealed in the dramatic warks of Spain's Golden Age-

- 310. INTERMEDIATE CONVERSATION AND COMPOSITION 2 credits. Prerequisites nine credits of second year Spanish (including Spanish 211) or the equivalent. Written and oral composition and vocabulary building.
- INTERMEDIATE CONVERSATION AND COMPOSITION 2 credits. Prerequisite: Spanish 211) or the equivalent. Written and oral composition and vocabulary building. A continuation of Spanish 310.
- 312. INTERMEDIATE CONVERSATION AND COMPOSITION 2 credits. Prerequisite: Spanish 311. A continuation of Spanish 311.
- 330A. CIVILIZATION OF SPAIN 2-5 credits. Prerequisite: nine credits of second year (300A) Spanish or the equivalent. Significant elements of Spanish civilization presented through Spanish texts. Offered in alternate years.
- 3308. CIVILIZATION OF SPANISH AMERICA 2-5 credits. Prerequisite: nine credits of (3008.) second year Spanish or the equivalent. Significant elements of Spanish American civilization presented through Spanish texts. Offered in alternate years.
- 340. READINGS IN CONTEMPORARY SPANISH DRAMA 3 to 5 credits. Prerequisites nine credits of second year college Spanish, or three years of high school Spanish and the consent of the department. Interpretation and discussion of selected readings; lectures and student reports in Spanish. Summer only.
- 341. THE CONTEMPORARY SPANISH NOVEL 3 to 5 credits. Prerequisite: nine credits of second year college Spanish, or three years of high school Spanish and the consent of the department. Interpretation and discussion of selected radings; fectures and student reports in Spanish. Summer only.
- 342. READINGS IN CONTEMPORARY SPANISH PROSE AND POETRY 3 to 5 credits. Prerequisite: nine credits of second year college Spanish, or three years of high school Spanish and the consent of the department. Interpretation and discussion of selected readings; lectures and student reports in Spanish. Summer only.
- 400. SPECIAL PROBLEMS 2.5 credits. Prerequisite: eight credits in Sponish courses numbered 301 or above, or the equivalent, and permission of the department. Advanced study for majors.

THE COLLEGE PROGRAM in

GENERAL EDUCATION

The purposes of the College program in general education are stated on page 35. As first step toward the fulfillment of these purposes, the College requires of all candidates for a baccaloureate degree, whether in Teacher Education (p. 72) or Arts and Sciences (p. 90), certain prescribed courses, at present totaling 59 credits or somewhat less than one-third of the 192 credits required for graduation. Through these courses the student is given apportunity to keep himself physically fit, to develop his command of written and spoken English, his understanding of mathematical thought, and his knowledge at the nature of the physical universe, the earth as the home of man, the world of life, the characteristics of human behavior, the cultural history and achievements of the West, the nature of the societies of Asia and Africa, and some of the great issues of our time.

Some of these courses are departmental: certain activity courses in Physical Education, English 100 and 101, Speech 100, Mathematics 151 (or 101), and Biology 104. They are listed and described in the appropriate departmental sections of this catalogue.

Others are interdepartmental; these are listed and described below:

GENERAL EDUCATION

- 101. MATTER AND ENERGY 4 credits. Prerequisite: satisfactory performance on the mathematics entrance test. Development of scientific method and attitudes. Selected concepts from the areas of motion, states of matter, kinetic molecular theory, force field interaction, theory of atomic and nuclear structure, and the nature of chemical bonding are developed through lectures, discussion, demonstrations, and laboratory.
- 102. EARTH SCIENCE 4 credits. The earth as the home of man. Attention is given to the earth's crust, land forms, the atmosphere, the oceans, soils, vegetation. Laboratory sessions include training in map reading and interpretation and the identification of rocks and minerals.
- 105. BEHAVIORAL SCIENCE 4 credits. Mon as a biological, psychological, and social organism. Emphasis is given to the processes of perception, learning, and motivation and to the social and cultural context.
- 121, 122, 123, 221. HUMANITIES I, II, III, IV 6 credits each. Each course in the series is prerequisite to the one following. Historical survey of Western culture in its great outlines and major modes: politics, philosophy, art, music, and literature from the earliest time to the present, Lectures, discussions, readings, 121: The ancient world: the Near East, Greece, and Rome. 122: Middle Ages, Renaissance, and Reformation. 123: The ages of Reason, Revolution, Romanticism. 124: The modern world.

- 321. SURVEY OF AFRO-ASIA 2 credits. Prerequisite: junior status and completion of the preceding required general education courses. Cultural, socio-economic, historical survey of the societies of Africa and Asia, with emphasis upon the recent past and problems of the present. Required of eligible students in 1962-63 and thereafter.
- 421. GREAT ISSUES 2 credits. Prerequisite: senior status and completion of the preceding required general education courses, including 321. Required of eligible students in 1963-64 and thereafter.

DEPARTMENT OF GEOGRAPHY

Faculty

Professor: Critchfield, (Chairman).

Associate Professors: Miller, Manahan.

Assistant Professors: Kariel, Maakheriee.

Arts and Sciences

Geography is concerned with the interrelations between human culture and the natural environment and is, therefore, a suitable core for basic integrated study in the Arts and Sciences curriculum. Students planning prafessional careers in geography should follow programs leading to a major in the field. Career apportunities for trained geographers exist in such areas as callege teaching and research, rural and urban planning, resource management, cartagraphy, transportation analysis, business and industrial location, and several branches of government. A graduate degree is normally a prerequisite to professional advancement. Accordingly, the undergraduate pragram in geography is designed to provide a foundation for graduate study as well as for coreer specialization.

The program of the undergraduate major or minor in geography should include fundamental courses in both the natural sciences and the social studies. The department will recommend supporting courses related to the student's career objectives. The student contemplating graduate work toward the Ph.D. degree is advised to acquire reading knowledge of a fareign language and competence in statistics during his undergraduate years. Departmental advisers should be consulted at an early date for assistance in program planning.

Concentrations

MAJOR:

Geography 201, 207, 331, and 351.

Three courses selected under advisement from: Geography 311, 313, 314, 315, 316, 318, 319, 320, 401.

One course selected under advisement from: Geography 333, 353, 421, 422, 451; Geology 310; Biology 301.

One course selected under advisement from: Geography 341, 435, or 470.

One course selected under advisement from Geography 480, 481, or 490.

Additional courses under advisement to total 50 credits.

MINOR:

Geography 100 or 201.

Additional courses under advisement to total 25 credits.

Teacher Education

For students planning to teach elementary grades a major in Social Studies Education or a major in Geography is recommended. Prospective junior ar senior high school teachers may suitably combine a major or minor concentration in Geography with a concentration in one of the social studies fields or in one of the natural sciences.

Concentrations

MAJOR (Elementary)

Geography 201, 401, 421, 451, and 460.

5 credits selected under advisement from the following: Geography 311, 313, 314, 315, 316, 318, 320.

One course selected under advisement from the following: Geography 331, 333, 351, or 353.

One course selected under advisement from the following: Geography 207, 341, 422, 435, 470, 480, or 481.

Additional courses under advisement to total 40 credits, at least 28 of which are to be completed in the undergraduate program.

MINOR (Elementary)

Geography 201 and 460.

Additional courses under advisement to total 20 credits.

MAJOR: (Secondary)

Geography 201, 207, 311, 331, 460, and 470.

5 credits selected under advisement from the following: Geography 313, 314, 315, 316, 318, 319, 320, 401.

One course selected under advisement from the following: Geography 333, 351, 353, or 451.

Two courses selected under advisement from the following: Geography 341, 421, 422, 435, 480, 481, 490; Social Studies Education 426. Additional courses under advisement to total 45 credits.

MINOR (Secondary)

Geography 201, 207, and 470.

Additional courses under advisement to total 20 credits.

Courses

- 100. WORLD REGIONAL GEOGRAPHY 5 credits. For students who have not had a high school course in geography. Major world regions treated with special attention to population, land, and resources.
- HUMAN GEOGRAPHY 3 credits. Interrelations of man and his natural environment, emphasizing cultural influences on world geographic patterns.
- 207. ECONOMIC GEOGRAPHY 5 credits. World resources, industries, commodities, and commerce.
- 311. GEOGRAPHY OF ANGLO-AMERICA 5 credits. Prerequisite: General Education 102, or 3 credits in geography. Physical environments, resources, settlement, and economies of Canada and the United States.
- 313. GEOGRAPHY OF CARIBBEAN AMERICA 3 credits. Prerequisite: General Education 102, or 3 credits in geography. Landforms, climate, vegetation, and soils of Mexico, Central America, and the West Indies and their relationship to history, settlement patterns, and current economic conditions. Emphasis is on the modern way of life as it has been developed from the ancient civilizations.
- 314. GEOGRAPHY OF SOUTH AMERICA 5 credits. Prerequisite: General Education 102, or 3 credits in geography. South American nations, emphasizing their cultural backgrounds, natural environment, economic activities and regional differences. The increasing importance of South America in the economy of the United States is stressed.
- 315. GEOGRAPHY OF ASIA 5 credits. Prerequisite: General Education 102 or 3 credits in geography. Asia's settlement, population, economic resources and activities, and the associated problems.
- GEOGRAPHY OF EUROPE 5 credits. Prerequisite: General Education 102, or 3
 credits in geography. Economic, political, and cultural problems of Europe
 treated regionally.
- 318. GEOGRAPHY OF THE PACIFIC 3 credits. Prerequisite: General Education 102, or 3 credits in geography. Physical environment, resources, and settlements of the Pacific Islands, Australia, and New Zeoland.
- GEOGRAPHY OF AFRICA 3 credits. Prerequisite: General Education 102 or 3 credits in geography. Resources, settlement, peoples, and development of Africa treated regionally.
- 320. GEOGRAPHY OF THE U.S.S.R. 3 credits. Pre-requisite: General Education 102, or 3 credits in geography. Physical environment, resources, industries, population, and settlement of the Soviet Union with emphasis on the nation's role in world affairs.
- WEATHER AND CLIMATE 5 credits. Prerequisite: General Education 102 or equivalent. Elements of climate, climatic regions, and climate as an environmental factor.
- 333. BIOGEOGRAPHY 3 credits. Prerequisite: General Education 102 or equivalent. Origin, distribution, and adaptation of plant and animal associations. The course examines representative plant and animal forms in relation to their physical environment and to man.
- 341. URBAN GEOGRAPHY 3 credits. Prerequisite: General Education 102, or Geography 201. Geographic relations of the modern citiy. Emphasis is placed upon the development, functions, and problems of American cities.
- 351. CARTOGRAPHY 5 credits. Introduction to map making. The course includes practical experience in map and chart construction as well as study of the principles of grid representation, scale, symbols, lettering, design, and reproduction.

- 353. INTERPRETATION OF MAPS AND AERIAL PHOTOGRAPHS 3 credits. Reading and interpretation of maps and aerial photos. Using various classes of maps and aerial photographs, techniques are presented which are used to identify geographic features of the landscape. The course program includes field work as well as study in the classroom.
- 401. GEOGRAPHY OF THE PACIFIC NORTHWEST 3 credits. Prerequisite: General Education 102, or 3 credits in geography. Pacific Northwest resources and industries and problems in resource development.
- 421. CONSERVATION OF NATURAL RESOURCES 5 credits. Principles and practices in the wise management and economic use of our natural resources with emphasis on the Pacific Northwest. Materials and objectives in conservation education problems are considered.
- 422. GEOGRAPHY OF WATER RESOURCES 3 credits. Prerequisite: General Education 102 or 3 credits in geography. Principles and practices in water use and water conservation. Special attention is given to the distribution of water resources and the problems of water conservation in the United States.
- 435. HISTORICAL GEOGRAPHY OF THE UNITED STATES 3 credits. Prerequisite: Geography 311 or American History. The relation of settlement of the United States to geographic factors. The correlation of history and geography is stressed.
- 451. MAPS AND CHARTS IN THE SOCIAL STUDIES 3 credits. Methods and materials of map and chart construction for classroom use from sources in economics, geography, history, sociology, and related fields. The course includes analysis and application of data used in cartographic representation. Laboratory facilities are provided. Formerly affered as Social Studies Education 451.
- 452. ADVANCED CARTOGRAPHY 3 to 5 credits. Prerequisite: Geography 351 and permission of the instructor. Advanced problems and laboratory projects in map and chart construction.
- 460. THE TEACHING OF GEOGRAPHY 3 credits. Prerequisite: 10 credits in geography. Source materials and methods of geographic instruction in the public schools.
- 470. GEOGRAPHY AND WORLD AFFAIRS 3 credits. Prerequisite: 3 credits in geography. Geographical basis of contemporary world problems and international relations. Military strategy, tension zones, natural resources, boundaries, and other aspects of political geography are considered with special attention given to the current problem areas of the world.
- 480. PROBLEMS IN GEOGRAPHY 2 to 5 credits. Special projects under supervision-Opportunities are provided for development of teaching units.
- 481. READINGS IN THE HISTORY AND THEORY OF GEOGRAPHY 3 credits. Prerequisite: 20 credits in geography. Directed readings from the works of leading geographers of the past and present on the nature and development of geography.
- 490. SEMINAR IN GEOGRAPHIC RESEARCH AND WRITING 3 credits. Prerequisite: 20 credits in geography. Source materials and techniques of geographic research. Selected topics are investigated in detail as a basis for written papers.
- 550. GEOGRAPHY IN THE SOCIAL STUDIES 3 credits. Methods, materials, and concepts of geography as applied to social studies teaching at the elementary and secondary levels. Particular attention is given to the role of geography in social studies teaching units. The dual relationhip of geography to the social studies and the natural sciences is examined. Formerly offered as Social Studies Education 550.

DEPARTMENT of GEOLOGY

Faculty

Associate Professors: Christman (Chairman); Pabst.

Assistant Professors: Ellis, Hanagan.

Instructor: Easterbrook.

The Department of Geology offers courses for students in the Teacher Education, Arts and Sciences, and Pre-professional curricula.

Teacher Education

Students planning to teach in the elementary school may elect an Earth Science mojor to be completed during the fifth year. Students planning to teach in junior high school may elect an Earth Science mojor on approval by the Geology Department. To supplement the Earth Science major, a minor in geography, physics, biology or physical education is suggested. Students not taking an Earth Science major may elect a minor in geology for junior high teaching. Students planning to teach in the senior high school may elect a minor in geology. Students taking a General Science major include some geology courses as port of this program.

Concentrations

MAJOR IN EARTH SCIENCE (Elementary)

28 credits in undergraduate program to include:

Geology 211, Geography 331 and Physical Science 105

Physical Science 382 or Biology 383 or Geology 384 (whichever one was not taken as part of the Elementary Concentration).

Two of the following: Geology 307 or 311, 310, 312 and 316.

Electives (minimum of 2-4 hours) to be selected from the following: Geology 407, 410, 412, 413, 414 and 417. Geography 333, 353 and 422. Geography 421 or Education 427 (Conservation). Physics 321 and 322.

Seventeen credits in the Fifth Year program to include:

Two of the following courses, not previously taken: Geology 307 or 311, 310, 312 and 316.

Electives, listed above, to total 45 credits.

MAJOR IN EARTH SCIENCE (Junior High School)

45 credits to include:

Geology 211, 307 or 311, 310, 312, 316 and 400.

Geography 331 and Physical Science 105

Geography 421 or Education 427

Electives (5-7 credits) from the following: Geology 319, 407, 410, 412, 413, 414, 417. Geography 333, 353, and 422. Physics 321 and 322.

MINOR IN GEOLOGY

Geology 211

15 credits under advisement by the Geology Department.

Arts and Sciences

For the students interested in a professional career, a major or minor in geology is offered. Professional careers in geology include: exploration for minerals, petroleum, and coal; research in earth materials in government and industry, and college teaching. A background in geology may be found helpful in the following professions: law, business administration, forestry and engineering. Nearly all professional pasitions require graduate work leading to the M.S. or Ph.D. degree. A function of the professional program in the Arts and Sciences Division is to prepare the student for graduate study.

The undergraduate major in geology should be supported by a well raunded background in mathematics, chemistry, physics, and biology, necessary supporting fields to geologic study. Students who plan eventually to work toward the Ph.D. degree should gain a reading knowledge of French or German during their undergraduate years.

Concentrations

MAJOR:

Geology 211, 307, 310, 312, 316, 407, 417

17 credits under advisement to be selected from the following: Geology 300, 319, 399, 400, 410, 416, 418, 423, 424, 425, 427

No more than 3 credits may be allowed from the sequence 412, 413 and 414. Substitutions in biology may be made for paleontology emphasis.

A minimum of 10 credits in chemistry.

Additional 20 credits in biology, mathematics or physics, under advisement.

Recommended: Chemistry 131, Geography 351 and 353, one year of French, German or Russian, and substitution of General Education 405 or 406 for Physical Science 101.

MINOR:

Geology 211

20 credits under advisement by the Geology Department.

Program Planning

The student interested in a geology major should consult early in his college career with a member of the department for assistance in planning his course. Schools offering graduate study in geology require a "B" average in science for entrance. The following sequences of science courses are suggested for the first two years:

First	Chem.	*121, 122, 131	
Year	Math.	*101, 102, 103	
	Biol.	104,	
	Gen. Ed.	102	
Second	Physics	231, 232, 233	
Year	•	(or 131, 132, 133)	•

^{*}Students eligible for advanced placement in chemistry or mathematics should consult with an adviser in the appropriate department before enrolling in the introductory courses.

Courses

- 211. PHYSICAL GEOLOGY 5 credits. Prerequisite: General Education 102 or equivalent or permission of the department. Origin, composition, and structure of the earth; identification of common rocks and minerals, the evolution of the surface features of continents, and interpretation of land forms from maps.
- SPECIAL PROJECTS IN GEOLOGY 2 to 5 credim. Prerequisites: 10 credits in geology and the consent of the instructor. Special projects under supervision.
- MINERALOGY 5 credits. Prerequisite: Geology 211 or General Education 102;
 Chemistry 121 recommended. Elements of crystallography; comprehensive study of chemical and physical properties of minerals and identification of rock-forming minerals and other common minerals.
- GEOMORPHOLOGY 5 credits. Prerequisites: General Education 102; Geology 211
 recommended. Landscape features, the sculpturing of mountains, hills, plains, and
 plateous by surface processes.
- 311. COMMON ROCKS AND MINERALS 3 credits. Prerequisite: General Education 102 or permission of the instructor. May not be taken for credit by Geology majors. More detailed work with rocks and minerals than is offarded in General Education 102 or Geology 211. The material to be considered includes the origin, occurrence, uses and identification of minerals and rocks.
- 312. HISTOLOGICAL GEOLOGY 5 credits. Prerequisite: General Education 102; Geology 211 and Geology 316 destrable. History of the earth as interpreted from the racks and the story of the development of its inhabitants. Emphasis is upon the geologic history of North America and the Pacific Northwest. Field trips supplement classroom work.

- 316. PRINCIPLES OF PALEONTOLOGY 5 credits. Prerequisites: General Education 102, Biology 104, or their equivalents. Life on the earth as revealed by its inhabitants past and present. The course includes field trips to accessible fassilcollecting localities.
- 319. ECONOMIC GEOLOGY 3 credits. Prerequisite: Geology 307. Economic minerals and ore deposits: their genesis and occurrence.
- 384. EARTH SCIENCE FOR THE ELEMENTARY SCHOOL 3 credits. Prerequisite: General Education 102. May not be taken for credit by geology majors or minors in the Arts and Sciences program. Concepts, experiences and materials from the Earth Sciences adaptable to the elementary and junior high school classroom.
- 399. SEMINAR IN GEOLOGY 1 credit. Prerequisite: permission of the instructor; not open to freshmen. Geological reports, papers, and discussion.
- 400. SPECIAL PROJECTS IN GEOLOGY 2 to 5 credits. Prerequisite: consent of the instructor. Special projects under supervision.
- 407. PETROLOGY 3 credits. Prerequisite: Geology 307. Comprehensive course for geology majors and minors; non-majors should take Geology 311. Origin, occurrence, and classification of igneous, sedimentary and metamorphic rocks and hand specimen identification.
- 410. FIELD GEOLOGY 3 or 5 credits. Prerequisite: Geology 211; Geology 417 recommended. Practical training in methods of geological field investigations; use of field instruments, and making of geologic maps. Field work consists of a supervised geologic investigation of a local area.
- 412. FIELD GEOLOGY FOR TEACHERS 3 credits. Prerequisite: Geology 211 or Geology 311 or Geology 384. Brief survey of the geology of Northwest Washington as may be observed in the field. Course will consist almost entirely of field studies and is designed to augment the prerequisite courses. Summer only.
- 413. PHYSIOGRAPHY OF WESTERN UNITED STATES 3 credits. Prerequisite: General Education 102. Geological forces and processes that have shaped the landscape of the West. Designed for students interested in geology and for teachers interested in utilizing materials of a local geologic character in the classroom. Field trips are emphasized as an essential part of the course. This course is offered in even-numbered years.
- 414. GEOLOGY OF WASHINGTON 3 credits. Prerequisites: General Education 102 and 3 credits in geology. Study of the significant geologic features of Washington State. Designed for students interested in geology and for teachers interested in learning about the local geology for classroom use. Work to include some field studies.
- 416. STRATIGRAPHY 5 credits, Prerequisites: Geology 211 and Geology 312. Analysis of physical and biological characteristics of stratified rock sequences; principles of correlation, and determination of geologic age and facies relationship.
- 417. STRUCTURAL GEOLOGY 5 credits. Prerequisite: Geology 211; Geology 312 recommended. Description, classification, and interpretation of earth structures. Laboratory work emphasizes solution of structural problems by use of geologic maps.
- 418. OPTICAL MINERALOGY 5 credits Prerequisite: Geology 307. Optical phenome-(318) no as related to mineralogy and identification of minerals from optical properties with the use of the polarizing microscope.
- 423. IGNEOUS PETROGRAPHY AND PETROLOGY 3 credits. Prerequisites: Geology
 (313) 407 and 418. Origin, occurrence, and classification of igneous rocks and minerals and use of thin sections in identifying igneous minerals.

- 424. SEDIMENTARY PETROGRAPHY AND PETROLOGY 3 credits. Prerequisites: Geology 407 and 418 and preferably Geology 423. Origin, occurrence, and classification of sedimentary racks and minerals and use of thin sections in identifying sedimentary minerals.
- 425. METAMORPHIC PETROGRAPHY AND PETROLOGY 3 credits. Prerequisites: Geology 407, 418, 423 and preferably 424. Origin, occurrence, and classification of metamorphic rocks and minerals and use of thin sections in identifying metamorphic minerals.
- 427. CRYSTALLOGRAPHY 3 credits. Prerequisite: 10 hours of chemistry. Relationship of symmetry and internal structure of crystals to the crystal systems, and classes and development of theory fundamental to understanding the use of x-ray quipment.

DEPARTMENT OF HISTORY

Faculty

Professor: Murray (Chairman).

Associate Professors: Baylan, Haines, Hiller, Radke, Schuler. Assistant Professors: Buttrick, McAree, Newby, Rae, Thomas.

Teacher Education

Concentrations

MAJOR:

History 203 - 204.

Select two: History 426, 427, 428, 429.

Select one: History 410, 411, 412, 415, 416, 420.

Additional courses under advisement to total 45 credits.

MINOR:

History 203-204. Additional courses, including one upper division course under advisement to total 20 credits.

Arts and Sciences

Concentrations

MAJOR:

History 203 - 204.

Select two: History 426, 427, 428, 429.

Select one: History 410, 411, 412, 415, 416, 420.

Additional courses under advisement to total 50 credits.

Supporting courses: Government 250 and one or more basic courses in other fields of the social studies. A foreign language is highly recommended.

MINOR:

History 203-204 with additional courses in history to total not less than 25 credits.

Courses

(Courses numbered 300 and above are suitable for graduate credit except as noted.)

- 105, 106. HISTORY OF CIVILIZATION 5 credits each. Not open to entering freshmen. Human development from earliest times to the present. The basic view-point of this course is an orientation to contemporary life and culture based on a study of the growth of human culture. In addition to a review of the course of human events, the development of institutions, arts, and ideas is studied.
- 203. AMERICAN HISTORY TO 1865 5 credits. Not open to students having credit for History 205 or History 206. American history from the European background to the end of the Civil War.

- 204. AMERICAN HISTORY SINCE 1865 5 credits. Not open to students who have earned credit for the previously offered courses, History 206 or 207. American history from the end of the Civil War to the present.
- 270. HISTORY OF THE WESTERN HEMISPHERE 5 credits. Western Hemisphere history from European origins to the present.
- 280. HISTORY OF THE FAR EAST 5 credits. The Far East from 1500 to the present,
- 330. HISTORY OF ENGLAND, 1485-1783 5 credits. Political, social, economic, and diplomatic history of England from the accession of the Tudors to the end of the War of the American Revolution. Special attention is given to the constitutional developments of the period.
- 331. HISTORY OF ENGLAND, 1783 TO THE PRESENT. 5 credits. Political, social, economic, and diplomatic history of England from the Age of Pitt and Fox to the the present. Special attention is given to the development of parliamentary institutions in this period.
- 336. FRANCE IN THE MODERN WORLD 3 credits. A survey of the leading political, (367) social and intellectual trends in 19th and 20th century French history. It is recommended that this course be taken in conjunction with French 367 and French 201 or 210. Enrollment priority will be given to those students taking these courses concurrently. Summer only.
- 341. EUROPEAN ECONOMIC HISTORY 5 credits. European economic development from the origins of capitalism to the present. Special emphasis is placed on the period since 1750, marking the emergence of modern industrialism.
- 347. EUROPEAN INTELLECTUAL HISTORY 5 credits. The development of the European mind from the Seventeenth Century to the present.
- 360. AMERICAN ECONOMIC HISTORY 5 credits. American economic development from colonial times to the present with particular emphasis upon the later periods.
- 367. AMERICAN INTELLECTUAL HISTORY 5 credits. The development of the American mind from colonial times to the present.
- 385. HISTORY OF AFRICA 5 credits. African history from the Sixteenth Century to the present.
- 38B. HISTORY OF THE BRITISH EMPIRE 5 credits. The development of the overseas empire of Great Britain from Elizabethan times to the present.
- 391. HISTORY AND GOVERNMENT OF WASHINGTON 3 credits. Background for public school teachers of state history and government in the public schools. The general history of the Pacific Northwest, state development, samples of local history, and state and local government, are covered. This course meets the requirements for state certification. (Not suitable for graduate credit.)
- 399. HISTORICAL RESEARCH 3 credits. Introduction to historical research methods. A particular historical field is chosen for analysis and the student is then assigned a specific project. (Not suitable for graduate credit.)
- SPECIAL PROBLEMS IN HISTORY 1-5 credits. Prerequisites: Special departmental permission.
- 408. WORLD WARS OF THE TWENTIETH CENTURY 5 credits. A military analysis of the Great Wars of this century with emphasis on the strategic and tactical considerations which governed the course of these conflicts.
- 410. ANCIENT NEAR EAST 5 credits. The genesis of Western civilization: our cultural debt to the ancient Mesopotamians, Egyptians, Hittites, Phaenicians, Armaeans, Hebrews, Assyrians, and Persians. Offered in two of every three years. Prerequisite: History 105 or Humanities 121.

- GREECE 5 credits. The Greek World from the Minoon-Mycenaean Period to about 220 B.C. Prerequisite: History 105 or Humanities 121. Open to sophomores with consent of instructor.
- 412. ROME 5 credits. From the Foundation of Rome (753 B.C.) to the death of Theodosius I (395 A.D.) and the division of the Empire. Prerequisite: History 105 or Humanities 121. Open to suphamores with consent of Instructor.
- 415. WESTERN MEDIEVAL EUROPE 5 credits. Political, social, economic, and cultural developments in Western Europe from the death of Theodosius I (395 A.D.) to the eve of the Hundred Years War (1337). Prerequisite: History 105 or Humanities 121-122. Open to sophomores with consent of instructor.
- 416. THE BYZANTINE EMPIRE 5 credits. From the dedication of Constantinople to its fall (330-1453). Offered two of every three years. Prerequisite: History 105 or Humanities 121-122. Open to sophomores with consent of instructor.
- 420. THE RENAISSANCE AND THE REFORMATION 5 credits. The transition from the Medieval to the Modern: Western Europe from the eve of the Hundred Years War to the Treaty of Westphalia (1337-1648). Offered in two of every three years. Prerequisite: History 105 or Humanities 121-122. Open to sophomores with consent of instructor.
- 425. THE ERA OF THE FRENCH REVOLUTION AND NAPOLEON, 1789-1815 5 credits. Europe on the eve of the Revolution; benevolent despotism, the Enlightenment; ideas and course of The Revolution; consolidation and changes under Napoleon; the impact of the Revolution on Europe; fall of Napoleon; lasting results of the era.
- 426. MODERN EUROPE, 1648-1815 5 credits. Main currents of European history in the seventeenth and eighteenth centuries. Emphasis is placed on the development of the modern state system and the conflict between the monorchs and the growing middle class.
- 427. MODERN EUROPE, 1815-1914 5 credits. Main historical currents of the nine-teenth century. Emphasis is placed upon the political, economic, social, and diplomatic developments that led up to the First World War.
- 428. MODERN EUROPE, 1914-1945 5 credits. Europe in the 20th Century. The course considers the results of World War I, attempts at world organization, the Succession States of Central Europe, the disintegration of world order leading to World War II, and the global conflict that followed.
- 429. EUROPE SINCE 1945 3 credits. Major political, economic, and social developments since the end of the Second World War. The origin and operation of the cold war and the attempts of Europe to adjust to the changing status of the continent are stressed.
- 432. HISTORY OF RUSSIA, 1689-1905 3 credits. Political, social, economic, and diplomatic history from Peter the Great to the Revolution of 1905. Particular attention is given to those attitudes and factors which have continued to influence the policy and development of the modern Russian state.
- 433. HISTORY OF RUSSIA, 1905 TO THE PRESENT 5 credits. Political, social, economic, and diplomatic history in the twentieth century. The course emphasizes the period since the Bolshevik Revolution.
- 434. HISTORY OF RUSSIA SINCE 1917 3 credits. Summer only. (466)
- 435. HISTORY OF FRANCE SINCE 1815 5 credits. Political, social, and economic development in the nineteenth and twentieth centuries. The focus of the course is designed to explain the historical background of one of the leading states in Europe.

- 437. HISTORY OF GERMANY 5 credits. From the Thirty-year War to the present. Emphasis is placed on the rise of Brandenburg-Prussia and the role Germany has played in the international state system.
- 450. AMERICAN COLONIAL HISTORY 5 credits. The colonial period of American History from the discovery of America to the end of the American Revolution.
- 452. THE AGE OF JEFFERSON AND JACKSON 5 credits. The United States from the Jefferson Administration through the times of Andrew Jackson to the sectional controversy that culminated in the Civil War.
- 453. THE CIVIL WAR AND RECONSTRUCTION 5 credits. (a) The development of rival nationalisms in the mid-nineteenth century in the United States, (b) The problems of the war in the North and the South, (c) The efforts toward reunion, (d) the new problems in the United States in 1877.
- 454. HISTORY OF THE UNITED STATES 1877-1900. 5 credits. Social, economic, and political development of the American nation after Reconstruction.
- 455. THE PROGRESSIVE MOVEMENT 5 credits. Economic, social, and political protest in America from the Civil War to 1920. Major emphasis is placed on the growth and decline of the Progressive Party between 1900 and 1916.
- THE UNITED STATES IN THE TWENTIETH CENTURY 5 credits. Political, economic, social, and intellectual development in the United States from 1900 to 1945.
- 459. THE UNITED STATES SINCE 1945 3 credits. Internal and international consequences of the rise of the United States as a world power since the end of the Second Warld War.
- 461. DIPLOMATIC HISTORY OF THE UNITED STATES 5 credits. The relationship of the United States to world politics from colonial times to the present, with special emphasis given to the major episodes in American diplomatic history.
- 463. AMERICAN CONSTITUTIONAL HISTORY 5 credits. Constitutional development of the United States from the Revolutionary era to the present.
- 465. HISTORY OF THE WEST 5 credits. The westward movement from the Allegheny Mountains to the Pacific Ocean with special emphasis upon the Far West.
- HISTORY OF CANADA 5 credits. From the period of French colonization to the present.
- 473. HISTORY OF LATIN AMERICA S credits. From the period of early Spanish and Portuguese colonization to the present.
- HISTORY OF CHINA 5 credits. Chinese history from the Ming Dynasty to the present.
- HISTORY OF INDIA 5 credits. Modern India in its political, social, economic, and cultural development.
- 483. ASIA IN THE TWENTIETH CENTURY 3 credits. Impact of the western world on the Orient in the light of Asiatic development since 1900. Special consideration is given to Asiatic developments which underlie the relationship of Asia to the world.
- 484. CONTEMPORARY CHINA AND JAPAN 3 credits. The rise of Chinese and Japanese nationalism from the mid-19th century to the mid-20th century. Summer only.
- 485. CONTEMPORARY AFRICA SOUTH OF THE SAHARA 3 credits. European imperialism in Africa in the late 19th century and the 20th century with emphasis on the recent development of African nationalism, Summer only.
- 501. HISTORIOGRAPHY 5 credits. Analysis of historians and historical literature.

- 502. WRITING SEMINAR IN HISTORY 5 credits. Prerequisites: 36 hours of history or departmental permission. Material and methodology of historical research. This course involves research and writing, and is particularly appropriate for those who plan to teach in the field of history. Summer only.
- 540. FIELD COURSE--MODERN EUROPEAN HISTORY 5 credits. Prerequisites: 36 hours of history or departmental permission. Historical literature of the age of Metternich (1815-1848). Summer only.
- 553. FIELD COURSE—AMERICAN HISTORY 5 credits. Prerequisite: 36 hours of history or departmental permission. Historical literature of the Civil War and Reconstruction. Summer only.
- 555. FIELD COURSE—AMERICAN HISTORY 5 credits. Prerequisite: not less than 36 credits of history or departmental permission. Historical literature in the American Progressive movement. Summer only.
- 571. FIELD COURSE—CANADIAN HISTORY 5 credits. Prerequisite: 36 credits of history or departmental approval. Historical literature in the history of Canada and Canadian-American relations. Summer only.
- 573. FIELD COURSE—LATIN AMERICAN HISTORY 5 credits. Prerequisite: 36 credits of history or departmental permission. Historical literature in the history of Latin American and inter-American relations. Summer only.

DEPARTMENT OF HOME ECONOMICS

Faculty

Associate Professor: Ramsland (Chairmon, on leave).

Instructors: Larrobee, Turck.

Lecturers: Rokohr (Acting Chairman), Swonson.

Courses in home economics represent five divisions:

Family Economics and Home Management Family Relationships and Child Development Foods and Nutrition Hausing, Home Furnishings, and Equipment Textiles and Clothing

Those who select a major or minor in home economics are required to take courses in all divisions

Many of the department offerings are open to both men and women on an elective basis.

Teacher Education

 A major in home economics qualifies the student to teach homemaking at the junior high level or non-vocational senior high school level.

Students anticipating a home ecanomics vocational teaching certificate at the end of the fifth year of study at an institution granting the vocational certificate, may complete the requirements for the bachelor's degree at Western Washington State College. A specific pragram of studies is fallowed by a 45-credit major in home economics and required supporting courses.

2. A minor in home economics may be taken as a general or specialized minor to meet the needs of the student. Elementary education teachers, physical education teachers, industrial arts teachers, and art teachers may find a minor especially appropriate. A field minor in home economics is not designed for teaching home economics at either the junior high school or the senior high school levels.

Concentrations

MAJOR:

Home Economics 100, 120, 150, 164, 253, 260, 272, 334, 338, 341, 353, 375, 420, 424, 430, 410,

Supporting courses. Art 101 or 102, Art 260.

Students anticipating vacational certification have the following supporting courses to take in addition: Chemistry 125, 251; Economics 201.

Chemistry 125 should be taken in lieu of General Education 101.

MINOR:

20 credits taken under departmental advisement. Preliminary consultation with an adviser is essential before undertaking the minor.

Arts and Sciences

A majar ar a minor in hame economics is appropriate to thase who anticipate a career in home making or a career that requires a general home economics background.

Concentrations

MAJOR:

Home Econmics: 100, 120, 150, 164, 253, 260, 272, 334, 338, 353, 370, 375, 420, 424, 430, and one course from 362, 363, 460 or 463.

Supporting courses: Art 102, 260; Economics 201; Sociology 201, 351.

MINOR:

Home Economics 100, 120, 153, 250, 260, 334, 375, and either 420 or 424.

One-or Two-Year Program

A one- or twa-year program may be planned for the student who onticipates transfer to more specialized study at onother college or university.

A student may elect caurses for a one- or two-year program to meet personal needs.

Many of the department offerings are open to both men and women on an elective basis.

Courses

- 100. INTRODUCTION TO HOME ECONOMICS 1 credit. Orientation in the five areas of home economics and a review of the field in terms of history, philosophy, and professional opportunities. The American family and its problems are emphasized as the primary concern in the study of home economics.
- 120. THE PRE-SCHOOL CHILD IN THE FAMILY 2 credits. Intellectual, physical, social, and emotional development of the pre-school child. The course emphasizes the relationship of the child to the family in all these aspects, including observation of the pre-school child.
- 350. HUMAN NUTRITION 3 credits. Basic nutrition principles, the cultural aspects of food and food habits, nutritive needs of people and nutrition education.

- 159. NUTRITION FOR NURSES 3 credits. Open to pre-nursing students only. Fundamental principles of human nutrition and the planning of dietaries to meet normal standards.
- 161. BEGINNING CLOTHING CONSTRUCTION 3 credits. Home Economics 164 recommended but not required. Not open to those majoring in home economics. Beginning sewing techniques are taught in the construction of two garments.
- 164. TEXTILES FOR THE CONSUMER 3 credits. Prerequisite or concurrent: Art 101, 102, or 260. Fabrics used for clothing and household purposes. Sources of textiles and the manufacture, finishes, identification, selection, and care of fabrics are considered.
- 166. CLOTHING SELECTION 2 credits. Prerequisite: Art 101, 102, or 260. Home Economics 164 is recommended but not required as previous experience. Not open to those majoring in home economics. The selection of clothing from both aesthetic and consumer aspects, wardrobe planning guided by fashion, color, design, texture, personality, accasion, and income.
- 250. NUTRITION 2 credits. Fundamental principles of human nutrition and the study of modern dietary standards as applied to normal conditions of every-day living. Emphasis is given to nutrition education.
- 252. MEAL PREPARATION (Men) 2 credits. Planning, preparing, and serving simple, appetizing meals. Emphasis is on meal management.
- 253. MEAL PREPARATION 3 credits. Prerequisites for majors: Home Economics 150, (153) for non-majors: Home Economics 150 or 250. Basic principles of food preparation, food purchasing, and serving of meals including laboratory experience, lecture, and demonstration.
- 260. CLOTHING SELECTION AND CONSTRUCTION 5 credits. Selection of clothing from both the aesthetic and consumer aspects. Wardrobe planning guided by color, design, texture, and personality is included. A laboratory course in clothing construction incorporating new construction techniques and methods. Open to home economics majors only.
- 261. INTERMEDIATE CLOTHING CONSTRUCTION 3 credits. Prerequisite: Home Economics 161; Home Economics 164 is recommended but not required as previous experience. Not open to those majoring in home economics. This laboratory class is concerned with the actual construction of garments. Pattern adaptation, principles of fitting, advanced sewing techniques, and manipulation of present-day fabrics are stressed.
- 267. WEAVING 3 credits. Weaving taught through the use of a variety of looms and materials. Also offered as Industrial Arts 201.
- 268. NEEDLECRAFT 2 credits. Prerequisite: Art 102 or 260. Laboratory experience in applying various embroidery stitches and needlework designs to household linens and clothing.
- 272. HOUSENOLD EQUIPMENT 3 credits. Modern household equipment; its selection, operation, and care. Demonstrations, field trips, and laboratory experiences are included in the course.
- SPECIAL PROBLEMS IN HOME ECONOMICS 1-5 credits. (See Home Economics 400).
- 334. FAMILY FINANCE 3 credits. Prerequisites: General Education 105 and Economics 201. Management of family income and expenditures in the changing family cycle. The financial problems of the family as a social and economic unit in the community are considered.
- 338. CONSUMER ECONOMICS 2 credits. Prerequisites: General Education 105 and Economics 201. Intelligent selection of consumer goods; the understanding of the consumer's obligations and of the aids and protections available to him.
- 340. DEMONSTRATION TECHNIQUES 2 credits. Prerequisite: 20 credits of prescribed courses in home economics. Bosic demonstration techniques in various areas of home economics. Opportunity is given for individual demonstrations of materials and equipment.

- 341. HOME ECONOMICS EDUCATION 3 credits. Prerequisites: junior standing and 20 credits of prescribed home economics. A study of the philosophy, teaching methods, and curriculum in the homemaking programs of the junior and senior high school.
- 350. PROBLEMS IN NUTRITION 3 credits. Prerequisites: Home Economics 153 and 250. Significant problems in human nutrition including (a) those related to the family, such as food for infants, children, and expectant mothers, and adequate family diet in relation to cost; (b) the school lunch program, its objectives and management; (c) nutrition education in the school; (d) the use of experimental animals for nutrition research; (e) a review of current developments in the field.
- 353. FAMILY MEAL MANAGEMENT 3 credits. Prerequisites for majors: Home Economics 253 and 150. Laboratory experience in planning, preparing, and serving meals for the family and guests. Emphasis is on management of time, energy, and money and creativity in planning and serving meals.
- 362, FAMILY CLOTHING 2 credits. Prerequisite: Home Economics 161 or 260 or consent of the instructor. Important consideration in the selection of clothing for the family and in the construction of children's garments. This is a lecture and laboratory course.
- 363. FLAT PATTERN AND DRAPING 3 credits. Prerequisite: Home Economics 161 or 260 or 261. Laboratory course work with the basic theory and principles of pattern making and draping techniques.
- 365. NEW FABRICS AND FINISHES 2 credits. Home Economics 164 is recommended but not required as previous experience. A study of the newer synthetic fabrics used for clothing and household purposes. Consideration is given to chemical and physical properties, special finishing processes, identification, selection, use, and care of the newer fabrics. This course is offered only in the summer session.
- 368. HISTORY OF COSTUME 2 credits. Prerequisiter Art 102 or 260. From the Egyption period to the present day, emphasizing influence on modern fashions.
- 370. THE HOUSE: ITS PEANNING AND ARCHITECTURE 5 credits. Prerequisite: Art 102 or 260. The history of architecture and housing problems for various groups. Home planning in terms of construction, space, equipment and family cycle is considered. Laboratory experience and field trips are included.
- 375. HOME FURNISHING 5 credits. Prerequisite: Art 102 or 260; Home Economics 164 is recommended but not required. Selection and arrangement of furniture and furnishings from aesthetic and economic aspects. The history of furniture and decoration from traditional to contemporary times is discussed, Laboratory experiences and field trips are included.
- 400. SPECIAL PROBLEMS IN HOME ECONOMICS 1-5 credits. Prerequisite: consent of the department chairman. Advanced students who have a creditable record in home economics may work an a special problem by conference arrangement with the instructor.
- 410. SEMINAR IN HOME ECONOMICS 1-5 credits. Prerequisites: 36 credits in home economics and permission of the instructor. Reading and discussion of recent literature and research in the five areas of home economics.
- 420. LABORATORY EXPERIENCE WITH THE PRE-SCHOOL CHILD 3 credits. Pre-requisite; Education 355; adiditional prerequisite for Home Economics majors: Home Economics 120. Observation of children of various ages and participation in a play school laboratory experience. The development of the child from pre-natal through the pre-school years is studied, with emphasis on guidance by the family. The teaching of child development in the home economics curriculum is considered.

- 424. FAMILY RELATIONSHIPS 3 credits. Prerequisites: General Education 105, Home Economics 120 and 420 and Sociology 351 are recommended but not required. Fundamental principles and attitudes which underlie satisfactory family life and the adjustment to personal, economic, and social problems which concern the family. The teaching of family life education in the home economics curriculum is considered.
- 430. HOME MANAGEMENT 2 credits. Prerequisites: junior standing, Home Economics 253, 334, 375. Development and methods of home management. Practical and experimental problems in home management, including work simplification involving time and motion studies, are considered.
- 431. WORKSHOP IN HOME MANAGEMENT 2 credits. Prerequisite: Home Economics teaching experience. Study and discussion of management principles and current management practice with special emphasis on the teaching of management in the home economics program. Summer only.
- 434. FAMILY AND PERSONAL FINANCE 3 credits. Prerequisite: teaching experience in business education, social studies, or home economics. The role of personal and family financial management in the secondary curriculum. Consideration is given to such topics as credit, investments, insurance, consumer buying, legal problems, taxation, with emphasis on an understanding of the economic problems involved. Also offered as Business Education 434. Summer only.
- 446. TEACHING PROBLEMS IN HOMEMAKING EDUCATION 2 credits. Workshop dealing with present-day problems in the teaching of home-making. Summer only.
- 448. EVALUATION IN HOME ECONOMICS 2 credits. Prerequisites: Home Economics 341 or equivalent; student teaching in home economics or graduate status. Application of current concepts in evaluation to the field of home economics. Evaluation devices published in the field are reviewed. The class receives practice in the construction and use of measurement instruments.
- 455. EXPERIMENTAL COOKERY 3 credits. Prerequisites: Home Economics 153, Chemistry 125 and 226. Application of scientific principles and experimental procedure to the cooking processes.
- 460. TAILORING 3 credits. Prerequisite: Home Economics 260 or 261; Home Economics 164 is recommended but not required. Laboratory work in modern tailoring techniques applied to the construction of garments.
- 463. THE BISHOP METHOD OF CLOTHING CONSTRUCTION FOR HOME ECONOMICS EDUCATION—beginning course—3 credits. Introduction to the Bishop method of clothing construction and development of some skill in its application. Emphasis is placed on the Bishop scientific short-cut techniques and on application of the method in teaching.
- 469. SPECIAL PROBLEMS IN CLOTHING CONSTRUCTION 3 credits. Prerequisite: Home Economics 161 or 260. Sewing and fitting problems, designer patterns, and tailoring techniques. Consideration is given to man-made and hard-to-handle fabrics. New methods in the teaching of clothing construction and the use of modern sewing machines are also presented. Two garments are constructed in the laboratory class, the choice of the garment depending on personal or teaching needs. Summer only.
- 475. ADVANCED HOME FURNISHING 3 credits. Prerequisites: Home Economics 112 and 375. Traditional and contemporary furniture and furnishings with emphasis on fabrics, wall coverings, floor coverings, accessories, color, and arrangement. The course involves both individual projects and field trips.
- 476. SURVEY OF CONTEMPORARY DESIGN IN HOME FURNISHINGS 2 credits. Pre-requisites: Home Economics 375. American, European, and Oriental influences on contemporary design in home furnishings with attention to new developments in materials, fabrics, and finishes used in decorative and useful objects.
- 500. SPECIAL PROBLEMS IN HOME ECONOMICS 1-5 credits. (See Home Economics 400.)

INTERDEPARTMENTAL COURSES in

HONORS

These courses are restricted to students who are enrolled in the Honors Program (see p. 37.).

In order to graduate "with honors," a student must:

- a. be recommended by the Honars Board.
- b. have completed at least six quarters of Honors work,
- c. have completed at least 20 credits of Hanors courses, and
- d. have written a senior thesis.

Thus a student may enter the program as late as the beginning of his junior year and still meet Honors graduation requirements.

- 151. TUTORIAL 1 2 credits.
- 152. TUTORIAL I 2 credits.
- 153. TUTORIAL I 2 credits.
- 161. SCIENCE COLLOQUIUM 1 2 credits.
- 162. HUMANITIES COLLOQUIUM | 2 credits.
- 163. SOCIAL SCIENCE COLLOQUIM 1 2 credits
- 251. TUTORIAL II 2 credits.
- 252. TUTORIAL II 2 credits.
- 253. TUTORIAL II 2 credits.
- 261. SCIENCE COLLOQUIUM II 2 credits.
- 262. HUMANITIES COLLOQUIUM II 2 credits.
- 263. SOCIAL SCIENCE COLLOQUIUM 11 2 credits.
- 290. SUMMER READINGS 1 2 credits.
- 300. INDEPENDENT STUDY
- 351. TUTORIAL III 2-5 credits, to be determined by Honors Board.
- 352. TUTORIAL III. 2-5 credits, to be determined by Honors Board.
- 353. TUTORIAL III 2-5 credits, to be determined by Honors Board.
- 361. SCIENCE COLLOQUIUM III 2 credits,
- 362. HUMANITIES COLLOQUIUM III 2 credits.
- 363. SOCIAL SCIENCE COLLOQUIUM III 2 credits.
- 390. SUMMER READINGS II 2 credits.
- 400. INDEPENDENT STUDY
- 451. TUTORIAL IV 2-5 credits, to be determined by Honors Board.
- 452. TUTORIAL IV 2-5 credits, to be determined by Honors Board.
- 453. TUTORIAL IV 2-5 credits, to be determined by Honors Board.
- 461. SCIENCE COLLOQUIUM IV 2 credits.
- 462. HUMANITIES COLLOQUIUM IV 2 credits.
- 463. SOCIAL SCIENCE COLLOQUIUM IV 2 credits.
- 490. SUMMER READINGS III 2 credits.

DEPARTMENT OF INDUSTRIAL ARTS

Faculty

Professors: Atteberry (Chairman), Schwalm. **Associate Professors:** Channer, Hepler, Rice.

Assistant Professors: Olsen, Porter.

Teacher Education

Concentrations

MAJOR: Industrial Arts 491, 493, plus 39 additional credits under departmental advisement.

MINOR: Industrial Arts 493, plus 23 additional credits under departmental advisement.

Arts and Sciences

Concentrations

MAJOR:

65 credits in Industrial Arts.

20 credits in one supporting field: Mathematics, Science, Art, Hame Economics or Economics, or others to meet the needs of students.

Five courses from the following: industrial Arts 110, 223, 231, 270, 280, 301, 340, 360.

Additional courses are to be selected according to one of the following plans: Take all credits above those required, approximately 40, in one of the Areas listed below.

Take approximately 25 credits from one Area and 15 credits from a second. Take approximately 10 credits from each Area.

Take approximately 13 credits from each of three Areas.

Students will be required to take all starred (*) courses in Areas which they select.

AREAS

- A. GENERAL INDUSTRIAL ARTS 201,* 301,* 302,* 401,* 404.
- B. CONSTRUCTION AND FABRICATION TECHNOLOGY 223,* 320,* 429, 231,* 331,* 439, 332, 333, 403.
- C. GRAPHICS 110, 111,* 210, 211, 212, 312,* 313, 411, 419, 360,* 461, 469, 340,* 341, 342, 343, 449.
- D. POWER MÉCHANICS AND ELECTRONICS 270,* 372,* 375, 477, 478, 479, 280,* 381,* 382,* 384,* 489.

MINOR: Courses under departmental advisement to total 40 credits,

Courses In Industrial Arts

- GENERAL DRAFTING 3 credits. Fundamentals of mechanical and freehand drawing and planning techniques.
- 111. INDUSTRIAL ARTS DESIGN 2 credits: Prerequisite: Industrial Arts 110. Design of industrial products. Emphasis is placed on creativeness or inventiveness in the functional, practical application of tools, machines, and materials, to the solution of problems.
- WEAVING 3 credits. Weaving, taught through the use of a variety of looms and materials.
- 210. ENGINEERING DRAWING 3 credits. Use of drafting instruments and the art of freehand lettering, geometrical construction, and technical sketching. Included are the principles of orthographic projection, sections, isometric and oblique pictorial drawing, and duplication methods.
- ENGINEERING DRAWING 3 credits. Prerequisite: Ind. Arts 210. Continuation
 of drafting techniques, emphasizing working drawings of machine parts, double
 auxiliary views, fasteners, developments, pictorial representations, and duplication
 methods.
- 212. DESCRIPTIVE GEOMETRY 3 credits. Prerequisites: Ind. Arts 210 and 211. Theory and problems with practical application and the projection of points, lines, surfaces, and solids.
- 223. GENERAL METALS 5 credits. Introductory course to the following metal areas: art metal, bench metal, sheet metal, forging, pattern making, foundry, welding, and machinina.
- 231. GENERAL WOODS 5 credits. Elementary hand woodworking and the use of common power equipment. Experiences in woods are provided in problems related to materials, processes, production, tool maintenance, shop management, and demonstrations.
- 270. APPLIED ELECTRICITY 3 credits: Theory and practice in electricity, Projects and related studies involving the principles of electricity, electrical construction, repair, and maintenance comprise the activities of the course.
- 280. POWER MECHANICS 3 credits. Basic operating principles of heat engines involving the practical application of theory on automotive, small gas, and aircraft engines.
- SPECIAL PROBLEMS 1-5 credits. Prerequisite: consent of the instructor. Special projects under supervision.
- 301. CRAFTS 2-3 credits. Fundamental skills useful in children's summer recreation, summer camp activities, and club programs. Experiences include weaving, carving, puppets, book binding and the use of wood and clay. Remedial teachers find a knowlndge of this work useful.
- 302. JEWELRY AND LAPIDARY 3 credits. Stone cutting and jewelry making, involving techniques of shaping gem stones, forming and joining of metal shapes, and enameling on metal. Attention is given to the development of an appreciation for creative design through the use of color, form, and texture.
- 304. JEWELRY DESIGN 3 credits. Design and construction of jewelry in various metals, with emphasis an silver. The work of the course includes the setting of stones. Also offered as Art 304.
- 305. INDUSTRIAL CERAMICS 3 credits. Techniques in working with clay, experimenting with glazes, and operating a kiln.
- 312. ADVANCED DRAFTING 3 credits. Prerequisite: Ind. Arts 110. Problems are completed in machine drawing, pattern drafting, boot drawing, and lofting. This course is designed for prospective industrial arts teachers.

- 313. ARCHITECTURAL DRAWING AND HOUSE PLANNING 3 credits. Prerequisites one course in technical drawing, procedure in house planning, drawing and rendering. A detailed plan is required of each student.
- 314. GRAPHIC GEOMETRY FOR INDUSTRIAL ARTS TEACHERS 3 credits. Prerequisites: Industrial Arts 110 or 210 and 211. Problem solving in drafting technical solutions through the use of descriptive geometry techniques.
- 320. ADVANCED GENERAL METALS 3 credits. A continuation of Ind. Arts 223.
- 331. ADVANCED WOODS 3 credits. Prerequisite: Industrial Arts 231. An advanced course to develop further skills and knowledge in the broad area of woodworking.
- 332. FURNITURE CONSTRUCTION 3 credits. A course in the design and construction of furniture.
- 333. PLASTIC 3 credits. The use of plastic materials in the manufacture of a variety of objects.
- 340. GENERAL GRAPHIC ARTS 5 credits. Introduction to relief printing (hypography, press work, wood cuts, linoleum cuts, relief line etchings, stereotype plates, electrotypes, wood engravings, and rubber stamp making); intaglio printing (etchings and gravure); planography (offset lithography—direct and photo) screen process printing, and bindery practices.
- 341. ADVANCED GENERAL GRAPHIC ARTS 3 credits. Continuation of Industrial Arts 340.
- 342. PRODUCTION PRINTING 3 credits. Prerequisites: Industrial Arts 340, 341, and 343 or permission of the instructor. Practical experience in job printing, estimating printing costs, and ordering supplies and equipment is provided.
- 343. OFFSET LITHOGRAPHY 5 credits. Prerequisite: Ind. Arts 340 or permission of the instructor. Survey of offset lithography with laboratory experience in process photography, plote making, cold type composition, and press work-
- 350. INDUSTRIAL ARTS FOR ELEMENTARY SCHOOLS 3 credits. Experience in working with the materials and processes basic to home and industry, and how to plan and execute these activities in teaching elementary school children.
- 351. INDUSTRIAL ARTS FOR THE ELEMENTARY SCHOOL 5 credits. Experience in planning and organizing activities based on contemporary industrial technology, with emphasis on processes and materials.
- 352. SPECIAL INDUSTRIAL ARTS FOR ELEMENTARY SCHOOLS 3 credits. Open only to experienced teachers who have had work in industrial arts and who wish to gain additional experience with materials and processes suitable for the elementary school.
- 360. PHOTOGRAPHY 3 credits. Extensive laboratory experience, operation of cameras; development of negatives, prints and enlargements; special toning, intensification, and reduction of negatives. The techniques of taking pictures with good composition is emphasized.
- 372. INDUSTRIAL ELECTRONICS 4 credits. Industrial uses of electronics, including electron tubes, control devices, relays, and closed loop systems.
- 375. MOTORS AND GENERATORS 3 credits. Theory and practical uses of motors and generators. Special attention is given to maintenance and repair.
- 381. ADVANCED POWER MECHANICS 5 credits. Service, repair, and maintenance of power machines with the primary emphasis on understanding the basic principles of operation.
- 382. AUTOMOTIVE ELECTRICITY 2 credits. Repair and maintenance of the electrical components of the automobile and other small gasoline engines. Emphasis is on the understanding of basic principles of operation.
- 384. MECHANICS OF MATERIALS 3 credits. Study and experimentation in stress, strain, torsion, shear-bending, pure bending, plane stress, and design of members.

- 391. DRIVER EDUCATION FOR INSTRUCTORS 3 credits. Conducting driver education closses in the public schools. In addition to practice teaching utilizing a dual control automobile, the course involves lectures and demonstrations. Students completing the course satisfactorily receive a certificate of proficiency from the American Automobile Association.
- 400. SPECIAL PROBLEMS 1-5 credits: Prerequisite: consent of the instructor. (Open only to industrial arts majors.) Specialized advanced study through individual instruction. (See Industrial Arts 300.)
- 403. UPHOLSTERY AND SURFACE FINISHES 3 credits. Problems in finishing and upholstering. Practice is provided in planning and applying finishes to wood, metals, and other materials.
- 404. TOOL AND MACHINE MAINTENANCE 3 credits. Prerequisites: Industrial Arts 223 and 231 or equivalent. Service, repair, and operation of shop tools, materials, and machines. Procurement and instructional use are also considered.
- 406. PRINCIPLES OF OCCUPATIONAL ANALYSIS 3 credits. Analysis, selection and organization of occupational content for instruction in Industrial Education classes.
- 408. GRAPHIC DESIGN & credits: Prerequisites: Art 260 and 270 for Art students; 1.A. students. Principles of layout, design, and printing in relation to their commercial applications. Also offered as Art 408.
- 411. PRACTICAL LETTERING TECHNIQUES 3 credits. Development of skill in hand lettering. The course is of special value to the teacher concerned with developing effective displays involving the use of commercial lettering methods.
- 419. ADVANCED UNITS IN DRAFTING 1 to 3 credits. Prerequisite: Industrial Arts 110 or 210. Sheetmetal drafting, descriptive geometry, architectural drawing, furniture design, machine and other drafting units.
- 429. ADVANCED UNITS IN METAL 1 to 3 credits. A selection from sheet metal, machine metal, welding, forging, art metal, patternmaking, and foundry units.
- 439. ADVANCED UNITS IN WOOD 1 to 3 credits. A selection from wood turning, furniture construction, small boat building, tool and equipment maintenance, and other units.
- 455. ADVISING AND PRODUCING SCHOOL PUBLICATIONS 10 redits. Concentrated 6-weeks workshop in techniques of publications writing, photo-journalism, and graphic arts pracesses (offset lithography, letterpress, and mimeo) essential for the advisor of school publications. Also offered as English 445. Summer only.
- 447- PUBLICATIONS PRODUCTION 5 credits. Prerequisite: Industrial Arts 340 or permission of instructor. Experiences in design and layout, composition, general and process photography, and presswork in the production of publications.
- 449. ADVANCED UNITS IN GRAPHIC ARTS 1-3 credits. Prerequisite: Industrial Arts 340 or permission of the instructor. Advanced offset lithography, advanced lithography, advanced typography, advanced press work, dry offset, graphic arts crafts, screen printing, backbinding, and other units.
- 459. ADVANCED UNITS IN INDUSTRIAL ARTS FOR THE ELEMENTARY SCHOOL 1 to 3 credits. Developing industrial arts units according to individual needs and interests of students. Special emphasis is given to the relationship between industrial arts and the social studies, language, literature, and other activities of the elementary grades. Laboratory work is planned to give the student experience with new materials and techniques.
- 461. ADVANCED PHOTOGRAPHY 3 credits. Prerequisite: Ind. Arts 360 or equivalent. Selected problems in advanced photographic techniques.
- *469. ADVANCED UNITS IN PHOTOGRAPHY I to 3 credits. Prerequisite: Industrial Arts 360. A selection from photographic re-touching, manual coforing of photographs, graphic arts photography, the production and use of visual teaching materials, and other units.

- 477. THEORY AND OPERATION OF ELECTRONIC TEST EQUIPMENT 4 credits. Theory and practice in the operation of electronic test equipment common to industrial arts electronic programs. Special attention is given to the use of test equipment as it applies to industrial technology projects and experiments.
- 478. PRACTICAL RADIO AND TELEVISION 4 credits. Theory of radio and television transmitters and receivers. Special attention is given to repair and maintenance concerned with radio, television, and related test egypment.
- 479. ADVANCED UNITS IN ELECTRICITY 1-3 credits. Advanced study of problems in electricity, involving motors, generators, and electronics.
- *489. ADVANCED UNITS IN POWER MECHANICS 1-3 credits. Planning completion and reporting of problems in power mechanics.
- 491. SELECTION AND ORGANIZATION OF SUBJECT MATTER IN INDUSTRIAL ARTS 3 credits. Curriculum development for teachers of industrial education, to give a knowledge of problems, techniques, and procedures in the selection and organization of subject matter for instruction.
- 492. CONSTRUCTION AND USE OF VISUAL AIDS 3 credits. Photo techniques, scale models, charts and graphs; construction of visual aids materials; the use and maintenance of slide and motion picture projectors; making of slides, film strips, and 8 mm, or 16 mm. motion pictures for classroom use.
- 493. THE TEACHING OF INDUSTRIAL ARTS 3 credits. Principles and procedures of organizing students, laboratories and instructional materials in teaching industrial type classes.
- 494. INDUSTRIAL TOURS 1-5 credits. Visitation to selected plants in the Pacific Northwest to acquire first-hand understanding of all regional industry. There is apportunity for thorough analysis of processes, product, design, and materials. Distribution also is studied. Approximately one-half of the course time is spent with the industrial concerns, the balance on campus in organizing materials for teaching. Personnel from industry participate in the planning and operation of this experience. Summer only.
- 495. PROJECT SELECTION AND DESIGN 5 credits. This course is designed to aid the student in developing a critical attitude in project design and selection. Part of the course is devoted to the reproduction of the various designs.
- 496. ORGANIZATION AND ADMINISTRATION OF INDUSTRIAL EDUCATION 3 credits-Problems and procedures in organizing and administering industrial education programs; the interrelationships, on all levels of operation, of industrial arts, industrial-vocational education, adult education, technical education, and apprentice training. This course is for teachers, supervisors, and school administrators.
- 497. SEMINAR: GRAPHIC ARTS AND VISUAL COMMUNICATION 2 credits. Development of a critical understanding of graphic design and improvement of literacy in an age increasingly dependent upon perceptual awareness. Summer only.
- 498. SEMINAR IN INDUSTRIAL ARTS DESIGN 3-5 credits. Developing an analytical attitude in industrial arts design and project selection. Group sessions are devoted to a discussion of the principles of design, with participation by the entire staff of the department. Students then disperse to the various industrial arts laboratories to execute designs as applied to several materials, working with a number of instructors.

^{*}These courses may be repeated as often as needed to develop special areas. Each student is required to make a written report of special visual aids for the Industrial Arts Department.

- 499. EQUIPMENT CONSTRUCTION 3-5 credits. To be taken only concurrently with Science Education 431. Care, adjustment, and design of apparatus which illustrates basic concepts in physics. Instruction is given in the use of tools and machines needed for working the materials used in the construction of apparatus.
- 590. CURRICULUM PROBLEMS OF INDUSTRIAL EDUCATION 3 credits. For classroom teachers, supervisors, principals, and superintendents. Curricular problems involved in teaching industrial education courses in the elementary and secondary schools.
- 591. INDUSTRIAL TECHNOLOGY 3 credits. The development of trade, technical, and industrial technology. Consideration is given to motivating forces, philosophical concepts, issues, and trends.
- 592. SUPERVISION AND ADMINISTRATION IN INDUSTRIAL TECHNOLOGY 3 credits.

 The organization of men and equipment for work, and related problems.
- 594. SEMINAR IN INDUSTRIAL ARTS Credit variable. Study of special problems using recognized techniques of research.

INTERDEPARTMENTAL CONCENTRATION in

LANGUAGE ARTS

Concentration

(for the Junior High School Teacher)

Major:

For advisement or approval, students should consult the instructor of English 426. See Schedule of Classes.

The departments represented have jointly planned this major for the purpose of developing the language arts competence required of junior high school language arts—social studies core teachers. The major cansists of caurses in the various fields which comprise the language arts. The total of 45 credits should be selected as follows:

- Speech 105 (required only of students deficient in speech), 200, 233, 355, and 430. Recommended elective: Speech 230.
- b. Library 308.
- c. English 485c, 427, and an upper division course in writing.

Two of the following: English 380, 381, 382.

One of the following: English 301, 302, 303.

 d. Additional courses under advisement in the fields of speech, library, and English to total forty-five credits.

DEPARTMENT OF LIBRARY SCIENCE

Faculty

Associate Professors: Hearsey, Herrick (Chairman), Mathes.

Assistant Professor: Penland, Scott. Instructor: Downey, Hanna, Paeglis.

Teacher Education

Concentrations

MAJOR (Elementary) -

Library Science 305, 306, 307, 401, 402, 403, 404.

Education 421, 489.

†5 credits to be elected under advisement among courses in Art, Education, English, Language, and Speech.

MINOR (Junior High School) -

Library Science 305, 307, 401, 402, 403, 404. Education 422, 489.

MINOR (Senior High School) -

Library Science 307, 308, 401, 402, 403, 404. Education 489.

State Standards — 18 credits for preparation of librarians in schools with less than 400 enrollment. A library school degree is required in larger schools.

Library Science 305, 307 or 308 (whichever appropriate), 401, 402, 403, 404. Education 489.

Courses

- 125. LIBRARY RESEARCH 2 credits. Techniques in the use of a college library for term paper research. The course provides lectures and practice exercises on such categories of library use as locations, regulations, classification and organization of the book collections, use of the card catalogue, use of periodical indexes, etc. The preponderance of the course time is devoted to learning the use of standard reference tools.
- 305. BOOKS FOR ELEMENTARY SCHOOLS 3 credits. Examination, reading, and discussion of the books found to be most generally useful in work with boys and girls in age groups at the elementary level. Books in the fields of information (science, biography, social science, reference, magazines, etc.) are considered as well as imaginative literature (falklare, poetry, and fiction). Special emphasis is given standards for the selection of books, book lists, reviews of current books, modern trends in book production, and the relation of books to the curriculum and to the reading interests of children.

- 306. INTRODUCTION OF BOOKS TO CHILDREN 3 credits. Prerequisite: Library 305. Opportunity for students to read more intensively and to discuss in greater detail books appropriate for primary and intermediate grade boys and girls. Emphasis is on the preparation of bibliographies, on reading problems of individual children, and on methods of arousing interests in books in general.
- 307. BOOKS FOR JUNIOR HIGH SCHOOLS 3 credits. Examination, reading and discussion of the books found to be most generally useful in work with boys and girls in the junior high school. Books in the fields of information (science, biography, social science, reference, magazines, etc.) are considered as well as imaginative literature (folklore, poetry, and fiction). Special emphasis is given standards for the selection of books, book lists, reviews of current books, modern trends in book production, and the relation of books to the curriculum and to the reading interests of children.
- 308. BOOKS FOR SENIOR HIGH SCHOOLS 3 credits. A course paralleling Library 305. Examination, reading, and discussion of books most suitable for use with boys and girls in the secondary schools. Emphasis is on development of appreciation and methods of arousing interest in reading, with material drawn from both the juvenile and adult levels. As in Library 305, attention is given to the standards for selection of books, book lists, reviews, and particularly to the relation of books to the curriculum.
- 400. INDIVIDUAL PROBLEMS IN SCHOOL LIBRARY WORK 1-3 credits. For librarians, teachers, curriculum and audio-visual specialists, and school administrators. Lectures, group discussions and individual conferences deal with problems in selection of materials, organizing, administering and making maximum use of both the elementary and secondary school library. Summer only.
- 401. THE LIBRARY IN THE SCHOOL 3 credits. Prerequisite: Library 305. Emphasis on the importance of the library as a materials center in the modern elementary and secondary school with some attention to the organization and maintenance of effective library service.
- 402. ORGANIZATION OF MATERIALS 3 credits, Prerequisite: Library 305. Principles of classification and cataloguing, with much practice in handling the types of books and materials found in school libraries. Training is given in making unit cards, adapting printed ones, and in organizing a shelf list and dictionary catalogue.
- 403. BASIC INFORMATION SOURCES 3 credits. Prerequisite: Library 305, 307 or 308. Study and evaluation of basic information sources and practice in their use. Materials most commonly used for reference purposes in both the elementary and secondary schools are considered.
- 404. THE LIBRARY IN THE SOCIAL ORDER 3 credits. Designed to increase understanding and appreciation of the social, educational and cultural implications of the role of the library in society. For college students, teachers, librarians and others interested in the wide use of the library as an agency of communication.

DEPARTMENT OF MATHEMATICS

Faculty

Professors: Hashisaki (Chairman).

Associate Professors: Abel, Gelder, Hildebrand, Powers, Rio, Rygg, Witter.

Assistant Professors: Lister, McFarland, Sanders.

Mathematics Competency Required of All Students:

All students must demonstrate a satisfactory level of basic mathematical competencey before enrolling for a faurth quarter. This requirement may be met by:

- (a) Achieving satisfactory scares in mathematics on the Washington Pre-College test, ar
- (b) Achieving a satisfactory score an a special mathematics placement test token at the time of initial enrollment, or
- (c) After independent study, achieving a satisfactory score on a retest, or
- (d) Sotisfactory performance under remedial instruction. Special classes are made ovailable on the campus but outside of the college curriculum. The cost of this instruction (\$10.00) is borne by the student.

Teacher Education

Concentrations

MAJOR (Elementory):

The following courses are to be completed prior to Provisional certification: Mathematics 101*, 102*, 122, 251, 481 and either 222, or 241 and 305.

The following courses are to be completed prior to Standard certification: Mathematics 241 and 305, or 222; 495, and select 8 or more credits from Mathematics 270, 301, 310, 311, 312, 322, 490. [Only 3 credits of Mathematics 490 are allowed for this major.]

MAJOR (Secondary):

Mathematics 101*, 102*, 122, 222, 223; select from 17-31 credits from Mathematics 224, 241, and upper division courses, as advised, to a total of 45 credits.

Mathematics 483 should be substituted for the mathematics requirement in the general education program,

MINOR:

Mathematics 101*, 102*, 122, and 12-20 credits from Mathematics 222, 241, 301, 305, or 311 to total 22-25 credits.

Mathematics 481 or 483 should be substituted for the mathematics requirement in the general education program.

Arts and Sciences

Concentrations

MAJOR:

Mathematics 101*, 102*, 122, 222, 223, 224, and 30 credits of upper division courses as advised by a member of the department. Supporting courses: Physics 231, 232, 233.

MINOR:

Mathematics 101*, 102*, 122, and from 12-20 credits as advised by a member of the department, to a total of 25 credits.

*Entering students having completed a four year or accelerated secondary school program with superior success are encouraged to apply to the Chairman of the Department of Mathematics for advanced placement if they intend to complete a major or a minor in the field.

Departmental Honors Program

A distinct program of study consisting of special seminars, tutorials, and a senior thesis in addition to selected courses at the upper division level, is offered beginning at the junior year to students majoring in mathematics who have demonstrated an unusual interest and consistently superior performance in the field. The Honors program is provided in the Teacher Education and the Arts and Sciences concentrations. Applications for admission should be addressed to the Honors Committee of this department; acceptance is contingent upon the approval of this Committee and upon appointment to the College Honors Program by the Honors Board.

Courses

- 100. ALGEBRA 4 credits. Prerequisite: 1 year of high school algebra and clearance on the mathematics placemi, t tests. For students who do not have sufficient preparation for college level mathematics. Quadratic equations, graphing, similarneous systems, polynomial functions, progressions, determinants, complex numbers, mathematical induction and the binominal theorem.
- 101. PRINCIPLES OF ALGEBRA 4 credits. Prerequisite: one and one-half years of high school algrebra or Mothematics 100. Lagic, number systems, sets, groups, fields, equations and inequalities.
- 102. ELEMENTARY FUNCTIONS 4 credits. Prerequisite: Mathematics 101 and either high school trigonometry or Mathematics 105. A study of elementary functions and the algebra of functions; topics from the theory of equations; analytic geometry.
- 105. TRIGONOMETRY 3 credits. Prerequisite: One and one-half years of high school algebra or Mathematics 100. Angles and angle measurement, logarithms, trigonometric functions, identities, conditional equations, inverse functions, solutions of plane triangles, complex numbers.
- of plane triangles, complex numbers.

 111. ENGINEERING PROBLEMS 3 credits. Mathematics 102 or 105, taken previously or concurrently, or advanced placement. A first course in methods of analyzing and solving engineering problems in the field of elementary dynamics. The systematic and clear presentation of problems is given special emphasis. This course constitutes a general orientation to engineering and engineering reports.
- ENGINEERING PROBLEMS 3 credits. Prerequisite: Mathematics 111. The fundamental principles of statics; mathematical and graphical analysis of simple force systems, stresses, trusses, and simple mechanics.

- 122. ANALYTIC GEOMETRY AND CALCULUS 5 credits. Prerequisite: Mathematics 102 (103) or advanced placement. Coordinate geometry of the plane. Limits, the derivative, differentation, the differential, and elementary applications of differential calculus. Introduction to integration.
- 151. INTRODUCTION TO MATHEMATICS 3 credits. A general education course. Such topics as logic, sets, and the real number system are discussed. This course is not open to those who have credit in Mathematics 101.
- 200. MATHEMATICS SEMINAR 1 to 3 credits. Prerequisite: Mathematics 122 and permission of the Department Chairman. An apportunity to present and to discuss topics which are extensions of the content of the lower division courses in mathematics.
- 222 (201), 223 (202), 224 (203). ANALYTIC GEOMETRY AND CALCULUS 5, 4, 4 credits respectively. Prerequisite: Mathematics 122. Elementary treatment of coordinate geometry of the plane and solid spaces. In Mathematics 222 the study of the integral and integration is continued, the differentiation of transcendental function is introduced, and parametric equations are studied. In the latter two courses, methods of integration, improper integrals, indeterminant forms, infinite series, series expansion of functions, partial differentiation, and multiple integration are discussed.
- 241. PROBABILITY AND GAMES 3 credits. Prerequisite: one and one-half years of high school algebra or Mathematics 100. An elementary and intuitive development of the formal theory of probability. The many applications of probability in games, and in the biological and behavioral sciences, are given introductory treatment.
- 251. FOUNDATIONS OF MATHEMATICS 4 credits. Prerequisite: Mathematics 151 or 101. Introduction to arithmetic, algebra, geometry, probability, and statistics.
- 270. DIGITAL COMPUTER PROGRAMMING 2 credits. Prerequisite: Mathematics 101 or permission. An introduction to binary arithmetic, basic machine design, machine language, compiler language, and elementary numerical methods. This course will involve laboratory experience at the Computing Center.
- 301. LINEAR ALGEBRA 4 credits. Prerequisite: Mathematics 122. Properties of number systems, groups, rings, fields; equivalence, congruences, and isomorphism relationships; extension fields, linear spaces, linear transformations and their invariants.
- 302. LINEAR ALGEBRA AND MATRICES 4 credits. Prerequisite: Mathematics 122. Vector spaces, systems and linear equations, determinants, matrices, and linear transformations.
- 305. NUMBER THEORY 3 credits. Prerequisite: Mathematics 122 or permission. The properties of integers, Euclid's algorithm, Diophantine equations, congruences, continued fractions, and residues.
- 310. HIGHER ANALYTIC GEOMETRY 3 credits. Prerequisite: Mathematics 122. Development of the analytic geometry of two and three dimensions. Curves, surfaces, coordinate transformations, point transformations, invariants, and canonical forms.
- 311. FOUNDATIONS OF GEOMETRY 3 credits. Prerequisite: Mathematics 122. Projective geometry: the postulates of incidence, models, duality, perspectivities, projectivities, figures, quadrangular and harmonic sets, coordinate systems, transformations, lines, and conics.
- 312. FOUNDATIONS OF GEOMETRY 3 credits. Prerequisite: Mathematics 122. Analytic projective geometry; a study of matrices, cross-ratio, groups, projective transformations, polarities, and conics; affine geometry, euclidean and non-euclidean geometries.

- INTERMEDIATE ANALYSIS 3 credits. Frerequisite: Mathematics 222. Properties
 of real numbers with emphasis on order and completeness. A study of the theory
 of limits is included.
- 325. ADVANCED CALCULUS 3 credits. Prerequisite: Mathemotics 224. The topology of the real line, theory of differentiation, the Riemann integral, improper integrals, Riemann-Stieltjes integral, bounded variation.
- 331, 332. DIFFERENTIAL EQUATIONS 3 credits each. Prerequisite: Mathematics 224. Elementary methods, existence and uniqueness theorems for linear equations and systems of equations, solutions by series and successive approximations, operators, LaPlace Transform, numerical methods, Fourier series, partial differential equations.
- 341, 342. MATHEMATICAL STATISTICS 4 credits each. Prerequisite: Mathematics 224. Probability theory; development of distributions, generating functions; averages, moments, regression, correlation, variance, and statistical inference.
- 361. VECTOR ANALYSIS 4 credits. Prerequisite: Mathematics 224. The algebra of vectors, vector spaces, vector calculus; line integrals, divergence, curl; Stokes' Theorem; the application of vectors to the study of work, potential theory, and fluid flow.
- 370. NUMERICAL ANALYSIS 3 credits. Prerequisites: Mathematics 224 and 270, or permission. A general introduction to numerical methods involving the study of interpolation with divided differences, Lagrangian methods, finite-difference methods, least-square approximation, and Gaussian quadrature. This course will involve laboratory experience at the Computer Center.
- 400. MATHEMATICS SEMINAR 1 to 3 credits. Prerequisite: Mathematics 224. An opportunity to present and discuss topics which are extensions of the content of the undergraduate program in mathematics.
- 401, 402. MODERN ALGEBRA 3 credits each. Prerequisite: Mathematics 301. A development of the real and complex number systems with emphasis on the algebraic structures; Peano's postulates, Dedekind cuts. Linear spaces, subspaces, dual spaces, linear transformations and matrices, linear and quadratic forms.
- 421. INTRODUCTION TO POINT-SET TOPOLOGY 4 credits. Prerequisite: Mathematics 425 or permission of the instructor. The ardinary topology of Euclidean n-space, convergence, metrics, compactness, separation.
- 425. 426. ADYANCED CALCULUS 3 credits each. Prerequisite: Mathematics 325. The topology of Euclidean n-space, a study of limits, differentiation of functions of several variables, the general Riemann integral, Riemann-Stieltjes integral, line integrals, Jordan content.
- 431, 432. FUNCTION THEORY OF THE COMPLEX VARIABLE 3 credits each. Pre-requisite: Mathematics 325. Complex numbers as a field; function theory including analytic functions; exponential and logarithmic functions; derivatives; linear and bilinear transformations; the complex integral calculus; Cauchy-Goursat Theorem, Cauchy Integral Formula; power series, residues and pales; conformal mappings.
- 470. NUMERICAL METHODS IN DIFFERENTIAL EQUATIONS 3 credits. Prerequisites: Mathematics 270 and 331. Forward integration, error analysis; Milne, Runge-Kutta, and difference methods; systems of equations This course will involve laboratory experience at the Computer Center.

- 481. MATHEMATICS IN GRADES 1 THROUGH 8 4 credits. Prerequisite: Mathematics 251 or permission. An analysis of the teaching of the mathematics of grades one through eight in terms of objectives and methods of presentation. Methods of stimulating creative expression and of promoting student understanding, the various leaching aids, and the subtleties of the mathematics itself receive consideration. An examination and evaluation of current research relative to the pre-high school mathematics program is included.
- 483. MATHEMATICS IN THE SECONDARY SCHOOL 3 credits. Prerequisite: Mathematics 103 or permission. Mathematics content of the advanced courses offered at the high school level from the point of view of the teacher. A discussion of the major experimental programs is given.
- 490, 491. SEMINAR ON EXPERIMENTAL PROGRAMS IN MATHEMATICS 6 credits each. Prerequisite: permission of the instructor. These seminars are specifically designed to prepare teachers in the content and methods of the new programs in secondary mathematics. Mathematics 490 is devoted to the study of the teaching of Units 1-4 of the program of the University of Illinois Committee on School Mathematics (UICSM) and to an overview of the content of the School Mathematics Study Group (SMSG) materials for grades 7-9. Provision is made for the observation of a demonstration class of children using the UICSM materials. Mathematics 491 is a continuation of this study, with emphasis on the content of the materials for grades 10-12 of the UICSM and the SMSG programs. Summer only.
- 495. EXPERIMENTAL MATHEMATICS IN THE ELEMENTARY SCHOOL 3 credits. An examination and evaluation of experimental elementary school mathematics projects with emphasis on the mathematics content of such programs.
- 500. MATHEMATICS CURRICULUM SEMINAR 1 credit. Prerequisite: admission to the Master-Teacher program. The mathematics curriculum in the public schools. Present content of this curriculum is considered and a study is made of new recommendations for revision.
- 504. ALGEBRA 5 credits. Prerequisite: permission of the instructor. Introduction to (452) linear algebra, matrices and determinants, linear transformations, and cononical forms. Summer only.
- 505. THEORY OF NUMBERS 5 credits. Prerequisite: permission of the instructor. The (502) properties of the natural numbers, divisibility, the Euclidean algorithm, congruences, primitive roots, quadratic residues, and diophantine equations. Summer only.
- 510. GEOMETRY 5 credits. Prerequisite: permission of the instructor. Foundations of (453) Euclidean geometry; Euclid's postulates, Hilbert's postulates, the parallel postulate; non-euclidean geometries. Summer only.
- 520. ANALYSIS 5 credits. Prerequisite: permission of the instructor. Convergence of (454) sequences and series, continuity of functions, and the theory of differentiation and integration. Summer only.
- 540. PROBABILITY AND STATISTICS 5 credits. Prerequisite: permission of the in-(503) structor. Frobability; combinatorial analysis, conditional probability; independence; distribution functions, random variables, and expectation. Summer only.
- 550. MATHEMATICAL LOGIC AND SETS 5 credits. Prerequisite; permission of the in-(451) structor. Introduction to formal symbolic logic and to set theory with an emphasis on mathematical examples. Summer only.
- 551. NUMBER SYSTEMS 5 credits. Prerequisite: permission of the instructor. Po tu-(501) lational development of the real and complex number systems and an introduc on to the theory of groups, fields, and rings. Summer only.

DEPARTMENT of MUSIC

Faculty

Professor: D'Andrea, (Chairman).

Associate Professors: Glass, Regier, Schaub, Walter. Assistant Professors: Osborn, Reubart, Siman, Stoner.

Instructor: Hinds.

Affiliated: Bionchi, Cloud, Harrison, Stonehause, Thal, Tamfohrde.

Functions of the Department

The Music Department performs two functions in the College. First, it provides specialized education for those students who wish to major or minor in music or music education. Second, it enhances the cultural, recreational, and social life of the student through concerts, recitals, and other performances and music activities.

For the Music Student

Admission to Music Programs

Students who wish to major or minor in music are required to have a preliminary conference with a member of the music staff. Classification as a music major or minor requires departmental approval. Final approval as a music major will be made ofter a year of successful study.

All entering music majors are required to take the music preparedness test during the first week of classes to determine the appropriate courses for which they should be enrolled in the sequence of courses in music structure and musicianship.

Requirements in Piano

All students with a Music-Education Major or Minor must pass a piano functional examination which is given at the conclusion of Music 103 Class Piano. This examination may be taken at any time prior to student-teaching.

Piano final examinations are required of all students enrolled for applied piana instruction who have not appeared in one or more of the student recitals given during the quarter. Participation will be considered sufficient if performance is as soloist, or as member af a chamber music group or piana ensemble.

Provision for the Use of Special Facilities and Equipment

There are special charges levied for practice roams, instrument rental, and organ practice. These must be paid in the Business Office before orrangements for use of music facilities are made in the Music Library. See page 62.

Music Organizations

All music majors participate in both choral and instrumental organizations. Participation in music organizations is required throughout the four College years. This experience is considered on integral and important part of the student's professional training in music.

Recitals and Concerts

Hearing and evaluating performances are a vital part of a student's musical growth. Numerous recitals are given by students and faculty; cancerts, by the Music Department and visiting artists. All music students are required to attend the college recitals and concerts. They are also expected to perform as soloists or in small ensembles.

Pipe Organs

The College owns three organs: the Memorial three-manual Moeller argan in the Auditorium, a Moeller practice organ, and a Conn electronic organ. Concerts are frequently given by visiting organists, faculty, and advanced organ students.

Arts and Sciences

Concentrations

MAJOR: Music 131, 132, 133, 231, 232, 233, 331, 332, 240, 241, 242, 309, 310, 311.

Major instrument: minimum of 12 credits.

Piano or secondary instrument: minimum of six credits.

Voice: minimum of one credit.

Music organizations: charal and instrumental,

MINOR: Music 131, 240, 241, 242, 309.

Major instrument or voice: minimum of six credits.

Music organizations.

Teacher Education

Concentrations

MAJOR (Vocal and/or instrumental, all grade levels.)

Structure and Musicianship: Music 131, 132, 133, 231, 232, 233, plus 4 credits electives.

History: Music 240, 241, 242.

Music Education: Minimum of three credits each in elementary, choral and instrumental methods. 8 credits elective in methods or instrumental techniques.

Performance:

- (a) Music 309, 310, plus 3 credits electives.
- (b) Piano and voice minimum 4 credits.
- (c) 6 credits on a major instrument or voice.
- (d) Participation in both a large choral and an instrumental organization.

MAJOR (Elementary Vocal)

Structure and Musicianship: Music 131, 132, 133.

History: Music 240, 241, 242.

Music Education: Music 351.

Performance: Music 309, piano 6 credits, vaice 3 credits, choral organizations.

Electives: 12 credits in music other than music organizations.

At least 28 credits toward this major must be taken in pre-service study, including Music 131, 132, 133, 240, 241, 242, 309, 351 and 4 credits of Applied Music.

MINOR A (Strings, 24 credits):

Music 131, 132, 133, 301, 302, 303, 309, 462.

Applied Strings: 3 credits.

Piano: 3 credits,

Orchestra.

MINOR B (General, 24 credits):

Music 131, 132, 133, 240, 241, 242.

Major instrument or voice: 6 credits.

Music organizations,

Courses

Structure and Musicianship

- 130. MUSIC FUNDAMENTALS 3 credits. Music notation; basic terminology; scales; key signatures and intervals. Emphasis is centered upon musical experience through singing and aural perception. For students desiring a foundation in music but whose musical background is not sufficient to assure success in Music 131.
- 131. ELEMENTARY HARMONIC PRACTICE 3 credits. Admission by qualifying examination or completion of Music 130. Music notation; scales; key signatures; intervallic two-part counterpoint; analysis; coordinated singing, listening and keyboard experiences with emphasis upon functional application.

- 132. ELEMENTARY HARMONIC PRACTICE 3 credits. Prerequisite: Music 131, Diatonic harmony in root position; phrase structure and chord grouping; analysis; coordinated laboratory experiences and creative activity.
- 133. ELEMENTARY HARMONIC PRACTICE 3 credits. Prerequisite: Music 132. Triod inversion; figured boss; analysis; intevallic counterpoint in three voices; coordinated laboratory experiences and creative activity.
- 231. ADVANCED HARMONIC PRACTICE 3 credits. Prerequisite: Music 133. Seventh chords; irregular resolution; sequence; introduction to accented dissonances; analysis; coordinated laboratory experiences and creative activity.
- 232. ADVANCED HARMONIC PRACTICE 3 credits. Prerequisite: Music 233. Modulation; secondary dominants; introduction to chromatic harmony; the period form; analysis; coordinated laboratory experience and creative activity.
- 233. ADVANCED HARMONIC PRACTICE 3 credits. Prerequisite: Music 232. Chramatic harmony; modulation; relationship of harmony to larger formal units; analysis; coordinated laboratory experiences and creative activity.
- 331. HARMONIC PRACTICES SINCE THE LATE 19TH CENTURY 2 credits. Prerequiste: Music 233. Harmonic techniques since the period of Brahms, Wagner and Franck. Correlated sight-singing, dictation and analysis.
- 332. HARMONIC PRACTICES SINCE THE LATE 19TH CENTURY 2 credits. Continuation of Music 331.
- 333, 334. 17TH AND IBTH CENTURY COUNTERPOINT 2 credits each. Prerequisite: Music 233. Instrumental and vocal contrapuntal techniques of the Baroque and Classic periods. Correlated sight-singing, dictation and analysis.
- 335, 336. ANALYTICAL TECHNIQUES 2 credits each. Prerequisite: Music 233. Analytical practice and procedures applied to the basic musical structures from the small part-forms to larger formal units, with particular regard for the function of harmony in the structure.
- 337, 338. 16TH CENTURY COUNTERPOINT 2 credits each. Prerequisite: Music 233. Vocal counterpoint of the High Renaissance with an historical survey of contrapuntal practice beginning in the 14th century. Essential for the student whose special interests lie in the field of music history.
- 430. HARMONY LABORATORY 3 credits. A review and application of harmonic (333) practice to aural, vocal, keyboard and creative experience, with attention given to harmonic and formal analysis. Prerequisite: one year of college level harmony or its equivalent. Summer only.
- ORCHESTRATION 3 credits. Orchestration, with special reference to the needs
 of the instrumnetal director.
- 434. PHYSICS OF MUSICAL INSTRUMENTS 3 credits. The production and transmission of musical tone and the acoustical problems of musical performance. Emphasis is upon the physical and psychological properties of vocal, string, and wind instrument tone.
- 531. ARRANGING FOR SCHOOL INSTRUMENTAL GROUPS 3 credits. Practical techniques in arranging and composing for large and small ensembles. For the school instrumental director. Summer only.
- 532. ARRANGING FOR SCHOOL CHORAL GROUPS 3 credits. Practical techniques in arranging and composing for large and small ensembles. For the school choral director. Summer only.

History and Appreciation

- 140. THE ART OF LISTENING TO MUSIC 3 credits. A non-technical course to provide a basis for enjoyable listening to music through the discovery of stylistic differences among composers and the owareness of performance practices related to symphony orchestras, instrumental ensembles, opera, choral groups, and solo performance.
- 240. MUSIC HISTORY 3 credits. Musical styles and literature in music's development in Ancient. Medieval and Renaissance centuries.
- MUSIC HISTORY 3 credits. A study of the musical styles and forms of the Baroque, Classical and Romantic periods. A continuation of Music 240.
- 242. MUSIC HISTORY 3 credits. A study of twentieth-century music-composers, literature and musical styles. Analysis of the principal trends and schools of thought of this period in Europe and America. Continuation of Music 241.
- 400-E. FOREIGN STUDY 9 credits. A European Odyssey in Music and the Arts. Study programs abroad in Music and the Arts are conducted periodically. The program involves music festivals, university lectures and seminars and visitation of the major centers of art, architecture, drama, dance. Readings and papers are a required part of the course. Summer only.
- 440. COLLEGIUM MUSICUM is credit. The informal study and performance of neglected mosterpieces of music from the remote to more recent past with due regard for appropriate performance practices. A coordinate to any well-balanced proaram of instruction in music history.
- 441. MUSIC OF THE CLASSIC AND EARLY ROMANTIC PERIODS 3 credits. Prerequisite: Music 242. The chief instrumental and vocal forms in their historical and musical development from the late Baraque era through the Early Romantic period. Summer only.
- 442. CONTEMPORARY MUSIC 3 credits. Prerequisite: Music 242. A study in the development of 20th century musical styles, beginning with their roots in the late 19th century and culminating with current trends in theory and practice. Summer only.

Music Education

- 250. MUSIC FOR ELEMENTARY TEACHERS 5 credits. This course is intended for elementary classroom teachers, not music majors. It combines the skills of singing, reading, writing, playing and hearing music with teaching techniques and materials used in the elementary grades.
- 251. TEACHING ELEMENTARY SCHOOL MUSIC 3 credits. Prerequisite for non-music majors or minors: Music 250. Teaching techniques, materials, and organization of the elementary music program taught through the experiences and literature of the elementary grades.
- 350. MUSIC IN RECREATION 3 credits. Pleasurable music-making for the layman. Included is a study of (a) music's role in bringing more enjayment, participation and sociability to recreation; (b) useful, simple vocal and instrumental skills; (c) appropriate literature and activities for numerous types of recreational apportunities in the school and community.
- 351. ELEMENTARY MUSIC EDUCATION 3 credits. Prerequisite: Music 133 and Music Major. Teaching techniques, materials and organization of the elementary music program. Observation and laboratory experience.
- 400. MUSIC WORKSHOP FOR ELEMENTARY CLASSROOM TEACHERS 2 credits. Musical techniques as applied to the teaching of children. Appropriate activities and materials which can be used by the general classroom teacher are reviewed. Not for graduate credit. Summer only.

- 450. MUSIC EXPERIENCES FOR CHILDREN 3 credits. Music workshop for classroom teachers and administrators. Included is a study of musical techniques as applied to the teaching of children. Appropriate activities and materials which can be used by the general teacher to carry on an effective music program are reviewed. The course involves observation of elementary music classes. Summer only.
- 451. MUSIC LISTENING ACTIVITIES IN THE ELEMENTARY SCHOOL 3 credita. Workshop for elementary teachers and music supervisors. Included are (a) a study of literature, activities, and teaching techniques; (b) correlation with other classroom studies; (c) out-of-classroom activities and programs.
- 452. MUSIC LITERATURE FOR ELEMENTARY SCHOOLS 3 credits. Appropriate literature to be used in the elementary school music activities of singing, rhythms, autside reading, programs.
- 454. STRING TECHNIQUES AND MATERIALS 3 credits. Summer only.
- 455. BRASS AND PERCUSSION TECHNIQUES AND MATERIALS 3 credits. Summer only.
- 456. WOODWIND TECHNIQUES AND MATERIALS 3 credits. Summer only.

Music 454, 455, and 456 constitute a series of laboratory courses designed to give the teacher on effective method of dealing with the numerous problems encountered in teaching band and orchestral instruments. Special concern is given to the means of using these instruments most effectively in both small and large groups.

- 458. PIANO FOR THE CLASSROOM TEACHER 3 credits. Piano course for the teacher with little or no previous piano background. Major emphasis: (a) the playing of materials used in teaching music; (b) the piano skills needed for simple accompaniment; (c) the use of the piano in general classroom activities. Summer only.
- 460. MARCHING BAND TECHNIQUES 3 credits. Marching band organization, parade marching, and show routine. Special emphasis is placed on rehearsal procedures and on the training of drum majors.
- 462. INSTRUMENTAL METHODS AND MATERIALS 3 credits. Problems, organization, techniques, and materials of an elementary and secondary program in instrumental music.
- 463. THE GENERAL MUSIC PROGRAM 3 credits. Organization, content, literature and methods of teaching the general music class in the junior and senior high school. Attention is given to the development of a Music and Humanities course in the high school, to out-of-class activities and to audio-visual materials.
- 464. CHORAL METHODS AND MATERIALS 3 credits. Problems, organization, techniques, and materials of the secondary program in choral music.
- 465. SCHOOL MUSICAL PRODUCTIONS 3 credits. Workshop experience encompassing a wide range of new ideas, materials, and techniques for presenting all types of musical productions.
- 466. ORCHESTRA MUSIC WORKSHOP 2 credits. Summer only.
- 467. BIRCH BAY BAND MUSIC WORKSHOP 2 credits. Summer only.
- 468. CHORAL MUSIC WORKSHOP 2 credits. Summer only.
- 550. ADMINISTRATION OF SCHOOL MUSIC 3 credits. Reappraisal of music's purpose and place in today's schools. Stress is placed on viewing the total music program as a unified and developmental part of the curriculum. Topics include current philosophic issues, new curricular developments, problems of supervision and instruction, development of community and professional relations. Summer only.

- 551. CHORAL TECHNIQUES 3 credits. Methods, materials and devices used in the development of choral groups, varying from small vocal ensembles to large choral organizations. Summer only.
- 552. SUPERVISION OF ELEMENTARY SCHOOL MUSIC 3 credits. Advanced work in methods, materials, organization, and supervision of the music program in the elementary school. Summer only.
- 553. PSYCHOLOGY OF MUSIC 3 credits. Recent advances made in the psychological foundations of total organization, perception, and function which underlie music education's objectives and procedures. Summer only.
- 554. DIRECTED READINGS AND RESEARCH 3 credits. Seminar discussion of areas of needed research in music education. Emphasis is placed upon reading and individual projects. Should be taken concurrently with Education 501.
- 555. COMPREHENSIVE INSTRUMENTAL CURRICULUM 3 credits. Treatment of the continuous development of wind instrumentalists from beginning classes through high school performing groups. Emphasis is placed on the integration of technical, musical and aesthetic understandings in a developmental process. Summer only.

Performance

INDIVIDUAL INSTRUCTION

Individual instruction on the major instrument or voice is provided free of additional fees to the extent of meeting requirements for students majoring or minoring in music. Other students, approved by the Music Department, may also receive private lessons without cost.

- 210. PIANO 1 credit.
- 211. ORGAN 1 credit.
- 213. STRINGS 1 credit.
- 214. BAND INSTRUMENTS 1 credit.
- 215. VOICE 1 credit.
- 510. ADVANCED PIANO 1 credit.
- 511. ADVANCED ORGAN 1 credit.
- 513. ADVANCED STRINGS 1 credit.
- 514. ADVANCED BAND INSTRUMENTS 1 credit.
- 515. ADVANCED VOICE 1 credit.

CLASS INSTRUCTION

- 101, 102, 103. CLASS PIANO FOR MUSIC MAJORS 1 credit each. Fundamental key-board techniques with stress upon sight-reading, improvisation and other skills essential to the music major.
- 10S. CLASS VOICE ? credit. Tone production, song repertoire and interpretation for those students who have had little or no previous vocal instruction. This class is particularly helpful for elementary teachers who would like to use singing as another resource in their class and school activities.

- 201, 202, 203. PIANO FOR CLASSROOM TEACHERS 1 crédit each. Fundamental keyboard techniques with stress upon sight-reading, improvisation and other skills essential to the classroom teacher.
- 301, 302, 303. STRING CLASS 1 credit each. The principles and techniques of playing and teaching string instruments.
- 304. PERCUSSION CLASS 1 credit.
- 305, 306. BRASS CLASS 1 credit each. The principles and techniques of playing and teaching brass instruments.
- CLARINET CLASS 1 credit. The principles and techniques of playing and teaching the clarinet.
- 308. WOODWIND CLASS.. 1 credit. The principles and techniques of playing and teaching the woodwinds other than the clarinet.
- 309, 310. CONDUCTING 3 credits each. Provides the necessary boton technique, in-(306) respectative analysis, and score reading ability needed for work with school
- (307) instrumental and choral groups.
- 311. INSTRUMENTAL CONDUCTING 3 credits. Prerequisite: Music 310. The application of techniques learned in Music 309 and 310 to the conducting of full works in orchestral and band literature.
- 312. CHORAL CONDUCTING 3 credits. Prerequisite: Music 310. An extension of conducting techniques, particularly related to various styles of choral music, with an emphasis upon conducting contemporary literature.
- 501. INSTRUMENTAL CONDUCTING AND REHEARSAL TECHNIQUES 3 credits. Advanced work in conducting school band and orchestra music. Included are batan technique, interpretation, score preparation, and rehearsal techniques. Conducting experience with a laboratory group is provided. Summer only.
- 502. CHORAL LITERATURE AND INTERPRETATION 3 credits. Established and recent literature, interpretative analysis of scores, conducting and rehearsal technique, and laboratory rehearsal. For community and school choral directors. Summer only.

MUSIC ORGANIZATIONS

- 120. CO-ED CHORUS (College Choir) 1 credit. Open to all. No auditions.
- 121. WESTERN STATESMEN (College Choir) 1 credit. Open to all. No auditions. On occasion the Co-ed Chorus and Western Statesmen combine to form the College Choir.
- 122, CHAMBER ORCHESTRA 1 credit. Open to all students who can qualify.
- 123. YIKING BAND 1 credit. Open to all students with previous band experience.
- 126- INSTRUMENTAL ENSEMBLE 1 credit. Participation in small string and wind ensembles. String trio, quartet, brass, and woodwind ensembles are available for student participation. These groups find ample apportunity for performance on and off the campus.
- 127. VOCAL ENSEMBLE 1 credit. Participation in small vocal ensembles, such as trios, quartets, and madrigal groups. There is ample appartunity for these groups to perform at college functions and in the community.

- CONCERT CHORALE 1 credit, A selected group, Experience, vocal ability, reading skill, musicianship and interest in serious choral music are factors considered for membership.
- 222. SYMPHONY ORCHESTRA 1 credit. Open to all students who can qualify, Prerequisite: permission of the instructor.
- 223. WIND ENSEMBLE 1 credit. Open to all students who can qualify, Prerequisite: permission of the instructor.
- OPERA PRODUCTION 3 credits. The preparation and presentation of a major musical production.

DEPARTMENT OF PHILOSOPHY

Faculty

Professors: Daugert (Chairman), Jarrett.

Associate Professor: Karasan.
Assistant Professor: Fleetwood.

Instructor: Purtill.

Arts and Sciences

Concentrations

MINOR: 20 credits selected under departmental advisement.

Teacher Education

MINOR: 25 credits selected under departmental advisement but including two of the courses in the History of Philosophy 305, 306, 307, and one of the courses in Logic 102, 202, 302.

Courses In Philosophy

- 102. LOGICAL THINKING 2 credits. Signs, symbols, and language in human behavior; the detection of common fallacies, ambiguities, and vagueness; practice in defining. The course is designed to have a practical effect in improving the communication of meaning.
- 201. INTRODUCTION TO PHILOSOPHY 5 credits. Introduction to the great recurrent philosophical problems and some of the answers which have been developed through the ages.
- 202. INTRODUCTION TO LOGIC 5 credits. Rules of valid deduction from premises and of methods of formulating valid generalizations from experience with particular emphasis upon the methods of the sciences.
- 302. LOGIC AND COMPUTERS 2 credits. Prerequisite: Mathematics 101 or Philosophy 202. An examination of the use of digital computers to solve problems in symbolic logic. Attention is given to the structure of machines, programming, the kinds of problems that can be considered mechanically, and the utility of such procedures.
- 305. HISTORY OF PHILOSOPHY: ANCIENT AND MEDIEVAL 5 credits. Great philosophical thinkers from the early Greeks to the Middle Ages, with especial attention paid to Plato and Aristotle.
- 306. HISTORY OF PHILOSOPHY: RENAISSANCE AND MODERN 5 credits. Great philosophical thinkers from the late Middle Ages to the Enlightenment, with especial attention paid to Descortes and the rationalists and to Locke and the empiricists.

- 307. HISTORY OF PHILOSOPHY: THE NINETEENTH AND TWENTIETH CENTURIES 5 credits. Great philosophical thinkers from Kant to the present.
- 308. AMERICAN PHILOSOPHY 3 credits. Main currents in American philosophical thought from Jonathan Edwards to the present, with primary emphasis upon Emerson, Pierce, James, Royce, Dewey, and Santayana.
- 320. INTRODUCTION TO THE PROBLEMS OF ETHICS 3 credits. The meanings of such key concepts as "goodness," "rightness," "evil," "duty," and "happiness."
- 350. ORIENTAL PHILOSOPHY AND RELIGION 3 credits. An examination of some of the major philosophical and religious traditions of the Orient.
- 404. SEMINAR IN PHILOSOPHY 2-5 credits. Concentration for a full quarter upon the thought of an individual philosopher, such as Plato, or a particular school of thought, such as American Pragmotism.
- 405. AESTHETICS 3 credits Philosophical study of beauty and of the creation, appreciation, and criticism of works of art.
- 406. PHILOSOPHY OF LITERATURE 2 credits. The nature of literature, and the relation of its aesthetic to its moral and cognitive values.
- 408. PHILOSOPHY IN LITERATURE 3 credits. A consideration of the philosophical content in works of poetry, drama, and prose fiction. Such writers as Dante, Milton, Donne, Voltaire, Goethe, Dostoevsky, Hopkins, Ibsen, Lawrence, Mann, and Hesse will be considered. Summer 1962 only.
- 411. PHILOSOPHY OF SCIENCE 3 credits. Varying theories as to the nature, presuppositions, limitations, and interrelations of the sciences.
- 420. ETHICAL THEORY 3 credits. Critical analysis of writings of several major theorists in ethics—ancient, modern, and contemporary—and their treatment of ethical problems.
- 450. PHILOSOPHY OF RELIGION 3 credits. A study of the major religious concepts, such as "God," "immortality," and "freedom of the will," and some of the answers which have been proposed, historically and in our own times, to the problems which such concepts suggest.
- 460. PHILOSOPHY OF HISTORY 3 credits. A critical examination of the idea of history and the concepts and categories allied to it—process, permanence and change, couse, time, among others. Summer only.
- 483. SOCIAL CHANGE AND THE MORAL ORDER IN RECENT LITERATURE 4 credits Also offered as English 483 and Sociology 483.
- 515. PHILOSOPHY OF EDUCATION 3 credits. Critical analysis of theoretical positions in educational philosophy. The emphasis is on modern and contemporary discussions of educational theory. Seminor discussions. Also offered as Education 515.

DEPARTMENTS of

PHYSICAL EDUCATION, HEALTH EDUCATION, and RECREATION

Faculty

Men:

Associate Professors: Ciszek (Chairman), Lappenbusch, Lounsberry.

Assistant Professor: Tomaras.

Women:

Associate Professors: Aitken, Kilby, Weythman (Chairman).

Assistant Professor: Gutchow. Instructors: Arnett, Hansen.

The departmental programs encompass: (a) activity courses to meet general education requirements; (b) activity courses as electives; (c) professional study in fields of physical education, health education and recreational leadership; (d) intramural sports and dance; (e) intercollegiate athletics.

General Education Requirements

In contributing to the general education of the student, the required physical education program pravides: (1) a background of skills and knawledges in movement fundamentals; (2) vigorous activities to improve physical fitness, (3) an oppartunity to develop recreational skills and (4) an assurance of minimum swimming proficiency.

The student has the opportunity to choose activities within the framework of the required program (three credits) and is encouraged to elect additional courses after the requirement is satisfied. One caurse must be selected from each of the following to fulfill the requirement:

For Women:

Movement Fundamentals—P. E. 102w.

Aquatics*—1 credit selected from P. E. 112, 212, 214, 215, 216, 217.

Sports and Dance—1 credit selected from P. E. 122, 125, 132, 134, 136, 141w, 142w, 145w, 151w, 222, 225, 232, 236.

Women thirty years of age and over moy fulfill the above requirement, ar work out an individual plan of octivities under the guidance of the Wamen's Physical Education Department.

For Men:

Aquatics*—1 credit selected from P. E. 112, 113, 214, 215, 216, 217. Team Sport—1 credit selected from P. E. 142m, 143m, 144m, 145m, 146m, 147m, 280m, 281m, 282m, 289m,

Individual Sports and Dance—1 credit selected from P. E. 122, 125, 131, 132, 134, 136, 145m, 146m, 148m, 149m, 151m, 222, 225, 232, 236, 283m, 284m, 285m, 286m, 288m.

*Aquatics: A student who satisfactorily passes the aquatic test is exempt from the requirement and may select any other physical education activity.

Teacher Education

Concentrations

MAJOR. Physical Education (Women).

Physical Education 105, 302, 306, 320, 405.

One of the following sequences:

- a. Option A (To be accompanied by Health Science Minor.) Physical Education 101w, 103w, 122, 125, 151w, 212, 225, 305w, 342w, 341w or 343w, 351w, 402w and 404w. Recreation 201 and 250. Three credits under departmental advisement.
- b. Option B (General, with choice of minor.) Physical Education 101w, 103w, 305w, 342w, 341w or 343w, 351w, 404w, and Health Education 252 and 301, Zoology 241 and 243. One credit under departmental advisement.
- c. Option C (Dance, with choice of minor.) Physical Education 101w or 103w, 226, 228, 324, 325, 343w, 305w or 351w, 425. Philosophy 405, Zoology 241 and 243. Two credits under departmental advisement.

Participation in intramural sports, dance, professional organizations is desired.

MAJOR: Physical Education (Men)

P. E. 104m, 105, 201m, 202m, 203m, 302, 303, 306, 308m, 351m, 404m, 405, 490.

Health Education: 301.

Recreation: 412.

Zoology: 241.

MINOR: Physical Education (Men)

P. E.: 104m, 105, 201m, 202m, 203m, 306, 308m, 351m, 404m, 405.

MINOR: Physical Education (Women):

P. E. 101w, or 103w, 105, 151w, 305, 306, 320, 404w.

Health Education 252.

I credit in dance.

Select 3 additional credits from Physical Education 122, 125, 351w, 405;

Zoology 241, 243, strongly advised as electives.

MINOR: Health Science, See page 217.

MINOR: Recreation

P.E. 101w or 103w, 305, 306, 320; for men, 4 additional credits under departmental advisement.

Recreation 201, 250, 412, 450, 451, 452;

Industrial Arts: 301.

MINOR: Recreation (Men)

P.E. 306, 308m.

Recreation: 201, 250, 412, 450m, 451m, 452m.

Industrial Arts: 301.

4 additional credits under departmental advisement.

MINOR: Recreation (Women)

P.E.: 101w or 103w, 305w, 306, 320.

Recreation: 201, 250, 450w, 451w, 452w.

Industrial Arts: 301.

3 additional credits under departmental advisement.

Arts and Sciences

Concentrations

MAJOR: Recreation (Men)

P. E.: 105, 306, 308m, 320, 351m, 405.

Recreation: 201, 250, 412, 450, 451, 452.

Health Education: 252, 241.

Zoology: 241,

Industrial Arts: 301.

MAJOR: Recreation (Women)

P.E. 101w, or 103w, 105, 122, 131, 132, 133, 136, 151w, 212, 305w, 306, 308m,

320, 342w, 341w or 343w, 405.

Recreation: 201, 250, 412, 450w, 451w, 452w.

Health Education: 252.

Zoology: 241, 243.

Supporting Courses: Industrial Arts 301; Music 350; Speech 430; Psychology 261. 355, 440; Sociology 201.

MINOR: Recreation (Women)

P.E.: 101w or 103w, 305w, 306, 320.

Recreation: 201, 250, 450w, 451w, 452w.

Industrial Arts: 301.

3 additional credits under departmental advisement.

MINOR: Psysical Education: Dance

P.E. 121, 122, 125, 221, 222, 225, 226, 228, 320,

Philosophy 405.

6 additional credits selected under departmental advisement.

Intramural Sports and Dance

Intramural Sports (men) No credit. Opportunity far participation in the following seasonal sports: basketball, volleyball, swimming, tennis, softball, golf, badminton, flag football, toble tennis, bowling.

Intramural Sports (women) No credit. Opportunity far participation in regularly scheduled meetings and taurnaments in field hockey, volley-ball, basketball, swimming, gymnastics, tumbling, softball, tennis, badminton, archery, table tennis, golf, and bowling.

Dance (Men and Women) No credit. Opportunity for participation in madern dance and folk and square dance.

Mixed Recreation. The Physical Education Building is open on scheduled evenings for sports suitable for men and women. These include badminton, valleyball, table tennis, swimming.

Courses in Physical Education

- 101w. FALL TEAM SPORTS 2 credits, Majors and minors only. Knoweldge of rules and development of personal skills in soccer, speedball, speed-a-way, and basketball.
- 102w. MOYEMENT FUNDAMENTALS i credit. A course designed to develop fundamental mechanics of body movement and skill in basic rhythms.
- 103w. SPRING TEAM SPORTS 2 credits. Majors and minors only. Knoweldge of rules and development of personal skills in volleyball, field hockey, and softball.
- 104m. ATHLETIC INJURIES AND TRAINING (Men) 3 credits. Treatment for injuries common to the playfield, gymnasium, and athletic field; training and safety measures for the prevention of injuries, especially during exercise; procedures for building physical stamina; practical experience in taping procedures.
- 105. HISTORY OF PHYSICAL AND HEALTH EDUCATION AND RECREATION 3 credits. In addition to study of the historical backgrounds, this course aims to develop breadth and depth of understanding concerning the range of opportunities in the field, essential qualifications, and professional preparation.
- BEGINNING SWIMMING 1 credit.
 (a) For non-swimmers.
 - (b) For those students who cannot swim 25 yards and cannot support themselves in deep water.
- 121. BEGINNING SOCIAL DANCE 1 credit. Current bollroom dance steps.
- 122. BEGINNING FOLK AND SQUARE DANCE 1 credit. Basic folk dance steps and square dance patterns.

- 125. MODERN DANCE 1 credit. Techniques. Stress is placed on creativity.
- 131. ARCHERY 1 credit.
- 132. BADMINTON (Beginning) 1 credit.
- 133. BEGINNING BOWLING 1 credits. A charge of \$6.00 is poid at bowling alley,
- 134. FENCING 1 credit,
- 135. BEGINNING GOLF 1 credit.
- 136. BEGINNING TENNIS 1 credit. Student furnishes his own equipment.
- 137. BEGINNING SKIING 1 credit. Instruction in beginning techniques. Classes are held at Heather Meadows in the Mount Baker area. Students furnish their own equipment and pay cost of transportation.
- 138. SKI CONDITIONING 1 credit. An activity course to prepare the skier for participation. Exercises for leg and body control are included together with some of the fundamental ski positions. Students must furnish their own boots and skis.
- 141w. FIELD HOCKEY (women) 1 credit.
- 142m. BASKETBALL (men) i credit.
- 142w. BASKETBALL (women) 1 credit.
- 143m. SOFTBALL (men) ! credit.
- 143w. SOFTBALL (women) 1 credit.
- 144m. SPEEDBALL AND SOCCER (men) 1 credit.
- 144w. SPEEDBALL AND SOCCER (women) I credit.
- 145m. VOLLEYBALL (men) 1 credit. Techniques, skills, team strategy, and tournament play.
- 145w. VOLLEYBALL (women) 1 credit.
- 146m. BODY CONDITIONING (men) 1 credit. Calisthenics and conditioning exercises to develop body strength, coordination, flexibility and agility.
- 147m, TOUCH FOOTBALL 3 credit. Fundamentals and skills in touch football.
- 148m, WEIGHT TRAINING (men) 1 credit. A series of weight training exercises performed with barbells and dumbbells for the development of strength.
- 149m. BEGINNING WRESTLING 1 credit. Techniques of wrestling for the beginner.
- 151m. APPARATUS, STUNTS, AND TUMBLING (men) 1 credit. Basic skills on the side horse, parallel bars, horizontal bar, trampoline, and mats.
- 151w. GYMNASTICS, TUMBLING, AND REBOUND TUMBLING (women) 1 credit.
- 201m. FALL SPORTS 2 credits. Majors and minors only. The development of knoweldge and personal skills in football, soccer, and speed ball.
- 202m. WINTER SPORTS 2 credits. Majors and minors only. The development of knowledge and personal skills in basketball, volleyball, and wrestling.
- 203m. SPRING SPORTS 2 credits. Majors and minors only, The development of knowledge and personal skills in softball, tennis, badminton, and weight training.
- 212. INTERMEDIATE SWIMMING I credit,
 - (a) For those who have passed a course in beginning swimming.
 - (b) For those who can swim 25 yards and support themselves in deep water.

214. ADVANCED SWIMMING 1 credit.

- (a) For those who have passed a course in intermediate swimming.
- (b) For those who can swim 25 yards in reasonably good form using each of the following strokes: front crawl, breast stroke, back crawl, side stroke, and can swim 100 yards utilizing one of these strokes.
- 215. SYNCHRONIZED SWIMMING 1 credit. Prerequisite: advanced swimming or equivalent. Techniques in synchronized swimming with emphasis on choreography.
- 216. LIFE SAVING AND WATER SAFETY 2 credits. Instruction leading to qualification for the American Red Cross Senior Life Saving Certificate.
- 217. WATER SAFETY INSTRUCTOR'S COURSE 2 credits. Prerequisite: current American Red Cross Senior Life Saving Certificate. Methods for teaching swimming and life saving skills. Completion of this course qualifies the student as an American Red Cross Water Safety Instructor.
- INTERMEDIATE SOCIAL DANCE 1 credit. Prerequisite: 121 or equivalent. Ballroom steps for intermediate dancers.
- 222. INTERMEDIATE FOLK AND SQUARE DANCE 1 credit. Prerequisite: 122 or equivlent. Intermediate folk and square dances for secondary school and adult recreation groups. Opportunity is given for the student to practice calling.
- 225. INTERMEDIATE MODERN DANCE 1 credit. Prerequisite: 125 or equivalent. Intermediate dance techniques, group dance composition, and the cultural place of dance in society.
- 226. RHYTHMIC ANALYSIS 2 credits. Prerequisite: 125. Inherent factors of rhythms, the application of the rhythmic analysis to all forms of movement including sports, dance, aquatics, and stage techniques.
- 228. DANCE PRODUCTION 2 credits. Practical experience in formulating, developing, and presenting dance programs.
- DANCE COMPOSITION 2 credits. Individual and group creative work in dance forms and composition.
- 232. INTERMEDIATE BADMINTON 1 credit. Prerequisite: PE 132 or equivalent.
- 233. INTERMEDIATE BOWLING 1 credit. Prerequisite: P.E. 133 or equivalent. A charge of \$6.00 is paid at the bowling alley.
- 235. INTERMEDIATE GOLF 1 credit. Prerequisite: P.E. 135 or equivalent. Equipment is furnished by the student.
- 236. INTERMEDIATE TENNIS 1 credits. Prerequisite: P.E. 136 or its equivalent. The student furnishes his own equipment.
- 237. INTERMEDIATE SKIING 1 credit. Prerequisite: P. E. 137 or equivalent. Instruction in advanced skiing techniques. Classes are held at Heather Meadows in the Mt. Baker area. The student furnishes his own equipment and pays cost of transportation.
- 238. ADVANCED SKIING 1 credit. Prerequisite: P. E. 237 or equivalent. Advanced skiing techniques including parallel turns. Classes are held at Heather Meadows in the Mt. Baker area. The student furnishes his own equipment and pays cost of transportation.
- 280m, VARSITY FOOTBALL 1 credit.*
- 281m, VARSITY BASKETBALL (men) | credit.*
- 282m. VARSITY BASEBALL (men) 1 credit.*

^{*}Not more than one credit may be earned in any one varsity sport.

- 283m. VARSITY TRACK (men) ! credit.*
- 285m. VARSITY GOLF (men) 1 credit.*
- 286m. VARSITY TENNIS (men) 1 credit.*
- 287m. VARSITY \$KIING (men) 1 credit. Student pays cost of transportation.
- 288m. VARSITY SWIMMING (men) 1 credit.*
- 300. SPECIAL PROBLEMS IN THE AREA OF PHYSICAL EDUCATION 2 to 5 credits. Prerequisite: consent of the department chairman. For upper division students by conference arrangement with the instructor.
- 302. KINESIOLOGY 3 credits. Prerequisite: Zoology 241. Important muscles of the body, including origin, insertion, action, and structure; principles of body mechanics; analysis of leverage in body movements and problems of readjustment in relation to posture and physical activities.
- 303. PHYSIOLOGY OF MUSCULAR EXERCISE 3 credits. Prerequisite: Zoology 241. The physiology of muscular exercise as related to physical activities; the application of physiological facts to the problems of conditioning. This course includes a study of muscular efficiency, fatigue, recovery, chemical changes, and neuromuscular control with special reference to games, sports, and adaptive activities.
- 304m. PREVENTION AND REHABILITATION OF ATHLETIC INJURIES 3 credits. Prerequisite: P. E. 104m or consent of the instructor. An advanced course dealing with the origin, effects, and prevention of athletic injuries. Care of injuries, including techniques of taping, is stressed. Special emphasis is given to rehabilitation after injury. Offered summer session only.
- 305w. METHODS AND MATERIALS FOR TEACHING SPORTS (women) 3 credits. Pre-requisites: 101w, 103w, 131, 132, 133, 134, 136 or equivalent. Preparation for teaching individual and team sports to secondary school girls.
- 306. PHYSICAL EDUCATION METHODS AND MATERIALS FOR THE ELEMENTARY SCHOOL 3 credits. Prerequisites: Education 355. Physical Education activities desirable in an elementary school program and practice in the presentation of these activities.
- 308m. METHODS AND MATERIALS OF PHYSICAL EDUCATION FOR BOYS (men) 3 credits. Prerequisite: P.E. 105. A course stressing the selection of activities and appropriate methods of instruction for secondary school boys. Opportunity is given for actual teaching of these activities. Required of those majoring or minoring in physical education.
- 309. TEACHING OF INDIVIDUAL SPORTS 3 credits. Prerequisites: P.E. 131, 133, 135, 135, and 138 or equivalent. Methods and materials used in teaching archery, badminton, bowling, golf, and tennis.
- 320. METHODS AND MATERIALS FOR TEACHING DANCE 3 credits. Prerequisites: P. E. 121, 122, 125 or equivalent. Methods and materials used in teaching modern, folk, social, and square dancing.
- 322. INTERNATIONAL FOLK DANCE 1 credit. Prerequisite: P. E. 122 or equivalent. A survey of dances of foreign countries, including, Kolos, the hambo, and such steps as the woltz, polka, and schottische, Summer only.

^{*}Not more than one credit may be earned in any one varsity sport.

- 324. THEORY AND PRACTICE OF CONTEMPORARY DANCE TECHNIQUES 2 credits. Professional schools of modern dance technique. Modern ballet and progressive jazz are included to provide background in various styles.
- 325. CONCERT DANCE 1 credit. Prerequisites: P.E. 125 and 225 or equivalent. Group and individual experience in dance as a theatre art. Participation in the winter dance concert is included in the activities of the course.
- 341w, 342w, 343w. OFFICIATING WOMEN'S SPORTS 1 credit each. Officiating techniques of valleyball, basketball, tennis, track, and field.
- 348m, APPLICATION OF WEIGHT TRAINING TO PHYSICAL EDUCATION AND ATH-LETICS 2 credits. Application of progressive resistance exercises in physical education and coaching programs. Practical participation in selected exercises is included. Summer only.
- 351m. TEACHING GYMNASTICS (men) 1 credit. A course for physical education majors and minors with emphasis on beginning and intermediate performance skills. Opportunity is provided for each student to teach several basic stants and calisthenics.
- 351w. TEACHING OF GYMNASTICS, TUMBLING, AND TRACK AND FIELD (women) 2 credits. Prerequisites: P.E. 151w or equivalent. Methods and materials for elementary gymnostics, stunts, tumbling, and track and field for women.
- 380m. THEORETICAL FOOTBALL (men) 2 credits. A course in the theory and appreciation of football with methods and materials of organization. Special consideration is given to passing, blocking, tackling, formations, position play, styles, of play, and game tactics founded upon present day game rules.
- 381m. THEORETICAL BASKETBALL (men) 2 credits. A practical course in coaching of basketball. Consideration of passing, ball handling, screening, pivoting, shooting, styles of offense and defense, present-day rules, and rule changes.
- 382m. THEORETICAL BASEBALL (men) 2 credits. A course dealing with the coaching of baseball with special emphasis given to batting, pitching, fielding, position play, team offense and defense, and other technical and strategical procedures of play.
- 383m. THEORETICAL TRACK (men) 2 credits. A course in the theory of the various track and field events and material on organization and administration of a track meet.
- 384m. THEORETICAL WRESTLING 2 credits. A course combining the practical and theoretical aspects of teaching wrestling. Special consideration is given to wrestling skills, methodology, class organization, equipment and officiating.
- 400. SPECIAL PROJECTS IN PHYSICAL EDUCATION 2 to 5 credits. Prerequisites: senior status and consent of the instructor and department chairman. Individual instruction for students who wish to undertake special projects under supervision.
- 402w. TEACHING BODY MECHANICS AND MOYEMENT FUNDAMENTALS 3 credits. Methods and materials used in teaching body mechanics and movement fundamentals. It includes a study of relaxation, conditioning, and physical fitness for girls and women.
- 404m. ADMINISTRATION OF PHYSICAL EDUCATION IN SCHOOLS 3 credits. Pre-requisites: service courses in physical education (see Concentrations). A course aimed to give the student on understanding of the problems involved in the construction of a physical education program; a detailed study of the service, intramural, recreational, and athletic programs for secondary school boys.

- 404w. ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION FOR SECONDARY SCHOOL GIRLS 3 credits. Prerequisites: P.E. 105 and 305w. Criteria for the selection of activities, the organization of classes, the departmental personnel and policies, the physical plant and its upkeep, and the purchase and care of equipment for the physical education program.
- 405. PRINCIPLES OF PHYSICAL EDUCATION 3 credits. Prerequisites: P. E. 105, 306, and 305w, or 308m. Scientific and philosophical principles related to physical education; its purposes, scope and curriculum.
- 407w. SEMINAR IN GIRLS' PHYSICAL EDUCATION ACTIVITIES 3 credits. Prerequisite: teaching experience. Advanced study to extend the skills and understanding of activities which are used in girls' physical education. Summer only.
- 410w. EXTRA-CLASS ACTIVITIES IN PHYSICAL EDUCATION FOR GIRLS (women) 2 credits. Intramural programs, tournaments, play days, sports days, and G.A.A. for secondary school girls. Summer only.
- 425. HISTORY AND PHILOSOPHY OF THE DANCE 3 credits. A survey of the historical and philosophical development of the dance and its relation to other arts, from primitive man through the contemporary period.
- 430. ADVANCED TECHNIQUES AND TEACHING IN INDIVIDUAL SPORTS 3 credits. Prerequisite: P.E. 305 or teaching experience. Skills and game strategies. Emphasis is toward the development of both teaching and performance skills in individual sports.
- 490. TECHNIQUES FOR EVALUATING PHYSICAL ABILITIES 3 credits. Prerequisites: Education 371 and consent of the instructor. Application of measurement theory to physical education; the selection and administration of appropriate tests, and the interpretation of results of fundamental statistical pracedure. Emphasis is placed upon tests of physical fitness, body mechanics, sport skills and knowledge. Summer only.
- 498. STRAIGHT LINE PHILOSOPHY 3 credits. A classroom lecture, illustration, and discourse open to senior and graduate men and women with or without experience in athletics; study of the administration of human conduct in activities on straight line enclosures.
- 499. PHYSICAL FITNESS AND THE PUBLIC SCHOOL 3 credits. Prerequisite: senior or graduate status or teaching experience. The organization and development of physical fitness programs in the public schools; practical considerations in instruction and administration. Summer only.
- 500. PROBLEMS IN PHYSICAL EDUCATION 2 to 5 credits. For teachers with experience in physical education. Controversial issues in the field. Attention is given to the professional problems which are pertinent to the individual members of the group.
- 502. DEVELOPMENTAL AND ADAPTED PHYSICAL EDUCATION 3 credits. Prerequisites: Zoology 241, P.E. 302 and P.E. 402, Development of programs of adapted activities for the low fitness and handicopped elementary and secondary school student, with emphasis on common postural deviations, screening techniques and adapted activities.
- 503. PHYSICAL EDUCATION EQUIPMENT AND FACILITIES 2 credits. Design and construction of gymnasiums and other facilities for the physical education program, and the purchase and care of athletic and physical education equipment. Summers only.
- 504. CURRICULUM IN PHYSICAL EDUCATION 3 credits. A study of physical education programs based on the needs of boys and girls in American schools. Emphasis is given to the underlying principles and procedures of curriculum construction and their practical application in constructing a curriculum for specific situations.

Courses in Health Education

- 252. FIRST AID 2 credits. First aid for common injuries and illnesses based on the American Red Cross standard and advanced first aid courses. Students who qualify receive American Red Cross certificates.
- 301. HEALTH EDUCATION IN THE PUBLIC SCHOOLS 3 credits. Methods and Materials. Special consideration is given to basic principles of health councils, and to the study and evaluation of source material.
- 352. THE FIRST AID INSTRUCTOR 1 credit. Prerequisite: Health Ed. 252 or α current advanced Red Cross First Aid certificate. Instruction leading to qualification for the American Red Cross First Aid Instructor's Certificate. Minimum age, 20 years.
- 400-1. WORKSHOP: HEALTH EDUCATION IN THE PUBLIC SCHOOLS 5 credits. Prerequisite: teaching experience. This course provides wide latitude for individual
 endeavor in dealing with problems of health education; teaching, administration,
 and coordination with the total school program. The course is best suited for
 those who have had a background of experience in the field.
- CURRENT INFORMATION ON HEALTH EDUCATION 1 credit. Lectures on the newest materials and discoveries in health education. Summer only.
- 500. PROBLEMS IN HEALTH EDUCATION 2-5 credits. A course designed to meet the needs of the graduate student concerned with a special problem in the field of health education.

Courses in Recreation

- 201. RECREATION LEADERSHIP 2 credits. Skills and leadership techniques for leaders of school, playground and community recreation stressing use of materials and methods in various areas of recreational activities.
- 250. CAMPING AND OUTDOOR EDUCATION 3 credits. Organization and program in private, agency and school camps. Qualifications and responsibilities of the camp counselor, and practical work in camping techniques are considered.
- 412. ORGANIZATION AND ADMINISTRATION OF SCHOOL AND COMMUNITY RECREATION 3 credits. Prerequisites: Rec. 201, 250. Development of program for
 school and community recreation including personnel, finance, facilities, and octivities. Opportunity is given for observation of playground and recreational activities.
- 450m or w, 451m or w, 452m or w. FIELD WORK IN RECREATION I or 2 credits each. Prerequisites: P. E. 306, Rec. 201, 412. Practical experience in a community recreation program. Hours are arranged with the instructor prior to enrollment.
- 500. PROBLEMS IN RECREATION 2 to 5 credits. A course for experienced recreation leaders with opportunity for individualized study of problems growing out of their professional experience.

DEPARTMENT OF PHYSICS

Faculty

Professor: Bender.

Associate Professors: Lahti, McLeod (Chairman).

Assistant Professors: Dittrich, Lindsay.

Instructor: Thayer.

Program Planning

A major in physics may qualify a student far teaching, for graduate study, or for professional work in industry. For those students contemplating graduate study or work in industry, the physics major in the Arts and Sciences program is recommended. Students planning to transfer to other institutions in programs of study which require a year of physics should consult the catalogues of those institutions to determine whether they should take physics sequence beginning with Physics 131 or that beginning with Physics 231.

Physics Major

Regular					Advanced Placement					
		Fall		Winter	Spring Fall		W	/inter	5	pring
	First	Math.	101	102	103	Math.	103,	201		202
	Year	Chem.	121	122 (r	ecom-	Phys.		231		232
	mended)				Chem. 121 (recommended)					
						Math	203,	331		332
	Second	Math.	201	202	203	Phys.	233,	381		
	Year	Phys.	231	232	233	Phys		351		352
		•				,		361	or	362

Teacher Education

Students planning to teach in the elementary or junior high school should note that the general science major or minor is recommended. Those students should note that Physics 131 is designed for them. (See the pragram requirements in general science.) The physical science major cambined with the mathematics minor is recommended for the student planning to begin his teaching in the small high school. (See pragram requirements in Physical Science.) The upper division courses in these areas are available under advisement for students working toward the Moster of Education degree or the fifth year program.

Concentrations

MAJOR:

General Science 405 or 406 in lieu of General Education 101.

Physics 231, 232, 233 (or 131, 132, 133), 341, 355, 381.

Physical Science 492.

Additional credits to total 45, not including General Science 405.

Supporting courses: 18 credits in Mathematics (26 recommended).

MINOR:

For Science majors, Physics 131 or 231 in lieu of General Education 101.

For others, General Science 405 in lieu of General Education 101.

Physical Science 492.

Physics 131, 132, 133 (or 231, 232, 233), and 381.

Additional courses to total 25, not including the course substituted for General

Education 101.

Supporting courses: 18 credits in Mathematics.

Arts and Sciences

Concentrations

MAJOR:

General Science 405 in lieu of General Education 101.

Physics 231, 232, 233, 341, 342, 343, 355, 356, 357, 381, 431.

Additional courses in Physics to total 50, not including the course substituted for General Education 101.

Supporting courses: 32 credits in mathematics, including Mathematics 101, 102, 122, 223, 331, 332.

MINOR: (for science majors)

Physics 231 in lieu of General Education 101.

Physics 232, 233, 341, 355, 381.

Additional courses in Physics to total 25 credits, not including the course substituted for General Education 101.

Supporting courses: 18 credits in mathematics.

MINOR: (for students not majoring in the sciences)

General Science 405 in lieu of General Education 101.

Physics 231, 232, 233, 341, 355, 381.

Additional courses in physics to total 25 credits, not including the course substituted for General Education 101.

Supporting courses: 18 credits in Mathematics.

Courses in Physics

- 131. INTRODUCTION TO EXPERIMENTAL PHYSICS 5 credits. Prerequisite: 1½ years of high school algebra or Mathematics 100 or 151. Classical topics from light, sound, electricity, magnetism, mechanics and heat are introduced. Those concepts are included which can be experimentally related.
- 133. GENERAL PHYSICS 5 credits. Prerequisite: Physics 131. Physics 132 unifies the ideas of motion and fields. Physics 132 is a prerequisite for Physics 133. Physics 133 unifies the ideas of sound, light electromagnetism through the concept of waves.
- 155. ELEMENTARY ELECTRONICS 2 credits. Prerequisite: 1½ years of high school algebra or Mothematics 100 or 151. Principles of electron tubes and electrical circuits. Emphasis is placed on construction of simple circuits.
- 231, 232, 233. GENERAL AND ENGINEERING PHYSICS 5 credits each. Prerequisite: Mathematics 222 taken before or concurrently with Physics 231. Basic concepts of physics using mathematics into the calculus. The theoretical structure of the subject follows a chain of logical development from particle mechanics in (231) into thermodynamics, wave motion, and the kinetic theory of matter (232) and through the principles of electricity, magnetism and light in (233).
- 300. PROJECTS IN PHYSICS 1 or 2 credits. Prerequisite: 15 credits in physics and the consent of the instructor. Projects under supervision.
- ATMOSPHERIC SCIENCE 3 credits. Prerequisite: 1 year of college physics.
 Principles necessary for the understanding of meteorology, utilized in weather
 analysis and forecasting.
- 322. ATMOSPHERIC SCIENCE 3 credits. Prerequisite: Physics 321. Principles necessary for the understanding of local and extra-terrestrial pollutants.
- 341, 342, 343. ANALYTICAL MECHANICS 3 credits each. Prerequisite: Physics 233, Mathematics 222 for Physics 341; and Mathematics 331 for 342. Vector treatment of the basic principles of particles mechanics, including statics of rigid bodies, dynamics of particles, the theory of small vibrations and the continuous theory of matter. Introductions to the special theory of relativity and to the Lagrangian and Hamiltonian formalisms are included.
- 351, 352. OPTICS AND SPECTROSCOPY 3 credits each. Prerequisite: Physics 233 and Mathematics 224. Physical Optics and introduction to the classical theory of radiation, X-rays, and atomic spectroscopy. Laboratory work is included.
- 355, 356, 357. ELECTRICITY AND MAGNETISM 3 credits each. Prerequisite: Physics 233, Mathematics 222 for Physics 355. Mathematics 331 is an additional prerequisite for Physics 356 and 357. Elementary treatment of the classical theory of fields. Basic principles of electrostatics, potential theory, magnetic properties of matter, electric currents and associated magnetic and electric fields. Maxwell's field equations and propagation of plane and spherical electromagnetic waves are studied. Introduction to microwave theory and laboratory work is included.
- 361, 362. THERMODYNAMICS 3 credits each. Prerequisites: Physics 233 and Mathematics 224 or permission for Physics 361; Physics 361 and Mathematics 331 for Physics 362. Presentation of laws of thermodynamics, kinetic theory, classical statistical mechanics.
- 371, 372. ELECTRONICS 3 credits each. Prerequisites: Physics 233 and differential and integral calculus or permission. Physics 371, prerequisite for Physics 372. Physics of electron devices, basic electronic circuits and technique of construction.
- 381. ATOMIC PHYSICS 3 credits. Prerequisite: Physics 133 or 233 or equivalent, Mathematics 222. Fundamental concepts of atomic systems up to the Schroedinger theory. Experimental bosis of the quantum theory from contributions of noted scientists in the early port of the twentieth century. The course is offered for a wide range of students in the arts and sciences and for students in teacher education programs who wish to study the atomic and electrical structure of morter.

- 398. LABORATORY INSTRUCTION 1 credit each quarter, maximum of three credits Loboratory assistance and instructional practice in 131, 132, 133 and 231, 232, 233 laboratories.
- 399. SEMINAR IN PHYSICS I credit. Prerequisite: 25 credits in Physics and permission of the instructor. Credit allowed only to students who participate in the presentation of papers.
- 400. PROJECTS IN PHYSICS 1 to 3 credits. Prerequisite: permission of the instructor. Special projects under supervision.
- 408, 409. FOUNDATIONS OF PHYSICS 3 credits. Prerequisite: A year of physics, and General Science 405. 407 is prerequisite for 408. Analysis of the development of concepts from the Greek to the present. Special emphasis is placed upon the analysis of the controversies of physics and the theories which evolved from these controversies. Physics 407 includes the content from the Greek through the 18th century. Physics 408 covers the 19th and 20th centuries.
- 431, 432, 433. PHYSICS SENIOR LABORATORY 2 credits each. Experimentation in electricity and electrical circuits, aptics, atomics, X-ray spectroscopy, radioactivity and nuclear physics.
- 481, 482, 483. INTRODUCTION TO QUANTUM MECHANICS 3 credits each. Pre-requisites: Physics 343, 352, 357, 381; Mathematics 331, 332. The elementary theory of quantum mechanics including particles and waves, the Schroedinger theory, perturbation theory, multielectron atoms, magnetic moments, spin and relativistic effects, identical particles and the Pauli principle, X-rays, collision theory and an introduction to nuclear physics.
- 485, 486, 487. INTRODUCTION TO THEORETICAL PHYSICS 3 credits each. Pre-requisites: Physics 343, 357; Mathematics 331, 332. Basic mathematical tools needed by the theoretical physicist, classical continuum theory of matter, Laggrangian and Hamiltonian formalisms, statistical mechanics, phase space, variational methods in mechanics, the theory of linear transformations, the theory of fields, relativity theory, and applications of partial differential equations.
- 498. RESEARCH PROJECTS IN PHYSICS 6 credits. Prerequisite: permission of the instructor. Investigation of a problem in physics under the sponsorship and supervision of a member of the physics faculty. An acceptable written report of the project is required together with a presentation of the report at a physics seminar. Project must extend over a minimum of two quarters with credit granted after presentation of the seminar.
- 531, 532. SOLID STATE PHYSICS 3 credits each. Prerequisite: 45 credits in physics. Properties of solids from the first principles, and the experimental basis of the modern theory of solids.
- 551, 552. NUCLEAR THEORY 3 credits each. Prerequisite: 45 credits in Physics, Theory and experimental basis for the structure of the atomic nucleus and nuclear properties and reactions.
- 571, 572. ELECTROMAGNETIC THEORY 3 credits each. Prerequisite: 45 credits in Physics. General properties of vector fields, electromagnetic field equations, and boundary value problems. Topics in wave propagation are studied.
- 581; 582. QUANTUM THEORY 3 credits each, Prerequisite: 45 credits in Physics including 483 and 487. Advanced concepts in quantum theory including matrix formalism, quantization of the electromagnetic field, the Dirac theory of the electron, the interaction of radiation with matter.
- 591, 592, 593. RELATIVITY THEORY 3 credits each. Special relativity mechanics and electrodynamics in the first quarter; design theory of high-energy particle accelerators, including all types, in the second quarter; general relativity theory including planetary motion, electrodynamic formulations, and brief reviews of the status of unified field theories in the third quarter.

DEPARTMENT OF PSYCHOLOGY

Faculty 1

Professors: Freehill, Harwood (Chairman).

Associate Professors: Adams, Blood, Budd, Etzel, E. Jones, Mason, Nugent.

Assistant Professors: Crow, Elich, Lindhalm, MacKay, McQuiston.

A major in psychology is the first step toward any of a number of professional opportunities. In addition to college teaching and research, these include personnel work in industry and government, vocational and personal guidance in schools and calleges, and clinical wark with either children or adults in guidance clinics, juvenile and criminal courts, and mental hospitals including Veterans Administration haspitals. Nearly all of these positions require graduate work in a university leading to the M.A. or the Ph.D. degree. The function of the program in the Arts and Sciences Division is that of preparing the student for later graduate work in the field.

The undergraduate mojor in psychology should be supported by a well-rounded background in all the mojor fields of knowledge with particular emphasis upon sociology and the biological sciences. Students who plan eventually to work toward the Ph.D. degree should gain a reading knowledge of French and German during their undergraduate years.

Students whose average falls below "B" are not usually advised to continue in the field of psychology.

Teacher Education

Students majoring in education are required to take Psychology 261, 355, 371, 451 (Psychology 455 is equivalent to Psychology 261 and 451).

Concentrations

FIELD MINOR: Fifteen credits under advisement in addition to courses in psychology taken as part of the program of general and professional education.

Arts and Sciences

Concentrations

MAJOR:

Psychology 201, 373, 474, 405 and 17 credits from the following: 302, 355, 402, 406, 407, 408, 409, 440, 452.

Six credits in electives in phychology.

Supporting courses: Sociology 201; Philosophy 201; and at least one of the following sequences:

- a. Chemistry 121, 122, 251
- b. Chemistry 125, 251 and one course from a sequence listed below
- c. Physics 131, 132, 133
- d. Math 101, 102
- e. Either Zoology 248, 249 or Zoology 261, 262, together with one of the following: Biology 301, Biology 371, Zoology 363, Zoology 366.

Recommended: At least one year of a foreign language. Philosophy 411; upper division courses in mathematics, and the physical, biological, or social sciences.

MINOR: Psychology 200 or 201; additional credits in psychology to total at least 20 credits selected in consultation with a departmental advisor.

Courses In Psychology

(Note: Courses in Educational Psychology are listed following those in Psychology.)

- 201. GENERAL PSYCHOLOGY 4 credits: Prerequisite: General Education 105 or permission of the instructor. (Not open to students who have taken Psychology 200.) Experimentally oriented study of the basic psychological concepts.
- 261. THE PSYCHOLOGY OF ADJUSTMENT 3 credits. Prerequisite: Psychology 200 or General Education 105. Adjustments in normal human life. Typical problems and reactions are considered. The development of personality and its relation to the adequacy of adjustment is studied.
- 302. COMPARATIVE PSYCHOLOGY 3 credits. Prerequisite: Psychology 200 or 201. (Not open to students who have had previously listed Psychology 305). Application of evidence generated from the laboratory experiments and the ethological studies of animal behavior to general psychology. Particular emphasis is given to study of the sensory processes, motivation, and fearned and unlearned behavior.
- 320. INDUSTRIAL PSYCHOLOGY 3 credits. Prerequisite: Psychology 200 or 201 or 261. (Not open to students who have had previously listed Psychology 220). Application of psychological principles to such industrial problems as personnel selection and appraisal, human relations, marketing, training and engineering psychology.
- 373. ELEMENTARY STATISTICAL METHODS IN EDUCATION AND PSYCHOLOGY 5 credits. Prerequisite: permission of the instructor: Statistical procedures for educational research. Emphasis is given to the criticism of evidence, the design of simple studies, and the basic techniques of statistical inference. The course is concerned with informed reading as well as with the application of statistics to original research. Also offered as Education 373.
- 400. SPECIAL PROBLEMS 1-3 credits. Prerequisite: consent of the instructor. This course is available to advanced students who wish to investigate, with consultation, special problems in the field of psychology.

- 402. MOTIVATION 3 credits. Prerequisite: 3 courses in psychology. Experimental findings, and theoretical interpretations of the biological, psychological, and social aspects of motivation.
- 405. RECENT PSYCHOLOGICAL LITERATURE 3 credits. Prerequisite: twenty credits in psychology. Recent research and writings in the field of psychology. Use is made of the Psychological Abstracts, the various psychological journals, and of significant recent books in the field. This course is required of psychology majors and may be elected by graduate students in education.
- SYSTEMATIC PSYCHOLOGY 3 credits. Prerequisite: fifteen credits in psychology-Examination and evaluation of the various contemporary viewpoints in psychology.
- 407. SENSATION AND PERCEPTION 3 credits. Prerequisite: Psychology 201. An experimentally oriented course emphasizing the sensory processes and the necessary stimuli to perception. Perceptual theory, classical and contemporary, is considered.
- 408. THE PSYCHOLOGY OF LEARNING 5 credits. Prerequisite: Education or Psychology 355, or permission of instructor. The major principles and theories of learning.
- 409. PHYSIOLOGICAL PSYCHOLOGY 5 credits. Prerequisites: Zoology 141 and 143, or 243; Psychology 201 and 10 additional credits in psychology. The neural basis of behavior.
- 440. SOCIAL PSYCHOLOGY 3 credits. Prerequisites: ten credits in psychology or Psychology 200 or 201 or 261 and five credits in sociology. The psychology of human institutions with special reference to the impact on individual behavior.
- 452. THEORY OF PERSONALITY 5 credits. Prerequisite: thirteen credits in psychology. Theoretical approaches to personality. Major philosophic assumptions, historical position, and experimental data are considered in evaluating personality theories.
- INDIVIDUAL DIFFERENCES 3 credits. Behavioral differences found among individuals. Summer only.
- 457. PROGRAMMED LEARNING 2 credits. Principles and theories of learning upon which programmed learning (teaching machines, automated teaching) is based. The major types of programming are examined.
- 475. EXPERIMENTAL PSYCHOLOGY IN PUBLIC SCHOOL SCIENCE INSTRUCTION 3 credits. Prerequisite: Permission of the instructor. Discussion and demonstration of the major findings, reference materials, and methods of investigation in such areas of basic psychology as learning, motivation, perception, and animal behavior which are appropriate for inclusion in public school science courses. Enrollment is limited to ten students. Summer only.
- 464. ABNORMAL PSYCHOLOGY 3 credits. Prerequisite: Psychology 261 or 455, or permission of the instructor. Psychoses, neuroses, and other forms of behavior deviation; conceptions regarding these conditions.
- 466. THE BRIGHT AND GIFTED CHILD 3 credits. Prerequisite: teaching experience or permission of the instructor. A study of identification procedures, curriculum, and teaching methods suited to the education of children with superior and special abilities.
- 474. EXPERIMENTAL PSYCHOLOGY 5 credits. Prerequisite: Psychology 200 or 201, 373, and permission of the instructor. Experimental techniques employed in psychology; participation in conducting experiments and in the interpretation of data.

- 491. PSYCHOLOGY OF OCCUPATIONS 3 credits. Prerequisite: Psychology 431 or permission. Psychological and social factors in occupational choice. The course presents research and theory on occupational choice as background for counseling. Sources of occupational materials are reviewed. Interest and aptitude tests for occupational counseling are evaluated.
- 500- SPECIAL PROBLEMS 1-3 credits. Prerequisite: graduate status and consent of the instructor. This course is available to advanced students who wish to investigate, with consultation, special problems in the field of psychology.
- 531. SUPERVISED PRACTICE IN GUIDANCE AND COUNSELING 3 credits. Prerequisite: Psychology 431 and 572. Examination and practice under supervision of various guidance and counseling techniques including the use of psychological test case studies, and conferences.
- 533. THEORY AND TECHNIQUES OF INTERVIEWING 3 credits: Prerequisite: permission of the instructor. A study of psychological and social factors in interviewing with laboratory apportunities for the development of interviewing skills. Theoretical foundations of different approaches to interviewing, special techniques available, and research methods for evaluating interviews are critically reviewed.
- 537. READING AND CONFERENCE IN COUNSELING 1 credit. Discussion and readings related to ethics and current problems in counseling. These are directed toward establishing a critical and informed professional worker. Summer only,
- 548. FIELD INTERNESHIP IN COUNSELING 0-3 credits. Prerequisite: Psychology 578 and aproval of the department. This provides for an academic year of college-supervised work in counseling. Arrangements must be made in cooperation with the school administration involved.
- 555. ADVANCED CHILD PSYCHOLOGY 3 credits. Prerequisite: Educational Psychology 355 or equivalent. A study of the most significant research and theory in the field of child development and behavior.
- 556. PSYCHOLOGY OF ADOLESCENCE 3 credits. Prerequisite: Educational Psychology 355 or equivalent. Advanced study of developmental characteristics, behavior problems, personal and social adjustments of children and youth, with implications for secondary education and guidance programs.
- 572. INDIVIDUAL TESTING 5 credits. Prerequisite: Psychology 373 or permission of the instructor. Open to senior psychology majors by permission of the instructor. Theory and principles underlying the construction of individual intelligence tests together with supervised practice in the administration of some of the most important of these tests.
- 575. STATISTICAL INFERENCE FOR EDUCATION AND PSYCHOLOGY 3 credits. Pre-requisite: Psychology 373. Open to senior psychology majors by permission of the instructor. Advanced statistical methods with emphasis on the statistical inferences that may be drawn from the analysis of research data. Also offered as Education 575.
- 577. ADVANCED APPRAISAL TECHNIQUES 3-5 credits. Prerequisite: Psychology 572. Open to senior psychology majors by permission of the instructor. A consideration of approaches to measurement with special attention to value and limitations of objective and observational aptitude, interest, and personality measures. The student manipulates sample instruments under laboratory conditions.
- 578. ADVANCED CLINICAL PRACTICUM 3-5 credits. Prerequisite: Psychology 577 and permission. Diagnostic and interpretative work using a variety of techniques as a team member in a central and responsible role with several complete cases. Summer only.

Courses In Educational Psychology

- 355. HUMAN GROWTH AND DEVELOPMENT 4 credits. Prerequisites: Psychology 200 or 201 or 261, and Biology 104 or equivalent. Physical, social, and emotional growth and development from birth to adulthood. Emphasis is placed upon the implications of facts and principles for curriculum content and classroom procedures.
- 371. EVALUATION IN THE PUBLIC SCHOOL 3 credits. Prerequisite: junior status. Basic ideas and practices in evaluating pupil achievement. Emphasis in on how to construct instruments for best determining what a student has learned, how well he has achieved, and how much he has developed. The use of standardized tests is also considered.
- 431. INTRODUCTION TO GUIDANCE AND PSYCHOLOGICAL SERVICES 3 credits. Prerequisite: 15 hours of psychology and senior status. The rales of the teacher, principal, psychologist, counselor, and other specialists in an integrated program are discussed. Guidance and counseling techniques are examined. Professional problems and trends are studied.
- 451. PRINCIPLES OF HUMAN LEARNING 3 credits. Prerequisites: Education or Psychology 355 and Education 392. (This course and first student teaching may be taken concurrently.) This course is concerned with application of the psychological principles of learning to classroom teaching.
- 466. THE BRIGHT AND GIFTED CHILD 3 credits. Prerequisite: teaching experience or permission of the instructor. Identification procedures, curriculum, and teaching methods suited to the education of children with superior and special abilities.
- 471. THE USE OF STANDARDIZED TESTS IN THE SCHOOL 3 credits. Prerequisite: Education 371 or permission of instructor. A course designed to acquaint the classroom teacher, the administrator, and all special services personnel with the various standardized groups tests which are commonly used in the public schools. Emphasis is placed upon problems involved in the selection of tests, in their administration, and in the interpretation of norms.
- 535. PRINCIPLES AND ORGANIZATION OF PSYCHOLOGICAL SERVICES 3 credits. Prerequisite: Psychology 431. The philosophy underlying specialized psychological services for the schools and an examination of organizational patterns and operating practices. Summer only.
- 536. FOUNDATIONS FOR PSYCHOLOGICAL SERVICES 3 credits. Guiding principles for psychological work in the schools through the study of social conditions, learning theory, and personality theory as these are related to specialized techniques and procedures. Summer only.
- 551. SEMINAR IN PUPIL ADJUSTMENT 3 credits. Prerequisites: graduate status and teaching experience: Problems of personal and social adjustment in the teaching and learning situation. Students examine the principles of psychological adjustment in relation to the classroom. Attention is given to the evaluation of research with a view to its practical application.

INTERDEPARTMENTAL OFFERINGS in

SCIENCE

(General Science, Science Education, and Health Science)

General Science

Concentrations

For advisement or approval, the student should consult the Chairman of the Department of Bialogy.

MAJOR (Elementary)

Physics 131 (Required undergraduate study)

Geology 211, 311 (Required undergraduate study)

Biology 204 (Required undergraduate study)

Physical Science 105 and/or Geography 331

One of the following: Geology 306, 412, 413, 414

3 to 8 credits from Biology 240, 301; Botany 253; Zoology 263, 264, 266

Additional electives under advisement to total 45 credits, with a minimum of 11 credits in each area of Physical, Biological, and Geological studies.

Undergraduate study will include at least 28 credits. Study during the Fifth Year will include completion of Physical Science 382, Biology 383, and Geology 384.

MAJOR (Junior High School)

General education requirements in the sciences:

General Education 101 or Chemistry 121 or 125

Biology 104

General Education 102 and 105.

In addition to the General Education requirements in science, 45 credits selected under advisement, to include:

Physical Science 492

Biology 493

25 credits in one field of concentration (Bialogy or Geology)

15 credits in a second field (Biology or Geology)

The Physical Science minor of 25 credits (with possibility for electives in Mathematics) is recommended for students taking the General Science Mojor. It is unlikely that the student will be recommended for a General Science pasition in the Junior High Schaol unless the Physical Science minor accompanies the above General Science Major.

Courses

405. HISTORY OF SCIENCE 3 credits. Prerequisite: 30 credits of biological and/or physical science. Recommended for all science majors and required of those who have been excused from General Education 101 or Biology 104. A seminar in the nature, methods, and development of science and the role of science in society.

Health Science

Concentration

MINOR: (recommended for physical education majors).

Home Economics 250; Zoology 241, 243; Biology 447; Health Education 252, 301.

Five credits from: Biology 245, 371; Zoology 261.

Physical Science

Concentration

MINOR (Junior High School)

For advisement and approval the student should consult with the instructor of Physics 131 (See Class Schedule).

General education requirements in the sciences:

General Education 101 or Chemistry 121 or 125

Biology 104

General Education 102, 105.

25 credits in physical science or mathematics selected under advisement.

Courses

- 105. INTRODUCTION TO ASTRONOMY 3 credits. Prerequisite: high school physics or Physical Science 101 or equivalent. The solar system and its origin, the stars and their apparent and real motion, and Internal processes. The concepts of gravitation, curved space, and relativity of space and time are considered.
- 382. PHYSICAL SCIENCE FOR THE ELEMENTARY SCHOOL 3 credits. Prerequisite: science general education requirements or equivalent. The teaching of the physical sciences in the elementary grades. Emphasis is placed upon the use of experiments, demonstrations, and readings to achieve selected objectives. Previously listed as Science Education 482.
- 492. PHYSICAL SCIENCE FOR THE JUNIOR AND SENIOR HIGH SCHOOL 3 credits. Prerequisites: 15 credits of chemistry or physics. An examination of the content, materials, and methods of teaching general physical science, physics, and chemistry in the junior and senior high schools.

Science Education

- 431. EQUIPMENT CONSTRUCTION 3 or 5 credits. Prerequisite: one year of college physics and permission of the instructor. For persons interested in physics teaching. Analysis of basic principles and concepts in physics and the construction of demonstration equipment which illustrates these principles. Opportunity is provided to learn the design, care, and adjustment of apparatus. Instruction in the use of construction tools is provided. Lectures, readings, laboratory and shop work are included.
- 480. SPECIAL PROJECTS IN SCIENCE FOR THE ELEMENTARY SCHOOL 2 to 5 credits. Prerequisites: consent of the instruction and General Education 102, Biology 104, and one course for the Elementary School, or teaching experience. This course is available to a few students who wish to undertake special projects under supervision.
- 490. SPECIAL PROJECT IN SCIENCE TEACHING IN THE JUNIOR AND SENIOR HIGH SCHOOL 2 to 5 credits. Prerequisite: permission of the instructor and Science Education 492 or 493. Special projects under supervision.
- 500. SPECIAL PROJECTS IN SCIENCE 2 to 5 credits. Prerequisites: graduate standing and consent of the instructor. Special projects under supervision.
- 501. DEVELOPMENT OF A SCIENCE PROGRAM IN THE PUBLIC SCHOOLS 3 to 5 credits. For the guidance of principals, superintendens, supervisors, and teachers interested in developing a comprehensive program of science for their respective school systems. Selection and organization of materials and experiences that will permit the child to develop in his mastery of skills, in his discovery of facts and principles of science, and in his formation and understanding of science projects.
- 580. SPECIAL PROBLEMS IN SCIENCE TEACHING IN THE ELEMENTARY SCHOOL 2 to 5 credits. Prerequisites: teaching experience and consent of the instructor. The relationship of science experience to the program of the elementary school. The course provides opportunity for teachers to work with problems concerning content, utilization of community resources, materials of the environment, development of special areas for instruction, integration with other activities in the school program, and with arganization of courses of study.
- 582. IMPROVEMENT OF SCIENCE INSTRUCTION IN THE ELEMENTARY SCHOOL 2 to 5 credits. For teachers, consultants, and administrators. Current thinking and practice relative to the science program of the elementary school. Opportunities are provided for developing science programs for a particular school system and for reorganizing science instruction to improve the education of children.
- 590. SPECIAL PROJECTS IN SCIENCE TEACHING IN THE JUNIOR AND SENIOR HIGH SCHOOL 2 to 5 credits. Prerequisite: permission of the instructor and teaching experience. Special projects under supervision.
- 592. IMPROVEMENT OF SCIENCE INSTRUCTION IN THE JUNIOR AND SENIOR HIGH SCHOOL 2 to 5 credits. For teachers, consultants, and administrators. Current thinking and practice in the teaching of science at the junior and senior high school levels. Opportunities are provided for developing a science program to meet the needs and circumstances of a specific school situation.

INTERDEPARTMENTAL PROGRAMS in

SOCIAL STUDIES EDUCATION

Concentration

MAJOR: (Junior High School)

For advisement or approval, students should consult the instructor of Social Studies Education 426. See Schedule of Classes.

In addition to the social studies course requirements in the program of general education, 45 credits should be selected as follows:

Required courses:

Courses	Credita
Geogrophy 201	3
Geography 311, 313, 314, 315, or 316	
History 203 and 204	10
Sociology-Anthropology 201	5
Government 250 or Economics 201	5
Social Studies Education 426	3
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	31

Courses under advisement:

The remaining 14 credits will be concentrated in one of the following fields: Geography, History, or Sociology-Anthropology.

MAJOR: (Elementary)

Undergraduate:

History 203, 204; Geography 201, 311; Sociology-Anthropology 201; Government 250 or Economics 201.

Fifth Yeor:

Seventeen additional credits under advisement in one of the following three fields: Geography, History or Sociology-Anthropology.

Courses

- 425. SOCIAL STUDIES FOR THE ELEMENTARY SCHOOL 3 credits. Special attention is given to the incorporation of social science concepts in the social studies program.
- 426. SOCIAL STUDIES FOR THE SECONDARY SCHOOL 3 credits. Choice and adaptation of materials of instruction to the junior and senior high school level.

DEPARTMENT OF SOCIOLOGY-ANTHROPOLOGY

Faculty

Professor: Taylor (Chairman).

Associate Professor: Anastosio.

Assistant Professors: Mazur, Steinburn.

Instructors: Call, Serl, Spaulding.

Lecturer: Carstens.

Teacher Education

Concentrations

MAJOR:

Anthropology 200, Sociology 201 or Anthropology 201, Sociology 375 or Anthropology 375.

Additional courses under departmental advisement to total 40 credits.

Note: Students intending to teach in the secondary schools must receive special departmental permission to major in sociology-anthropology.

MINOR:

Sociology 201 or Anthropology 201,

Additional courses under departmental advisement to total 20 credits.

Arts and Sciences

Concentrations

MAJOR:

Anthropology 200, Sociology 201 or Anthropology 201, Sociology 301, Sociology 375 or Anthropology 375, Sociology 490 or Anthropology 490.

Additional courses under advisement to total 50 credits of which 20 must be upper division.

Supporting courses: two selected from the following: Biological Science 371, Psychology 440 or 453; Geology 211, Geology 316, Geography 435, Geography 470, Economics 403.

MINOR:

Anthropology 200, Sociology 201 or Anthropology 201.

Additional courses under departmental advisement to total 25 credits.

Courses in Sociology

- 201. CULTURE AND SOCIETY 5 credits. Prerequisite: General Education 105 or permission of the instructor. Nature and growth of culture; a survey of the range and variety of culture phenomena including social organization, political institutions, religion, art, language and other topics. Also offered as Anthropology 201.
- 270. INTRODUCTION TO RESEARCH METHODS 3 credits. Prerequisite: Sociology-Anthropology 201 or Sociology 301. Nature of scientific inquiry; the development of social research; the basic methods and techniques of data-gathering, processing, and analysis. Also offered as Anthropology 270.
- 301. THEORY OF SOCIAL GROUPS 3 credits, Social organization of man: small groups, formal organizations, social institutions, and social processes. The course is intended primarily to serve as an introduction to the field of sociology for students who major in sociology-anthropology.
- 311. WORLD POPULATION 5 credits. Prerequisites: Sociology-Anthropology 201 or Sociology 301. Growth, distribution, and composition of the population of the world, with emphasis on industrialized and underdeveloped countries. The latter half of the course places particular emphasis upon the United States: growth, distribution and composition of population, together with a description of demographic trends.
- 346. JUYENILE DELINQUENCY 3 credits. Prerequisite: Sociology 201. Individual, family, and community factors in delinquency; programs for treating delinquents in schools, social agencies, juvenile courts, and correctional institutions, community organizations for the control of delinquency.
- 351. THE FAMILY 3 credits. Prerequisite: Sociology 201. The evolution of the family; the family as a social institution; the problems of the family today under conditions of rapid social change.
- 366. THE COMMUNITY 3 credits. Prerequisite: Sociology 201. Potterns of social life in representative communities and their influence on the individual.
- STATISTICAL METHODS 5 credits. Prerequisite: Sociology-Anthropology 201, or/ Sociology 301. Introduction to statistical methods and their application to the research problems of sociology and anthropology. Also offered as Anthropology 375.
- 401. SEMINAR 3 credits. Prerequisite: permission of the instructor. Selected topics such as social stratification, sociology of education, comparative institutions. Specific topics are announced for each quarter.
- 413. POPULATION OF WASHINGTON STATE 3 credits. A relatively detailed analysis of population growth, distribution and composition of this state's population designed for administrators, educators and sociologists who propose to work in this region.
- 431. SOCIAL CHANGE 5 credits. Prerequisite: Sociology 201, Social change in the United States (1900-1960); analysis of contemporary theories of culture change. The last section of the course is devoted to a consideration of the problems of prediction of future change. Also offered as Anthropology 431.
- 441. PUBLIC OPINION 3 credits. Prerequisites: Government 250 or Government 251, or Sociology 201 or Anthropology 201 or consent of the instructor. Factors involved in the formation of public opinion; propaganda analysis; agencies of mass impression; opinion measurement; and the role of leadership. Also offered as Government 441.
- 447. RACIAL AND CULTURAL MINORITY GROUPS 3 credits. Sociological and sociol-psychological aspects of the relationship among racial and cultural minority groups, especially in the United States.

- 448. MINORITY GROUPS IN THE PACIFIC NORTHWEST 3 credits. Consideration of sociological and socio-psychological factors involved in the acculturation of Northwest Indian groups, Latin American transient laborers, Japanese and Chinese Americans, Negro immigrants from the American south and European immigrants to this region. Particular attention will be devoted to practical problems encountered by the administrator, educator and social worker aiding and/or dealing with these groups. Summer only.
- 465. COMMUNITY STRUCTURE AND PROCESS 3 credits. Prerequisites: permission of the instructor. The institutional, social and demographic structuring of communities analyzed in terms of social, historical, economic and political processes. Emphasis is on the institution of education as an agent in structure and change. Summer only.
- 470. RESEARCH 2-6 credits. Prerequisite: instructor's consent. For the student who wishes to investigate a problem of his choice through field or library research.
- 483. SOCIAL CHANGE AND THE MORAL ORDER IN RECENT LITERATURE 4 credits.

 Also offered as English 483 and Philosophy 483.
- 485. READING AND DISCUSSION 3 credits. Prerequisite: 15 hours in sociology-anthropology, or instructor's consent. Selected readings in major works in the fields of cultural anthropology and/or sociology. Discussion centers on a specific topic chosen for the quarter.
- SEMINAR IN SOCIAL THEORY 3 credits. Selected problems in social theory with emphasis upon contemporary literature in the field. Also offered as Anthropology 490.

Courses in Anthropology

- 200. HUMAN EVOLUTION AND PREHISTORY 5 credits. The development of man; culture, origins and prehistory; criteria and theories of race and race classifications; race diffusion, contacts and problems.
- 201. CULTURE AND SOCIETY 5 credits. Prerequisite: General Education 105 or permission of the instructor. Nature and growth of culture; a survey of the range and variety of culture phenomena including social customs, social organization, political institutions, religion, art, language, and other topics. Also offered as Sociology 201.
- 260. PEOPLES OF THE WORLD 5 credits. Principal cultures and races of mankind.
- 270. INTRODUCTION TO RESEARCH METHODS 3 credits. Prerequisite: Sociology-Anthropology 201 or Sociology 301. The nature of scientific theory; the development of social research; the basic methods and techniques of data-gathering, processing, and analysis. Also offered as Sociology 270.
- 361. PEOPLES OF THE AMERICAS 3 credits. Native Indian culture and native cultural areas in the New World.
- 362. PEOPLES OF EURASIA 3 credits. European and Asian racial and cultural distribution.
- 363. PEOPLES OF AFRICA 3 credits. Races and cultures of Africa: emphasis is given to the area south of the Sahara, although there is included a brief ethnological survey of North Africa.
- 375. STATISTICAL METHODS 5 credits. Prerequisite: Sociology-Anthropology 201, or Sociology 301. Statistical methods and their application to the research problems of sociology and anthropology. Also offered as Sociology 375.

- 401. SEMINAR 3 credits. Prerequisite: permission of the instructor. Seelcted topics such as culture and personality, theory of culture, history of anthropological theory. Specified topics for each quarter will be announced.
- 448. CULTURE CONTACT 3 credits. Prerequisite: Sociology 201 and one of the following: Anthropology 360, 361, 362, 363. Social, economic, political, and administrative problems characteristic of cultures in contact, with particular emphasis on the processes of class cultural communication and ethnic relations.
- 462. INDIANS OF THE NORTHWEST COAST 3 credits. Tribal distributions, social organization and ecological adjustment with emphasis on the Indians of western Washington. Problems of Northwest Indian adjustment to the modern world.
- 470. RESEARCH 2-6 credits. Prerequisite: instructor's consent. For the student who wishes to investigate a problem of his chaice through field or library research.
- 481. APPLIED ANTHROPOLOGY 3 credits. Prerequisite: Sociology 201 or Anthropology 201. Utilization of anthropological theory in the practical problems of government, industry, education, and social welfare; the administration of colonial and dependent peoples.
- 485. READING AND CONFERENCE 1-5 credits. Prerequisite: 15 hours in sociologyanthropology, or instructor's consent. Selected readings in the major works in the fields of cultural anthropology and/or sociology. Discussion centers on a specific topic chosen for the quarter.
- 486. READING AND CONFERENCE IN PHYSICAL ANTHROPOLOGY AND ARCHAEOLOGY 1-5 credits. Prerequisite: permission of the instructor. Selected reading in the major works on human poleontology or morphology or genetics, prehistory, and archaeological field techniques. The topic to be discussed in a given quarter will be determined by the professor.
- 490. SEMINAR IN SOCIAL THEORY 3 credits. Prerequisite: permission of the instructor. Selected problems in social theory with emphasis upon contemporary literature in the field. Also offered as Sociology 490.

DEPARTMENT of SPEECH

Faculty

Professor: Carlile, (Chairman).

Associate Professors: Brewster, Herbald, Schinske.

Assistant Professors: Angelacci, Carter, Flanders, Spalding, Wadleigh.

Instructors: Vander Yacht, Waldo.

Teacher Education

Concentrations

MAJOR: (Elementary)

Students who intend to be certified for elementary classroom teaching will complete the following:

Speech 201 or 204, 233, 350, 355, 356, 430, 450, 453, and four credits in clinical practice.

17 additional credits in speech selected with departmental advisement during the fifth year

The Elementary Concentration.

Students who intend to be certified as speech therapists will complete the following: Speech 201 or 204, 233, 350, 355, 356, 430, 450, 453, six credits in clinical practice, plus additional credits selected with departmental advisement to total 45 credits.

An acceptable minor.

Education 492, Directed Teaching, under the supervision of a speech therapist.

MAJOR (High School)

Speech 130, 201, 204, 233, 236, 350, 355, 437, 450, 485, 3 credits selected from 322, 323, 324, 423 plus additional courses selected with departmental advisement to total 40 credits.

MINOR (Secondary)

Option A: Speech 130, 201 or 204, 233, 236, 437, 450, 485.

Option B: Speech 201, 202, 204, 206, 305, 480, 485 plus additional courses selected with departmental advisement to total 20 credits.

Arts and Sciences

Concentrations

MAJOR:

Speech 130, 201, 233, 340 or 341, 355, and 450

20 credits in one of the areas listed below plus 6 credits in each of the remaining two areas.

Theater: Speech 230, 231, 232, 236, 237, 238, 322, 323, 324, 336, 337, 338, 423, 430, 433, 435, 437, 438, English 281, 282, 283.

Public Address: Speech 202, 204, 206, 207, 208, 305, 480, 490.

Speech Therapy: Speech 350, 356, 357, 358, 359, 453, 454, 455, 456, 457, 458, 459.

MINOR

Speech 130, 201, 233, 340 or 341, 355, and 450, plus additional credits chosen under advisement from the courses listed from the three areas above to total 25 credits.

Courses

- REMEDIAL SPEECH No credit. Establishment of good habits of articulation and
 phonation through laboratory practice. This course may be elected by any
 student but is required of all teaching candidates adjudged deficient in speech
 or voice. Establishment of good speech and voice habits is required before
 admission is granted to student teaching.
- 100. FUNDAMENTALS OF SPEECH 3 credits. Functional approach to effective communication. The student is given opportunity to apply principles to practical problems of speech. The aim of the course is to develop good speech and to understand the use of it as a factor in human behavior.
- 105. VOICE AND ARTICULATION IMPROVEMENT 3 credits Laboratory work designed to improve voice and articulation patterns.
- 130. INTRODUCTION TO THE THEATRE 3 credits. Appreciation of the art of theatre, cinema, and television. Special attention is given to play analysis, play production, and dramatic criticism. Required reading includes dramas ranging from the Greek to the contemporary theatre.
- 200. SPEECH ANALYSIS.. 3 credits. Prerequisite: Speech 100. Analytical study of the speech process enabling the student to improve his own speech, to participate in a variety of speech situations, and to deal more intelligently with the speech problems of others.
- 201. EXTEMPORE SPEAKING 3 credits. Theory and practice in an extemporaneous mode of speaking. Purposeful speaking, utilizing simulated real-life situations, with clase attention to the organization of ideas and their adaptation to specific audiences and occasions. Attention is given to the speaker's needs through criticism, problems, and drill.
- 202. PARLIAMENTARY LAW 1 credit. Parliamentary principles and procedures. The course is designed to develop the skill in leading and participating in meetings where such procedures are used.
- 204. DISCUSSION AND DEBATE 3 credits. Forms of public discussion; debate theory and practice. The student has opportunity to apply problem solving techniques to tapics of current interest. The aim of the course is to provide the student with a knowledge of and proficiency in the techniques of effective speaking and thinking on controversial issues.
- 206, 207, 208. INTERCOLLEGIATE FORENSICS 2 credits each Imprompts, extempore and after-dinner speaking; oratory; debate; and other phases of forensics. Students may receive a maximum of 6 credits by participating in intercollegiate forensics.
- 230, 231, 232. THE ACTED DRAMA 1 to 3 credits each. Admission by tryout only. Participation in plays offered for public production. A maximum of 3 credits may be allowed for major work, with 1 or 2 credits for minor parts or responsibilities. A maximum total of 6 credits may be earned in these courses.

- 233. ORAL INTERPRETATION 3 credits. Practice in reading prose, poetry, and drama to help the student determine the logical and emotional meaning of a selection and project that meaning to his listeners. A portion of the time is spent in voice development.
- 236. STAGECRAFT 3 credits. Theory and practice of planning, building, and paint-nig scenery. Department productions each quarter provide opportunity for laboratory experiences.
- 237. STAGE LIGHTING 2 credits. Concurrent enrollment in Speech 236 is recommended. Technical and artistic aspects of light and color as applied to stage productions. Department productions each quarter provide apportunity for laboratory experience.
- 238. STAGE MAKE-UP 1 credit. For students working in drama, music, dance, and other activities involving stage production. Theory and practice of the actual application of make-up.
- 302. ADVANCED PARLIAMENTARY LAW 1 credit. Prerequisite: Speech 202. An extension and more technical development of Speech 202.
- 305. ADVANCED PUBLIC ADDRESS 3 credits. Prerequisite: Speech 100. Traditional and modern theories of persuasion combined with application in speaking situations. Model speeches of great American orators are studied as background for contemporary criticism in the areas of composition, organization, proof, language, and delivery. Studio recording facilities permit detailed analysis of the student's speaking.
- 306. ORGANIZING AND DIRECTING THE FORENSICS PROGRAM 2 credits. Fundamentals of inter-scholastic debate, discussion, aratory, and extempore speaking. Special attention is given to selection and training of students, planning and participating in speech tournaments, evaluating performance, and directing speech contests. Not for speech majors or minors. Summer only.
- 322. DRAMA FROM 1660 TO 1850 3 credits. European and British drama beginning with the Restoration. A critical study is made of the plays and their relationship to historical and sociological events. Offered Fall Quarter, 1963 and 1965.
- 323. MODERN DRAMA 3 credits. Ibsen and Strindberg as the founders of the modern dramo. Selected plays of the major European and British playwrights from 1850 to 1920 are included. Also offered as English 323.
- 324. MODERN AMERICAN DRAMA 3 credits. Plays, playwrights, and related movements of artists of the American theater, beginning with O'Neill and concluding with playwrights of the present. Also offered as English 324.
- 336. DESIGN FOR THE STAGE 3 credits. Prerequisite: Speech 236. Advanced study of the physical theatre with emphasis on creative stage and lighting design for various types of theatres and productions.
- 337. ACTING 3 credits. Prerequisite: Speech 233 or consent of the instructor. Interpretation and action on the stage. The basic aim of the course is to develop freedom of action and variety of voice and to apply the basic techniques of acting.
- 338. COSTUMING 3 credits. The history of costume and its adaptation to the needs and limitations of the stage. Students have opportunity to do laboratory work on dramatic production.

- 340. RADIO SPEECH 3 credits. Prerequisite: Speech 100. Introduction to the field of radio broadcasting; discussion of and practice in the technical skills involved in producing a radio broadcast. Special emphasis is placed on pronunciation, inflection, and general voice development. Practice in the writing of radio script and continuity is offered. Students participate in regularly scheduled broadcasts.
- 341. RADIO AND TELEVISION BROADCASTING 3 credits. Prerequisite: Speech 340 or consent of the instructor. Advanced techniques of radio production and direction, with introductory treatment of television. Program preparation, direction, and evaluation, in both commercial and educational broadcasting fields, are included.
- 350. SPEECH SCIENCE 3 credits. Prerequisite Speech 200, The speech and hearing mechanisms, the physical aspects of speech, and the sounds of language. This course serves as both background and supplement to work done in the field of speech correction.
- 355. INTRODUCTION TO SPEECH CORRECTION 3 credits. Prerequisite: Speech 200 or equivalent. Speech disorders and defects including identification, classification, diagnosis, and fundamentals of therapy. The course deals with (a) psychological and physiological nature of deviant speech; (b) development by the classroom teacher and the beginning therapist of skills instrumental in recognizing and analyzing speech handicaps and in undertaking basic therapy. Opportunity to observe a variety of clinical cases is provided. Enrollment may be concurrent with Speech 357.
- 356. ARTICULATION AND VOICE DISORDERS AND DEFECTS 3 credits. Prerequisite: Speech 355 or consent of the instructor. Symtomatology, etiology, and therapy appropriate for articulation and voice deviation. Major attention is given in this course to (a) identification and differential diagnosis of children and adults with sound substitutions, distortions, omissions, and additions; (b) analysis of abharmal pitch, quality and intensity voice involvements; (c) conduction articulation and voice tests and inventories, with interpretation of results; (d) examination of functional, organic, and psychogenic causes of disorders and defects. Consideration is given to principles of treatment and techniques of therapy. Numerous cases are available for observation in class and clinic. Concurrent enrollment in Speech 357 is recommended.
- 357, 358, 359. CLINICAL PRACTICE IN SPEECH CORRECTION 2 credits each. Prerequisite or concurrent enrollment: Speech 355 or Speech 356- Laboratory and supervised clinical practicum dealing with the instruments, materials, methods, and techniques applicable in therapy for the more prevalent voice and articulation cases—chiefly, infantile perseveration, lisping, falling, and delayed speech.
- 384. PROGRAM MATERIALS FOR THE PUBLIC SCHOOL 2 credits. Materials, organization, and production of assembly programs in the elementary and secondary schools.
- 400. SPECIAL PROBLEMS 1-3 credits. Prerequisite: consent of the instructor. Investigation, with consultation, of special problems in the fields of speech.
- 404. DRAMA IN THE SECONDARY SCHOOL 2 credits. General dramaturgical background for teachers who supervise dramatic activities in the junior and senior high school.
- 423. CONTEMPORARY EUROPEAN DRAMA 3 credits. Selected plays from the post World War 1 dramatists to the present. Sartre, Pirandello, Giraudoux, Eliot, O'Cosey, and Beckett are among the playwrights studied.
- 424. AMERICAN DRAMA AND THEATER: 1750-1890 3 credits. Development of a native theater is traced with reference to well known actors, stock and touring companies, frontier theaters, plays and playwrights of the period. Summer only.

- 430. CREATIVE DRAMATICS 3 credits. This course is designed for classroom teachers or creative dramatics leaders. It centers around the developing of original dramatizations with children. The student has apportunity to observe children's classes in creative dramatics. Emphasis is given to story selection, story telling, and story dramatization.
- 433. CHILDREN'S THEATRE 3 credits. Various aspects of presenting plays with children as well as plays for children. Play selection, play direction, and play production are given emphasis.
- 435. THEATRE ARTS WORKSHOP 3 credits. Lectures in play production and laboratory work in connection with the summer fine Arts Festival Original Play Presentation.
- 437. PLAY DIRECTION 3 credits. Theory and practice of stage direction including play selection, costing, and blocking. A prompt book of one-act plays is required. The reading of selected plays is also an important part of the course.
- 438. ADVANCED PLAY DIRECTION 3 credits. Prerequisite: Speech 437. Continued study of the theory and practice of direction with special emphasis on working with the actor. Each student is required to select, cast, and direct a one-act play for public presentation.
- 442. RADIO AND TELEVISION WRITING 3 credits. Prerequisite: Speech 340 or 341. Writing continuity, adapting stories and plays for radio and television production; apportunity for production of scripts. Offered winter quarter, 1963 and 1965.
- 450. PHONETICS 3 credits. Sounds of the English language. Extensive use is made of the International Phonetic Alphabet in analyzing pronunciation patterns and regional dialects.
- 453. INTRODUCTION TO HEARING 3 credits. Prerequisites: Speech 355, 356. Structure and functioning of the auditory mechanism; a study of the acoustics of hearing; symtomatology and pathology of hearing disorders; diagnostic techniques of pure-tone and speech audiometry, clinical rehabilitation and classroom management including fundamentals of speech, reading, and auditory training for children and adults with hearing loss involvements. Observation of clinical cases is provided.
- 454. DISORDERS OF RHYTHM 3 credits. Prerequisites: Speech 355, 357. Stuttering, cluttering, and related disorders. Consideration is given to the nature, classifications, and characteristics of stuttering. Theories of etiology are avaluated with emphasis on neurologic, physiologic, semantogenic, and psychogenic dimensions. Principles of therapy and techniques in clinical procedures and classroom treatments are explored. Observation of primary and secondary stutters is a part of the course.
- 455. THE SPEECH CLINIC 3 credits. Prerequisites: Speech 355, 357. Diagnostic Instruments, methods, materials, procedures, and techniques used in a clinical speech program. Attention is given to such matters as organizing a new speech clinic; integrating as a new clinician into an established program; establishing and maintaining favorable relationship with classroom teachers, administrators, parents, and public; ethics of practice and principles of professional growth and conduct.
- 456. ADVANCED SPEECH CORRECTION 3 credits. Prerequisites: Speech 355, 357. Complex neuropathologies and organic pathologies of speech, primarily dysorthric, dysphasic, and dysphanic involvements. Emphasis is placed on symptoms, etiology, and therapy for cerebral palsy, asphasic and cleft palote cases. Laryngectomy and laryngo-fissure problems are considered. A variety of cases is provided for observation.

- 457, 458, 459. ADVANCED CLINICAL PRACTICE IN SPEECH CORRECTION 2 credits each. Prerequisites: Speech 357 or 358 or 359 plus a minimum of 6 additional credits in the field. Loboratory and supervised clinical practicum dealing with the instruments, materials, methods, and techniques applicable in therapy for more complex cases in voice, articulation, rhythm or symbolization—chiefly, stuttering, cleft polate, aphasia, cerebral palsy, and hard of hearing.
- 480. THE HISTORY AND CRITICISM OF AMERICAN PUBLIC ADDRESS 3 credits.

 Historical and critical study of principal speakers and their relationship to American political, social, and intellectual life beginning with Janathan Edwards and continuing to the present day speakers. Students electing this course should have some background in American History.
- 484. TEACHING THE INTEGRATED SPEECH PROGRAM 2 credits. For classroom teachers. Development, organization, and teching of the combined communication skills of reading, writing, speaking, and listening.
- 485. TEACHING SPEECH IN THE SENIOR HIGH SCHOOL 3 credits. Prerequisite: 15 credits in Speech or consent of the instructor. Examination of materials and methods useful in teaching drama, interpretation, and public address. Students are given opportunity to work in their field of special interest.
- 486. RADIO AND TELEVISION IN THE SCHOOL 2 credits. Prerequisite: 15 credits in Speech or consent of instructor. For teachers and school administrators. (1) Radio and television in the school curriculum; (2) utilization of radio and television in the classroom; (3) cultural and educational aspects of radio and television. Students have apportunity to work on individual problems.
- 487. DISCUSSION TECHNIQUES FOR TEACHERS AND ADMINISTRATORS 3 credits. Discussion as a means to better understanding and action in human affairs. Major aim of the course is to cultivate attitudes and skills which will aid teachers and school administrators to engage in and lead discussions with greater competency.
- 488. PUBLIC SPEAKING FOR TEACHERS AND ADMINISTRATORS 3 credits. Advanced public speaking designed to develop additional skill in meeting speech situations in the field of education. Emphasis is an delivery, composition, audience analysis, and interests.
- 489. EDUCATIONAL TELEVISION WORKSHOP 5 credits. Laboratory experience to develop skills in utilizing television as na effective educational instrument.
- 490. ANCIENT RHETORIC 3 credits. Principles of rhetoric proposed by Aristotle, Quintillian, and Cicero, and the relationship of those principles to modern speechmaking; Summer only.
- 500. SPECIAL PROBLEMS 1 to 3 credits. Prerequisite: graduate status and consent of the instructor. For advanced students who wish to investigate, with consultations, special problems in the fields of speech.
- 558. HEARING REHABILITATION 2 credits. Prerequisite: Speech 453 or consent of the instructor. Methods, procedures, and techniques of rehabilitating the aurally handicapped. The course provides practice in the measurement of hearing loss and the evaluation of hearing tests. Laboratory experience in speech reading and auditory training is provided.
- 590. SPEECH CORRECTION FOR THE CLASSROOM TEACHER 2 credits. Prerequisite: consent of the instructor. For teachers and school administrators, Diagnosis and correction of speech defects and disorders encountered in the classroom. Students have opportunity to observe clinical practice and to work on individual problems.

Summary of Enrollment

Resident	
Summer Quarter, 1961	1904 3867
Total	5771
Correspondence	517 982 719
TOTAL ENROLLMENT	7989
Campus Schaal	
Kindergarten through sixth grade, 1961-1962 Summer Session, 1961	1 <i>77</i> 1 <i>5</i> 9
TOTAL ENROLLMENT, CAMPUS SCHOOL	336
Degrees and Certificates	
Degrees granted from August, 1961, ta June, 1962, inclusive:	70
Degree of Master of Education Degree of Bachelor of Arts in Education	<i>7</i> 2 478
Degree of Bachelor of Arts	113
Total	663
Certificates issued from August, 1961, to June, 1962, inclusive:	
Three-Yeor Elementary Certificate Provisional Certificate	21 450
Total	471
Recommended for certification to the State Superintendent of Public Instruction:	
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