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WALLA WALLA
COLLEGE BULLETIN



WALLA WALLA COLLEGE

BULLETIN

1980-81



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Equal Opportunity Commitment

Walla Walla College maintains a policy of equal educational opportunity for all applicants without regard to sex, race, color, handicap, national and/or ethnic origin, and in administration of its educational and admissions policies, financial affairs, employment programs, student life and services, or any other college-administered program.

Information contained in this publication is hereby certified as true and correct in content and policy as of the date of publication, in compliance with the Veterans Administration DVB Circular 20-76-84 and Public Law 94-502.

**BULLETIN
WALLA WALLA COLLEGE
VOL. 89, No. 3
SEPT. 1980**

Published March, June, September and December at College Place, Washington, by Walla Walla College. Entered as second-class mail matter, College Place, Washington 99324, under Act of Congress, August 24, 1912.

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AREAS OF STUDY

BACCALAUREATE DEGREES

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*Concentration available

†Option available

ASSOCIATE DEGREES

Agriculture	General Contracting
Automotive Technology	Graphics Technology
Aviation Technology	Legal Secretary
Business	Medical Secretary
Construction Technology	Office Secretary
Dietetic Technology	Plant Maintenance Technology
Early Childhood Education	Secretarial Accounting
Electronics Technology	

CERTIFICATE PROGRAMS

Auto Mechanics	Offset Copy Preparation
Aviation	Plant Maintenance
Carpentry	Printing
Clerical Program	Secretarial Program
Electricity/Electronics	

PREPROFESSIONAL CURRICULA

Architecture (2)*	Medicine (4)
Chiropractic (2)	Occupational Therapy (2)
Dental Assistant (1)	Optometry (2)
Dental Hygiene (2)	Osteopathy (3)
Dentistry (2)	Pharmacy (2)
Dietetics (2)	Physical Therapy (2)
Law (4)	Public Health (4)
Medical Technology (3)	Radiological Technology (1)
Medical Technology and Clinical Chemistry (3)	Respiratory Therapy (1)
	Veterinary Science (2)

*Numbers in parentheses indicate the years of study normally required on the WWC campus before acceptance into a professional school.

GRADUATE PROGRAMS

Master of Education

Counseling and Guidance
Elementary Instruction
Junior High Instruction
School Administration
Secondary Instruction in:
Biology, Biophysics, Business,
Chemistry, English, Health & PE,
History, Industrial Arts, Language
Arts, Mathematics, Physics, Social
Science

Teaching Credentials available in the areas mentioned above

Master of Science

Biology

FOR INFORMATION

ADMISSIONS	.....	Orpha Osborne Director of Admissions 509/527-2811
Application Blanks		
Academic Information		
General Information		
Student Handbooks		
FINANCES	.....	Grace Hallsted, Director Student Accounts/Employment 509/527-2817
General Financial Information		
Work Opportunities		
STUDENT AID	.....	Victor Fitch, Director Financial Aid 509/527-2314
Loans and Grants		
RESIDENCE HALL LIVING	.....	Walter Meske, Dean of Men Sittner Hall 509/527-2111 <i>or</i> Ilo Hutton, Dean of Women Conard Hall 509/527-2661
General Information		
Room Reservations		
STUDENT AFFAIRS	.....	Donald D. Lake, Vice President Student Affairs 509/527-2511
Off-Campus Housing		
Automobile Registration		
Student Life		
COLLEGE ADDRESS	.....	Walla Walla College College Place, WA 99324
GENERAL TELEPHONE NUMBER	.....	Area Code 509/527-2615 Portland Campus Area Code 503/257-2436
RESIDENCE HALL TELEPHONE NUMBERS		
Conard Hall	.....	.527-2662, 2663
Foreman Hall	.....	.527-2532, 2533
Sittner Hall	.....	.527-2111
Whitman Lodge	.....	.527-2591

Administrative offices are closed from Friday noon until Monday morning and on legal holidays. The administrative officers are available on Sundays by appointment.

The Accounting, Student Accounts and Employment and Admissions and Records offices are open on Sunday from 9:00 a.m. to 12:00 noon.

The bulletin cover and its main feature, the new Walla Walla College logo, were designed by Thomas Emerson, assistant professor of art. The logo is composed of four elements: the first three comprise the letters WWC, which are designed to relate to the fourth, a circle. The circle incorporates two symbols which are particularly appropriate for Walla Walla College — wheat and flame. The wheat symbolizes the college's physical surroundings in the Walla Walla Valley and the flame represents the college's commitment to educating the whole person by emphasizing not only physical and intellectual but also spiritual excellence.

WALLA WALLA COLLEGE

ACADEMIC CALENDAR 1980-81

AUTUMN QUARTER

September 28, 29	SM	Freshman Orientation, Testing, Registration
30	T	Registration
October 1	W	Instruction Begins
October 15	W	Last Day to Enter Classes
November 26	W	Last Day to Withdraw From Classes
26	W	Thanksgiving Vacation Begins
30	S	Thanksgiving Vacation Ends (10:00 p.m.)
December 10	W	Last Day to Request S/NC Grades
14, 15, 16, 17	SMTW	Final Examinations

WINTER QUARTER

January 5	M	Registration (4:30-8:00 p.m.)
6	T	Instruction Begins
21	W	Last Day to Enter Classes
February 4	W	ASWWC Snow Frolic
25	W	Last Day to Withdraw From Classes
March 11	W	Last Day to Request S/NC Grades
15, 16, 17, 18	SMTW	Final Examinations

SPRING QUARTER

March 24	T	Registration (4:30-8:00 p.m.)
25	W	Instruction Begins
April 8	W	Last Day to Enter Classes
May 6	W	Spring Campus Day
13	W	Last Day to Withdraw From Classes
27	W	Last Day to Request S/NC Grades
31, June 1, 2, 3	SMTW	Final Examinations
June 7	S	Commencement (10:00 a.m.)

SUMMER QUARTER

June 14	S	Registration (6:00-8:00 p.m.)
15	M	Instruction Begins
August 8	Sa	Commencement (9:00 p.m.)

BOARD OF TRUSTEES

R. D. Fearing, *Chairman*
N. C. Sorensen, *Secretary*

Donald Ammon	Dorothy Patchett
G. A. Aufderhar	R. C. Remboldt
Ruth Carroll	G. L. Starr
Nathan Forde	T. W. Walters
H. J. Harris	T. L. Werner
Helen Havstad	Ed Wines
Duane Huey	R. M. Wisbey
Bruce Johnston	Wm. Woodruff
Millie Oberg	

ADMINISTRATION

N. Clifford Sorensen, Ed.D., *President*
D. Malcolm Maxwell, Ph.D., *Vice President for Academic Affairs*
Richard A. Beck, B.A., *Vice President for Financial Affairs*
Donald D. Lake, M.A., *Vice President for Student Affairs*
Verne V. Wehtje, Ph.D., *Vice President for Recruitment and Public Relations*

ADMINISTRATIVE STAFF

Kathryn Andrews, B.A., *Associate Director of Records*
Charles V. Bell, Ph.D., *Dean, School of Engineering*
_____, *Director of Publications*
_____, *Director of Counseling and Guidance*
Joyce Blake, B.A., *Coordinator Pro Tem of Counseling and Guidance*
_____, *Chaplain*
Amy Cecil, B.S., *Assistant Dean of Women*
Shirley Cody, M.L.S., *Assistant Librarian*
Charles E. Davis, B.S., *Director of College Services*
Betty Duncan, B.A., *Freshman Advisement Coordinator*
Scott R. Duncan, B.S., *Director of Audiovisual Services*
Dan A. Edge, B.S., *Director of Plant Services*
J. D. V. Fitch, M.Ed., *Director of Financial Aid*
Carl Forss, Ph.D., *Assistant Director of Student Accounts and Employment*
Carolyn Gaskell, M.A., *Assistant Librarian*
Melvin W. Gilliland, M.A., *Associate Librarian*
Shirley Graves, M.S.L.S., *Associate Librarian*
Grace Hallsted, *Director of Student Accounts and Employment*
George Alan Hein, B.A., *Director of News Services*
Alice Hoffman, *Residence Hall Dean (Portland Campus)*
Wynelle J. Huff, Ph.D., *Dean, School of Nursing*
Ilo Hutton, *Dean of Women*

E. Lee Johnston, M.S.L.S., *Associate Librarian*
Robert H. Koorennny, M.S., *Director of Development*
_____, *Dean, School of Theology*
Melvin S. Lang, Ph.D., *Director of Summer Session*
Chester Lindt, M.A., *Manager, Custodial Department*
Maynard E. Loewen, B.A., *Field Recruitment Officer*
Esther Losey, B.S., *Associate Director of Health Services*
J. D. Losey, M.D., *College Physician*
Elwood L. Mabley, M.S.L.S., *Director of the Libraries*
Walter Meske, M.A., *Dean of Men*
Orpha Osborne, B.A., *Director of Admissions and Records*
Alfred E. Perry, Ph.D., *Director, Grants and Foundations*
Lynn Prohaska, *Associate Dean of Men*
Nina Prohaska, *Assistant Director of Food Service*
Donald W. Rigby, Ph.D., *Dean, Graduate School*
Clyde J. Sample, B.S., *Director of Food Service*
Helen Spechko, R.N., *Director of Health Service*
Lois Stoops, M.A., *Associate Dean of Women*
Alfred O. Tucker, B.S., *Chief Accountant*
Philip Velez, M.A., *Associate Dean of Men*
Colleen Walde, B.S., *Assistant Dean of Women*
Darl L. Wallace, *Director of Educational Computer Services*
Joyce Wickward, *Assistant Accountant*

MARINE STATION STAFF

Donald W. Rigby, Ph.D., *Acting Director*
Ross O. Barnes, Ph.D., *Research Associate Professor*

AUXILIARY ENTERPRISES, Managers

Richard A. Beck, B.A., *General Manager*
William E. Koenig, M.A., *College Dairy and Farm*
Jimmie J. Nelson, B.S., *College Place Bindery*
Robert Puelz, *College Laundry and Dry Cleaners*
John D. Wohlers, B.A., *Color Press*
Kathryn Wohlers, *College Store*

INSTRUCTIONAL FACULTY†

Rosalee Abrams, *Assistant Professor of Nursing* (1972)
B.S. 1972, Walla Walla College
M.N. 1977, University of Oregon

Charles J. Amlaner, *Assistant Professor of Biology* (1979)
B.S. 1974; M.A. 1976, Andrews University

Terry L. Anderson, *Associate Professor of Physics* (1972)
B.S. 1969; M.A. 1969, Pacific Union College
M.S. 1971; Ph.D. 1975, University of Nebraska

Wanda Anderson, *Instructor in Nursing* (1968)
B.S. 1957, Walla Walla College

Ross O. Barnes, *Research Associate Professor* (1974)
B.A. 1967, Andrews University
Ph.D. 1973, University of California

Claude C. Barnett, *Professor of Physics* (1957)
B.S. 1952, Walla Walla College
M.S. 1956, State College of Washington
Ph.D. 1960, Washington State University

Beverly G. Beem, *Associate Professor of English* (1976)
B.A. 1967, Union College
M.A. 1969, Andrews University
Ph.D. 1974, University of Nebraska

Charles V. Bell, *Professor of Engineering* (1972)
B.S. 1956, Mississippi State University
M.S. 1957; Ph.D. 1960, Stanford University

Frederick R. Bennett, *Professor of Engineering* (1961)
B.S. 1955, Walla Walla College
M.S. 1966; Ph.D. 1977, Washington State University

June Bishop, *Assistant Professor of Home Economics* (1972)
B.S. 1950; M.S. 1971, Loma Linda University

Ruth Verona Blabey, *Instructor in Business* (1979)
B.A. 1978, Walla Walla College
M.A. 1979, York University

Roland D. Blaich, *Professor of History* (1968)
B.A. 1966; M.A. 1967, California State College at Los Angeles
Ph.D. 1975, Washington State University

Chester D. Blake, *Associate Professor of Industrial Technology* (1966)
B.S. 1963, Walla Walla College
M.A. 1968, San Jose State College
Ed.D. 1980, Washington State University

Carol M. Brown, *Assistant Professor of Nursing* (1971-73; 1976-79; 1980)
B.S. 1965, Walla Walla College
M.S. 1968, Loma Linda University
Ed.M. 1975; Ph.D. 1978, Oregon State University

John C. Brunt, *Associate Professor of Theology* (1971)
B.A. 1964, Loma Linda University
M.A. 1966; B.D. 1967, Andrews University
Ph.D. 1978, Emory University

*Ernest J. Bursey, *Assistant Professor of Theology* (1973)
B.A. 1964, Pacific Union College
B.D. 1970, Andrews University

†Dates in parenthesis indicate the beginning year of employment at Walla Walla College.
*On leave.

Janice P. Chance, *Associate Professor of Nursing* (1959)
B.S. 1959, Walla Walla College
M.S. 1967, Loma Linda University

Clarence E. Chinn, *Professor of Chemistry* (1967)
B.A. 1951, Walla Walla College
M.S. 1953; Ph.D. 1956, Oregon State University
Ph.D. 1969, University of Tennessee

Lawrence L. Claridge, *Assistant Professor of Industrial Technology* (1979)
B.S. 1950, Walla Walla College

Nancy A. Cleveland, *Instructor in Office Administration* (1979)
B.S. 1976; M.Ed. 1978, Walla Walla College

Jon A. Cole, *Professor of Engineering* (1964)
B.S.C.E. 1961, Illinois Institute of Technology
M.S. 1964; Ph.D. 1970, University of Wisconsin

Lanny Collins, *Assistant Professor of Music* (1977)
B.A. 1964, Andrews University
M.Mus. 1971, University of Missouri

William A. Crow, *Assistant Professor of Industrial Technology* (1980)
B.S. 1962, Walla Walla College
M.Ed. 1968, Colorado State University

Reinhard Czeratzki, *Associate Professor of Modern Languages* (1967)
B.A. 1964, Atlantic Union College
M.A. 1967, Middlebury College

Jack Dassenko, *Assistant Professor of Agriculture* (1970)
B.S. 1950, Andrews University
M.S. 1951, University of Minnesota

William W. Dassenko, *Assistant Professor of Business* (1979)
B.S. 1973, Walla Walla College
M.B.A. 1977, Portland State University

Donald Dawes, *Assistant Professor of Industrial Technology* (1976)
B.S. 1961, Walla Walla College
M.Ed. 1966, Oregon State University

Loren Dickinson, *Professor of Communications* (1962)
B.A. 1957, Union College
M.A. 1960, University of Nebraska
Ph.D. 1968, University of Denver

*Leal G. Dickson, *Associate Professor of Biology* (1971)
B.A. 1962, Columbia Union College
M.S. 1969; Ph.D. 1971, University of Maryland

Terrie Dopp, *Instructor in English* (1979)
B.A. 1976, Columbia Union College
M.A. 1978, The College of William and Mary

Edna M. Downing, *Assistant Professor of Nursing* (1970)
B.S. 1965, Loma Linda University
M.S. 1970, University of California at San Francisco

Jon Dybdahl, *Assistant Professor of Theology* (1976)
B.A. 1965, Pacific Union College
M.A. 1966; B.D. 1967, Andrews University

Richard K. Emmerson, *Associate Professor of English* (1971)
B.A. 1970, Columbia Union College
M.A. 1971, Andrews University
Ph.D. 1976, Stanford University

*On leave

Thomas J. Emmerson, *Assistant Professor of Art* (1976)
B.A. 1972, Walla Walla College
B.F.A. 1974; M.F.A. 1979, Otis Art Institute of Los Angeles County

Gerald I. Ferguson, *Associate Professor of Music* (1972)
B.A. 1948, Walla Walla College
M.A. 1951, Teachers College, Columbia University

Allan D. Fisher, *Associate Professor of Industrial Technology* (1980)
B.A. 1967; M.A. 1968, Pacific Union College

.Garth E. Fisher, *Assistant Professor of Industrial Technology* (1975)
B.S. 1966, Andrews University

Joseph G. Galusha, *Associate Professor of Biology* (1975)
B.S. 1968, Walla Walla College
M.A. 1971, Andrews University
D.Phil. 1975, Oxford University

*Robert W. Gardner, *Associate Professor of Sociology* (1971)
B.A. 1969, Pacific Union College
M.A. 1971, Loma Linda University
Ph.D. 1977, University of Utah

Carolyn S. Gaskell, *Instructor in Library Science* (1978)
B.A. 1976, Pacific Union College
M.A. 1977, University of Denver

LaDean P. Gienger, *Instructor in Engineering* (1979)
B.S.E. 1978, Walla Walla College

Melvin W. Gilliland, *Assistant Professor of Library Science* (1966)
B.A. 1949, Union College
M.A. 1965, University of Denver

Lorne E. Glaim, *Professor of History* (1971)
B.A. 1964, Walla Walla College
M.A. 1966; Ph.D. 1973, Washington State University

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B.A. 1967; M.A. 1973, Washington State University

Jonathan A. Glenn, *Instructor in English* (1980)
B.A. 1977, Walla Walla College
M.S. 1979, University of Notre Dame

Albert E. Grable, *Associate Professor of Biology* (1963)
B.S. 1959, Loma Linda University
M.S. 1962; Ph.D. 1964, University of Minnesota

Thomas R. Graham, *Assistant Professor of Industrial Technology* (1977)
B.S. 1970, Walla Walla College
M.A. 1972, University of Northern Colorado

Shirley A. Graves, *Associate Professor of Library Science* (1969)
B.A. 1960, Loma Linda University
M.A. 1964, University of Redlands
M.S.L.S. 1969, University of Southern California

Glen G. Greenwalt, *Instructor in Theology* (1978)
B.A. 1971, Walla Walla College
M.Div. 1974, Andrews University

J. Paul Grove, *Professor of Theology* (1958)
B.A. 1944, Columbia Union College
M.A. 1956; B.D. 1961, Andrews University

Kenneth L. Gruesbeck, *Assistant Professor of Industrial Technology* (1964)
B.A. 1952, Columbia Union College
M.Ed. 1977, Walla Walla College

*On leave

Gary M. Hamburgh, *Assistant Professor of Health, Physical and Recreational Education* (1972)
B.A. 1971, Loma Linda University
M.A. 1974, California State University at Fresno

*Gordon B. Hare, *Professor of Mathematics* (1957)
B.A. 1951, Columbia Union College
M.S. 1954; Ph.D. 1964, University of Colorado

Carolyn Hazelton, *Assistant Professor of Library Science* (1972-78; 1980)
B.S. 1965, Walla Walla College
M.L.S. 1971, University of Washington

Rodney Heisler, *Professor of Engineering* (1970)
B.S.E. 1965, Walla Walla College
M.S.E.E. 1967; Ph.D. 1970, Washington State University

Robert A. Henderson, *Professor of History* (1967)
B.A. 1962, Walla Walla College
Ph.D. 1967, Washington State University

Solange Henderson, *Assistant Professor of Modern Languages* (1973)
B.A. 1971, Walla Walla College
M.A. 1976, Middlebury College

Dale B. Hepker, *Associate Professor of English* (1973)
B.A. 1953, Union College
M.A. 1963; Ph.D. 1978, University of Nebraska

Wilma M. Hepker, *Professor of Sociology and Social Work* (1973)
B.A. 1953, Union College
M.A. 1966; Ph.D. 1976, University of Nebraska

Gloria Hicinbothom, *Assistant Professor of Education* (1976)
B.S. 1966; M.Ed. 1971, Walla Walla College

Sherrick S. Hiscock, II, *Assistant Professor of Music* (1973)
B.Mus.Ed. 1963, Florida State University
M.Mus. 1970; D.M.A. 1978, University of Miami

Wynelle Huff, *Professor of Nursing* (1971)
B.S. 1962, Union College
M.S. 1964, University of California at San Francisco
Ph.D. 1979, Oregon State University

Juanita M. Hunter, *Assistant Professor of Nursing* (1975)
B.S. 1955, Loma Linda University
M.P.H. 1979, Loma Linda University

Robert J. Hunter, *Associate Professor of Education and Psychology* (1966)
A.B. 1959, Pacific Union College
M.A. 1962, Andrews University
Ed.D. 1973, University of the Pacific

Dale A. Johnson, *Associate Professor of Education and Psychology* (1976)
B.A. 1964, Union College
M.A. 1967, University of Nebraska
Ph.D. 1978, University of California, Riverside

Gordon O. Johnson, *Associate Professor of Physics* (1974)
B.S. 1966, Walla Walla College
M.S. 1967; Ph.D. 1972, California Institute of Technology

E. Lee Johnston, *Associate Professor of Library Science* (1976)
B.S. 1960, Loma Linda University
M.Ed. 1965, University of California, Davis
M.S.L.S. 1971, University of Southern California

*On leave

Paul W. Joice, *Professor of Business* (1971)
B.S. 1949, Union College
M.B.A. 1953, University of Denver
Ed.D. 1962, University of Nebraska

James D. Klein, Jr., *Assistant Professor of Computer Science* (1979)
B.S. 1970, Walla Walla College
M.S. 1977, University of Colorado

Lucile Harper Knapp, *Associate Professor of Theology* (1961)
B.A. 1947, Walla Walla College
M.A. 1949, Andrews University

Connie J. Koenig, *Assistant Professor of Education* (1979)
B.S. 1970, Andrews University
M.A. 1971, Loma Linda University
Ed.D. 1978, University of Southern California

Melvin S. Lang, *Professor of Mathematics* (1967)
B.S. 1957, Valley City State Teachers College
M.A. 1958, Colorado State College
Ph.D. 1972, University of Northern Colorado

H. Lloyd Leno, *Professor of Music* (1960)
B.A. 1948, Walla Walla College
M.A. 1954, Columbia Teachers College
A.Mus.D. 1970, University of Arizona

Stephen L. Lindsay, *Assistant Professor of Biology* (1980)
B.S. 1975; M.S. 1977, Walla Walla College

Anne Lindt, *Assistant Professor of Nursing* (1973)
B.S. 1954; M.S. 1966, Loma Linda University

Elwin L. Liske, *Associate Professor of Industrial Technology* (1963)
B.S. 1963, Walla Walla College
M.A. 1967, San Jose State College

Lee Loewen, *Assistant Professor of Office Administration* (1974)
B.S. 1947, Union College
M.Ed. 1968, Walla Walla College

Annette Lofftus, *Assistant Professor of Nursing* (1969)
B.S. 1955, Walla Walla College
M.S. 1972, University of Oregon

Delmar Lovejoy, *Professor of Health, Physical and Recreational Education* (1980)
B.A. 1953, Emmanuel Missionary College
M.A. 1962; Ed.D. 1965, Michigan State University

Elwood L. Mabley, *Associate Professor of Library Science* (1968)
B.A. 1948, Walla Walla College
M.S.L.S. 1959, University of Southern California

Virginia Mabley, *Assistant Professor of Office Administration* (1971)
B.A. 1948; M.Ed. 1973, Walla Walla College

Kenneth R. MacKintosh, *Professor of Art* (1961)
B.F.A. 1959; M.F.A. 1961, Otis Art Institute of Los Angeles County

Glenn W. Masden, *Professor of Engineering* (1957)
B.S.E.E. 1955; M.S.E.E. 1958, University of Colorado

Gordon R. Mattison, *Assistant Professor of Theology* (1976)
B.A. 1964, Loma Linda University
M.A. 1965; B.D. 1966, Andrews University

D. Malcolm Maxwell, *Professor of Theology* (1965)
B.A. 1956, Pacific Union College
M.A. 1958, Andrews University
Ph.D. 1968, Drew University

Lawrence R. McCloskey, *Professor of Biology* (1971)
B.A. 1961, Atlantic Union College
M.A. 1965; Ph.D. 1967, Duke University

*Oran E. McNeil, *Professor of Engineering* (1964)
B.S. 1961, Walla Walla College
M.S.E.E. 1969; Degree of Engineer 1971, Stanford University

William W. Messer, *Assistant Professor of Business* (1977)
B.S. 1969, Andrews University
M.B.A. 1973; J.D. 1975, University of Cincinnati

Verlene Meyer, *Assistant Professor of Nursing* (1973)
B.S. 1972, Walla Walla College
M.N. 1977, University of Oregon

Ronald Mitchell, *Assistant Professor of Nursing* (1973)
B.S. 1972, Walla Walla College
M.S. 1976, Fresno State College

William J. Napier, *Professor of Health, Physical and Recreational Education* (1975)
B.A. 1949, Union College
M.S. 1954, University of Colorado
Ph.D. 1971, University of Southern California

Robert L. Noel, *Professor of Engineering* (1963)
B.S. 1950; M.S. 1951, University of Wisconsin

Sylvia B. Nosworthy, *Assistant Professor of English* (1978)
B.A. 1967; M.A. 1968, Andrews University

Vernon Paul Nye, A.W.S., *Professor of Art* (1978)

Harold T. Ochs, *Professor of Education and Psychology* (1969)
B.A. 1950, Walla Walla College
M.Ed. 1957, Eastern Washington State College
Ed.D. 1972, University of Idaho

Merlene L. Olmsted, *Assistant Professor of Home Economics* (1977)
B.A. 1969, Walla Walla College
M.A. 1975, Loma Linda University

Carolyn Olson, *Assistant Professor of Nursing* (1970)
B.S. 1961, Loma Linda University
M.S. 1972, University of Oregon

Jack S. Paulman, *Associate Professor of Business* (1976)
B.S. 1947, Pepperdine College
M.S. 1953, University of Southern California
M.S.P.H. 1975, Loma Linda University

Alfred E. Perry, *Professor of Industrial Technology and Associate Professor of Biology* (1969)
B.A. 1953; M.A. 1958, Walla Walla College
Ph.D. 1965, Oklahoma State University

*On leave

Hollibert E. Phillips, *Professor of Education and Psychology* (1970)

B.A. Hons. 1960, University of London
M.A. 1964, Andrews University
Ed.D. 1970, Boston University

Sharon Rawson, *Assistant Professor of Nursing* (1970)

B.S. 1956, Walla Walla College
M.N. 1977, University of Oregon

Arthur Richert, *Visiting Professor*

B.A., Southern Missionary College
M.A., Ph.D. 1970, University of Texas at Austin

Leonard Richter, *Assistant Professor of Music* (1978)

B.A. 1970, University of Waterloo
M.M. 1977, Manhattan School of Music

*Donald W. Rigby, *Professor of Biology* (1958)

B.A. 1950, Loma Linda University
M.A. 1956, Walla Walla College
Ph.D. 1967, Loma Linda University

*Donnie Thompson Rigby, *Associate Professor of Communications* (1958)

B.A. 1952, Loma Linda University
M.A. 1965, Redlands University

E. Joyce Riter, *Associate Professor of Nursing* (1961)

B.S. 1960, Walla Walla College
M.N. 1964, University of Washington

Robert C. Rittenhouse, *Associate Professor of Chemistry* (1976)

B.S. 1971, Atlantic Union College
Ph.D. 1975, Worcester Polytechnic Institute

E. Gary Schneider, *Associate Professor of Health, Physical and Recreational Education* (1971-78; 1980)

B.A. 1959; M.A. 1960, Andrews University
M.P.H. 1971, Loma Linda University

F. Ruth Schneider, *Assistant Professor of Nursing* (1973)

B.S. 1973, Walla Walla College
M.P.H. 1979, Loma Linda University

Gary L. Schoepflin, *Assistant Professor of Physics* (1979)

B.S. 1963, Walla Walla College
M.S. 1965, University of Washington
Ph.D. 1977, Oregon State University

Carlos A. Schwantes, *Professor of History* (1969)

B.A. 1967, Andrews University
M.A. 1968; Ph.D. 1976, University of Michigan

David L. Schwantes, *Assistant Professor of Journalism* (1974)

B.A. 1973, Walla Walla College
M.A. 1977, University of Oregon

Mary Schwantes, *Assistant Professor of Home Economics* (1969)

B.S. 1968; M.S. 1972, Eastern Michigan University

Marianne S. Scriven, *Associate Professor of Music* (1979)

B.A. 1967; M. Mus. 1968, Andrews University
D.M.A. 1973, University of Missouri—Kansas City

Dan M. Shultz, *Associate Professor of Music* (1979)

B.S. 1962, Atlantic Union College
M.Mus. 1967, Andrews University

Dale Snarr, *Assistant Professor of Social Work* (1977)

B.A. 1967, California State University at San Jose
M.S.W. 1976, West Virginia University

*On leave

Ward A. Soper, *Associate Professor of Mathematics* (1965)

B.A. 1961, Andrews University
M.A. 1962, University of Michigan

N. Clifford Sorensen, *Professor of Education and Psychology* (1972)

B.S. 1958; M.A. 1963, Walla Walla College
Ed.D. 1973, University of Southern California

Glenn E. Spring, *Professor of Music* (1965)

B.A. 1962, Loma Linda University
M.Mus. 1964, Texas Christian University
D.M.A. 1972, University of Washington

Carolyn Stevens, *Associate Professor of English* (1970)

B.A. 1965, Pacific Union College
M.A. 1966, Loma Linda University
Ph.D. 1977, University of Washington

Robert D. Sutton, *Associate Professor of Engineering* (1974)

B.S. 1961; M.S. 1964; Ph.D. 1971, University of California at Berkeley

Nelson Thomas, *Professor of Health,*

Physical and Recreational Education (1980)

B.A. 1961, Andrews University
M.A. 1968, Michigan State
Ph.D. 1974, Florida State University

*Alden L. Thompson, *Professor of Theology* (1970)

B.A. 1965, Walla Walla College
M.A. 1966; B.Div. 1967, Andrews University
Ph.D. 1975, University of Edinburgh

Thomas M. Thompson, *Associate Professor of Mathematics* (1971)

B.A. 1968, Walla Walla College
M.A. 1971, University of Washington
Ph.D. 1979, University of California at Davis

L. Janene Turner, *Assistant Professor of Health,*

Physical and Recreational Education (1979)

B.A. 1969, Loma Linda University
M.A. 1977, San Diego State University

Bruno Ulrich, M.A., *Visiting Professor*

Larry E. Veverka, *Assistant Professor of Theology* (1976)

B.A. 1965, La Sierra College
M.A. 1966; B.D. 1966, Andrews University

Dale B. Visger, *Associate Professor of Industrial Technology* (1977)

B.S. 1958, Walla Walla College
Ed.M. 1963; Ed.D. 1977, Oregon State University

Robert Alan Wade, *Assistant Professor of Chemistry* (1979)

B.A. 1975, Kalamazoo College
D.Phil. 1979, Oxford University

Dale O. Wagner, *Professor of Education and Psychology* (1966)

B.A. 1952, Walla Walla College
Ed.M. 1958, Eastern Washington State College
Ed.D. 1973, University of Idaho

David A. Wallace, *Assistant Professor of Engineering* (1979)

B.S.E. 1970, Walla Walla College
M.S.M.E. 1971, Washington State University
Degree of Engineer 1974, Southern Methodist University

*On leave

*John L. Waterbrook, *Associate Professor of Health, Physical and Recreational Education* (1965)
B.S. 1966; M.Ed. 1969, Walla Walla College
Ed.D. 1974, University of Northern Colorado

Eileen V. Watson, *Assistant Professor of Communications* (1976)
B.S. 1970, Loma Linda University
M.A. 1971, California State University

Clyde Webster, *Associate Professor of Chemistry* (1980)
B.S. 1968, Walla Walla College
Ph.D. 1972, Colorado State University

Rodney C. Wehtje, *Instructor in Business* (1978)
B.S. 1977, Pacific Union College
M.B.A. 1978, University of Oregon

Verne V. Wehtje, *Professor of English* (1976)
B.A. 1956, Walla Walla College
M.A. 1962, University of Washington
Ph.D. 1967, University of Nebraska

Lois A. Whitchurch, *Assistant Professor of Nursing* (1967)
B.S. 1965, Walla Walla College
M.S. 1967, Loma Linda University

Kenneth L. Wiggins, *Assistant Professor of Mathematics* (1980)
B.A. 1968, Walla Walla College
M.S. 1971; Ph.D. 1974, Montana State University

Gerald R. Winslow, *Professor of Theology* (1968)
B.A. 1967, Walla Walla College
M.A. 1968, Andrews University
Ph.D. 1979, Graduate Theological Union

Gary Alan Wiss, *Professor of English* (1966)
B.A. 1966, Walla Walla College
M.A. 1969; D.A. 1976, University of Oregon

Clarence A. Wood, *Assistant Professor of Speech Pathology and Audiology* (1966)
B.A. 1961, Loma Linda University
M.A. 1963, University of Denver

Robert F. Wood, *Professor of Engineering* (1976)
B.S. 1960, Walla Walla College
M.S. 1966, University of Texas
Ph.D. 1970, University of Illinois

*On leave

EMERITI

Herbert J. Alcock, M.A., *Professor of Religion*
Irene T. Black, B.A., *Registrar*
George W. Bowers, Ph.D., LL.D., *Professor of Chemistry*
Lewis H. Canaday, Ed.M., *Professor of Industrial Technology*
Darrell J. Cowin, *Assistant Professor of Industrial Education and Technology*
Edward F. Cross, M.E., M.A., *Doctor of Engineering, honoris causa, Dean of Engineering*
Frederick R. Hanson, M.A., *Professor of Nursing*
Carl T. Jones, Ph.D., *Professor of Chemistry*
Frank E. Meckling, Ph.D., *Professor of History*
Jacob G. Mehling, M.A., *Professor of Business*
Hans L. Rasmussen, Ed.D., *Academic Dean*
Lilah G. Schlotthauer Risinger, M.S., *Associate Professor of Mathematics*
Agnes L. Sorenson, M.A., *Professor of Modern Languages*
Henrique G. Stoehr, Dr.U.P., *Professor of Modern Languages*
Genevieve Stabler Weaver, B.A., *Associate Professor of Secretarial Science*
Eugene S. Winter, Ph.D., *Professor of Physical Education*
Evelynne F. Wright, M.S., *Professor of Home Economics*

Presidents of Walla Walla College

*Edward A. Sutherland	1892-1897
*Emmett J. Hibbard	1897-1898
*Walter R. Sutherland	1898-1900
*Edwin L. Stewart	1900-1902
*Charles C. Lewis	1902-1904
*Joseph L. Kay	1904-1905
*Marion E. Cady	1905-1911
*Ernest C. Kellogg	1911-1917
*Walter I. Smith	1917-1930
*John E. Weaver	1930-1933
William M. Landeen	1933-1938
George W. Bowers	1938-1955
Percy W. Christian	1955-1964
William H. Shephard	1964-1968
Robert L. Reynolds	1968-1976
N. Clifford Sorensen	1976-

*Deceased

COMMITTEE ASSIGNMENTS

The letters following individual names are used to indicate the authority for the given membership as follows:

- P Appointed by President
- N Appointed by Nominating Committee
- F Elected by Faculty
- S Selected by ASWWC

The last academic year of the term of office is given by the dates in *italics* following the individual names.

ACADEMIC MASTER PLANNING (Ad Hoc to Faculty Senate)

Hollibert Phillips, *chairman, P*
Malcolm Maxwell, *ex officio*
Jon Cole, *N*
Lorne Glaim, *N*
Donald Rigby, *N*
Carolyn Stevens, *N*

ACADEMIC STANDARDS (VIII-20†) (Five-Year Terms)

Malcolm Maxwell, *ex officio chairman*
Orpha Osborne, *ex officio*
John Brunt, *N, 1984-85*
Melvin Lang, *N, 1981-82*
William Napier, *N, 1980-81*
Merlene Olmsted, *N, 1983-84*
Dan Shultz, *N, 1982-83*

ADMINISTRATIVE COUNCIL (VIII-2†) (One-Year Terms)

N. Clifford Sorensen, *ex officio chairman*
Richard Beck, *ex officio*
Ilo Hutton, *ex officio*
Donald Lake, *ex officio*
Malcolm Maxwell, *ex officio*
Walter Meske, *ex officio*
Verne Wehtje, *ex officio*
Chaplain, *P*
Claude Barnett, *P*
Loren Dickinson, *P*
Marilyn Glaim, *P*
Robert Henderson, *P*
Orpha Osborne, *P*
David Schwantes, *P*
Marianne Scriven, *P*
Dan Shultz, *P*

ADMISSIONS (VIII-21†) (Two-Year Terms)

Orpha Osborne, *chairman, P*
Victor Fitch, *ex officio*
Ilo Hutton, *ex officio*
Donald Lake, *ex officio*
Malcolm Maxwell, *ex officio*
Walter Meske, *ex officio*
Betty Duncan, *F 1981-82*
Carolyn Gaskell, *F, 1980-81*
Nelson Thomas, *P, 1981-82*
Robert Wood, *P, 1981-82*

COMPUTER USERS (Ad Hoc to Office of Academic Affairs)

Terry Anderson, *chairman*
Darl Wallace, *executive secretary*
Claude Barnett
Richard Beck
Garth Fisher
Joseph Galusha
Malcolm Maxwell
Robert Noel
Orpha Osborne
Jack Paulman
Robert Rittenhouse
Ward Soper
Dale Wagner

CURRICULUM (VIII-23†) (Five-Year Terms)

Malcolm Maxwell, *ex officio chairman*
Orpha Osborne, *ex officio*
Charles Bell, *N, 1982-83*
Richard Emmerson, *N, 1980-81*
Joseph Galusha, *N, 1984-85*
Carlos Schwantes, *N, 1981-82*

FACULTY GRANTS (VIII-3†) (Four-Year Terms)

Lawrence McCloskey, *chairman, P*
Richard Beck, *ex officio*
Malcolm Maxwell, *ex officio*
Lorne Glaim, *F, 1981-82*
Robert Rittenhouse, *F, 1980-81*
Carlos Schwantes, *F, 1983-84*
Thomas Thompson, *F, 1982-83*

FACULTY HANDBOOK REVISION (VIII-16†) (Two-Year Terms)

Beverly Beem, *chairman, P, 1981-82*
Charles Bell, *F, 1980-81*
Marilyn Glaim, *F, 1982-83*
Paul Grove, *F, 1980-81*
Lawrence McCloskey, *F, 1980-81*
Alden Thompson, *F, 1981-82*
Clarence Wood, *F, 1981-82*

FACULTY INTERDISCIPLINARY COLLOQUIUM (VIII-26†)

(Two-Year Terms)

Dale Johnson, *F, 1980-81, chairman*
Malcolm Maxwell, *ex officio*
Beverly Beem, *F, 1980-81*
Harold Ochs, *F, 1981-82*
Leonard Richter, *F, 1982-83*
Robert Sutton, *F, 1980-81*
Robert Wade, *F, 1981-82*

FACULTY SENATE (VIII-6†) (Two-Year Terms)

N. Clifford Sorensen, *ex officio chairman*
Richard Beck, *ex officio*
Elwood Mabley, *ex officio*
Malcolm Maxwell, *ex officio*
Orpha Osborne, *ex officio*
Ruth Blabey, *F, 1981-82*
Chester Blake, *F, 1981-82*
Carol Brown, *F, 1980-81*
Thomas Emmerson, *F, 1981-82*
Gordon Johnson, *F, 1980-81*
Lee Johnston, *F, 1981-82*
Merlene Olmsted, *F, 1980-81*
Sylvia Nosworthy, *F/S, 1980-81*
All Academic Department Chairmen and School Deans
Twyla Leiske, *S*
Greg Saunders, *S*
Karen Young, *S*

FINANCIAL AID (VIII-10†) (One-Year Terms)

Victor Fitch, *ex officio chairman*
Donald Lake, *ex officio*
Malcolm Maxwell, *ex officio*
Orpha Osborne, *ex officio*
Charles Amlaner, *P*
Alan Fisher, *P*

GOVERNMENT (VIII-18†) (One-Year Terms)

Donald Lake, *ex officio chairman*
Ilo Hutton, *ex officio*
Walter Meske, *ex officio*
Dale Hepker, *F*
Larry Everka, *F*

GRADUATE COUNCIL (VIII-22†) (Two-Year Terms)

Donald Rigby, *ex officio chairman*
Malcolm Maxwell, *ex officio*
Orpha Osborne, *ex officio*
Dale Wagner, *ex officio*
Joseph Galusha, *P*, 1981-82
Robert Henderson, *P*, 1981-82
Dale Johnson, *P*, 1980-81
Robert Rittenhouse, *P*, 1980-81
Gary Wiss, *P*, 1980-81

GRIEVANCE (not yet in handbook) (Two-Year Terms)

Charles Bell, *N*, 1980-81, *chairman*
Joseph Galusha, *F*, 1980-81
Wilma Hepker, *F*, 1981-82
Donald Dawes, alternate for Joseph Galusha, *F*, 1980-81
Greg Saunders, *S*
Charlene Sturges, *S*
Staff representatives and their alternates, 2, 2

HEALTH AND SAFETY (VIII-8†) (One-Year Terms)

Richard Beck, *chairman*, *P*
Charles Davis, *ex officio*
Ilo Hutton, *ex officio*
Donald Lake, *ex officio*
J. D. Losey, *ex officio*
Walter Meske, *ex officio*
Clyde Sample, *ex officio*
Helen Speckho, *ex officio*
Dan Edge, *P*
Fred Cornforth, *S*
Steve McHan, *S*
Jeannie Osborne, *S*
Kenneth Peters, *S*
Wanda Ready, *S*
Representative, Department of Health, Physical and Recreational Education

HONORS (Four-Year Terms)

Gordon Johnson, *N*, 1983-84, *chairman*
Terry Anderson, *N*, 1980-81
Roland Blaich, *N*, 1983-84
John Brunt, *F*, 1982-83
Richard Emerson, *N*, 1981-82
Hollibert Phillips, *N*, 1981-82
Marianne Scriven, *N*, 1983-84

HOUSE (VIII-2†)

N. Clifford Sorensen, *ex officio chairman*
Richard Beck, *ex officio*
Donald Lake, *ex officio*
Malcolm Maxwell, *ex officio*
Verne Wehtje, *ex officio*

LIBRARY (VIII-26†) (Three-Year Terms)

Lorne Glaim, *N*, 1980-81, *chairman*
Malcolm Maxwell, *ex officio*
Elwood Mabley, *ex officio*
Donnie Rigby, *F*, 1982-83
Vernon Nye, *P*, 1981-82
Thomas Thompson, *P*, 1980-81
James Hicinbothom, *S*
Linda Johnston, *S*

LYCEUM SOCIAL ACTIVITIES (VIII-12†) (One-Year Terms)

Lloyd Leno, *chairman*, *P*
ASWWC Social Vice President, *ex officio*, *S*
Thomas Emmerson, *F*
Philip Velez, *F*
Donnie Rigby, *P*
Dan Shultz, *P*
Steve Payne, *S*
Helen Whitehead, *S*
Karen Young, *S*

MASTER PLANNING (VIII-5†) (Four-Year Terms)

Elwin Liske, *chairman*, *P*, 1983-84
To be appointed, *chairman elect*
Richard Beck, *ex officio*
Robert Koorennny, *ex officio*
Malcolm Maxwell, *ex officio*
N. Clifford Sorensen, *ex officio*
ASWWC President, *ex officio*, *S*
Fred Bennett, *F*, 1981-82
Robert Gardner, *F*, 1982-83
Jon Dybdahl, *P*, 1983-84
Paul Joice, *P*, 1982-83
Oran McNeil, *P*, 1981-82
Gary Wiss, *P*, 1980-81

MENTAL HEALTH (VIII-7†)

Director of Counseling Services, *ex officio chairman*, *P*
Chaplain, *ex officio*
Ilo Hutton, *ex officio*
Donald Lake, *ex officio*
J. D. Losey, *ex officio*
Walter Meske, *ex officio*
Delmar Lovejoy, *P*
Vernon Shafer, *P*
Health Educator

NOMINATING (VIII-16†) (Two-Year Terms)

N. Clifford Sorensen, *ex officio*
Malcolm Maxwell, *ex officio*
Ruth Blabey, *F*, 1982-83
Reinhard Czeratzki, *F*, 1982-83
Thomas Thompson, *F*, 1980-81
Eileen Watson, *F*, 1980-81

PREPROFESSIONAL EVALUATION (VIII-9†) (One-Year Terms)

Malcolm Maxwell, *ex officio chairman*
Ilo Hutton, *ex officio*
Donald Lake, *ex officio*
Walter Meske, *ex officio*
Claude Barnett, *P*
Joseph Galusha, *P*
Melvin Lang, *P*
Clyde Webster, *P*

PREVIEW (VIII-11†) (One-Year Terms)

Clarence Wood, *chairman*, *P*
To be appointed, *ex officio*
Marilyn Glaim, *F*
Lee Loewen, *F*
Carl Bartlett, *S*
George Go, *S*

PUBLIC RELATIONS (VIII-5a†) (Two-Year Terms)

Dave Schwantes, *Chairman*
Verne Wehtje, *ex officio*
David Bullock, *P*
Victor Fitch, *P*
Ilo Hutton, *P*, 1981-82
Robert Koorennny, *P*
Kenneth MacKintosh, *P*
David Schwantes, *P*, 1980-81
Pam Ellis, *S*
Cheri Nystrom, *S*
Helen Whitehead, *S*

RANK AND TENURE (VIII-19†) (Three-Year Terms)

To be appointed, *F*, 1980-81, *chairman*
Malcolm Maxwell, *ex officio nonvoting*
Roland Blaich, *P*, 1981-82
Beverly Beem, *F*, 1982-83
Jon Dybdahl, *F*, 1982-83
Clarence Wood, *F*, 1981-82

RELIGIOUS INTERESTS (VIII-13†)

Chaplain, *chairman*, *P*
Ilo Hutton, *ex officio*
Donald Lake, *ex officio*
Malcolm Maxwell, *ex officio*
Walter Meske, *ex officio*
Gary Patterson, *ex officio*
William Napier, *P*
Sylvia Nosworthy, *P*
Ron Kyle, *S*
Kathy McHan, *S*
Church Lay Activities Leader
Faculty Advisers for SS, MV, ASWWC Religious Activities,
Spiritual Vice Presidents of EMS, AGA, OPS, Village Singles
Club, ASWWC, Senior Sabbath School Superintendent, MV
Leader

STUDENT AFFAIRS, (VIII-12†) (One-Year Terms)

Donald Lake, *ex officio chairman*
Ilo Hutton, *ex officio*
Walter Meske, *ex officio*
Donald Dawes, *P*
Dale Johnson, *P*
Robert Hunter, *F*
Larry Veverka, *F*
Eileen Watson, *F*
Gerald Barnett, *S*
Linda Johnston, *S*
Desrie Josiah, *S*
Nancy Snyder, *S*
Representative from Academic Affairs Office

STUDENT-FACULTY COUNCIL (VIII-4†)

The membership of this committee is determined by numerous *ex officio* designations and selections made by several campus organizations.

STUDENT FINANCE (VIII-10†) (One-Year Terms)

Richard Beck, *ex officio chairman*
Victor Fitch, *ex officio*
Ilo Hutton, *ex officio*
Walter Meske, *ex officio*
Lawrence Claridge, *P*
Thomas Thompson, *P*
Rodney Wehtje, *F*
Dale Lampson, *S*
Dale Tupper, *S*

STUDENT INVOLVEMENT (VIII-15†) (Two-Year Terms)

John Brunt, *chairman, P*
Reinhard Czeratzki, *F, 1980-81*
Glen Greenwalt, *F, 1981-82*
Ann Campbell, *S*
Mark Rearick, *S*
Chris Ricks, *S*
Wally Sackett, *S*

SUMMER SESSION (Two-Year Terms)

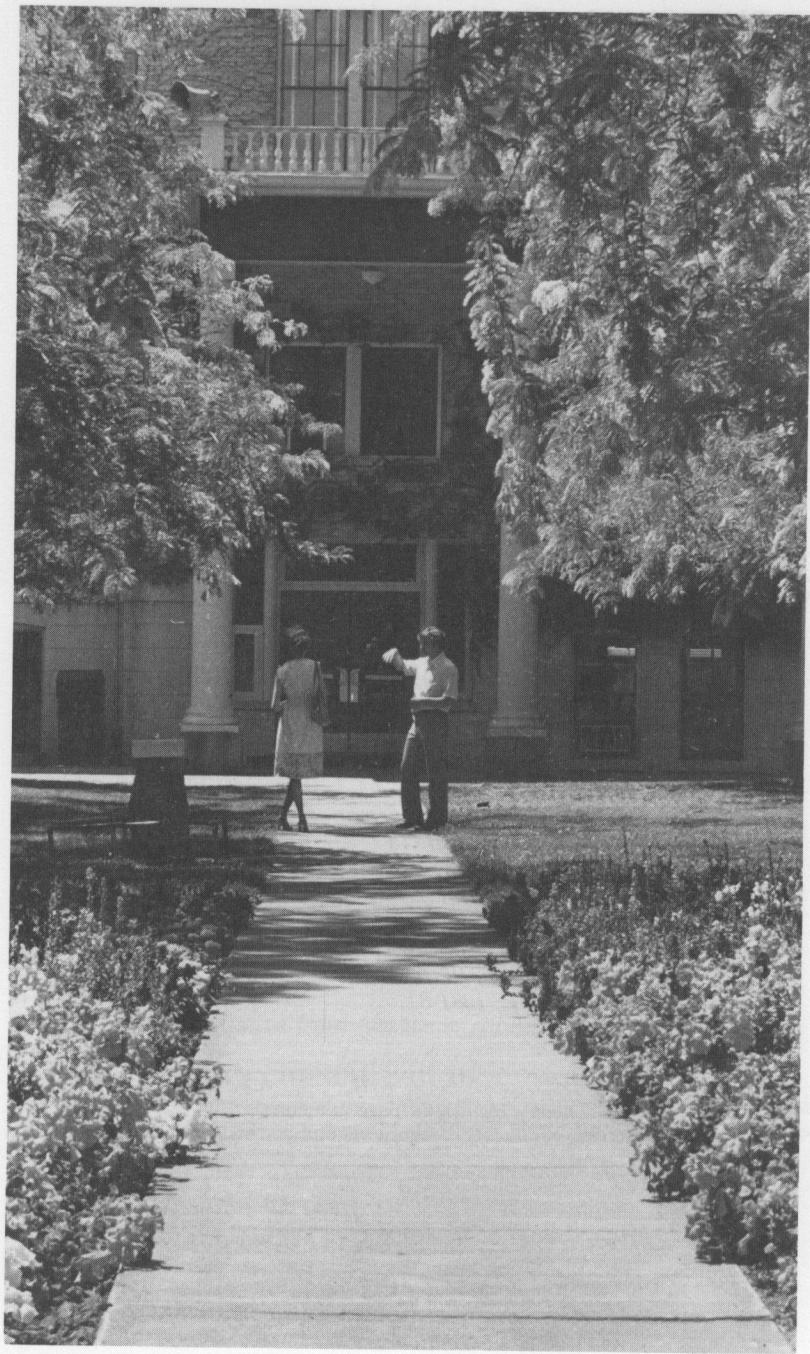
Melvin Lang, *ex officio chairman*
Joseph Galusha, *ex officio*
Malcolm Maxwell, *ex officio*
Dale Wagner, *ex officio*
Janene Turner, *N, 1981-82*
Rodney Wehtje, *N, 1980-81*

TEACHER EDUCATION COUNCIL (VIII-24†)**(One- or Three-Year Terms)**

Dale Wagner, *ex officio chairman*
Malcolm Maxwell, *ex officio*
Joseph Galusha, *F, 1981-82, ii***
Elwin Liske, *F, 1980-81, ii*
Harold Ochs, *F, 1980-81, iii*
Merlene Olmsted, *F, 1980-81, i*
Carolyn Stevens, *F, 1981-82, i*
Larry Veverka, *F, 1981-82, i*

†Walla Walla College Faculty Handbook page number.

**These numerals refer to committee categories as outlined in the *Faculty Handbook*.



AIMS AND OBJECTIVES

Walla Walla College is operated in harmony with the beliefs, practices and educational philosophy of the Seventh-day Adventist Church.* The College determines its academic policies and offerings in accordance with the following assumptions:

1. That the central mission of the church remain central to the concerns of the College, however variously it may express itself;
2. That a college at best is a community of teachers and students engaged in a search for truth;
3. That a college should be a place where teachers and students from among all peoples can meet and work together in peace for their good, the good of all men, and the glory of God;
4. That a college education should help develop the individuality of each student.

Cognizant of the power of a good education to cultivate the best that man, under God, is capable of, Walla Walla College strives to meet the needs of individuals and of society, keeping the following as its basic objectives:

1. To provide conditions that will encourage physical, social, intellectual and spiritual development, and to teach principles that stress the interdependence of these aspects of man's life and the need for proper balance among them;
2. To present the ideals and principles of Christianity in a manner that will promote the development of a Christian life characterized by understanding, integrity, responsibility and tolerance, as well as commitment to God and service to man;
3. To make the college community a place where, regardless of sex, creed, culture, race or nationality, students can meet and pursue their academic goals in dignity and peace;
4. To encourage independent thinking.

To accomplish the goals listed above, Walla Walla College seeks, more specifically, to provide:

1. A sound general education in the arts, humanities, mathematics, social and natural sciences and the Christian heritage;
2. A thorough instruction in a number of technical and industrial areas;
3. A thorough instruction in a specified field.

*For a more complete statement of the fundamental beliefs of Seventh-day Adventists, see the *Seventh-day Adventist Church Manual* (Washington, D.C.: 1971).



STUDENT LIFE

The college is concerned with the education of the total person for happy and effective campus living. It provides a broad range of cultural, social, religious and recreational activities to add depth and maturity for a Christ-centered life.

THE COLLEGE CAMPUS

Walla Walla College is located in the City of College Place, in the historic, fertile Walla Walla Valley of southeastern Washington. The Old Oregon Trail, near the campus, leads directly to the site of the old mission which was conducted by Marcus Whitman from 1836 to 1847. It has recently been reconstructed by the federal government as the Whitman Mission National Historic Site. The scenic Blue Mountains to the east and the Snake and Columbia Rivers to the north and west are but a few minutes' drive from the campus, and offer unusual opportunities for recreation and relaxation.

The College, in successful operation since December 7, 1892, was established in harmony with a resolution unanimously adopted at the General Conference of Seventh-day Adventists held in Battle Creek, Michigan, in 1891.

The college buildings are situated on a 55-acre campus dotted with maple and sycamore trees. Other buildings belonging to the College are located on adjoining lots of land, totaling 22 additional acres.

PORLAND ADVENTIST MEDICAL CENTER. In addition to the College Place campus, Walla Walla College also utilizes the large plant of Portland Adventist Medical Center, located at Portland, Oregon, where the students in nursing obtain their clinical practice.

New academic and residence hall buildings provide Portland campus students with modern and comfortable facilities. Ample classrooms, a large library, skills laboratory and faculty offices are housed in the academic building. The residence hall provides living and recreational accommodations for up to 134 students.

MARINE STATION. This facility occupies 40 acres of beach and timberland at Rosario Beach adjoining Deception Pass State Park, Anacortes, Washington. The physical plant includes five laboratory buildings, a kitchen and assembly hall, shop and 29 cabins for student and staff housing.

PETERSON MEMORIAL LIBRARY. The library is a vital part of the educational program at Walla Walla College. The building was completed in 1944 and remodeled in 1964. Reading room accommodations, the open-shelf system, seminar and conference rooms, a periodical room and a listening/viewing facility, contribute to the study and enjoyment of learning materials. Microreaders make accessible microforms of scholarly material. The curriculum library, located in Smith Hall, contains a large selection of textbooks, children's literature books, a collection of mounted pictures, filmstrips, tapes and phonorecords. The library on the Portland campus serves specifically the students of nursing assigned there to obtain their clinical practice. The combined libraries contain approximately 130,000 volumes. An average of 4,500 volumes is accessioned annually. There are about 910 currently received periodicals. Periodical indexes and other bibliographical aids are also available. Resources in other libraries are available to graduate students and faculty members through the library's membership in the Pacific Northwest Bibliographic Center, which serves as a clearinghouse for interlibrary loans.

PUBLIC INFORMATION

The Family Educational Rights and Privacy Act of 1974 provides that the College will make every effort to maintain student records in confidence. With the exception of faculty and administrative officers who have a legitimate need to use student records, no student information other than public information will be given to any third party without the consent of the student.

Students have the right to withhold the disclosure of any or all of the "Directory Information" listed below.

CATEGORY I Name, address, telephone number, class standing, major, class schedule.
(In Student Directory)

CATEGORY II Parents' name, address, and telephone number. Month and day of student's birth.
(Available only upon specific request.)

The above information is released except when students indicate in writing that the information is to be withheld.

Copies of the Act, amendments subsequent to this Act and HEW guidelines are available in the Office of Student Affairs. Students have the right to inspect and review official records, files and data directly related to them kept by any office of the College. This request should be made in writing to the administrator responsible for the record. Requests will be processed within 45 days from the date the request is filed.

STUDENT CONDUCT

Walla Walla College is regarded as a conservative, private, coeducational, church-related (Seventh-day Adventist) college. Its primary objective is the development of Christian character. There is, therefore, a continuous effort to maintain an atmosphere in which students may develop character and obtain an education for lives of useful service.

Students are expected to act as responsible citizens and members of a Christian community conducted in accord with the ideals of the Seventh-day Adventist church. This standard of conduct expected by the College is presented in detail in the *Student Handbook*. Application to enroll in the College is viewed as evidence that the student has chosen to live by the practices and regulations which appear in official college publications, or as announced during the school year.

RELIGIOUS ACTIVITIES

CHAPEL. Chapel, held each Wednesday and assemblies held three times each quarter are regarded as a vital part of the total education program at Walla Walla College, and all undergraduate students are required to attend.

CHURCH AND SABBATH SCHOOL. The Walla Walla College Church with a membership of approximately 1,500, provides opportunities for group worship and offers training in missionary endeavor and church organization.

The Sabbath School provides leadership training and teaching experiences for college students who wish to develop their abilities in religious education.

MISSIONARY VOLUNTEERS. Missionary Volunteers is a student-operated organization that promotes religious understanding and activity. Besides providing Friday evening programs, typical activities include: providing tutors for labor camps, arranging a variety of Sabbath afternoon service projects, conducting weekend lecture series and sponsoring student missionaries.

SABBATH OBSERVANCE. The seventh-day Sabbath is observed at Walla Walla College from sunset Friday to sunset Saturday, and all students are expected to conduct themselves in harmony with the sacred nature of the day. This includes attendance at the Friday evening devotional service, as well as Sabbath School and church service on Sabbath morning.

Walla Walla College sponsors several organizations and activities which aid in training the students for Christian service.

HOUSING FOR STUDENTS

APARTMENTS. The College owns 50 units of one- and two-bedroom apartments which are available for married students. These apartments rent for reasonable amounts. There are also apartments in the community, furnished and unfurnished, in which married students may live. For information, write to the director of college services.

RESIDENCE HALLS. All unmarried students taking one class or more are required to live in one of the college residence halls and to board in the college cafeteria, unless they live with their parents.

Under special circumstances, students may make application to the Student Affairs Committee for permission to live off the campus in an officially approved home. Such applications are filed with the office of student affairs and will be processed only at the beginning of a quarter. Failure to secure official approval to reside in the community or to withdraw from a college residence hall will invalidate the registration of the student. Students who have received approval for off-campus living may be called into the college residence halls at any time.

Conard Hall. Conard Hall offers comfortable accommodations for 400 women, together with such features as a large worship room done in church style, a recreation room and attractive parlors.

Foreman Hall. Completed in October 1970, Foreman Hall houses 206 upper-division women students. Using a modular design, the building is unique in providing elevator service and individual floor parlors.

Hallmark Apartments. This 49-unit complex provides residence hall housing for single men and married students.

Residence Hall, Portland Campus. Completed in 1978, this is a residence hall for unmarried students located adjacent to the School of Nursing and the Portland Adventist Medical Center.

Sittner Hall. Erected in 1947 and expanded in 1960, Sittner Hall accommodates approximately 500 resident men. There are lounges, a recreation room and new health club facilities.

Whitman Lodge. A men's residence hall adjoining the college campus which accommodates 45 junior and senior men.

ACADEMIC ADVISEMENT, TEACHING-LEARNING CENTER, COUNSELING, TESTING, PLACEMENT

FRESHMAN ADVISEMENT. The freshman advisement program is designed to assist freshmen toward making maximum use of their college experience beginning with freshman orientation and continuing throughout the school year. Each freshman is assigned an adviser by the coordinator of the program prior to the beginning of freshman orientation.

ACADEMIC ADVISEMENT. All academic advisers are assigned by the department chairman. Students will consider the chairman of the department in which they major to be their faculty adviser in all matters relating to their academic program unless the chairman designates another faculty member as the academic adviser. Students planning to teach on either the elementary or secondary level should also consult with the chairman of the department of education and psychology.

TEACHING-LEARNING CENTER. All Walla Walla College students may use the services of the Teaching-Learning Center. Students may go to the center, free of charge, to get individualized help with writing, grammar, spelling, reading, mathematics and study skills. (Students may take up to six hours of developmental reading for elective credit.) The center also offers free tutoring for freshman and sophomore classes. Students may sign up for individual tutoring, or they may attend the drop-in sessions for mathematics, chemistry, biology and accounting. The center, which is open six days a week, also offers free mini-courses on a variety of topics.

PREPROFESSIONAL PROGRAMS. Certain faculty members have been appointed to serve as the academic advisers to students preparing for careers in various professional vocations (see the Preprofessional Program section of this bulletin).

COUNSELING SERVICE. The Counseling Center seeks to assist students toward effective use of their personal resources and opportunities. Counseling appointments for social, occupational or personal concerns may be made through the center's secretary. Referral services to area professionals are also available.

TESTING SERVICE. Individual and group interest, aptitude and personality tests are administered by the Counseling Center. The College also serves as an official testing center for all professional school admissions tests such as the Medical College Admissions Test (MCAT), Dental Aptitude Test (DAT), Undergraduate Assessment Program (UAP) and the Graduate Record Examination (GRE), as well as the Law School Admissions Test (LSAT) and the Graduate Management Admissions Test (GMAT). Information and administration dates may be procured from the Counseling Center.

PLACEMENT. Services of the placement bureau include assistance for full-time career positions after graduation, continuing placement service for alumni, as well as appointments for interviews with various professional organizations. Seniors seeking employment assistance should apply for placement services at the beginning of the senior year. A placement bulletin is published yearly and is distributed to all personnel directors and educational administrators of Seventh-day Adventist institutions in North America. This bulletin includes a picture and personal résumé of each graduation candidate. Individual placement files are established and maintained by the placement bureau at the request of the student under the direction of the vice president for student affairs.

COLLEGE ENTRANCE EXAMINATION. ACT (American College Testing Program) test scores must be submitted by all entering freshmen and transfer students with fewer than 30 quarter credits. Students without these test scores will be provisionally admitted (provided other criteria are met) until they have taken the ACT either prior to registration or during one of the regularly scheduled on-campus administrations of the test during their first quarter in residence.

All Seventh-day Adventist senior academies in the North Pacific Union Conference are testing centers for ACT, providing these services on a non-Saturday schedule. High school students and others not enrolled at these academies are invited to write or telephone the guidance counselor at the academy of their choice to obtain information regarding participation in the ACT testing program.

MEDICAL EXAMINATION. The health services of the College are in charge of a registered nurse who functions under the direction of the college physician. In order to give efficient service and aid in cases of illness and accident, it is required that all new students present a certificate of a recent physical examination. Approved forms are available in the admissions office.

REGULAR ADMISSION

Applicants for admission to the College should have graduated from a recognized secondary school. All students with high school backgrounds must present the following for admission:

	Semester Periods
English	30
History	10
Science	10
Mathematics	10*

**Algebra and Geometry highly recommended.*

In addition to the above requirements for admission, the following semester periods are highly recommended for entrance into the college curriculum:

	Semester Periods
Foreign Language	20
Social Studies	20
Science (additional)	10
Mathematics (additional)	10

ENTRANCE REQUIREMENTS FOR CHOSEN CURRICULUMS. Certain major areas of study require specific subjects prior to admission into their curriculums. Please refer to the specific description and listing of the major. Applicants who are deficient in subjects required for entrance into their chosen curriculum will be (1) required to present secondary credit to cover the deficiency; or (2) successfully complete a waiver examination by the end of the first year of registration in that curriculum; or (3) take additional college course work in areas approved by the major adviser.

ADMISSION BY EXAMINATION

HIGH SCHOOL EQUIVALENCY. Mature persons who have not completed secondary school or who are unable to furnish a transcript of credits may be admitted to freshman standing on the basis of a high school equivalency diploma. Such students will have obtained an average standard score of 50 on the five sections of the General Education Development (GED) Test, with no score less than 45 on any one section. The student must be at least 18 years of age when the test is taken and four years must have elapsed since the student's eighth grade graduation.

CALIFORNIA HIGH SCHOOL PROFICIENCY EXAMINATION. Applicants who are under 18 years of age, but have successfully passed the California High School Proficiency Examination, may be considered for admission provided that (1) a minimum of two years of high school has been completed; (2) a score equal to the average entering freshman on the Washington Pre-College Test (or an equivalent examination) has been obtained; (3) written parental permission has been given; (4) the application letter lists reasons, goals and objectives for acceleration. A copy of this letter will be sent to the high school principal and residence dean/counselor for their reactions and recommendations.

NONMATRICULATED ADMISSION

SPECIAL ADMISSION. Mature individuals ineligible for regular admission may be admitted as special students, and may register for any course for which they have sufficient background. Special students are not eligible for a degree; however, by completing requirements for regular admission, special students may become degree candidates.

GUEST ADMISSION. Students who have been in residence at other institutions of higher learning and who are not candidates for a degree from Walla Walla College may be classified as guest students. The guest student must show evidence that he is in good and regular standing at the university or college to which the credits are to be transferred.

FOREIGN STUDENT ADMISSION

Applicants must have met the college or university entrance requirements of their native country or have the competencies equivalent to high school graduation. If English is not the native language, the applicant must pass a proficiency test in English (TOEFL) with a minimum score of 500 or the Michigan Test in the 75th percentile. Before final acceptance is given and an I-20 form sent to the applicant, the applicant must have \$1,000 on deposit with the College.

ADMISSION OF TRANSFER STUDENTS

APPROVED COLLEGES. Applicants who have attended approved institutions of higher education and who have on file in the office of admissions and records official transcripts showing a minimum grade-point average of 2.00 on all course work taken may be admitted to advanced standing. Students transferring from other institutions may be required to take validating examinations should they wish credit to be transferred to Walla Walla College. Failure to indicate that work has been taken at other institutions at the time of application invalidates any admission.

COMMUNITY COLLEGE. A maximum of 96 quarter hours may be transferred from an accredited community or two-year college. (see Concurrent Registration, p. 41). A maximum of 108 quarter hours may be transferred from Canadian Union College.

ENGINEERING STUDENT TRANSFERS. Students enrolled in the Engineering affiliation program will be allowed to graduate under any official Walla Walla College bulletin in effect since the time they first enrolled on an affiliated campus as an engineering student provided that the bulletin chosen has been current at some time within three academic years prior to the first year at Walla Walla College. Any student who withdraws from engineering studies for a continuous period of one year or more will forfeit the right to graduate under bulletins which were current prior to his withdrawal.

SENIOR. A transfer student with senior standing must be in residence three consecutive quarters and must complete a minimum of 36 quarter hours including nine quarter hours of upper-division work in the major and three upper-division quarter hours in the minor.

ACADEMIC INFORMATION AND POLICIES

ACADEMIC POLICIES

Academic policies developed in the course of the school year and announced to the students have the same application as those published in this bulletin. Those wishing any exception to published policy may petition to the Academic Standards Committee. Forms for this purpose are available at the office of admissions and records.

The academic year is divided into four quarters. The summer session is regarded as the first quarter of the academic school year.

REGISTRATION

All students are required to register on designated days at the beginning of each quarter. Registration is not official until all procedures required by the College have been completed and all fees have been paid. Faculty advisers are available to assist students with registration and in the planning of academic programs.

FRESHMAN ORIENTATION. During the first week of the autumn quarter all entering freshmen are required to attend the orientation program. Counseling and instruction concerning study skills, registration and college regulations are given. Several tests designed to guide students in planning individual programs are also administered.

CHANGES IN REGISTRATION. Changes in registration may be made during the first four days of instruction without charge. No course change is permitted after the first four days without the permission of the instructor and the academic adviser involved. A charge of \$1 for each course added or dropped is made after the first four days of instruction. Courses may not be added after the second week of any quarter.

LATE REGISTRATION. Students who register after the designated registration periods are charged a late registration fee of \$15. Students may not register after the second week of a quarter without permission of the director of admissions and records and the instructors involved. Late registrants may expect a reduction in course load.

CONCURRENT REGISTRATION. Students registered at Walla Walla Col-

lege are not permitted to enroll for courses in neighboring colleges without prior approval of the House Committee.

WITHDRAWALS

INDIVIDUAL COURSES. Students withdrawing from individual courses must submit a Change of Registration voucher to the records office signed by the instructor involved and the student's adviser. The final date for dropping a course is the third Wednesday prior to test week. Consult the Academic Calendar for specific dates.

ALL COURSES. Students withdrawing from all classes must submit an official Class Drop Voucher to the records office. It must be signed by: (1) Major Professor (2) Student Accounts and Employment Officer (3) Vice President for Student Affairs (4) Director of Records.

COURSE LOAD

The academic study load at Walla Walla College is described in terms of quarter hours. A quarter hour normally represents one class meeting a week or three hours of laboratory work a week for the duration of the quarter. Thus, a three-quarter-hour class would meet three times each week. For each "quarter hour" of credit earned, a student is expected to spend two clock hours a week in outside preparation or three hours a week in supervised study or laboratory work.

The normal load is 16 hours per quarter. Sophomores, juniors and seniors may request to register for 18 quarter hours if their grade-point average for the previous quarter was 3.00 (B). In general, the full study load for graduate students is 12 quarter hours. Undergraduate students on scholastic probation ordinarily should carry a reduced course load.

Students in college residence halls are charged for and should register for a minimum of 12 hours per quarter, except seniors in their final quarter who need less than 12 quarter hours to graduate.

The following study loads will satisfy the authorities indicated:

Immigration Authorities	12 quarter hours
Social Security	12 quarter hours
Veterans	12 quarter hours

COURSE NUMBERING

The course numbering sequence is designed to reflect in varying degrees a progression in course content, level of approach and breadth of coverage. The course description further delineates specific course content progression. This information provided by the course number, prefix and description should serve as a general guide to the student in selecting courses compatible with his own background and ability.

In general, the following guidelines have been used in course numbering:

The first numeral indicates academic level of the course:

- 100-199 Courses normally taken during the freshman year
- 200-299 Courses normally taken during the sophomore year
- 300-399 Courses normally taken during the junior year
- 400-499 Courses normally taken during the senior year
- 500-599 Graduate-level courses

If the second numeral is a 0 or 1 it indicates that the course is primarily a service course and generally will not apply toward the major.

The third numeral will indicate course sequencing. If the third numerals are 1, 2 and 3 it indicates that each course in the sequence is a prerequisite to the next.

The credit indicated in connection with each course is the "quarter hour," and one quarter hour represents one recitation period per week for one quarter.

The College will make every effort to consistently offer all courses at appropriate intervals. It does reserve the right, however, to alter the sequences or drop courses if unforeseen circumstances in class enrollments, teacher staffing, etc., so dictate. The CLASS SCHEDULE should be consulted for personal planning of course loads and schedules.

The College reserves the right to withdraw temporarily any course which does not have an adequate enrollment. A course may not be offered for fewer than six students except in the case of seniors or graduate students.

ADMISSION TO UPPER DIVISION. In view of the course gradation reflected in the numbering system, a student should plan to take courses numbered 300 or 400 only after he has earned 84 quarter hours and completed the lower-division general studies requirements. However, a student may register for upper-division courses with the permission of his department chairman and the instructor of the course provided he has completed ENGL 121, 122, College Writing; and has completed 48 quarter hours of course work.

GRADUATE. Course numbers 500 to 599 designate fifth-year college courses.

Seniors who wish to take graduate (500) courses must submit for evaluation an approved senior outline and transcript to the Graduate Council. Approval to register for a course is given only after determination of eligibility for admission to the Graduate School. Credits taken under any circumstances will not apply to a graduate program without completed graduate application forms and registration approval.

For admission to the graduate program, students should consult the *Graduate Bulletin*.

UNIFORM COURSE NUMBERS

By general agreement certain course numbers are reserved for classes that are of such a general nature as to be found in many different departments. The prefix assigned to the number designates the discipline. The following are courses that carry uniform numbers through this bulletin:

200; 400 TOPICS	1-4; 6
Each academic department may offer topics courses in specialized or experimental areas on either the lower division or advanced level. These courses are conducted through regular class activities and are approved as a one-time offering by the Curriculum Committee. One to four hours per quarter.	
274; 474 WORKSHOPS	1-4; 6
277; 477 INDEPENDENT STUDY	*1-3; 6
Each academic department may offer directed, independent study in an approved area. The student will be required to read widely on an assigned subject, follow regular research methods, and present a paper and/or project showing competence in the study. Independent study requires an advance written proposal and subsequent evaluation. All independent study must be approved by the department chairman who in turn will assign an adviser for the completion of this study. Special instructional procedures for off-campus independent study are available at the office of the vice president for academic affairs. Course 477 is open only to majors and minors. One to three hours per quarter; maximum six hours. Nine quarter hours of independent study is the maximum amount of credit allowed toward the 192 hours required for graduation.	
*Except for Student Missionaries and Taskforce workers who may take a maximum of six hours in one quarter.	
370; 490 DIRECTED FIELD WORK/PRACTICUM/EXPERIENCE	2-16
471 GENERAL SECONDARY METHODS COURSE (see Education)	2
472; 473 DEPARTMENTAL METHODS COURSES	3
495 COLLOQUIUM	0
396; 496, 497, 498 SEMINAR	1-4; 4

CLASSIFICATION OF STUDENTS

FRESHMAN. Applicants for admission to the College who fulfill the entrance requirements for their chosen course of study are listed as freshmen.

SOPHOMORE. Students who have met the entrance requirements of their chosen course of study and who have a minimum of 45 quarter hours with a grade-point average of at least 2.00 are listed as sophomores.

JUNIOR. Students who have a minimum of 90 quarter hours with a grade-point average of at least 2.00, who can complete degree requirements by the end of the following school year, are listed as juniors.

SENIOR. Students with a minimum of 136 quarter hours with a grade-point average of at least 2.00 and who can complete all degree requirements during the current school year are eligible for senior class membership.

POSTGRADUATE. Students who have completed a baccalaureate degree and are registered for work which does not ordinarily apply toward an advanced degree.

GRADUATE. Students who have applied for and have been accepted into one of the graduate programs.

SPECIAL. Students who do not meet college entrance requirements or who do not wish to qualify for a degree, but who wish to take certain courses on a credit or an audit basis.

AUDIT. Students who audit classes must register in the usual manner and pay the full tuition but are not required to do class assignments or sit for tests. They receive no grades and no credit. Students with a minimum cumulative 3.0 GPA taking 13-16 hours are allowed to audit classes provided they: (1) do not expect to receive credit for classes they audit, (2) receive prior approval of the instructor and registrar, (3) pay a \$10 class enrollment fee for each course and any extra expenses as appropriate.

GRADING SYSTEM

The quality of student effort is measured by a system of grades and by computed grade-point averages. The grade-point average is computed by totaling the grade points for all courses and dividing by the total quarter hours for which grades are received. **Only the best grade of a repeated course will be calculated in the grade-point average.** The symbols S, I, X and NC are disregarded in computing the grade-point average. A report of grades earned is made to students at the end of each quarter. With the student's written permission, a copy of his/her quarterly scholarship record will be sent to the parents or guardian.

The following system of grades and point values is used:

A — Excellent	4 grade points per quarter hour
B — Above Average	3
C — Average	2
D — Below Average	1
F — Failure	0
S — Satisfactory	

Optional mark for work equal to a grade of C or better. Also applicable to satisfactory or passing work in courses for which a conventional letter grade is not available.

W — Withdrawal

Courses dropped during the first two weeks of the term will not appear on the student's record. Courses dropped thereafter will appear on the permanent record with a W.

X — Unofficial Withdrawal

I — Incomplete

The Incomplete is given in case of incomplete work due to justifiable cause and must be made up three weeks before the close of the following quarter; otherwise the instructor records the grade earned, taking into consideration all course requirements.

NC — No Credit

Indicates that credit was not earned because: (a) The student opted for an S/NC mark but performance was below level of a C grade (see Optional S/NC Grading Policy following); (b) The course was evaluated with a mandatory S/NC mark but performance did not meet the minimum standards for a satisfactory grade. Some professional schools calculate the NC mark as an F grade when computing the grade-point average.

AU — Audit

S/NC GRADING POLICY. The purpose of this option is twofold (1) to encourage students to explore areas outside of their own areas without fear of lowering their grade-point averages; (2) to reduce the anxiety and pressures stemming from letter-grade competition in courses which are not particularly important for the individual.

In any course not used to satisfy major, minor, cognate, or teaching credential requirements, other than those specified as mandatory S/NC courses, a student may submit a written request to the records office for the grade to be recorded as S for satisfactory or NC for no credit. **The request for an optional S/NC evaluation may be made any time up to the Wednesday prior to test week of each quarter.** Printed forms are available in the records office for this purpose. This form also warns the student that he/she is responsible for any future complications that might arise due to his misuse of the S/NC option.

Teachers will report a letter grade for every student to the records office according to the conventional five-letter system. For students requesting an S/NC mark, the records office will record an S for any grade of C or above and NC for any grade less than C. Teacher signatures will not be required. However, with some programs, departments may want to give consideration to the advisability of having advisers approve the student options.

Quarter hours with an S-mark may count toward graduation requirements but will not be included in the computation of a student's grade-point average.

A student may elect to take as many courses as desired on an S/NC basis. However, the maximum credit with an S-mark which may be applied toward graduation requirements is 20 quarter hours for the baccalaureate degree and 10 quarter hours for an associate degree. These maximums are in addition to any mandatory S/NC courses that the student may be required to take for graduation or teacher certification.

A student wishing to transfer S/NC type grades from another institution may do so if such quarter hours are approved for major, minor, or other specific requirements — these will be regarded as mandatory S/NC credits. The maximum number of acceptable S/NC transfer credits permitted beyond the mandatory category will be 20 quarter hours for the baccalaureate degree and 10 quarter hours for an associate degree.

Once a student has requested an S/NC option, an S-symbol may be changed to a conventional letter grade only if changes in the student's program make the quarter hours essential for major, minor, or teaching credential purposes. Such changes will be made only in the year of graduation.

GRADING REGULATIONS

ERRORS AND CORRECTIONS. Grade reports are issued at the close of each quarter. Upon the receipt of a grade report, the student should carefully check it for correctness as to the courses recorded, quarter hours and grades. Any error should be reported within two weeks.

SCHOLASTIC PROBATION. A student who fails to make satisfactory progress toward graduation will be placed on scholastic probation. A quarter of

cumulative grade-point average below 2.00 (C) is considered unsatisfactory and will bring the student's record under review by the vice president for academic affairs. Students whose cumulative grade-point average falls below 2.00 (C) are automatically placed on scholastic probation, and they remain so classified until the overall grade-point average is again 2.00 (C) or better.

DEAN'S LIST. The vice president for academic affairs maintains a list of those students who have earned a minimum of 15 hours per quarter (excluding "S" and "I" credits) and achieved a grade-point average of 3.5 or better.

GRADUATION WITH HONORS. Candidates for the baccalaureate degree with a minimum grade-point average of 3.50 may be awarded the degree with honors, *cum laude*.

CREDIT BY EXAMINATION

Walla Walla College recognizes that students who have independently achieved college-level proficiency on the basis of work experience and study may receive credit for what they already know by challenging comparable classes offered by the College. Certain college classes may not be challenged.

COURSE CHALLENGE EXAMINATIONS. A challenge examination is a college-prepared or a standardized examination which, if successfully completed, will yield regular college credit. A student wishing to challenge a course must first obtain permission from the chairman of the department in which the course is offered and then the permission of the course instructor. The student must take the examination before enrolling for further study in the field of the examination. The challenge examination may not be repeated and must be taken *prior* to the final quarter of residence. A fee is charged as indicated under the heading "Special Fees" of the Financial section of this bulletin.

VALIDATION EXAMINATIONS. Students who have transcripts from nonaccredited colleges and /or transcripts showing nontransferable college courses may request to take validation examinations in courses which are comparable to those offered by Walla Walla College. Upon successful completion of the examination, the student will be given credit in the comparable college course. A student must first obtain permission from the chairman of the department in which the course is offered and then the permission of the course instructor. A fee is charged as indicated under the heading "Special Fees" of the Financial section of this bulletin.

ADVANCED PLACEMENT EXAMINATION (CEEB) and COLLEGE-LEVEL EXAMINATION PROGRAM (CLEP). Regular college credit may also be established by successful completion of either an Advanced Placement examination or the College-Level Examination Program (CLEP) as outlined below.

Advanced Placement (CEEB). Secondary school students who have had special preparation via advanced placement courses should plan to take the

College Entrance Examination Board (CEEB) advanced placement examination. This test is administered by various secondary schools in May of each year and is graded on a five-point scale: 1 = no recommendation; 2 = possibly qualified; 3 = qualified; 4 = well qualified; 5 = extremely well qualified. Walla Walla College grants credit to students receiving a three or better on this test and accordingly waives further college general studies requirements in the course.

College-Level Examination Program (CLEP). There are two types of CLEP examinations—General and Subject. Walla Walla College grants credit for Subject Examinations only. The Guidance and Counseling Center administers these tests in the third week of each month. Candidates should consult with the center for application forms and other specific information.

In addition to the testing fee, a fee is charged for credit earned by CEEB and CLEP as indicated under the heading "Special Fees" of the Financial section of this bulletin.

A number of subject-matter examinations are offered by CLEP. Students obtaining the percentile established by the department will receive credit toward that basic requirement.

ENGLISH 121 COLLEGE WRITING:

Students who earn a 50th percentile on a subject examination will receive credit for ENGL 121 upon satisfactory completion of the departmental essay. Students who earn a 70th percentile will receive credit for ENGL 121 on the basis of the test score alone. All students must take ENGL 122, which covers research methodology.

BIOLOGY 101, 102, 103 GENERAL BIOLOGY:

Students obtaining the 70th percentile in the "Biology" examination will receive 12 quarter hours to fulfill the basic science requirement.

MATHEMATICS 117 PRECALCULUS:

Students obtaining the 50th percentile in the "College Algebra-Trigonometry" test will receive 5 quarter hours which will partially fulfill the basic science requirement.

MATHEMATICS 121 FUNDAMENTALS OF MATHEMATICS I:

Students obtaining the 50th percentile in the "College Algebra" test will receive 4 quarter hours which will partially fulfill the basic science requirement.

MATHEMATICS 181, 281 CALCULUS I, II:

Students obtaining the 55th percentile in the "Calculus with Analytic Geometry" examination will receive 8 quarter hours which will partially fulfill the basic science requirement.

HISTORY 221, 222 HISTORY OF THE UNITED STATES:

Students obtaining the 60th percentile in the "American History" examination will receive 9 quarter hours to fulfill the basic history requirement.

Restrictions. The following restrictions apply to all credit earned by examination whether by a college-prepared examination, CEEB or CLEP:

1. Students must be currently enrolled before credit by examination can be recorded on the permanent record.
2. Credit by examination may be earned only if the student has not already earned credit in a similar lower- and upper-division course.
3. A maximum of 24 quarter hours by examination may be counted toward a baccalaureate degree excluding validation examinations.
4. An "S" grade is recorded on the permanent record and the grade-point

average is not affected. Students must earn a grade no lower than "B" on college prepared examinations in order to receive credit (except Nursing, see p. 212). Unsuccessful attempts are *not* recorded.

5. Challenge examinations, including CEEB and CLEP, may *not* be repeated.
6. Repeat course work is not open to credit by examination.
7. Credit by examination may not be established for remedial course work.
8. Credit by examination may not be earned to make up "F" grades.

COURSE WAIVER EXAMINATIONS. A student may meet an academic requirement, within specified limits, by passing a waiver examination at least equal in scope and difficulty to a final examination in a course. Successful completion of the examination waives the curricular requirement but does *not* result in credit earned. Thus, it does not reduce the total number of quarter hours required for a degree but will increase the available number of elective hours. The waiver examination is administered by the department in which the course is offered and may *not* be repeated. Waiver examinations must be taken *prior* to the final quarter of residence. A fee is charged as indicated under the heading "Special Fees" of the Financial section of this bulletin.

APPLICATION FORMS. Application forms for challenge, validation and/or waiver examinations may be obtained from the admissions and records office.

TRANSFER CREDIT BY EXAMINATION. Credit earned by examination may be transferred from other educational institutions provided such credit meets the guidelines used by Walla Walla College for credit by examination.

REPEAT COURSES

Students may repeat a course in which credit has been granted and grades have been received; however, academic credit may be earned only once. Regardless of the number of times a course is repeated, only the best grade will be computed in the grade-point average, though all grades will remain on the permanent record. This repeat work must be taken in a regularly offered class. Challenge examinations, independent or directed study arrangements are not allowed for repeat course work. Repeat course work for which an F has been received must be completed in residence unless permission to do otherwise is granted by the Academic Standards Committee.

CLASS REGULATIONS

Students are not officially registered for a course until the instructor has been informed by the records office. The student is responsible for punctual and regular attendance at all classes for which he is registered. It will be recognized that missing instruction for any reason may jeopardize the class standing and course grade. Students will not be permitted to register for two classes which meet concurrently.

CORRESPONDENCE WORK

The College will accept a maximum of 24 quarter hours of approved courses by correspondence toward a degree. Correspondence work will not meet upper-division requirements, nor can a student who has failed a course make this up by correspondence study. Students must obtain approval from their major department chairman in order to carry correspondence work while in college. Correspondence work may not apply on a major unless approved by the department chairman concerned. Transcript deadline for correspondence work for June graduates is May 15; for August graduates, July 15.

The Home Study Institute, Washington, D.C., is a member of the Seventh-day Adventist school system in the United States, and while we recommend this correspondence school, students may take correspondence from any accredited correspondence school. Further information may be obtained from the admissions and records office.

FINAL EXAMINATIONS

All students are expected to take final examinations as scheduled. Special administrations are arranged by petition to the office of the vice president for academic affairs three weeks prior to the close of the quarter. If approved, a special fee of \$5 for each examination is assessed.

TRANSCRIPTS

One transcript of a student's record is supplied without charge. A fee of \$2 per transcript is charged thereafter. Credit is not recorded after a student has ceased residence in the College.

THE ACADEMIC PROGRAM

DEGREES OFFERED

Walla Walla College offers courses of study leading to the following:

- Associate of Science (A.S.)
- Bachelor of Arts (B.A.)
- Bachelor of Science (B.S.)
- Bachelor of Music (B.Mus.)
- Bachelor of Science in Business Administration (B.S.B.A.)
- Bachelor of Science in Engineering (B.S.E.)
- Bachelor of Social Work (B.S.W.)
- Master of Arts (M.A.)
- Master of Education (M.Ed.)
- Master of Science (M.S.)

Although Walla Walla College is essentially a liberal arts college, provisional, preprofessional and special two-year associate degree curricula, and certificate programs are available to students who may wish to pursue a terminal program of a vocational nature. For a listing of undergraduate and graduate areas of study offered, see pages 4 and 5 of this bulletin.

GRADUATE DEGREES

Students desiring information concerning graduate degree requirements (standards of admission, degree candidacy, curricula, etc.) should consult the *Graduate Bulletin* which is available at the office of admissions and records.

TEACHER EDUCATION PROGRAM

The Walla Walla College Department of Education and Psychology is authorized by the Washington State Board of Education to recommend both provisional and standard teaching and principal's credentials. Students who plan to enter the teaching profession with a denominational or state teaching credential should become thoroughly acquainted with the certification requirements as listed in the Education and Psychology section of this bulletin.

BACCALAUREATE DEGREES

The Bachelor of Arts degree consists of four years of course work that places the student's major field of study in the context of a liberal arts education. A

minor is also required. Most Bachelor of Arts degree majors require that modern language study be included in the student's course of study.

The Bachelor of Science degree consists of four years of course work that places the student's major field of study in the context of a liberal arts education. The degree permits somewhat greater concentration in the field of study and less depth in the liberal arts than is required in the Bachelor of Arts degree. No minor is required.

The Bachelor of Music degree consists of four years of course work primarily in the major field of study and with modified requirements in general studies. The degree is offered with a choice of two majors, Performance or Music Education. For general studies and specific requirements, see the Music section of this bulletin.

The Bachelor of Science in Business Administration degree consists of a four-year program with concentrations available in accounting, health facility administration, information science, management and marketing. For specific requirements, see the Business section of this bulletin.

The Bachelor of Science in Engineering degree is a four-year program approved by the Accreditation Board for Engineering and Technology, Inc. (formerly Engineers' Council for Professional Development, Inc.) requiring 200 quarter hours of course work. It is designed to prepare students for entry into the profession of engineering and to provide an adequate foundation for graduate studies in civil, electrical or mechanical areas. This degree also permits greater specialization in the major and modifies requirements in general studies. For specific requirements, see the Engineering section of this bulletin.

The Bachelor of Social Work degree is a four-year program designed to meet the requirements of the Council on Social Work Education. It permits greater specialization in the area and qualifies students for job entry in a variety of social service agencies. For specific requirements, see the Sociology and Social Work section of this bulletin.

BACCALAUREATE DEGREE REQUIREMENTS

Preparation for a career involves both general and specialized education. Courses of study leading to the baccalaureate degree are designed to give the student a general understanding of the major areas of learning as well as an in-depth study in areas directly related to the field of the student's major interest.

The student should acquaint himself with the general studies requirements and the requirements for departmental specialization (hereinafter referred to as majors) as related to the student's professional or vocational interests.

Although general studies are stressed during the first two years of study, the student should plan to include certain elementary and intermediate courses in

the desired major during the freshman and sophomore years to permit successful completion of the major.

A student who is undecided as to a major field of study may, during the freshman year, explore several fields of knowledge without loss of credit if he plans his choices in consultation with an academic adviser. A major should be chosen no later than the end of the sophomore year. The selection of a minor (for Bachelor of Arts degree candidates) and appropriate electives must be made in consultation with and approved by the assigned academic adviser.

Candidates are expected to be fully informed concerning degree requirements and are responsible for their fulfillment. A student shall have the option of meeting degree requirements as published in the bulletin at the time of initial registration or any bulletin published while in regular attendance. Those not in regular attendance for one full school year must meet the requirements of the current bulletin upon resuming attendance. Students taking double majors must meet all the degree requirements for each major, including the general studies program.

Degrees are formally conferred in June and in August of each year. Students completing all degree requirements may receive their degrees at the close of the quarter of completion of their studies and are eligible to participate in the June graduation exercises. All degrees received at times other than at the June and August presentation are granted *in absentia* and a special fee is required. The college president must approve all degrees granted *in absentia*.

GRADUATION REQUIREMENTS FOR THE BACCALAUREATE DEGREE

All candidates for a baccalaureate degree must complete the following residence and general requirements:

Residence Requirements:

1. Degree candidates must be in residence the three quarters preceding graduation.
2. Transfer students must be in residence the three consecutive quarters preceding graduation and must complete a minimum of 36 quarter hours, including 9 upper-division quarter hours in the major and 3 upper-division in the minor.

General Requirements:

1. **Credits required.** A minimum of 192 quarter hours including 60 quarter hours in courses numbered 300 or above, and a cumulative grade-point average of 2.0 (C) or above.
2. **Major.** The completion of a major field of departmental specialization (minimum of 45 quarter hours). A grade lower than C will not apply toward a major except in engineering (see Engineering section of this bulletin). At least 21 quarter hours in the major must be numbered 300 or above. The

maximum allowed on a major for the Bachelor of Arts degree is 60 quarter hours unless the excess is beyond the 192 quarter hours required for the degree, except for the music major which is 66 quarter hours. A course may fulfill requirements for several majors or minors but credit will apply to only one.

3. **General Studies Requirements.** The completion of the general studies requirements as specified for the type of degree sought and as outlined below and detailed in the following section (86 quarter hours for the Bachelor of Arts degree, and 74 quarter hours for the Bachelor of Science degree).
4. **Minor.** The completion of a minor of at least 27 quarter hours for all Bachelor of Arts degrees. Three hours must be in courses numbered 300 or above. A grade lower than C will not apply toward a minor. A course may fulfill requirements for several majors or minors but credit will apply to only one.
5. **Candidacy for Degree.** Degree candidates must file a formal application for a degree showing the proposed schedule of courses for the senior year with the director of records not later than one week after the beginning of the first quarter of the senior year. Appropriate forms may be obtained from the records office. Students are not considered candidates for degrees or eligible for senior class membership until officially notified by the director of records.
6. **Senior Class.** Candidates for degrees must be members of the senior class. The fee is fixed by the class and approved by the president of the College.
7. **Comprehensive Examinations.** Satisfactory performance on the Under-graduate Assessment Program (standardized examinations designed by the Educational Testing Service); the area test (reflecting general studies background) and the appropriate field test (reflecting achievement in the major) are required before a degree may be conferred. Where UAP field tests are not available for specific majors, the academic department will provide a comprehensive examination.
Senior examinations are offered only once per quarter scheduled on Sundays. Each prospective senior must make proper arrangements at the Counseling Center at least six weeks in advance of the test dates. Students who do not satisfactorily complete the examination in the major field may not attempt another examination until one quarter has elapsed. Industrial technology majors will submit an appropriate project and /or report approved by the department chairman.
8. **Transcripts.** Seniors must have all transcripts for correspondence work on file in the records office by May 15 in order to graduate with the June class. Summer seniors must have all transcripts for correspondence work by July 15 in order to graduate with the August class.

General Studies Requirements:

Objectives. The general studies courses are required in order to provide the student with opportunities for the acquisition of knowledge and skills over a range of disciplines. While the requirements for a major speak to the need for proficiency and excellence in one or two fields, the general studies courses bring into focus the unity of knowledge and are intended to help the student develop a cognitive perspective consistent with that unity.

The general studies courses are so designed that students may increase both their breadth of knowledge and depth of thought in major areas of learning. The breadth of knowledge is achieved by having students take courses from a number of teachers in many departments and disciplines. The depth of thought, which presupposes background, is achieved (1) by taking courses of sufficient duration to allow for in-depth study or (2) by taking courses that presuppose adequate background for intensive study. Courses in the general studies area are taught, as far as possible, so as to show relationships to other fields of knowledge.

Such a format for the general studies area insures that the college graduate will have some practical skills, a general knowledge of major areas of learning, in-depth study in selected areas and an overview of the unity of knowledge to help him in his own profession as well as enrich his life.

Following is an outline of the general studies requirements for the baccalaureate degrees. A full description and listing of general education courses follow the outline.

Second Baccalaureate Degree. Two baccalaureate degrees may be conferred concurrently or sequentially if the candidate has met all requirements, has completed a total of 237 quarter hours, and has spent a minimum of three quarters (36 hours) in residence.

Applied Music Credit Applicable Toward Baccalaureate Degree. Not more than 9 quarter hours in applied music (including 3 quarter hours of Ensemble) may be earned toward a baccalaureate degree without an equal number of quarter hours in music courses with prefixes MUCT, MUED or MUHL.

QUARTER HOUR REQUIREMENTS

The general studies requirements will be met by selecting courses according to the following guidelines:

BACHELOR OF ARTS DEGREE	Select 86 quarter hours
BACHELOR OF MUSIC DEGREE	*
BACHELOR OF SCIENCE DEGREE	Select 74 quarter hours
BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION	Select 74 quarter hours
BACHELOR OF SCIENCE IN ENGINEERING DEGREE	*
BACHELOR OF SOCIAL WORK	Select 74 quarter hours
ASSOCIATE DEGREE	Select 32 quarter hours
CERTIFICATE PROGRAM	Select 10 quarter hours

*These degrees have modified general studies requirements. Please refer to the respective Departments of Instruction in this bulletin.

The range of hours for each area indicates the minimum number of hours that must be chosen from that area and the maximum number of hours from that area that can count toward the total requirement. Some areas are subdivided with ranges for each subdivision indicating the minimum that *must* be taken from that subdivision and the maximum that can count toward that area requirement.

GENERAL AREAS

Areas	Hours	Hours
	Minimum/Maximum in specific subject areas	Minimum/Maximum in general areas
APPLIED ARTS	0 - 4	
Courses in the applied arts should introduce the student to basic manual and technical skills.		
HEALTH AND PHYSICAL EDUCATION	2 - 6	
Courses should introduce the student to health principles and, by stressing both theory and activity, emphasize the pursuit of healthful living. (No more than 4 quarter hours from any one area will count toward the requirement.)		
Activity Courses	2-4	
Theory Courses in Health, Health-related, or		
Nutrition	0-4	
HISTORY AND SOCIAL STUDIES	12 - 20	
Courses in history and social studies should help the student understand the forces that have shaped the individual in his culture and society. History courses should interpret the sweep of cultures, instilling an appreciation for the development of civilization and an awareness of the unique place of the Christian church in time. Social studies courses should introduce the student to the methodology and contributions of the particular discipline.		
History	8	
Social Studies	4-12	
<i>If more than one course is selected from the areas listed below, courses chosen must be from two or more areas:</i>		
Business	Geography/Political Science	
Education	Psychology	
Engineering	Sociology	
HUMANITIES	12 - 16	
Courses in the fine arts, literature and philosophy should introduce the student to mankind's aesthetic and intellectual aspirations and achievements. Fine arts and literature courses should concentrate upon ideas and styles in their cultural context rather than upon the development of skills. Philosophy courses should in their manner and subject matter clearly make for an understanding of and appreciation for philosophy as a distinct mode of inquiry. (No more than 8 quarter hours from any one area will count toward the requirement.)		
Fine Arts	0-8	
Literature	0-8	
Philosophy	0-8	

	Hours		Hours
	Minimum/Maximum in specific subject areas		Minimum/Maximum in general areas
LANGUAGE ARTS			
Courses should introduce the student to the concepts and skills of the language arts by emphasizing the practice of effective written and oral communication. Courses in foreign language should emphasize the acquisition of such communicative skills as speaking, reading and writing a foreign language while introducing students to a foreign culture and its thought. ENGL 121, 122 is required.			
<i>The first course in the communications area must be selected from oral communication courses.</i>			
ENGL 121, 122 College Writing	8		
Communications	0-8		
Foreign Language	0-12		
MATHEMATICS AND NATURAL SCIENCE			
Courses in mathematics should introduce the student to mathematical thought and practice and to the relationship of mathematics to other disciplines. Courses in science should introduce the student to methods of measurement and discovery and should help the student to understand through theory and practice how hypotheses are developed, tested and applied. (A minimum of 8 quarter hours should be taken from one course sequence in a science area.)			
Mathematics	4-8		
Science	8-12		
RELIGION AND THEOLOGY			
Courses in religion and theology should emphasize an understanding and application of Biblical knowledge, foster continued spiritual growth and help the student develop a personal religious philosophy and prepare for active witnessing.			
Biblical Studies	6-20		
Electives in Religion or Theology	0-14		

Religion requirement for transfer students from non-SDA Colleges:

Transfer students will take the equivalent of three hours per quarter in residence, but with the understanding that a student who spends six or more quarters in residence is required to take only the minimum requirement of 16 hours.

SPECIFIC COURSES FOR GENERAL STUDIES

The following list of specific courses will satisfy the General Studies Requirements: (Courses listed in more than one area of general studies may be applied in only one area for an individual student.)

APPLIED ARTS		0 - 4
ACCT	121 or 125	Principles of Accounting
AGRI	263	Home Gardening
AGRI	266	Horticulture
AGRI	267	Turf and Landscaping
AGRI	361	Introduction to Soils
AUTO	134, 135	Internal Combustion Engine Theory/ Laboratory
AUTO	145, 146	Power Train Theory/Laboratory
AUTO	156, 157	Fuel and Electrical Systems Theory/ Laboratory
AUTO	345, 346	Automotive Service
AVIA	142	Private Pilot Flight Training
AVIA	221, 222, 223	Commercial Pilot Flight Training I, II, III
CPTR	124	Introduction to BASIC
CPTR	125	Principles of BASIC
CPTR	131	Data Processing
CPTR	134	Introduction to Computing
CPTR	136	File Oriented Programming
CPTR	225	Commercial Computer Applications
DRFT	121, 122	Technical Drawing
DRFT	226	Architectural Drawing
DRFT	236	Electrical and Electronic Drawing
ENGR	121, 122, 123	Introduction to Engineering
ELCT	221	Introduction to Electricity/ Electronics
ELCT	241, 242	Fundamentals of Electronics
ELCT	252, 253	Electronic Devices and Circuits
ELCT	362	Digital Integrated Circuits
FDNT	101, 102	Principles of Food Science
FDNT	412	Foods in Cultures of the World
FDNT	422	Experimental Cookery
GRPH	154, 155	Principles of Photography/Laboratory
GRPH	355	Applied Photography
HMEC	222	Art in Everyday Living
HMEC	242, 243	Clothing Selection and Construction
HMEC	302	Beginning Weaving
INCR	126	Bookbinding
INCR	224	Art Metals
INCR	225	Plastics
INCR	226	Leathers
INCR	264	Silk Screen Printing
INDS	134, 137	Gas Welding Laboratory/Theory
INDS	135, 138	Arc Welding Laboratory/Theory
INDS	136, 139	Specialized Welding Laboratory/Theory
INDS	151	Foundations and Framing

INDS 152	Building Materials and Mechanical Systems
INDS 153	Finish Carpentry
INDS 221, 222, 223	Wood Products and Processes
INDS 241, 242, 243	Fabrication and Machining of Metals
INDS 345	Finishing Material's and Methods
INDS 386	Oil Hydraulics
LIBR 111	Introduction to Library Resources
OFAD 111, 112, 113	Beginning Typewriting
OFAD 208	Concepts in Office Machines
OFAD 221, 222	Advanced Typewriting
OFAD 223	Professional Typewriting
OFAD 224	Mag Card Keyboarding
OFAD 232	IBM Key Punch
OFAD 234	Machine Transcription
OFAD 236	Business Machines
SPCH 231	Broadcasting Techniques and Announcing

HEALTH and PHYSICAL EDUCATION2 - 6

Activity Courses: 2-4

All PEAC 101 thru 199 Activity Courses

Theory Courses in Health, Health-related, or Nutrition: 0-4

FDNT 220	Human Nutrition
HLED 208	Drugs and Society
HLED 215	Contemporary Health Issues
HLED 453	Principles of Health

HISTORY and SOCIAL STUDIES.....12 - 20

History: 8

HIST 121, 122	History of Western Civilization
*HIST 131, 132, 133	Western Thought I (Honors)
HIST 221, 222	History of the United States
HIST 325	History of Canada
HIST 374, 375	History of England
HIST 384, 385	History of Latin America

*Equivalent to 8 hours HIST 121, 122 and 4 hours ENGL 207.

Social Studies: 4-12

ANTH 255	Cultural Anthropology
ECON 241, 242, 243	Principles of Economics
EDUC 110	Principles and Concepts of Christian Education
EDUC 210	Foundations of Education
*ENGR 344	The Environment and Man
GBUS 361, 362, 363	Business Law
GEOG 358	World Geography
JOUR 145	Mass Communication Media
PLSC 224	American Government
PSYC 130	General Psychology
PSYC 230	Systems and Theories in Psychology

*Two hours will apply beyond the minimum 12-hour requirement.

PSYC 444	Social Psychology
SOCI 204	General Sociology
SOCI 225	Marriage and Family Life
SOWK 266	Social Welfare as a Social Institution
SPCH 401	Introduction to General Semantics
HUMANITIES.....	12 - 16
Fine Arts: 0-8	
ART 251	Introduction to Art
ART 324, 325, 326	History of Art
**ENGL 311, 312, 313	Western Thought II (Honors)
MUHL 124	Introduction to Music
MUHL 134	Art of Listening
MUHL 321, 322, 323	History of Music
SPCH 363	History of Dramatic Arts
Literature: 0-8	
ENGL 204	Introduction to Literature
ENGL 205	Masterpieces of American Literature
ENGL 206	Masterpieces of English Literature
ENGL 207	Masterpieces of World Literature
ENGL 208	Afro-American Literature
ENGL 209	Religious Literature
ENGL 214	Themes in Literature
ENGL 215	Literature and Film
ENGL 454	Literature of the Bible
**HIST 131, 132, 133	Western Thought I (Honors)
FREN 301, 302, 303	Survey of French Literature
GRMN 311, 312, 313	Survey of German Literature
SPAN 324, 325, 326	Survey of Spanish Literature
Philosophy: 0-8	
PHIL 205	Introduction to Philosophy
PHIL 206	Introduction to Logic
PHIL 305	Moral Philosophy
PHIL 306	History of Philosophy I
PHIL 407	Philosophy of Science
PHIL 412	Philosophy of Religion
**Equivalent to 4 hours each ENGL 204, ART 251, MUHL 124.	
***Equivalent to 4 hours each ENGL 207, and 8 hours HIST 121, 122.	
LANGUAGE ARTS	12 - 20
English: 8	
ENGL 121, 122	College Writing
or	
ENGL 131, 132	College Writing (Advanced) }
Communications: 0-8	
ENGL 324	Advanced Expository Writing
ENGL 325	Advanced Technical Writing
JOUR 245	Journalistic Writing

JOUR	341, 342	Magazine Article Writing
JOUR	382	Editorial Writing
JOUR	385	Religious Communications
SPCH	101	Fundamentals of Speech Communications
SPCH	207	Small Group Communications
SPCH	443	Persuasive Speaking

Foreign Language: 0-12

FREN	101	Introduction to French
FREN	102, 103	Elementary French
FREN	202, 203	Intermediate French
GRMN	111	Introduction to German
GRMN	112, 113	Elementary German
GRMN	212, 213	Intermediate German
RELL	121, 122, 123	Greek I
SPAN	121	Introduction to Spanish
SPAN	122, 123	Elementary Spanish
SPAN	222, 223	Intermediate Spanish

MATHEMATICS and NATURAL SCIENCE12 - 16

Mathematics: 4-8

MATH	105	Mathematics Through Statistics
MATH	106	Applied Statistics
MATH	111, 112	Mathematics for the Liberal Arts
MATH	117	Precalculus
MATH	121, 122	Fundamentals of Mathematics I, II
MATH	181, 281	Analytic Geometry/Calculus I, II
MATH	282, 283	Analytic Geometry/Calculus III, IV

Natural Science: 8-12

BIOL	101, 102, 103	General Biology
BIOL	121	Physical Geology
BIOL	201, 202	Anatomy and Physiology
CHEM	101, 102	Introductory Chemistry I
CHEM	141, 142, 143	General Chemistry
CHEM	203	Introductory Chemistry II
*ENGR	344	The Environment and Man
GEOL	231, 232	Earth Science
PHYS	201, 202	Introduction to Physics I, II
PHYS	211, 212, 213	General Physics
PHYS	241, 242	General Astronomy
PHYS	251, 252, 253	Principles of Physics

RELIGION and THEOLOGY16 - 20**Biblical Studies: 6-20**

RELB	101, 102, 103	Bible Survey
RELB	104	The Ministry of Jesus
RELB	105, 106	The Messages of Jesus
RELB	111	Messages of the Old Testament
RELB	216	Messages of Paul
RELB	301	Old Testament History
RELB	302	Pentateuch
RELB	303	Writings
RELB	304, 305, 306	Hebrew Prophets
RELB	312	Daniel
RELB	313	Revelation
RELB	434, 435, 436	Gospels
RELB	464, 465, 466	New Testament Epistles

Electives in Religion or Theology: 0-14

RELH	249	Religion in a Social Context
RELH	317	Denominational History
RELH	402	Modern Denominations
RELH	403	World Religions
RELH	405	Biblical Archaeology
RELH	406	History of the English Bible
RELT	112	Theology of Christian Witnessing
RELT	201	The Christian Way of Salvation
RELT	202	Basic Christian Beliefs
RELT	204	Contemporary Issues in Adventist Thought
RELT	230	Discipleship and Mission
RELT	246	Christian Ethics
RELT	314	Eschatology
RELT	315	Inspiration and the Bible Writers
RELT	316	Inspiration and Ellen White
RELT	404	A Scientific Approach to Biblical Interpretation
RELT	408	Doctrine of the Sanctuary
RELT	412	Philosophy of Religion
RELT	417, 418, 419	Christian Dynamics
SOCI	449	Sociology of Religion

*Two hours will apply beyond the minimum 8-hour requirement.

ASSOCIATE DEGREE

The two-year associate degree programs are intended to provide accredited technological and occupational preparation for students desiring to graduate with marketable skills while experiencing the full benefits of a residential Christian college.

GRADUATION REQUIREMENTS FOR THE ASSOCIATE DEGREE

All candidates for the associate degree must complete the following residence and general requirements:

Residence Requirements:

A minimum of 24 quarter hours and the last two quarters must be completed in residence.

General Requirements:

1. A minimum of 96 quarter hours for the degree.
2. A minimum grade-point average of 2.0 (C) must be maintained in course-work required for the degree.
3. The completion of the associate degree concentration as outlined under the respective Departments of Instruction of this bulletin. A grade lower than C will not apply toward the concentration.
4. The completion of the general studies requirements as outlined below. For a listing of the specific courses which may apply to the requirements, see page 58.
5. A course may fulfill requirements for one or more concentrations but credit will apply to only one concentration.
6. Students must have all transcripts for correspondence work on file in the records office by May 15 in order to graduate with the June class. Summer seniors must have all transcripts for correspondence work by July 15 in order to graduate with the August class.

General Studies Requirements for the Associate Degree:

Areas	Hours	Hours
	Minimum/Maximum in specific subject areas	Minimum/Maximum in general areas
Applied Arts	0 - 2	
Health and Physical Education	0 - 2	
Activity Courses		
History and Social Studies.....		0 - 8
History	0-8	
Social Studies.....	0-8	
Humanities		0-8
Fine Arts.....	0-4	
Literature	0-4	
Philosophy.....	0-4	
Language Arts		8 - 12
ENGL 101, 102 or 121, 122.....	8	
Communications	0-4	

Areas	Hours Minimum/Maximum in specific subject areas	Hours Minimum/Maximum in general areas
Mathematics and Natural Science	0 - 8	
Mathematics	0-8	
Science	0-8	
Religion and Theology	8 - 10	
Biblical Studies	4-10	
Electives	0-6	

Select a minimum of 32 quarter hours for the Associate degree.

CERTIFICATE PROGRAMS

The Certificate programs typically are one-year programs providing occupational preparation for students desiring immediately marketable skills. For complete descriptions of the Certificate programs, consult the respective Departments of Instruction in this bulletin.

General Studies Requirements for the Certificate Program:

Language Arts.....	0 - 4
ENGL 100	0-4
ENGL 101 (Recommended).....	0-4
ENGL 121	0-4
SPCH 101	0-4
Mathematics, Natural Science, and/or Business	0 - 4
Religion and Theology	4 - 6

Select a minimum of 10 quarter hours for the Certificate program.

PREPROFESSIONAL PROGRAMS

Programs are offered in a wide variety of fields to prepare students for admission to professional schools or to enter upon technical careers. Students wishing to secure admission to such schools should familiarize themselves with the admission requirements of the school of their choice. Most preprofessional curriculums require two units of high school mathematics (algebra and geometry). The following preprofessional curricula are detailed in the Preprofessional Courses of Study section of this bulletin: (Numbers in parenthesis indicate the years of study normally required on the Walla Walla College campus before acceptance into a professional school.)

Architecture (2)	Occupational Therapy (2)
Chiropractic Medicine (2)	Optometry (2)
Dentistry (3)	Osteopathy (3)
Dental Assistant (1)	Pharmacy (2)
Dental Hygiene (2)	Public Health (4)
Dietetics (2)	Physical Therapy (2)
Law (4)	Radiological Technology (1)
Medicine (4)	Respiratory Therapy (2)
Medical Technology (3)	Veterinary Science (2)
Medical Technology and Clinical Chemistry (3)	

TRANSITIONAL CURRICULUM

The transitional curriculum is designed for freshman students who have been accepted by the College with an inadequate background for attempting a full academic program. It consists of ENGL 100, MATH 100 and RDNG 100, in addition to courses within the regular college curriculum as approved by the Transitional Curriculum adviser.

Students are registered for courses within this curriculum on the basis of test scores from their entrance examinations and/or secondary school grades. Up to 8 quarter hours of credit received from the courses in this curriculum are included in the 192 quarter hours for graduation.

A transitional curriculum coordinator closely advises and schedules regular academic counseling sessions for all students in this program. This counseling procedure continues throughout the freshman year although most transitional students are able to carry a full college load by the beginning of the winter quarter.

EXTENSION COURSE WORK

Extension courses are offered by Walla Walla College on a limited basis. These off-campus courses provide opportunity for academic enrichment, acceleration and continuing education.

The College accepts extension course credit from other institutions provided the institution offering the courses accepts similar credits toward a degree on its own campus.

ADVENTIST COLLEGES ABROAD

Walla Walla College, together with nine other Adventist colleges in North America, founded an organization in 1967 for the purpose of providing opportunities for qualified students to study abroad while completing the requirements of their programs. The ACA program allows students to immerse themselves in the culture and life of the host country and to become conversant in the language. Presently, arrangements are in operation for students to study a full year at Seminaire Adventiste, Collonges-sous-Saleve, France; Colegio Adventista de Sagunto, Sagunto, Spain; and Seminar Schloss Bogenhofen, Braunau, Austria.

Prerequisites for admission to a year of study abroad through ACA are:

1. Admission as a regular student of Walla Walla College for the year abroad.
2. Competence in the language (minimum: one year of college language or two years of secondary study).
3. A grade-point average of 3.00 in the language and an overall grade-point average of 2.50.
4. A good citizenship record.
5. Application to the admissions office on the special ACA application form.
6. Meeting the financial requirements.

Students planning to study under this program must submit a completed

application with a \$100 refundable deposit by January 7, 1981 as there are usually more applications than spaces available.

All applications and payments for tuition, room and board are to be made through the SDA college of the student's choice in North America before August 1. Any deviation from this schedule by students of Walla Walla College must be arranged in advance with the office of financial aid. A small incidental deposit is to be made to the foreign college on arrival.

Financial credit for work cannot be counted on by students residing in foreign countries. The student financial aid officer has information on grants and loans available to students for overseas study.

Academic credit will be granted for these studies so that a student will be able to complete a full college year abroad. Prospective students must have successfully completed one year of college French, German or Spanish or the equivalent. It is recommended that students desiring to participate do so during their sophomore year. Applicants should consult with their major professors, the modern language department and the director of records prior to enrollment.

Information and applications may be obtained from the office of admissions.



ART

K. MacKintosh, Chairman; T. Emmerson, V. Nye.

The aim of the department is to cultivate an awareness, appreciation and understanding of the various forms of visual experience. Through instruction and practice, the student will develop his creative abilities for practical usage by following the concentration in Fine Art or Commercial Art. Commercial art is designed to develop skills in working with the printed word and visual communication; fine art will prepare the student as an artist or as a teacher.

MAJOR IN ART (Bachelor of Arts)

A student majoring in art must complete the core requirements, one concentration and the required cognates for that concentration, and the general studies program for the baccalaureate degree as outlined in this bulletin.

Core Requirements:

ART 161, 162, 163	Design	9
ART 184, 185, 186	Introduction to Drawing	6
ART 194, 195, 196	Introduction to Painting	6
ART 284, 285, 286	Introduction to Pottery	2-4
ART 294, 295, 296	Introduction to Printmaking	4-6
ART 324, 325, 326	History of Art	<u>6</u>
		<u>35</u>

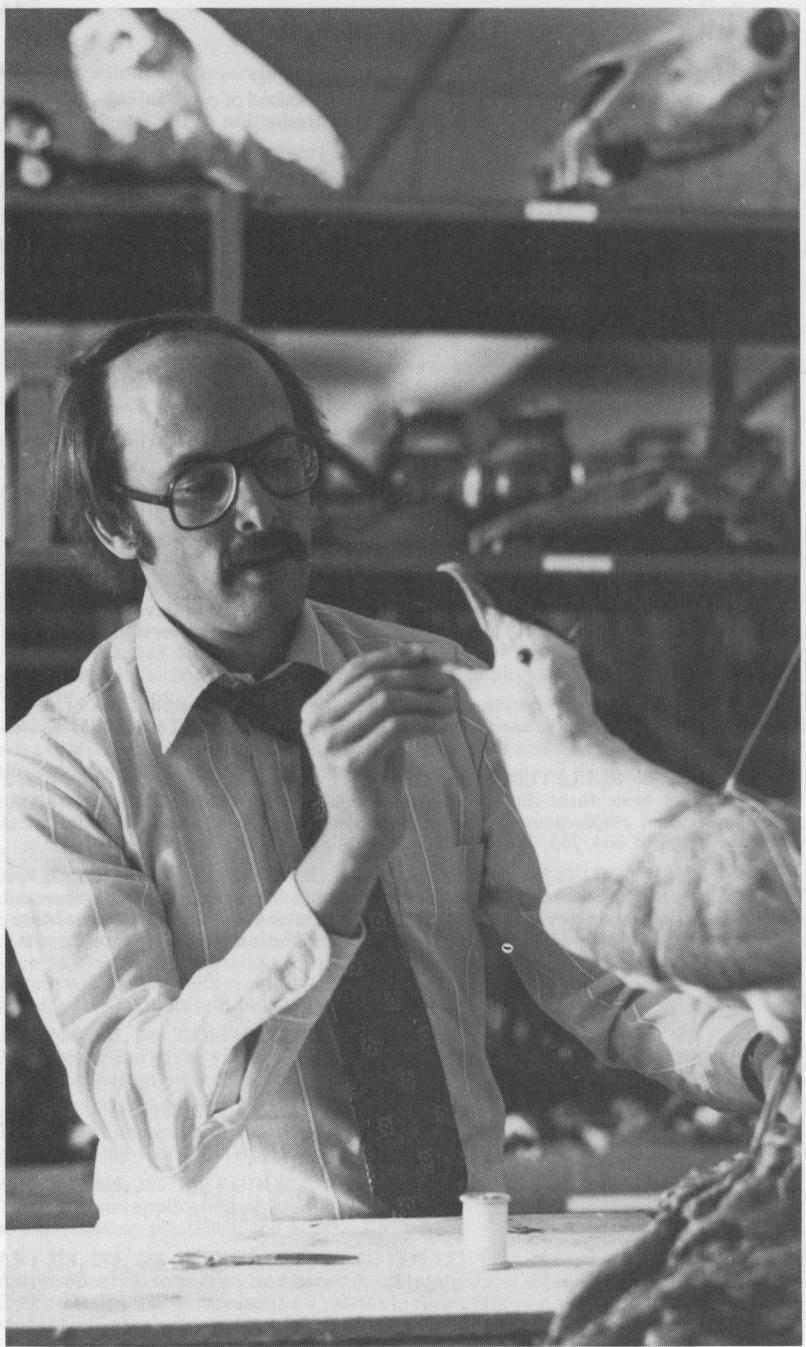
Concentration: Fine Art

ART 264, 265, 266	Introduction to Sculpture	2-4
ART 304, 305, 306	Fine Arts Design	9
Electives chosen from courses listed below (limited to 5 areas):		*12-14
ART 244, 245, 246	Commercial Art	
ART 284, 285, 286	Introduction to Pottery	
ART 307, 308, 309	Drawing	
ART 317, 318, 319	Printmaking	
ART 334, 335, 336	Painting	
ART 364, 365, 366	Sculpture	
		<u>25</u>

*10 hours must be upper division

Required Cognates: Fine Art

ENGL 455	Classical Backgrounds	3
RELH 405	Biblical Archaeology	2
RELT 310	Christian Ethics	
or		
RELT 412	Philosophy of Religion	2-4
	Modern Language:	
	Intro/Elem	12



BIOLOGICAL SCIENCES

J. Galusha, Chairman; C. Amlaner, R. Barnes, J. Dassenko, A. Grable, S. Lindsay, L. McCloskey, D. Rigby.

The objectives of the department are to develop an understanding of the principles of biology which will better acquaint students with the world in which they live; to create an atmosphere which is conducive to individual investigation; to prepare department majors for graduate and professional education, teaching and certain careers in the biological sciences.

The department offers a Bachelor of Science degree with a major in biology, and jointly with the department of physics, a Bachelor of Science degree with a major in biophysics. Minors are offered in Biology and Agriculture. Graduate work leading to the Master of Science degree is also offered. For further information, see the *Graduate Bulletin*.

Exceptional opportunities for study in the biological sciences are possible during the summer at the Marine Station at Rosario Beach adjoining Deception Pass State Park, Anacortes, Washington. For further information, see the bulletin of the Marine Station.

The Field School of Biology travels to various parts of North America and offers courses in botany and zoology.

MAJOR IN BIOLOGY (Bachelor of Science)

A student majoring in biology must complete 57 quarter hours in the major, the required cognates and the general studies program for the baccalaureate degree as outlined in this bulletin. Candidates for this degree who plan on graduate work in biology should counsel with the assigned academic adviser concerning the need of a foreign language. One summer term is required at the WWC Marine Station during which at least one upper-division, marine-oriented course must be taken.

Major Requirements:

BIOL 101, 102, 103	General Biology	12
BIOL 251	Research Methods I	1
BIOL 261	Genetics	4
BIOL 266	Developmental Biology	4
BIOL 350	Biostatistics	4
BIOL 352, 353, 354	Research Methods II, III, IV	3
BIOL 392	Cell Physiology	4
BIOL 446	General Ecology	4
BIOL 455	Research Methods V	1
BIOL 483	Philosophy of Origins and Speciation	3
BIOL 495	*Colloquium	0
	Electives (must be upper division)	<u>17</u>
		<u>57</u>

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman. One course each in zoology and botany is required.

*Required each quarter of juniors and seniors while in residence.

BIOLOGICAL SCIENCES

Required Cognates:

CHEM 141, 142, 143	General Chemistry	12
CHEM 321, 322, 323	Organic Chemistry	12
MATH 121, 122	Fundamentals of Mathematics I, II	8
MATH 181	Analytical Geometry & Calculus I	4
PHYS 211, 212, 213	General Physics	9
PHYS 214, 215, 216	General Physics Laboratory	3

MAJOR IN BIOPHYSICS (Bachelor of Science)

A student majoring in biophysics must complete 32 quarter hours in biology and 38 quarter hours in physics, the required cognates and the general studies program for the baccalaureate degree as outlined in this bulletin. One summer term is required at the WWC Marine Station during which at least one upper-division, marine-oriented course must be taken. Specific course requirements are outlined in the Interdisciplinary section.

AGRICULTURE—APPLIED BIOLOGY (Associate of Science)

A student specializing in agriculture must complete 38 quarter hours in the area, the required cognates and the general studies program for the associate degree as outlined in this bulletin.

Area Requirements:

AGRI 266	Horticulture	4
AGRI 267	Turf and Landscaping	2
AGRI 361	Introduction to Soils	4
AGRI 363	Animal Science	3
AGRI 364	Crop Production	4
BIOL 101, 102, 103	General Biology	12
BIOL 261	Genetics	4
	Electives	<u>5</u>
		<u>38</u>

Required Cognates:

ACCT 121 or ECON 241	Principles of Accounting	3-4
CHEM 101, 102 or CHEM 141, 142, 143	Principles of Economics	
	Introductory Chemistry I	8-12
MATH 121, 122	General Chemistry	
	Fundamentals of Mathematics, I, II	8

Electives and cognates must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.

MINOR IN AGRICULTURE

This minor is designed to provide the student with a practical knowledge of a science relating to the basic needs of mankind. The student must complete 30 quarter hours. The following courses are required:

AGRI 262	Fruit Growing	2
AGRI 263	Home Gardening	3
AGRI 266	Horticulture	4
AGRI 361	Introduction to Soils	4
AGRI 362	Farm Management	3
AGRI 363	Animal Science	3
	Electives	<u>11</u>
		30

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.

Required Cognates:

BIOL 101, 102, 103	General Biology	12
CHEM 101, 102	Introductory Chemistry I	8

BIOLOGY MINOR

A student minoring in biology must complete 27 quarter hours: (8 must be upper division)

BIOL 101, 102, 103	General Biology	12
	One course in botany	4
	One course in zoology	4
	One course in agriculture may apply	4
	Electives	<u>3</u>
		27

AGRICULTURE (AGRI)

All AGRI courses offered alternate years.

AGRI 260 PLANT PROPAGATION

4

Principles and methods of greenhouse propagation vegetatively and from seeds of herbaceous and woody plants.

AGRI 262 FRUIT GROWING

2

Varieties of fruit, propagation, managing soil in orchards, fertilization, pest control, harvesting.

AGRI 263 HOME GARDENING

3

Planning home gardens, preparing soil for planting, growing transplants, transplanting, fertilizing, irrigation, planting for different seasons. One laboratory per week.

AGRI 266 HORTICULTURE

4

This course treats plant growth and development, propagation, fertilizers, transplanting and horticulture crops. One laboratory per week.

AGRI 267 TURF AND LANDSCAPING

2

Production of cut flowers, production of potted plants, care of plants in the home, laying out of lawns, shrubbery arrangements, tree planting, fertilizers, cultivation. One laboratory per week.

AGRI 361 INTRODUCTION TO SOILS

4

Types of soil, plant food, irrigation, soil testing, conservation, pollution. Prerequisite: CHEM 101, 102. One laboratory per week.

BIOLOGICAL SCIENCES

AGRI 362 FARM MANAGEMENT

3

Labor efficiency, credit, marketing, farm account records, causes of variation in farm income, measuring profits in farming, rates of crop and animal production are included in this course. Special project is required.

AGRI 363 ANIMAL SCIENCE

3

Breeds of livestock, nutrition and feeding, sanitation, judging, management and economics of beef and dairying, breeding, genetics. Prerequisite: BIOL 101, 102, 103.

AGRI 364 CROP PRODUCTION

4

Grain production, forage production, pasture management, fertilizers, weed control, marketing. Field trips and farm visitations are included. Prerequisite: BIOL 101, 102, 103. One laboratory per week.

BIOLOGY (BIOL)

College Place campus:

BIOL 101, 102, 103 is a prerequisite for all upper-division courses.

BIOL 101, 102, 103 GENERAL BIOLOGY

4, 4, 4

A study of the basic principles of biology. Topics such as anatomy, physiology, cytology, genetics, taxonomy, ecology and embryology are considered with reference to both plants and animals. Must be taken in sequence. One laboratory per week.

BIOL 121 PHYSICAL GEOLOGY

4

A study of the earth, its materials, structures and the processes and forces that effect changes upon and within it. Laboratory training includes the recognition of common rocks and minerals, the use of topographic and geologic maps, and identification and interpretation of events recorded in the rocks. One laboratory per week. One weekend field trip required.

BIOL 201, 202 ANATOMY AND PHYSIOLOGY

4, 4

An integrated course of human (organ-system) anatomy and physiology with reference to cellular, genetic and developmental relationships. Typically, the first quarter begins with cellular and genetic relationships and moves through the circulatory, respiratory and digestive systems. Second quarter picks up with a brief review of first quarter and moves through the excretory, nervous, endocrine and reproductive systems. Must be taken in sequence. One laboratory per week. Will not apply to biology major.

BIOL 222 MICROBIOLOGY

5

The nature and control of bacteria and other disease-producing organisms are studied together with their relationship to human disease and the basic concepts of immunology. Two half laboratories per week. Prerequisite: CHEM 101, 102.

GEOL 231, 232 EARTH SCIENCE

4, 4

See the Physics section of this bulletin for description.

BIOL 251 RESEARCH METHODS I

1

A course designed to enlarge the student's understanding of the principles of scientific research and the function of the scientific methods. Prerequisite: BIOL 101, 102, 103.

BIOL 261 GENETICS

4

A study of the principles of inheritance in plants and animals. Laboratory work consists of both descriptive and experimental analysis of heredity. One laboratory per week. Prerequisite: BIOL 101, 102, 103.

BIOL 266 DEVELOPMENTAL BIOLOGY

4

Principles of development of plants and animals. Emphasis is placed on problems of growth, differentiation and morphogenesis. Laboratory work consists of both descriptive and experimental analysis of development. Two laboratories per week. Prerequisite: BIOL 101, 102, 103.

BIOL 350 BIOSTATISTICS

4

Practice and theory of statistical methods in quantitative biology. Prerequisite: MATH 121, 122.

BIOL 352 RESEARCH METHODS II

1

A laboratory course designed to expose the student to a broad spectrum of research problems in the biological sciences. Emphasis is placed on modern scientific approaches to, and the solution of, these problems. Prerequisite: BIOL 251.

BIOL 353 RESEARCH METHODS III

1

An experience designed to encourage the biology major to prepare a senior thesis proposal. The student will work with a departmental adviser on an independent basis, doing a literature search and sometimes appropriate preliminary experiments leading to the writing and completion of a senior thesis proposal. Prerequisites: BIOL 352 and permission of research adviser.

BIOL 354 RESEARCH METHODS IV

1

The student will work with the help of his research adviser to collect and analyze the data for his senior thesis. Prerequisites: BIOL 353 and permission of research adviser.

BIOL 360 SURVEY OF THE PLANT KINGDOM

4

A study of the life histories, internal anatomy and physiology of the various members of the plant kingdom. One laboratory per week.

BIOL 374 ANIMAL BEHAVIOR

4 or 5

A foundation course in the field of Animal Behavior with emphasis on the historical perspective and classical experiments. Contributions from diverse disciplines such as neurophysiology, ecology, endocrinology, sociology, anatomy and medicine are drawn together to illustrate the dependence of ethology and psychology (i.e., Animal Behavior) on the other life sciences. One laboratory per week. (College Place campus - 4 quarter hours; Marine Station - 5 quarter hours.)

BIOL 389 NATURAL HISTORY OF VERTEBRATES

4

A study of vertebrates with emphasis on natural history, ecology and taxonomy. One laboratory per week.

BIOL 392 CELL PHYSIOLOGY

4

An investigation of the chemical and physical phenomena of plant and animal cells. This course will seek to integrate function with the various cellular organelles. One laboratory per week. Physics and organic chemistry strongly recommended.

BIOL 393 ANIMAL PHYSIOLOGY

4

The study of animal physiology with emphasis on vertebrate organ systems. This course is based on concepts developed in BIOL 392. One laboratory per week. Prerequisite: BIOL 392. Physics and organic chemistry strongly recommended.

BIOL 401 PLANT PHYSIOLOGY

4

A course designed to cover the principles of physiology of plants in general. One laboratory per week. Prerequisites: BIOL 360; BIOL 392.

BIOL 403 ORNITHOLOGY

4

A systematic study of native birds of North America, with emphasis on identification, migration, geographical distribution, habits and life histories. Two laboratories per week.

BIOL 405 GENERAL ENTOMOLOGY

4

A study of insect morphology, physiology, ecology and classification. One laboratory per week.

BIOL 407 PHILOSOPHY OF SCIENCE (or PHIL 407)

4

A study of the scientific method as it relates to primary origins and present-day distributions of living things. Evidences from archaeology, the physical and biological sciences are examined. Will not apply on biology major. Prerequisite: A completed General Education science requirement.

BIOL 412 PLANT ANATOMY

4

A study of the microscopic anatomy of plant tissues with emphasis on their origin and development. Primary attention will be devoted to the vascular plants. Recommended prerequisite: BIOL 360. One laboratory per week.

BIOLOGICAL SCIENCES

BIOL 424 HERPETOLOGY

A systematic study of amphibians and reptiles with emphasis on natural history and ecology. Two laboratories per week.

4

BIOL 426 SYSTEMATIC BOTANY

A study of the principles of plant classification, together with a systematic survey of vascular plants, with emphasis on natural history and ecology. Two laboratories per week. One weekend field trip required. (College Place campus - 4 quarter hours; Marine Station - 5 quarter hours.)

4 or 5

BIOL 429 LIMNOLOGY

A study of the factors responsible for the presence and distribution of animals and plants in fresh waters. Field work includes trips to a number of lakes and streams for collection of living specimens as well as habitat analysis. Two laboratories per week.

4

BIOL 432 INTRODUCTION TO PALEOBIOLOGY

Study of earth history as exhibited by the fossils with particular emphasis on paleobiological relationships. Two laboratories per week. Prerequisite: Permission of instructor.

4

BIOL 444 MAMMALOGY

A systematic study of mammals with emphasis on natural history and ecology. Two laboratories per week.

4

BIOL 446 GENERAL ECOLOGY

The study of the relationship of plants and animals, both as individuals and assemblages, to their physical and biological environment. Field studies designed to examine ecological principles are part of the laboratory work. Two laboratories per week. Biostatistics, genetics and a minimum of one field natural history course recommended.

4

BIOL 447 PARASITOLOGY

A systematic study of the morphology, life cycle and host-parasite relationships of protozoan, helminth and arthropod parasites. Two laboratories per week. Prerequisite or corequisite: CHEM 321, 322, 323.

5

BIOL 449 VERTEBRATE HISTOLOGY

The microscopic anatomy of vertebrate cells, tissues and organs including reference to their functions. Two laboratories per week.

4

BIOL 451 INVERTEBRATE ZOOLOGY

A study of the biology of the invertebrates with emphasis on their ecology, morphology and physiology. Two laboratories per week.

5

BIOL 455 RESEARCH METHODS V

Methods of writing and making an oral presentation of a scientific paper. Students present the results of their senior thesis in a seminar and submit a written manuscript of their senior thesis (see BIOL 251; BIOL 352; BIOL 353; BIOL 354).

1

BIOL 458 PSYCHOBIOLOGY

A course emphasizing readings in, and discussion of, current concepts of the biological bases of behavior in animals and man. Material is of a comparative nature with emphasis on human behavior. One laboratory per week. Prerequisites: BIOL 101, 102, 103 or BIOL 201, 202 and PSYC 130 or permission of instructor. Recommended prerequisite: BIOL 374.

4

BIOL 465 BACTERIOLOGY

A presentation of the basic principles necessary for an understanding of morphology and function of bacteria. Laboratory work, including unknowns, points out techniques employed in their study. Two laboratories per week. Prerequisite or corequisite: CHEM 321, 322, 323.

5

BIOL 472 METHODS OF TEACHING BIOLOGY

This course deals with the basic principles of teaching biology in the secondary school. Observation, demonstration and class presentation are required of the students as a part of this course. Not applicable to a major or minor. Taught alternate years.

3

BIOLOGICAL SCIENCES

BIOL 483 PHILOSOPHY OF ORIGINS AND SPECIATION

3

The various theories on the origin and history of living organisms will be compared in light of present scientific knowledge in the areas of biochemistry, paleontology, morphology, geology, genetics and other related areas. For majors and minors only.

BIOL 490 TECHNIQUES IN FIELD BIOLOGY

1-6

A study of the techniques used in the collection and preservation of biological specimens for museum purposes. Emphasis is placed on the recording and preservation of ecological data obtained with the collections of specimens. The topic for a given year will depend on the instructor offering the course and credit will be given at the rate of one quarter hour for each week spent working in the field.

BIOL 495 COLLOQUIUM

0

A lecture series designed to expose students to modern scientific research and researchers. Each lecture is normally given by a visiting scientist. Six quarters required of all junior, senior and graduate biology majors.

BIOL 501 RESEARCH IN BIOLOGY

2-4; 8

Individual work in a topic of original research carried out under the direction of one of the instructors. Two to four hours per quarter; maximum, eight.

BIOL 503 GENETICS AND SPECIATION

3

A study of the nature and function of the genetic material as it relates to population and species variability and change. Prerequisite: BIOL 261.

BIOL 510 GRADUATE SEMINAR

1; 6

Presentation of topics and discussion of current research in specific areas of biology. One hour each quarter; minimum of five, and maximum of six quarters. Spring quarter normally involves a research plan and progress report for first-year graduate students. See biology advisers for alternate options.

BIOL 511 BIOSYSTEMATICS

4

A study of the process of speciation and its relationship to currently used taxonomic methods and rules of nomenclature.

BIOL 518 SYSTEMATIC ENTOMOLOGY

4

A study of the principles of classification of insects. Laboratory work emphasizes recognition of orders and families with special problems on the specific level. Recommended prerequisite: BIOL 405. Two laboratories per week.

BIOL 521 PRINCIPLES OF ECONOMIC ENTOMOLOGY

3

An evaluation of the various methods of controlling economically important species. Prerequisite: BIOL 405.

BIOL 522 CELLULAR BIOLOGY

5

Current knowledge and research in the areas of cell physiology, biochemical genetics, bacteriological genetics and radiation biology will be considered. Two laboratories per week. Prerequisite: BIOL 392; BIOL 393.

READING COURSES

A maximum of six quarter hours may be selected from Reading Courses.

BIOL 535 READINGS IN PHYSIOLOGY

2; 4

Analysis of classical and current literature in the field by means of reports and conferences with a staff member. Areas of concentration may include animal, plant, cellular or immunological aspects of physiology.

BIOL 536 READINGS IN NATURAL HISTORY

2; 4

Analysis of classical and current literature in the field by means of reports and conferences with a staff member. Areas of concentration may include mammalogy, entomology, ornithology, invertebrate zoology, ichthyology, botany or biosystematics.

BIOL 537 READINGS IN ECOLOGY

2; 4

Analysis of classical and current literature in the field by means of reports and conferences with a staff member. Areas of concentration may include ecology, symbiosis or plant ecology.

BIOLOGICAL SCIENCES

BIOL 538 READINGS IN GENETICS

2; 4

Analysis of classical and current literature in the field by means of reports and conferences with a staff member. Areas of concentration may include classical genetics, molecular biology, speciation or evolution.

BIOL 529 READINGS IN ETHOLOGY

2; 4

Analysis of classical and current literature in the field by means of reports and conferences with a staff member. Areas of concentration may include animal behavior, sociobiology or psychobiology.

BIOL 545 THESIS

8

Preparation and defense of the master's thesis based upon an original biological research project. The research topic is selected upon consultation with the student's major professor and graduate committee.

Marine Station:

BIOL 101, 102, 103 or equivalent is prerequisite for all courses listed below.

BIOL 460 MARINE ECOLOGY*

5

A study of interspecific, intraspecific and community relationships demonstrated by marine organisms.

BIOL 462 ICHTHYOLOGY*

5

A systematic study of the fishes found in Puget Sound, with a survey of the fishes of other waters.

BIOL 463 MARINE BOTANY*

5

A systematic study of plants found in Puget Sound, with a survey of marine plants from other areas.

BIOL 467 INTRODUCTION TO OCEANOGRAPHY*

5

A physical, chemical and geological study of the oceans and ocean basins as a habitat for life, emphasizing the mutual interaction between the oceanic biosphere and its environment.

BIOL 468 COMPARATIVE PHYSIOLOGY

5

A comparative study of the physiology and life processes of animals with emphasis on invertebrates. Prerequisite: BIOL 392.

BIOL 470 MARINE BIOPHYSICS

5

An introductory course emphasizing the physical aspects of living organisms studied by the experimental and conceptual methods of physics with application to marine life.

BIOL 475 MARINE INVERTEBRATES*

5

A study of the biology of selected groups of marine invertebrates.

BIOL 508 PHYSIOLOGY OF THE ALGAE

5

A comparative study of the physiology of representative members of the major algal groups. Collection and growth of pure cultures of single-celled forms and related metabolic processes, nutritional factors, light requirements, synchronization and growth will be emphasized.

BIOL 514 SYMBIOSIS

5

A study of sharply defined associations between organisms. Selected examples of the viruses, bacteria, plants and animals are used to illustrate varying degrees of relationships. Prerequisite: Course work in one group of animals or plants or microbes or parasitology. Chemistry courses through organic are highly recommended. Two laboratories per week.

BIOL 516 BEHAVIOR OF MARINE ORGANISMS

5

A study of inter- and intraspecific behaviors of marine animals and their behavioral responses to the physical environment. Laboratory experiences, field observations and a research project are requirements. Prerequisite: BIOL 374 or BIOL 458; or PSYC 130 and background in organismal biology and permission of instructor.

*Qualifies as a marine-oriented course.

BUSINESS

P. Joice, Chairman; R. Blabey, W. Dassenko, W. Messer, J. Paulman, R. Wehtje.

The courses and programs offered by the department are designed to prepare students for business careers with the church, government and industry.

The objectives of this department are:

1. To provide the student with the basic business skills required for initial job placement.
2. To give the student a broad background of knowledge of the free enterprise system developed through the several disciplines of business.
3. To assist the student in developing a sound Christian philosophy toward our modern political economy and changing business world.
4. To encourage Seventh-day Adventist students to prepare for positions of business leadership and service within organizations sponsored by this denomination.

General Recommendations. Two or more units of mathematics, other than business or general mathematics, should be included as a part of the secondary school program. It would be desirable to complete a course in typewriting so that skill can be used as a functional communication tool. In addition, a course in office machines would prove advantageous in several types of business environments.

Degrees offered. The department offers a Bachelor of Science in Business Administration degree (BSBA) with opportunity to concentrate in the areas of accounting, health facility administration, information science, management or marketing. A total of 96 quarter hours in business is required. No minor is required.

A Bachelor of Arts degree with a major in business administration is also available to the student who wishes a broader liberal arts preparation than that provided by the BSBA. A minor is required for the BA degree. A total of 55 quarter hours in business is required; 60 quarter hours allowed. Students planning to pursue graduate studies in economics are advised to complete the BA major in Business Administration with a minor in mathematics. Courses within the major should be chosen in consultation with the economics adviser.

Associate of Science degrees are also available for those students who, for a variety of reasons, may find it impossible to complete a four-year program without an interruption. Such programs provide opportunity for students to gain the basic knowledge and skills required for initial job placement. Minors are also available in either business or economics.

Students who plan to teach business subjects at the high-school level should consult with the department chairman or follow the Business Education program listed in the Department of Office Administration. Students may emphasize either business or office occupation skills.

Graduate Study. Students who anticipate graduate study in business areas or

BUSINESS

economics should note the specific requirements of the various schools where they intend to apply. In general, it is recommended that a minimum of one quarter of calculus be included in the undergraduate program. Curriculums of a quantitative nature usually require a year of calculus and additional mathematics courses.

BUSINESS (Bachelor of Science in Business Administration)

A student majoring in business must complete the core requirements, the required cognates, one concentration and the general studies program for the baccalaureate degree as outlined in this bulletin.

Core Requirements:

ACCT 121, 122, 123 or ACCT 125, 126	Principles of Accounting Principles of Accounting	10
Choose six quarter hours from:		
ACCT 321, 322	Intermediate Accounting	
ACCT 331, 332	Managerial Cost Accounting	6
ACCT 335	Personal Income Tax	
ACCT 435	Advanced Income Tax	
CPTR 131	Data Processing	4
ECON 241, 242, 243	Principles of Economics	9
FINA 351	Business Finance	4
GBUS 266	Quantitative Analysis for Management	4
GBUS 263	Business Statistics	5
GBUS 361, 362, 363	Business Law	9
GBUS 496	Business Seminar	2
MGMT 171	Principles of Management	4
MKTG 381	Marketing	4
		61

Required Cognates:

MATH 117 or MATH 121, 122	Precalculus Fundamentals of Mathematics, I, II	5-8
OFAD 362	Business Communications	4
PSYC 130	General Psychology	4
SPCH 101	Fundamentals of Speech Communication	4

Concentration: Accounting

ACCT 321, 322, 323	Intermediate Accounting	9
ACCT 331, 332	Managerial Cost Accounting	6
ACCT 335	Personal Income Tax	3
ACCT 435	Advanced Income Tax	3
Six of above quarter hours apply toward core requirements and may not be counted again.		
ACCT 421	Advanced Accounting	4
ACCT 430	Auditing Concepts	3
ACCT 431	Auditing Practices	3
	Electives	4

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.

BUSINESS**Concentration: Health Facility Administration**

ACCT 427	Fund Accounting	4
BIOL 201, 202	Anatomy and Physiology	8
ECON 341 or ECON 343	Intermediate Microeconomics Intermediate Macroeconomics	4
MGMT 271	Personnel Management	4
MGMT 273	Introduction to Health Care Organizations	2
MGMT 475	Health Care Organization and Management	2
MGMT 476	Human Relations in Management	4
	Electives	<u>7</u>

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman. 35

Concentration: Information Science

CPTR 134	Introduction to Computing	3
CPTR 136	File Oriented Programming (COBOL)	4
CPTR 215	Assembly Language Programming I	3
CPTR 225	Commercial Computer Applications (RPG)	4
CPTR 227	Computer Operations	2
CPTR 451	Computer Systems Analysis and Design	4
MATH 289 or CPTR 236	Linear Algebra and Its Applications Data Structures Electives	3-4 11-12

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman. 35

Concentration: Management

ECON 341 or ECON 343	Intermediate Microeconomics Intermediate Macroeconomics	4
MGMT 271	Personnel Management	4
MGMT 473	Production Management	4
MGMT 476	Human Relations in Management	4
MGMT 479	Business Policies	4
	Electives	<u>15</u>

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman. 35

Concentration: Marketing

ECON 341 or ECON 343	Intermediate Microeconomics Intermediate Macroeconomics	4
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BUSINESS

MKTG 383 or MKTG 483	Principles of Advertising Purchasing	4
MKTG 385 or MKTG 485	Selling and Sales Management Retail Store Operation and Management	
	Electives	4
	Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.	
		<u>23</u>
		<u>35</u>

MAJOR IN BUSINESS ADMINISTRATION (Bachelor of Arts)

A student majoring in business must complete 55 quarter hours in the major, the required cognates and the general studies program for the baccalaureate degree as outlined in this bulletin.

Major Requirements:

ACCT 121, 122, 123 or ACCT 125, 126	Principles of Accounting	10
ECON 241, 242, 243	Principles of Accounting	
GBUS 361, 362, 363	Principles of Economics	9
GBUS 496	Business Law	9
	Business Seminar	2
	Electives (16 must be upper division)	<u>25</u>
	Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.	<u>55</u>

Required Cognates:

MATH 117 or MATH 121, 122	Precalculus	5-8
OFAD 362	Fundamentals of Mathematics, I, II	
PSYC 130	Business Communications	4
SPCH 101	General Psychology	4
	Fundamentals of Speech Communication	4

BUSINESS (Associate of Science)

A student specializing in business must complete 58 quarter hours in the area, the required cognates and the general studies program for the associate degree as outlined in this bulletin.

Area Requirements:

ACCT 121, 122, 123 or ACCT 125, 126	Principles of Accounting	10
CPTR 131	Principles of Accounting	
ECON 241, 242, 243	Data Processing	4
FINA 101	Principles of Economics	9
GBUS 361, 362, 363	Personal Finance	2
	Business Law	<u>9</u>

BUSINESS

MGMT 171	Principles of Management	4
or		
MGMT 275	Management of Small Businesses	

Electives

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.

20

58

MINOR IN BUSINESS

A student minoring in business must complete 30 quarter hours:

ACCT 121, 122, 123	Principles of Accounting	10
or		
ACCT 125, 126	Principles of Accounting	9
ECON 241, 242, 243	Principles of Economics	11

Electives (8 must be upper division)

30

Approval of business adviser required.

MINOR IN ECONOMICS

A student minoring in economics must complete 30 quarter hours:

ECON 241, 242, 243	Principles of Economics	9
ECON 341	Intermediate Microeconomics	4
ECON 343	Intermediate Macroeconomics	4
	Electives (8 must upper division)	13

30

Approval of economics adviser required.

ACCOUNTING (ACCT)**ACCT 121, 122, 123 or 125, 126 PRINCIPLES OF ACCOUNTING 4, 3, 3 or 5, 5**

A study of accounting concepts and procedures required in the accumulation and presentation of data needed by management for decision making. Must be taken in sequence. May be taken in a two- or three-quarter sequence; the two-quarter sequence (125, 126) is 5 hours per quarter. See the *Class Schedule*.

ACCT 321, 322, 323 INTERMEDIATE ACCOUNTING 3, 3, 3

A study of the construction, analysis, and interpretation of financial statements and reports prepared from accounting records. Basic accounting procedures employed in balance sheet evaluation and determination of profit. Prerequisite: ACCT 123 or ACCT 126.

ACCT 331, 332 MANAGERIAL COST ACCOUNTING 3, 3

Standards and budgets for control; cost-volume-profit relationships; discretionary and committee costs; application of overhead and analysis of variances; accounting systems for accumulating cost data; responsibility centers and controllable costs; long-range planning; capital budgeting; quantitative techniques and computer problems applied to cost accounting. Prerequisite: ACCT 123 or ACCT 126.

ACCT 335 PERSONAL INCOME TAX 3

A study of tax regulations and accounting records necessary to facilitate proper tax accounting for individuals.

ACCT 421 ADVANCED ACCOUNTING 4

Special accounting problems relating to partnership accounting, consolidated corporate financial statements, branch office accounting, trusts and estates, and other topics related to consolidated statements. Prerequisite: ACCT 323.

BUSINESS

ACCT 423 CPA REVIEW

A comprehensive review of problems covering accounting principles, procedures and presentations as found in the practice section of the CPA examination. Prerequisite: ACCT 323; ACCT 421 recommended..

ACCT 425 ACCOUNTING THEORY

Advanced study of assets, equities and income measurement by a review of the current literature and materials from the theory portion of the CPA examination. Prerequisite: ACCT 323; ACCT 332 and ACCT 421 recommended.

ACCT 427 FUND ACCOUNTING

A study of the application of fund accounting principles to various governmental entities, school, hospital and church accounting systems. Prerequisite: ACCT 123 or ACCT 126. Offered alternate years.

ACCT 430 AUDITING CONCEPTS

A study of the auditing standards and concepts observed by certified public accountants in the examination of financial statements of business and other organizations. Prerequisite: ACCT 323.

ACCT 431 AUDITING PRACTICES

A continuation of the auditing concepts study with a shift in emphasis to the application and operation of auditing. Methods of preparation of audit programs, work papers, internal control evaluations and report writing. Prerequisite: ACCT 430.

ACCT 435 ADVANCED INCOME TAX

While emphasizing partnership and corporation income tax law, this course also includes the topics of estate and gift taxes, trust reporting and researching income tax problems. Prerequisites: ACCT 123 or 126; ACCT 335.

COMPUTER SCIENCE (CPTR)

CPTR 124 INTRODUCTION TO BASIC

See Computer Science section of this bulletin.

CPTR 131 DATA PROCESSING

The course focuses on fundamental software and hardware concepts as they apply to business applications. Students will obtain hands-on experience on several computer systems and a variety of peripheral devices. They will be required to write and execute a series of programs in BASIC and at least one in RPG II.

CPTR 134 INTRODUCTION TO COMPUTING

See Computer Science section of this bulletin.

CPTR 136 FILE ORIENTED PROGRAMMING

An introduction to concepts and techniques of inputting and outputting data and structuring of data on bulk storage devices. Emphasis will be on COBOL but techniques will also be illustrated using FORTRAN and BASIC. Prerequisite: CPTR 131 or CPTR 134.

CPTR 215 ASSEMBLY LANGUAGE PROGRAMMING I

See Computer Science section of this bulletin.

CPTR 225 COMMERCIAL COMPUTER APPLICATIONS

Principles of analyzing and solving practical business programming problems applicable to any computer or language; emphasis on standard flow charts peculiar to the problems commonly encountered in business situations; functional use of report program generator (RPG) language; experience in the use of a computer. Prerequisite: CPTR 131 or CPTR 134.

CPTR 451 COMPUTER SYSTEMS ANALYSIS AND DESIGN

A study of information processing concepts; management considerations of the information system data base concepts; systems analysis, design, evaluation and implementation; programming applications to a variety of business oriented problems. Prerequisites: ACCT 123 or ACCT 126; CPTR 131 or CPTR 134; CPTR 136 or CPTR 225.

ECONOMICS (ECON)

ECON 241, 242, 243 PRINCIPLES OF ECONOMICS	3, 3, 3
A study of the organization, operation and control of the American economy and of the principles and analytical concepts pertaining thereto. Must be taken in sequence.	
ECON 341 INTERMEDIATE MICROECONOMICS	4
A study of the structure of markets, the determination of prices, the relations of price and cost, income and its functional distribution in a capitalistic economy. Prerequisite: ECON 243.	
ECON 343 INTERMEDIATE MACROECONOMICS	4
Analysis of the determinants of the aggregate level of employment output, and income of an economy. Prerequisite: ECON 243. Offered alternate years.	
ECON 345 ECONOMIC HISTORY OF THE UNITED STATES	4
A comprehensive study of the economic development of the United States from the colonial period to the present. Recommended prerequisite: ECON 243.	
ECON 441 MONEY AND BANKING	4
A study of the functional activities of the institutions which comprise our financial system; emphasizing the nature and functions of money, credit and banking. Prerequisite: ECON 243. Offered alternate years.	
ECON 443 COMPARATIVE ECONOMIC SYSTEMS	4
A study of the theoretical basis of capitalism; socialism and communism followed by a comparison of the modern systems in their response to basic economic problems. Prerequisite: ECON 243 or permission of the instructor. Offered alternate years.	
ECON 445 ECONOMICS OF FOREIGN TRADE	4
Examines the role of trade in world development and stability. Develops the principles of trade and foreign exchange; considers the effects of tariffs and other trade policies; describes international organizations dealing with trade and exports. Prerequisite: ECON 243. Offered alternate years.	

FINANCE (FINA)

FINA 101 PERSONAL FINANCE	2
A course designed to provide an individual with the techniques to manage his personal finances more efficiently.	
FINA 351 BUSINESS FINANCE	4
A study of the fundamental principles of financial policy in the organization and management of corporate enterprises. Prerequisites: ACCT 123 or ACCT 126 and ECON 243.	
FINA 451 INVESTMENTS	4
A study of the principles of making sound investments in the securities markets, managing investment portfolios, evaluating securities, the function of the speculation, the hedging operation and the evaluation of market risks. Prerequisite: ACT 123 or ACCT 126 or permission of the instructor. Offered alternate years.	
FINA 453 CREDIT ADMINISTRATION	4
A study of loan and collection problems from the viewpoint of the credit administrator. Offered alternate years. Prerequisite: ACCT 123 or ACCT 126 or permission of the instructor.	
FINA 455 PUBLIC FINANCE	4
Governmental expenditures, taxation, public data and public financial administration; public policies on expenditures, taxation and debt management and their relation to business fluctuations. Prerequisites: ACCT 123 or ACCT 126 and ECON 243.	

BUSINESS

GENERAL BUSINESS (GBUS)

GBUS 263 BUSINESS STATISTICS	5
A course including descriptive and inferential statistics with emphasis on business and economics applications. Prerequisite: MATH 117 or MATH 122.	
GBUS 266 QUANTITATIVE ANALYSIS FOR MANAGEMENT	4
A study of the quantitative methods needed for solving problems in management and other subdisciplines of business. Prerequisite: GBUS 263.	
GBUS 361, 362, 363 BUSINESS LAW	3, 3, 3
Fundamentals of law which affect business transactions. Emphasis on contracts, agencies, negotiable instruments, landlord and tenant relationship, personal property and corporations.	
GBUS 365 PRINCIPLES OF INSURANCE	4
A study of insurance contracts, underwriting organizations and insurance representation and procedures. Offered alternate years.	
GBUS 367 REAL ESTATE	4
A survey course in the basic principles and problems of real estate management and appraisal.	
GBUS 462 PUBLIC POLICIES TOWARD BUSINESS	4
This course will cover the broad topics of antitrust, regulated industry and certain special cases of government intervention in the marketplace. Prerequisite: ECON 243 or permission of the instructor.	
GBUS 491, 492 INTERNSHIP IN BUSINESS	4
On-the-job work experience with supplementary academic assignments provided in cooperation with a business organization or not-for-profit institution; taken only after junior-year business courses have been completed and only with the written approval of the department chairman. Application must be made during the first two weeks of the quarter prior to the actual work experience.	
GBUS 496 SEMINAR	2
A course in orientation, research, problems and trends in business and economics. Students will do independent study and research. A formal paper is required. Open only to students majoring in the department. To be taken during senior year.	

MANAGEMENT (MGMT)

MGMT 171 PRINCIPLES OF MANAGEMENT	4
A study of the functions of management in terms of administrative organization, planning and control. The course deals with the setting of business objectives and policies, how executives make decisions and the problems that arise in the delegating of authority and responsibility.	
MGMT 271 PERSONNEL MANAGEMENT	4
A study of the problems of employee procurement, training, motivation, job evaluation, wage administration, employee benefits and negotiating with labor unions. Recommended prerequisite: MGMT 171.	
MGMT 273 INTRODUCTION TO HEALTH CARE ORGANIZATIONS	2
Introduction to the history, concepts and activities of health care systems. The course will focus on the basic elements, the changing nature of the system and issues confronting the future health care system. Recommended prerequisites: ACCT 123 or ACCT 126 and MGMT 171.	
MGMT 275 MANAGEMENT OF SMALL BUSINESSES	4
A comprehensive and practical approach to assimilate, clarify and interrelate various concepts peculiar to the small business enterprise. Recommended prerequisite: ACCT 123 or ACCT 126.	

MGMT 371 JOB ANALYSIS

2

Techniques and practice in analyzing requirements of various types of work positions and writing descriptions needed by the personnel department. Recommended prerequisites: MGMT 171 and MGMT 271. Offered alternate years.

MGMT 375 SUPERVISION

2

The theory and practice of work-group supervision with emphasis on small-group dynamics and the supervisor's leadership role. Appraisal interviewing, on-the-job training, individual counseling, employee development, conference leadership and employee-management relations. Recommended prerequisites: MGMT 171 and MGMT 271. Offered alternate years.

MGMT 473 PRODUCTION MANAGEMENT

4

A systems-oriented view of the production management field. Analysis and synthesis of elements common to production management. Prerequisites: ACCT 123 or ACCT 126 and MGMT 171; recommended prerequisite: ACCT 332.

MGMT 475 HEALTH CARE ORGANIZATION AND MANAGEMENT

2

Analysis of health care organization with emphasis on organizational functions, structure, financial planning and controls. Prerequisites: ACCT 123 or ACCT 126, and MGMT 171 and MGMT 273.

MGMT 476 HUMAN RELATIONS IN MANAGEMENT

4

A survey of the human relations problems found in various types of organizations. Recommended prerequisites: MGMT 171 and MGMT 271.

MGMT 478 DENOMINATIONAL POLICY

2

A survey of the various types of policies of the Seventh-day Adventist Church organization as found in the Working Policies of the General Conference. Permission of the instructor required. Recommended prerequisite: MGMT 171. Offered alternate years.

MGMT 479 BUSINESS POLICIES

4

An integration of various subject areas in terms of policy-level decision making. The duties and responsibilities of top management in establishing policies, objectives and future plans for business organizations. Prerequisites: completion of business core and MGMT 476.

AGRI 362 FARM MANAGEMENT

3

See the Biology section of this bulletin.

MARKETING (MKTG)**MKTG 381 MARKETING**

4

A study of the nature and operation of the market structure. Methods of marketing agricultural products, raw materials and manufactured goods. Attention is given to marketing functions, institutions and costs. Prerequisites: ACCT 123 or ACCT 126 and ECON 243 or permission of the instructor.

MKTG 383 PRINCIPLES OF ADVERTISING

4

The principles, functions, forms and techniques of advertising. Advertising media, personnel and institutions. Persuasive mass communications in marketing and including problem analysis and solution planning, budgeting, research, the use of media and creative techniques. Prerequisite: MKTG 381. Offered alternate years.

MKTG 385 SELLING AND SALES MANAGEMENT

4

Basic principles in selling, selling techniques and sales management. Development of sales manuals and effective sales presentation methods, controlling the sales force. Offered alternate years.

MKTG 481 PUBLIC RELATIONS

4

The broad field of public relations as a promotional activity of the firm; analysis of the techniques used to create and maintain goodwill. Offered alternate years.

BUSINESS

MKTG 483 PURCHASING

All phases of governmental, industrial and institutional purchasing including organization procedures, price policies, value analysis, legal aspects and newer approaches to purchasing systems using data processing and PERT control. Offered alternate years.

MKTG 485 RETAIL STORE OPERATION AND MANAGEMENT

A study of the various types of retail institutions and their role in the distribution system. Problems of planning and control as they apply to the retail store. Special attention given to Adventist Book Center operation and school bookstores. Prerequisite: MKTG 381. Offered alternate years.

JOUR 465 PROMOTIONAL CAMPAIGNS

See the Communications section of this bulletin.

4

4

3

COURSES RELATED TO THE MASTER OF EDUCATION PROGRAM

The following courses may be applied toward the Master of Education degree. For further information, see the *Graduate Bulletin*.

BUSINESS EDUCATION (BUED)

BUED 474 WORKSHOP IN BUSINESS EDUCATION

2

A study of a major program or area of business education in terms of plans, procedures, materials, research and individual projects. Techniques and methods are studied and practiced which are designed to improve instructional competency. May be repeated.

BUED 491 PRINCIPLES OF BUSINESS EDUCATION

2

A study of the problems, trends and recent developments in business education.

BUED 496 SEMINAR IN BUSINESS EDUCATION

2

An in-depth study of a specific topic pertinent to business education. Topics will be different each time the course is offered. Topics may include such subjects as: consumer economic education, school and community relations, tests and measurements in business education, or audio-visual aids for use in business education.

CHEMISTRY

C. Webster, Chairman; C. Chinn, R. Rittenhouse, R. Wade.

MAJOR IN CHEMISTRY (Bachelor of Arts)

A student majoring in chemistry must complete 50 quarter hours in the major, the required cognates and the general studies program for the baccalaureate degree as outlined in this bulletin. Any minor may be chosen for the Bachelor of Arts degree.

Major Requirements:

CHEM 141, 142, 143	General Chemistry	12
CHEM 264, 265, 266	Analytical Chemistry	10
CHEM 321, 322, 323	Organic Chemistry	12
CHEM 351, 352, 353	Physical Chemistry	12
CHEM 496, 497	Chemistry Seminar	2
	Electives	2

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.

Required Cognates:

MATH 181, 281	Analytic Geometry and Calculus I, II	8
PHYS 211, 212, 213	General Physics	
PHYS 214, 215, 216	General Physics Laboratory	
or		
PHYS 251, 252, 253	Principles of Physics	
PHYS 254, 255, 256	Principles of Physics Laboratory	12

MAJOR IN CHEMISTRY (Bachelor of Science)

A student majoring in chemistry must complete 65 quarter hours in the major, the required cognates and the general studies program for the baccalaureate degree as outlined in this bulletin. No minor is required for the Bachelor of Science degree, but minors in both mathematics and physics are recommended.

Major Requirements:

CHEM 141, 142, 143	General Chemistry	12
CHEM 264, 265, 266	Analytical Chemistry	10
CHEM 321, 322, 323	Organic Chemistry	12
CHEM 351, 352, 353	Physical Chemistry	12
CHEM 477	Independent Study in Chemistry	1
CHEM 496, 497	Chemistry Seminar	2
	Electives	16

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.

CHEMISTRY

Required Cognates:

CPTR 125	Principles of BASIC	2
MATH 181, 281	Analytic Geometry and Calculus I, II	8
MATH 282, 283	Analytic Geometry and Calculus III, IV	8
PHYS 211, 212, 213	General Physics	
PHYS 214, 215, 216 or	General Physics Laboratory	
PHYS 251, 252, 253	Principles of Physics	
PHYS 254, 255, 256	Principles of Physics Laboratory	
		12

MINOR IN CHEMISTRY

A student minoring in chemistry must complete 27 quarter hours:

Electives (3 must be upper division) 27

Approval of chemistry adviser required.

CHEMISTRY (CHEM)

CHEM 101, 102 INTRODUCTORY CHEMISTRY I

4, 4

An introductory course in chemistry covering the fields of inorganic, organic and biochemistry. Completion of this course will meet the general studies requirement for a sequence in science but does not apply on a major or minor. Must be taken in sequence. Three lectures, one laboratory per week.

CHEM 141, 142, 143 GENERAL CHEMISTRY

4, 4, 4

The structure and states of matter; atomic and molecular theory, including valency, and periodicity and bonding; solutions and equilibria, stoichiometry, kinetics and thermodynamics, and the descriptive chemistry of metals and nonmetals. Must be taken in sequence. Three lectures and one laboratory per week. Prerequisite or corequisite: MATH 121, 122 or equivalent.

CHEM 203 INTRODUCTORY CHEMISTRY II

3

This course is a continuation of CHEM 101, 102, emphasizing organic and biochemistry. Will not apply on major or minor. Three lectures per week.

CHEM 264, 265, 266 ANALYTICAL CHEMISTRY

4, 3, 3

Data treatment and certain gravimetric, volumetric and spectrophotometric methods of analysis are presented in CHEM 264. Three lectures, one laboratory per week Fall quarter. CHEM 265 emphasizes ionic equilibrium and electrochemistry, and CHEM 266 covers electroanalytical and chromatographic methods. Two lectures, one laboratory per week Winter and Spring. Prerequisite: CHEM 141, 142, 143.

CHEM 321, 322, 323 ORGANIC CHEMISTRY

4, 4, 4

Principles of organic chemistry; their application to the preparation, properties and reactions of aliphatic, aromatic and a few heterocyclic compounds. Laboratories will introduce organic techniques and emphasize synthesis, purification and identification of organic compounds utilizing spectroscopic methods. Three lectures and one laboratory per week. Prerequisite: CHEM 141, 142, 143.

CHEM 351, 352, 353 PHYSICAL CHEMISTRY

4, 4, 4

An introductory course in thermodynamics, kinetics, quantum chemistry, spectroscopy, structure, electrochemistry and radiochemistry. Laboratory includes experiments on the various physical properties of matter, including electronics and computer techniques. Three lectures, one laboratory per week. Prerequisites: CHEM 264, 265, 266; PHYS 211, 212, 213; 214, 215, 216 or PHYS 251, 252, 253; 254, 255, 256 and MATH 121, 122; MATH 181; MATH 281, or permission from the instructor.

CHEMISTRY

CHEM 427, 428 ADVANCED ORGANIC CHEMISTRY 3, 3

An in-depth study of the structure of organic molecules, their synthesis, reactions and reaction mechanisms. Laboratories will emphasize synthesis and the use of spectroscopic techniques to probe organic structure and reaction stereochemistry. Two lectures and one laboratory per week. Prerequisite: CHEM 321, 322, 323.

CHEM 431, 432 BIOCHEMISTRY 4, 3

A study of the chemistry of carbohydrates, lipids, proteins, nucleic acids and porphyrins; the nature and mode of action of enzymes; intermediary metabolism. The spring quarter, 431, consists of three lectures and one laboratory per week; it is prerequisite to the autumn course, 432, which is three lectures per week and no laboratory. Four quarter hours, spring; three quarter hours, autumn. Prerequisite: CHEM 321, 322, 323.

CHEM 442, 443 ADVANCED INORGANIC CHEMISTRY 2,2

A review of the modern theories of chemistry such as structure of the atom, bonding, reactions, solvent systems, coordination chemistry and biochemical applications. Prerequisite: CHEM 141, 142, 143; CHEM 351 highly recommended.

CHEM 461, 462 ADVANCED ANALYTICAL CHEMISTRY 3, 3

CHEM 461 covers a variety of current instrumental techniques. CHEM 462 stresses the application of infrared, ultraviolet-visible, mass and NMR spectroscopic methods to the problem of structure determination. Two lectures, one laboratory per week Autumn and Spring. Prerequisite: CHEM 266. Corequisite: CHEM 351.

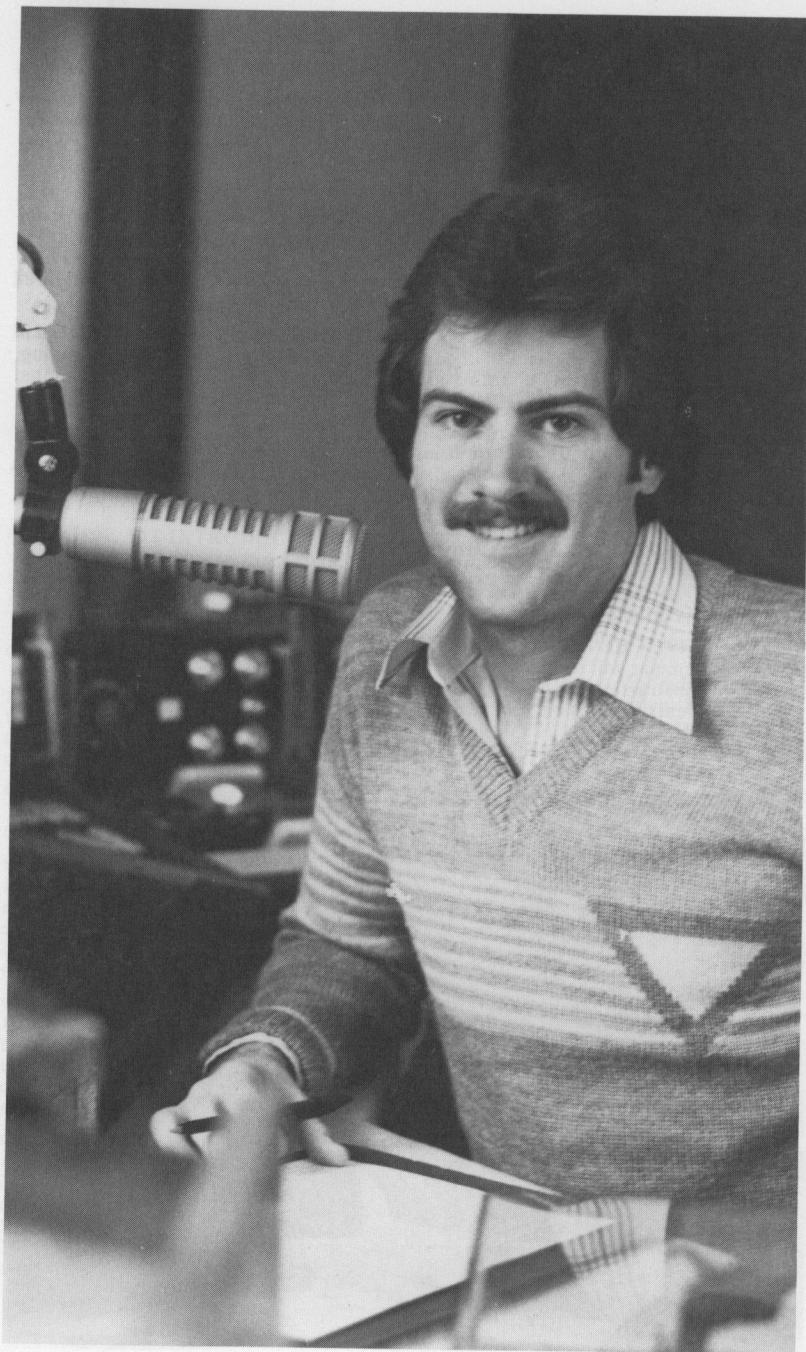
CHEM 472 METHODS OF TEACHING CHEMISTRY 3

Methods, materials and techniques of teaching chemistry on the secondary-school level. Observation, demonstration and class presentation are required of the students as part of this course. Will not apply on a major or minor.

CHEM 496, 497 CHEMISTRY SEMINAR 1, 1

Chemistry seminar will formally expose students to the use of chemical literature and the various abstracting services. Contemporary chemical concepts will be discussed with the students responsible for presenting summaries of current literature. Prerequisites: CHEM 266, CHEM 323 or consent of instructor. Required for the major, will apply to a minor.





COMMUNICATIONS

D. Schwantes, Chairman; L. Dickinson, D. Rigby, E. Watson, C. Wood.

The programs of the department are directed toward the objectives of preparing students to become articulate Christian communicators, and to provide basic preparation for those interested in communications-related professions. The department offers four majors, and minors in general speech communication and journalism.

The communication media major is offered through the cooperation of a number of departments whose courses include mass communication areas. It trains, primarily, those interested in broadcasting, audiovisual production and promotional work. This major also provides a preprofessional foundation which enables students to take advanced work in a communications area including public relations.

The speech communication major emphasizes public, small group and interpersonal communication. It is designed for the student intending to teach oral communication, or is used as an adjunct to other preparations in which interpersonal and public speech communication skills are particularly important.

The speech-language pathology and audiology major trains students to become speech and hearing therapists. The curriculum is considered primarily preprofessional in that it provides the undergraduate foundation on which graduate work may be taken to qualify the student to meet certification requirements held in most states and at the national professional level.

The journalism major aims to train students both for newspaper and magazine journalism and to provide understanding of the place of mass communication in today's world. The student must realize that if he would succeed in any branch of journalism there is no substitute for a foundation of literary and social studies. Against this background, professional courses provide the training necessary in competent writing and professional journalism.

MAJOR IN COMMUNICATION MEDIA (Bachelor of Arts)

A student majoring in communication media must complete 56 quarter hours in the major and the general studies program for the baccalaureate degree as outlined in this bulletin.

Major Requirements:

ART 161, 162, 163	Design	6-9
or		
ART 244, 245, 246	Commercial Art	
GRPH 154	Principles of Photography	2
JOUR 145	Mass Communication Media	4
JOUR 245	Journalistic Writing	4
JOUR 246	Reporting Methods	3
PRNT 121	Introduction to Graphic Arts	3
PRNT 295	Printing Layout and Design	3
SPCH 101	Fundamentals of Speech Communication	4

COMMUNICATIONS

SPCH 231	Broadcasting Techniques and Announcing	3
SPCH 401	Introduction to General Semantics	2
SPCH 443	Persuasive Speaking	3
SPCH 496	Seminar in Communication Media	2
	Electives (11 must be upper division)	14-17

Electives must be chosen in consultation with and approved by the academic adviser 56 assigned by the department chairman.

MAJOR IN SPEECH COMMUNICATION (Bachelor of Arts)

A student majoring in speech communication must complete 48 quarter hours in the major, the required cognate and the general studies program for the baccalaureate degree as outlined in this bulletin.

Major Requirements:

SPCH 101	Fundamentals of Speech Communication	4
SPCH 107	Voice and Articulation	3
SPCH 211	Oral Interpretation	3
SPCH 443	Persuasive Speaking	
or		
SPCH 453	Rhetoric and Public Address	3
SPPA 210	Survey of Speech-Language Pathology	
	and Audiology	
SPPA 291	Anatomy/Physiology of Speech/Hearing	3
	Electives (18 must be upper division)	29
		48

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.

Required Cognate:

Modern Language: Intro/Elem	12
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MAJOR IN SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY (Bachelor of Science)

A student majoring in speech-language pathology and audiology must complete 53 quarter hours in the major, the required cognates and the general studies program for the baccalaureate degree as outlined in this bulletin.

Major Requirements:

SPCH 101	Fundamentals of Speech Communication	4
SPCH 107	Voice and Articulation	3
SPCH 401	Introduction to General Semantics	2
SPPA 210	Survey of Speech-Language Pathology	
	and Audiology	
SPPA 275	Phonetics	3
SPPA 291	Anatomy/Physiology of Speech/Hearing	3
SPPA 299	Normal Language Development	3
SPPA 371	Audiology I	3
SPPA 372	Audiology II	3
SPPA 373	Aural Rehabilitation	3
SPPA 385	Language Disorders in Childhood	4
SPPA 386	Organic Speech Pathologies	4

COMMUNICATIONS

SPPA 387	Stuttering: Theories and Therapies	3
SPPA 390	Directed Clinical Observation	1
SPPA 391	Clinical Methods in Speech- Language Pathology	4
SPPA 393	*Clinical Practicum	4
SPPA 461	Diagnosis in Speech Pathology	<u>3</u>
		53

*Majors are expected to be active in the clinic each quarter of their junior and senior years and must have a minimum of 100 clock hours of client contact prior to registration for SPPA 484 and for graduation.

Required Cognates:

BIOL 201, 202	Anatomy and Physiology	8
MATH 106 or PSCY 350	Applied Statistics } Elementary Statistics	4
PSYC 430	Psychological Testing	3
PSYC 435, 436	Child Psychology and Laboratory	4
PSYC 446	Psychology of Personality	3
SOCI 204	General Sociology	4

MAJOR IN JOURNALISM (Bachelor of Arts)

A student majoring in journalism must complete 53 quarter hours for the major, the required cognates and the general studies program for the baccalaureate degree as outlined in this bulletin.

Major Requirements:

JOUR 145	Mass Communication Media	4
JOUR 245	Journalistic Writing	4
JOUR 246	Reporting Methods	3
JOUR 247	News Editing and Production	3
JOUR 495	Senior Project	1
	Electives (20 must be upper division)	38
	Journalism	14
	Nonjournalism	24
	(Approximately equal hours beyond general requirements in two of the following areas and are to be chosen with and approved by the academic adviser assigned by the department.)	
	Applied Arts	
	Health, Physical and Recreational Education	
	History and Social Studies	
	Humanities	
	Language Arts	
	Mathematics and Natural Science	
	Religion and Theology	
		—
		53

COMMUNICATIONS

Required Cognates:

GRPH 154	Principles of Photography <i>or</i> working knowledge of photography	2
OFAD 113	Beginning Typewriting <i>or</i> proficiency in typing	2
PRNT 121	Introduction to Graphic Arts	3
PRNT 295	Printing Layout and Design	3
SPCH 101	Fundamentals of Speech Communication	4
	Modern Language: Intro/Elem	8

MINOR IN SPEECH COMMUNICATION

A student minoring in speech communication must complete 27 quarter hours:

SPCH 101	Fundamentals of Speech Communication	4
	Electives (9 must be upper division)	<u>23</u>
	Approval of speech communication adviser required.	27

MINOR IN JOURNALISM

A student minoring in journalism must complete 27 quarter hours:

	Electives (3 must be upper division)	27
	Approval of journalism adviser required.	

SPEECH COMMUNICATION (SPCH)

SPCH 101 FUNDAMENTALS OF SPEECH COMMUNICATION

4

An introduction to the procedure of public speaking with emphasis on the acquirement of ease before an audience, a conversational attitude and reasonable facility in pronunciation, articulation and voice production.

SPCH 107 VOICE AND ARTICULATION

3

To aid in understanding and improving the speaking voice, with emphasis on the function of the speech mechanism. Instruction and practice to improve the quality and effectiveness of voice and to develop clear and correct pronunciation, enunciation and articulation.

SPCH 207 SMALL GROUP COMMUNICATION

2

A study of the nature of group and interpersonal processes; includes leadership and participation in group discussion.

SPCH 211 ORAL INTERPRETATION

3

A course in reading from the printed page with fluency and effectiveness, including reading from the Scriptures. A study of the various types of interpretative literature with a view toward its understanding for the purpose of public presentation.

SPCH 231 BROADCASTING TECHNIQUES AND ANNOUNCING

3

Instruction covering studio and control room operation including microphone techniques. Emphasis on voice, articulation and interpretation of copy. Includes preparation for the FCC Radio Telephone Third Class Operator's Permit (for U.S. citizens). On-the-air experience on KGTS-FM.

SPCH 252 PLAY PRODUCTION

1-3

A course concerned with the analysis, rehearsal and performance of a play chosen by the instructor. May be taken only by permission of the instructor.

COMMUNICATIONS

SPCH 275 COMMUNICATION THEORY	2
An examination of contemporary thought on the nature and process of communication.	
SPCH 310 INTERPERSONAL AND NONVERBAL COMMUNICATION	2
Examines both the process and the messages, verbal and nonverbal, that characterize interpersonal communication. Employs readings, discussion and strategies useful in interpersonal interactions.	
SPCH 341 APPLIED LOGIC	2
The study of evidence and reasoning toward the goal of critical thinking. Application of logic to analysis of contemporary issues and cogent thinking; includes theory and practice.	
SPCH 342 DEBATE	3
The structure and presentation of evidence and forms of logic in debating the national collegiate debate topic. Prerequisite: SPCH 341 or equivalent.	
SPCH 352 SURVEY OF BROADCASTING	3
Study of organization and operation of stations, networks and world systems of broadcasting as well as study of legal and regulatory control of radio-television.	
SPCH 363 HISTORY OF DRAMATIC ARTS	3
The study of the history and development of the theater from the Greek to the 20th century.	
SPCH 365 PLAY DIRECTION	3
Fundamentals of play direction. Producing and directing a one-act play or one act from a longer play for public performance.	
SPCH 381, 382, 383 PULPIT ADDRESS	2, 2, 2
Preparation and delivery of sermons and other types of public speeches. Adequate opportunity for practice is provided by the laboratory facilities of the department and through numerous speaking appointments. Prerequisite: SPCH 101.	
SPCH 401 INTRODUCTION TO GENERAL SEMANTICS	2
A course stressing the use of language to influence human behavior; language in problem solving and as a means of resolving conflicts. Prerequisite: SPCH 101 or equivalent or permission of instructor.	
SPCH 443 PERSUASIVE SPEAKING	3
The study of motivation and human behavior as applied by the public speaker in the process of persuasion. The analysis of persuasive speeches for emotional, ethical and logical proof. Practice in composing and delivering speeches to stimulate and convince. Prerequisite: SPCH 101.	
SPCH 453 RHETORIC AND PUBLIC ADDRESS	3
Study of the principles of rhetoric proposed by Aristotle, Quintillian, Cicero and others. The relationship of the principles of rhetoric to modern speechmaking. Prerequisite: SPCH 101.	
SPCH 472 METHODS OF TEACHING SPEECH COMMUNICATION	3
The basic principles and practices of teaching speech on the junior high and secondary levels. Special attention will be given to the contemporary methods of presentation in classroom and therapy situation. Observations, demonstration and class participation are required.	
SPCH 496 SEMINAR IN COMMUNICATION MEDIA	2
Studies of selected topics and review of current literature in communication media. Individual research projects included.	
ENGL 484 HISTORY OF THE ENGLISH LANGUAGE	3
See the English section of this bulletin.	

COMMUNICATIONS

SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY (SPPA)

SPPA 100 INDIVIDUALIZED SPEECH INSTRUCTION	1-3
Provides services to students who wish appraisals and remedial service for speech and hearing problems. Maximum one hour per quarter; by permission of the speech clinic director.	
SPPA 210 SURVEY OF SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY	3
A survey of communication disorders with major emphasis given to the etiologies, symptomatologies, and the recognition of speech, language, voice and hearing disorders.	
SPPA 275 PHONETICS	3
The theory, history, development and application of the international phonetic alphabet, its application to speech correction and to adequate pronunciation.	
SPPA 291 ANATOMY AND PHYSIOLOGY OF SPEECH AND HEARING	3
A comprehensive study of the anatomy, physiology and neuroanatomy of the speech and hearing mechanisms. Recommended prerequisite: BIOL 201, 202.	
SPPA 299 NORMAL LANGUAGE DEVELOPMENT	3
Study of the normal development of speech and language in children; acquisition of phonology, syntax, morphology and semantics; current theories of language acquisition.	
SPPA 371 AUDIOLOGY I	3
A study of the history of audiology, rehabilitation of the acoustically handicapped, and basic clinical techniques used in air, bone and impedance audiometry. Prerequisite: SPPA 210.	
SPPA 372 AUDIOLOGY II	3
Psychophysical methods of auditory testing; specialized audiometric techniques; theory and practice determining types of hearing abilities; the interpretation of test results; hearing aid evaluation; follow-up procedures for the acoustically handicapped. Prerequisite: SPPA 371.	
SPPA 373 AURAL REHABILITATION	3
Rehabilitation of hearing impairment; use of amplification, auditory training and speech reading. Prerequisite: SPPA 371	
SPPA 385 LANGUAGE DISORDERS IN CHILDHOOD	4
An introductory study of etiological theories, evaluation and management of childhood language disorders. Prerequisite: SPPA 210.	
SPPA 386 ORGANIC SPEECH PATHOLOGIES	4
A study of the etiologies, symptomatologies and treatment of organic disorders including cleft palate, cerebral palsy, aphasia, organic voice, dysarthria, oral-facial anomalies and mental retardation. Prerequisite: SPPA 385.	
SPPA 387 STUTTERING: THEORIES AND THERAPIES	3
A study of the theories of stuttering and an evaluation of therapeutic techniques employed. Prerequisites: SPPA 385; SPPA 386.	
SPPA 390 DIRECTED CLINICAL OBSERVATION	1
Attendance at scheduled sessions to observe clinical management of speech-language disorders and to participate as an assistant to the clinician.	
SPPA 391 CLINICAL METHODS IN SPEECH-LANGUAGE PATHOLOGY	4
Instruction, observation and practice in methods and procedures basic to the development and implementation of a program of remediation for speech-language disorders. Prerequisites: SPA 385; SPPA 390.	
SPPA 393 CLINICAL PRACTICUM	1-6
Provides clinical experience in evaluation and treatment of the various speech, language and hearing disorders. Responsibility commensurate with experience. Maximum 2 hours per quarter. Prerequisites: SPPA 386; SPPA 391.	

COMMUNICATIONS

SPPA 461 DIAGNOSIS IN SPEECH PATHOLOGY 3
Diagnosis and appraisal procedures of communicative disorders. Includes the use of speech and language tests, associated behavior and instrumentation techniques. Two lectures and one laboratory per week. Prerequisite: SPPA 210.

SPPA 473 CLEFT PALATE SPEECH 3
A study of the etiology of cleft palate and the techniques employed during therapy. Case histories are studied in detail. Prerequisite: SPPA 386.

SPPA 475 VOICE DISORDERS 3
Study of the etiological, diagnostic and therapeutic approaches to functional and organic disorders of voice; consideration of the acoustic characteristics of aberrant voice and mechanical faults of voice production. Prerequisite: SPPA 386.

SPPA 484 PUBLIC SCHOOL PRACTICUM 14
Professional laboratory experience for the speech pathology and audiology major. A weekly seminar will be conducted for students working in the Walla Walla area. Application for the autumn quarter must be made during the preceding spring quarter; application for the winter and spring quarters must be made during the first week of the autumn quarter. Prerequisite: SPPA 391; SPPA 393.

JOURNALISM (JOUR)

JOUR 145 MASS COMMUNICATION MEDIA 4
An introductory course in the organization, operation and control of the mass media in America, with emphasis on the social functions of mass communication and the characteristics of media audiences.

JOUR 245 JOURNALISTIC WRITING 4
A basic course in gathering facts and writing news stories for mass media audiences. Prerequisite: ENGL 121, 122.

JOUR 246 REPORTING METHODS 3
Basic training in the use of interviewing and other social research techniques for the gathering and reporting of news. Prerequisite: JOUR 245.

JOUR 247 NEWS EDITING AND PRODUCTION 3
Instruction and practice in copy editing and headline writing for newspapers. Two class periods per week, with a three-hour lab in which students are involved in evaluation, display, makeup and processing of written and pictorial matter under time pressure.

JOUR 257 PHOTOJOURNALISM 2
A practical course in the taking and use of photographs for publication. Attention is given to composition, cropping, caption writing and picture-page layout. Students are expected to have their own cameras. Prerequisite: GRPH 154 or equivalent.

JOUR 341, 342 MAGAZINE ARTICLE WRITING 3, 3
Fact writing with analysis of magazine markets, fundamentals of gathering materials for articles and preparation of manuscripts for publication.

JOUR 357 PRESS LAW AND ETHICS 3
A study of the legal and ethical aspects of the news-gathering process. Emphasis on libel, privacy, copyright, confidentiality and censorship.

JOUR 382 EDITORIAL WRITING 3
An analysis of the mass media's public opinion function with application in the writing of editorials, interpretive articles and critical reviews.

JOUR 385 RELIGIOUS COMMUNICATIONS 3
A course intended primarily for the nonjournalism student who wants to communicate his religious convictions, directly or indirectly. Areas of study include internal and external church public relations, religious writing and evangelistic advertising.

COMMUNICATIONS

JOUR 412 SCRIPT WRITING	3
A course in the writing of broadcast narratives. Students will prepare scripts for commercial, educational and religious markets. Emphasis is placed on the visualization of completed scripts. Recommended prerequisite: ENGL 335 or 336.	
JOUR 451, 452 MAGAZINE EDITING	3, 3
A course in the practical aspects of editing magazines, including working out a successful editorial formula, selecting articles and illustrations and planning makeup. Each student will do a term project consisting of planning a new magazine, with prospectus and dummy copy.	
JOUR 465 PROMOTIONAL CAMPAIGNS	3
A practical study in the writing of creative communication designed to sell products, services and ideas offered by clients. Includes media planning and campaign execution. Prerequisite: MKTG 383 or MKTG 481.	
JOUR 485 PUBLIC OPINION AND PROPAGANDA	3
An analysis of the mass media's role in forming public opinion and the reciprocal influence of public opinion on mass media decision makers. Includes research in attitude change processes and source, message, channel and receiver variables in the mass communication process.	
JOUR 490 PRACTICUM IN JOURNALISM	1-4
Practical experience in news and public relations functions with participating institutions. The student works under the cooperative direction of professionals and the communications department. This course will be evaluated on the S/NC basis. Instructor's permission must be obtained one quarter prior to registration.	
JOUR 495 SENIOR PROJECT	1
A student-selected, department-approved project to demonstrate one's ability to perform in his major field of instruction. Satisfactory completion of this course constitutes the department comprehensive requirement for the bachelor's degree. This course will be evaluated on the S/NC basis.	
MKTG 383 PRINCIPLES OF ADVERTISING	4
See the Business section of this bulletin.	
MKTG 481 PUBLIC RELATIONS	4
See the Business section of this bulletin.	
ENGL 335 CREATIVE WRITING: NARRATIVE	3
See the English section of this bulletin.	
SOCI 451 METHODS OF SOCIAL RESEARCH	2
See the Sociology and Social Work section of this bulletin.	

COMPUTER SCIENCE

T. Anderson, Chairman (Physics); L. Gienger (Engineering); J. Klein (Computer Science), M. Lang (Mathematics), G. Masden (Engineering), J. Paulman (Business).

The interdisciplinary program in computer science is coordinated by the Computer Science Committee (membership as listed above). The program provides curricula leading to Bachelor of Science and Bachelor of Arts degrees. The Bachelor of Science degree will prepare students for careers and graduate study in computer science. The Bachelor of Arts degree will prepare students for careers in areas applying computer information and data processing such as in business and in Seventh-day Adventist institutions. For entrance, 20 semester periods of secondary mathematics chosen from algebra, plane and solid geometry and trigonometry are required.

MAJOR IN COMPUTER SCIENCE (Bachelor of Arts)

A student majoring in computer science must complete 49 hours in the major, the required cognates, and the general studies program for the baccalaureate degree as outlined in this bulletin.

Major Requirements:

CPTR 134	Introduction to Computing	3
CPTR 135	Algorithmic Programming	4
CPTR 136	File Oriented Programming	4
CPTR 215	Assembly Language Programming I	3
CPTR 224	Scientific Computer Applications	
or		
CPTR 225	Commercial Computer Applications	4
CPTR 234	Assembly Language Programming II	3
CPTR 236	Data Structures	4
CPTR 341	Programming Languages	4
CPTR 342	Computer Architecture and Operating Systems	4
CPTR 227, 445	Computer Operations, Advanced Computer	
or		
CPTR 441, 442	Operations	4
CPTR 454	Advanced Computer Projects I, II	
	Algorithm Analysis	4
	Electives	8
		49

Electives must be chosen in consultation with and approved by the Computer Science Committee chairman. A minor should be chosen in an area in which computer science can be applied. Business, mathematics or a science is recommended. The minor should be chosen in consultation with the chairman of the Computer Science Committee.

Required Cognates:

MATH 181, 281	Analytic Geometry and Calculus I, II	8
MATH 289	Linear Algebra and Its Applications	
or		
MATH 331	Introduction to Algebra	
	A statistics course	4
ELCT 241	Fundamentals of Electronics	
or		
ENGR 324	Instrumentation	4-5

COMPUTER SCIENCE

MAJOR IN COMPUTER SCIENCE (Bachelor of Science)

A student majoring in computer science must complete 62 quarter hours in the major, the required cognates, and the general studies program for the baccalaureate degree as outlined in this bulletin. The GRE in computer science is required.

Major Requirements:

CPTR 134	Introduction to Computing	3
CPTR 135	Algorithmic Programming	4
CPTR 136	File Oriented Programming	4
CPTR 215	Assembly Language Programming I	3
CPTR 224	Scientific Computer Applications	
or		
CPTR 225	Commercial Computer Applications	4
CPTR 234	Assembly Language Programming II	3
CPTR 236	Data Structure	4
CPTR 331	Computers in the Laboratory	3
CPTR 341	Programming Languages	4
CPTR 342	Computer Architecture and Operating Systems	4
CPTR 351	Memory and I/O Systems	4
CPTR 374	Simulation and Modeling	3
CPTR 227, 445	Computer Operations, Advanced Computer Operations	
or		
CPTR 441, 442	Advanced Computer Projects I, II	4
CPTR 454	Algorithm Analysis	4
ENGR 354	Digital Logic Circuits	3
	Electives	8
	Electives must be chosen in consultation with and approved by the Computer Science Committee chairman.	62

Required Cognates:

ELCT 241	Fundamentals of Electronics	
or		
ENGR 324	Instrumentation	4-5
MATH 181, 281	Analytic Geometry and Calculus I, II	8
MATH 282, 283	Analytic Geometry and Calculus III, IV	8
MATH 289	Linear Algebra and Its Applications	
or		
MATH 311	Probability and Statistics	
MATH 331	Introduction to Algebra	4
MATH 341, 442	Numerical Analysis I, II	8
PHYS 251, 252	Principles of Physics	6
PHYS 254, 255	Principles of Physics Laboratory	2

MINOR IN COMPUTER SCIENCE

A student minoring in computer science must complete 30 quarter hours:

CPTR 134	Introduction to Computing	3
CPTR 135	Algorithmic Programming	4
or		
CPTR 136	File Oriented Programming	3
CPTR 215	Assembly Language Programming I	3
CPTR 224	Scientific Computer Applications	4
or		
CPTR 225	Commercial Computer Applications	4
CPTR 236	Data Structures	4
CPTR 341	Programming Languages	4
	Electives	<u>8</u>
		<u>30</u>

Required Cognates:

MATH 181	Analytical Geometry and Calculus I	4
MATH 289	Linear Algebra and Its Applications	4
or		
MATH 331	Introduction to Algebra	3-4

Approval of the chairman of the Computer Science Committee is required.

COMPUTER SCIENCE (CPTR)

CPTR 124 INTRODUCTION TO BASIC	2
Designed to introduce the general student to computer programming in the BASIC language. Includes conceptual aspects of programming and applications involving the manipulation of numbers and textual material. Students may not receive credit in both CPTR 124 and CPTR 125. Prerequisite: Elementary concepts of algebra. A or W or S	

CPTR 125 PRINCIPLES OF BASIC	2
An introduction to problem solving using the BASIC language on the computer. Includes problem analysis, algorithm and program development, debugging and documentation. Students may not receive credit in both CPTR 124 and CPTR 125. Prerequisite: MATH 117 or MATH 121 or equivalent. A or W or S	

CPTR 131 DATA PROCESSING	4
See the Business section of this bulletin.	

CPTR 134 INTRODUCTION TO COMPUTING	3
An introduction to problem solving methods and algorithm development, using primarily the FORTRAN language, including designing, coding, debugging and documenting programs emphasizing good programming style. Prerequisite: MATH 117 or MATH 121 or equivalent.	

CPTR 135 ALGORITHMIC PROGRAMMING	4
An introduction to algorithmic analysis and further study of algorithm design and programming style, emphasizing structured programming and including basic aspects of string processing, recursion, internal search/sort methods and simple data structures. BASIC and SPL languages will be used. Prerequisite: CPTR 134. A	

CPTR 136 FILE ORIENTED PROGRAMMING	4
An introduction to concepts and techniques of inputting and outputting data and structuring of data on bulk storage devices. Emphasis will be on COBOL but techniques will also be illustrated using FORTRAN and BASIC. Prerequisite: CPTR 131 or CPTR 134. W	

COMPUTER SCIENCE

CPTR 215 ASSEMBLY LANGUAGE PROGRAMMING I

3

An introduction to computer architecture, machine language and an assembly language, using microprocessors. Prerequisite: CPTR 134. S

CPTR 224 SCIENTIFIC COMPUTER APPLICATIONS

4

A survey of problem solving techniques applicable to scientific investigation, including symbolic methods, trial and error, simulation, statistics and graphics. Prerequisite: CPTR 134. S

CPTR 225 COMMERCIAL COMPUTER APPLICATIONS

4

Principles of analyzing and solving practical business programming problems applicable to any computer or language; emphasis on standard flow charts peculiar to the problems commonly encountered in business situations; functional use of report program generator (RPG) language; experience in the use of a computer. Prerequisite: CPTR 131 or CPTR 134; Recommend GBUS 261. S

CPTR 227 COMPUTER OPERATIONS

2

Affords opportunity for the student to gain experience in a real-life situation by working as a computer operator, programmer and consultant in the Educational Computer Center. Students will be supervised and instructed by the Center staff. Prerequisite: CPTR 134. W

CPTR 234 ASSEMBLY LANGUAGE PROGRAMMING II

3

Further study of computer architecture, machine language and assembly languages. Prerequisites: CPTR 135, CPTR 136. A

CPTR 236 DATA STRUCTURES

4

An introduction to common data structures, operations, applications and alternate methods of data representation. Topics include linear lists, strings, arrays, tree structures and an introduction to data base technique. Analysis of efficiency in time and space will be emphasized. Prerequisites: CPTR 234, MATH 289 or MATH 331. S

CPTR 331 COMPUTERS IN THE LABORATORY

3

A study of the application of computers in the control of laboratory equipment and the acquisition of data. The choice of hardware for specific applications will be considered. Prerequisite: CPTR 134. S

CPTR 341 PROGRAMMING LANGUAGES

4

The analysis of programming languages, including techniques of formal specification and analysis such as Backus-Naur form and syntax diagrams, lexical analysis and parsing. The analysis of several specific languages including both compiler and interpretive languages. The study of run-time behavior of program features. Prerequisite: CPTR 236. A

CPTR 342 COMPUTER ARCHITECTURE AND OPERATING SYSTEMS

4

The study of organization and architecture of computer systems, operating system principles and their interrelationships. Topics include I/O and interrupt structures, addressing schemes, multiprogramming, microprogramming, procedure implementation, memory management and recovery procedures. Prerequisite: CPTR 341. Offered alternate years. W

CPTR 351 MEMORY AND I/O SYSTEMS

4

The interfacing of memory and I/O devices to computer systems. Topics include random, semirandom, sequential and direct access methods, I/O devices and their characteristics, channels and I/O programming. Prerequisites: CPTR 236 and ENGR 354. Offered alternate years. W

CPTR 374 SIMULATION AND MODELING

3

Study of contemporary methods of simulation and modeling of deterministic and probabilistic systems using BASIC, FORTRAN and GAS. Applications to biology, business, engineering and physics. Prerequisites: CPTR 125 or CPTR 134; MATH 181 and MATH 289 or equivalent; BIOL 350 or GBUS 261 or MATH 311 or equivalent. S

CPTR 431 COMPUTERIZED INFORMATION SYSTEMS

3

See the Business section of this bulletin.

COMPUTER SCIENCE

CPTR 441, 442 ADVANCED COMPUTER PROJECTS I, II 2, 2

This course allows the student to work on a large scale project of a practical nature. Usually a single project will be chosen in consultation with the instructor, or several students may work on a large project using programming team techniques. Prerequisite: CPTR 341. AWS

CPTR 445 ADVANCED COMPUTER OPERATIONS 2

Affords the student further experience in computer operations. Experience on several computers and a wide variety of peripheral equipment will be provided. Prerequisites: CPTR 227 and CPTR 236. A

CPTR 454 ALGORITHM ANALYSIS 4

Basic techniques of design and analysis of efficient algorithms. The analysis of resource requirements of algorithms. Tests for computability. Prerequisite: CPTR 341. Offered alternate years. W

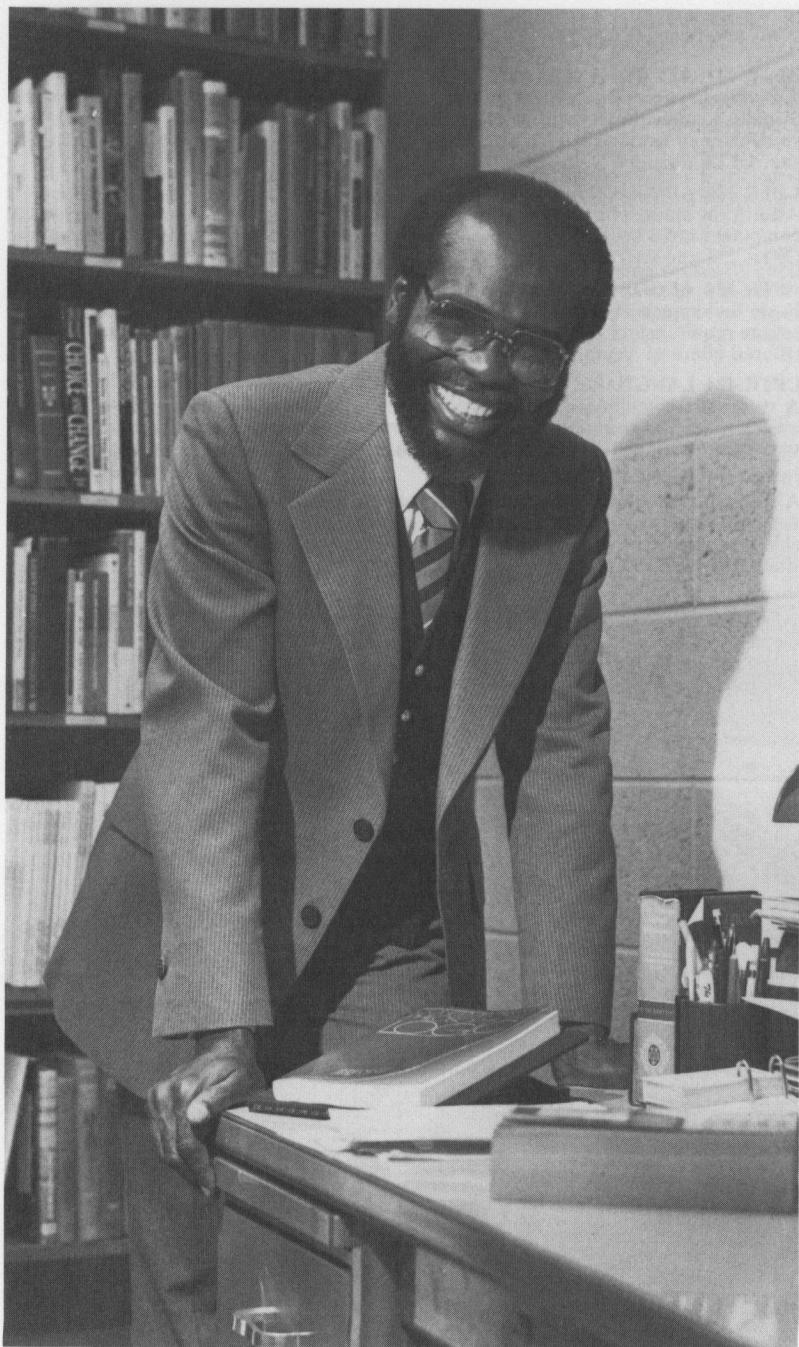
CPTR 474 LANGUAGE TRANSLATION 4

A study of the techniques of analyzing source language and generation of efficient object code. Construction of assemblers, interpreters and compilers will be considered. Prerequisite: CPTR 341. Offered alternate years. W

CPTR 475 DATA BASE TECHNIQUES 4

A study of the techniques of management of large data bases, using normal language data structures and specialized data base management systems. Commercially available systems will be compared. The design of data bases will be emphasized. Prerequisite: CPTR 342. S





EDUCATION AND PSYCHOLOGY

D. Wagner, Chairman; C. Hazelton, G. Hicinbothom, R. Hunter, D. Johnson, C. Koenig, H. Ochs, H. Phillips.

The department offers programs leading to a Bachelor of Science degree with a major in elementary education or psychology and an Associate of Science degree in early childhood education. Minors are available in either education or psychology, and preparation is provided for state and denominational certification in elementary and/or secondary teaching. With careful planning, a bachelor's degree and the first teaching certificate may be earned in four years of study.

The psychology curriculum is sufficiently flexible to meet the needs of students preparing for a wide range of careers in the behavioral sciences or in related professions that involve working with people. More emphasis is placed on the applied dynamics of human behavior and relationships than on animal or laboratory psychology.

The major requirements and cognate courses are intended to provide a scientific base on which a balanced program of electives may be built in accordance with the individual needs and interests of each student.

Although specific requirements for admission to graduate programs in most universities will be met by the general major, the student should realize that his graduate work may be impeded or prolonged in certain areas of psychology if special preparation is not obtained at the undergraduate level. For this reason, students who plan to continue academic work in psychology beyond the bachelor's degree are urged to consult with their advisers very early in their college careers.

The Associate of Science degree (offered cooperatively between the departments of education and psychology and home economics) with a specialization in early childhood education requires the completion of 96 quarter hours. The degree is designed to be completed in two years.

The purpose of the degree is to prepare the student for employment in nursery schools, day care centers, Head Start programs, parent cooperatives and in other early childhood education programs.

For work leading to a master's degree in education, see the *Graduate Bulletin*.

MAJOR IN ELEMENTARY EDUCATION (Bachelor of Science)

A student majoring in elementary education must complete 57 quarter hours in the major, as well as completing (1) a second major which is highly recommended; or (2) an approved concentration with a minimum of 45 quarter hours; or (3) a minor as offered by other departments of the college plus 27 quarter hours of academic support in content areas. If option three (3) is chosen, the student will select a sequence of course offerings which support areas of known need. This program is to be formalized when the student has completed 80 quarter hours and will become a part of the re-

EDUCATION AND PSYCHOLOGY

quirements for graduation. Any course graded lower than a C cannot apply to the content courses. In addition, the student must complete the general studies program for the baccalaureate degree as outlined in this bulletin. Program approval must be obtained from the academic adviser assigned by the department chairman.

Major Requirements:

Phase I

Phase I should be completed in its entirety before a student is permitted to proceed to Phase II.

EDUC 105	Introduction to Teaching	2
EDUC 110	Principles and Concepts of Christian Education	2
EDUC 210	Foundations of Education	3
EDUC 247	School Exploratory Experience—Elementary	1
PSYC 130	General Psychology	4
PSYC 220	Educational Psychology	4
	Competencies as required	
	Application for acceptance into the teacher education program	

Phase II

Formal acceptance into the teacher education program is required before registering for the following courses.

EDUC 361	Language Arts in the Elementary School	3
EDUC 362	Reading in the Elementary School	4
EDUC 365	Social Studies and Religion in the Elementary School	4
EDUC 369	Science and Health in the Elementary School	3
EDUC 373	Mathematics in the Elementary School	3
EDUC 375	Classroom Management	2
EDUC 390	Educational Evaluation	3
EDUC 478	Microteaching Laboratory—Elementary	2
EDUC 480	Directed Teaching—Elementary	14
PSYC 435	Child Psychology	3
		57

Students wishing denominational certification should refer to that section under certification.

MAJOR IN PSYCHOLOGY (Bachelor of Science)

A student majoring in psychology must complete 50 quarter hours in the major, the required cognates and the general studies program for the baccalaureate degree as outlined in this bulletin.

Major Requirements:

PSYC 130	General Psychology	4
PSYC 225	Psychological Experiments	2
PSYC 230	Systems and Theories in Psychology	4
PSYC 350	Elementary Statistics	4

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PSYC 375	Experimental Problems	3
PSYC 430	Psychological Testing	3
	Electives (15 must be upper division)	<u>30</u>

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.

Required Cognates:

A minimum of 20 quarter hours must be completed. An entire course sequence must be taken in at least one area. Courses should be chosen from the following (advanced courses may be substituted):

BIOL 101, 102, 103	General Biology	12
BIOL 201, 202	Anatomy and Physiology	8
BIOL 261	Genetics	4
CHEM 101, 102	Introductory Chemistry I	8
MATH 121, 122	Fundamentals of Mathematics I, II	8
PHYS 211, 212, 213	General Physics	9
PHYS 214, 215, 216	General Physics Laboratory	3

CERTIFICATION

The Walla Walla College Department of Education and Psychology is authorized by the Washington State Board of Education to recommend the following elementary and secondary teaching certificates:

Provisional

Standard

Those who intend to enter the teaching profession and to qualify for teaching certification in the state of their anticipated future employment should initiate the following steps early in their academic program (preferably not later than the sophomore year):

- a. Consult with the assigned academic adviser regarding specific requirements for the major chosen. Special attention should be given requirements within the major, minor or certification which present difficulties when taken out of sequence.
- b. Schedule regular consultation with the certification consultant in the department of education and psychology. This will facilitate the proper scheduling of professional education experiences.

Courses applying toward specific certification requirements require a grade of C or above. Course age limits vary with the credential.

Application for certification must be made through the certification consultant in the department.

Elementary Certification (Washington state):

The following majors, minors and areas of concentration approved for provisional elementary certification are offered. For details regarding specific requirements, consult with the department chairman.

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Majors:

Art	Mathematics
Biology	Modern Language (only one)
Business Education	Music Education
English	Physical Education
History	Speech Pathology and Audiology
Home Economics	

Minors:

Art	Library Science
Biology	Mathematics
Business or Economics	Modern Language (only one)
Chemistry	Music Teaching
Communications	Office Administration
English	Physical Education
Health	Physics
History	Political Science
Home Economics	Psychology
Industrial Arts Education	Religion
Journalism	Sociology

Areas of Concentration:

Biology	Mathematics
English	Music Teaching
Home Economics	Physical Education
Industrial Arts Education	Science

Secondary Certification (Washington state):

An approved *major* and the following courses:

Phase I

Phase I should be completed in its entirety before a student is permitted to proceed to Phase II.

EDUC 110	Principles and Concepts of Christian Education	2
EDUC 210	Foundations of Education	3
EDUC 267	Tutoring - Secondary	1
PSYC 130	General Psychology	4
PSYC 220	Educational Psychology	4
	Competencies as required	
	Application for acceptance into the teacher education program	

Phase II

Formal acceptance into the teacher education program is required before registering for the following courses.

EDUC 390	Educational Evaluation	3
EDUC 471	General Secondary Methods	2
*472	Methods course in major or minor academic field of study	3

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EDUC 479	Microteaching - Secondary (spring quarter, junior year; autumn or winter quarter, senior year)	2
EDUC 481	Directed Teaching - Secondary	14
PSYC 360 or SPCH 207	Small Group Procedures	2-3
PSCY 440	Small Group Communication	
	Adolescent Psychology	3
		43-44

The following courses are highly recommended:

EDUC 248	School Exploratory Experience - Secondary	1
EDUC 461	Methods of Audiovisual Education	2
EDUC 475	Teaching Reading Skills in Content Areas	3

*Secondary methods courses are listed under respective departments as course number 472 with the appropriate prefix. Consult the appropriate department for details.

Denominational Certification:

For those planning denominational certification, additional specific course work (e.g., Educational Evaluation, an approved health course (HLED 215 or HLED 238 or HLED 384 or HLED 453), 18 hours of religion including Basic Christian Beliefs, Spirit of Prophecy, Denominational History) is required. Please confer with the certification consultant in the department.

EARLY CHILDHOOD EDUCATION (Associate of Science)

A student specializing in early childhood education must complete 50 quarter hours in the area, the required cognates and the general studies program for the associate degree as outlined in this bulletin.

Area Requirements:

CFSC 282	Child Development	3
EDUC 110	Principles and Concepts of Christian Education	2
EDUC 251	Laboratory Experiences in Preschool Education	12
EDUC 295	Early Childhood Education	3
EDUC 351	Parent Education for Preschool Teachers	3
PSYC 130	General Psychology	4
PSYC 431	Psychology of Exceptional Children	3
PSYC 435	Child Psychology	3
PSYC 437	Childhood Learning Disorders	3
	Electives (home economics or elementary education)	14
		50

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.

Required Cognates:

ENGL 374 or LIBR 374	Literature in the Elementary School	3
	Library Materials for Children	

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SOCI 204	General Sociology	4
SOCI 325	Social Psychology of Family Life	3
SPPA 210	Survey of Speech Pathology and Audiology	3
or		
SPPA 299	Normal Language Development	3

MINOR IN EDUCATION

A student minoring in education must complete 30 quarter hours in professional education courses:

Electives (3 must be upper division)	30
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Approval of education adviser required.

MINOR IN PSYCHOLOGY

A student minoring in psychology must complete 28 quarter hours:

PSYC 130	General Psychology	4
PSYC 225	Psychological Experiments	2
PSYC 230	Systems and Theories in Psychology	4
	Electives (3 must be upper division)	18

Approval of psychology adviser required.

EDUCATION (EDUC)

EDUC 105 INTRODUCTION TO TEACHING

Orientation to the role of the school, an analysis of professional preparation for teaching, and opportunity for self-evaluation as potential teacher is provided.

EDUC 110 PRINCIPLES AND CONCEPTS OF CHRISTIAN EDUCATION

A study of the ideals and principles of Christian education, especially as interpreted by the Seventh-day Adventist Church.

EDUC 210 FOUNDATIONS OF EDUCATION

A study of social and philosophical foundations underlying the current organization and objectives of American education.

EDUC 247/248 SCHOOL EXPLORATORY EXPERIENCE

— ELEMENTARY / SECONDARY

Opportunity to participate in professionally structured experiences prepared for elementary or secondary school faculties prior to the opening activities in the organizational period of the school year. Time involved: two to three weeks. (With permission, this may be applied toward the fourteen-hour directed teaching requirement.) Students taking elementary will register for EDUC 247; students taking secondary will register for EDUC 248. (S/NC only)

EDUC 251 LABORATORY EXPERIENCES IN PRESCHOOL EDUCATION

2, 4; 12

Observation and participation in various early childhood education centers. The first two quarters will be spent in the Walla Walla College Child Development Center. Two of the remaining four quarters scheduled in other early childhood education centers in the community. Open only to majors. Two or four hours each quarter; maximum, 12.

EDUC 266/267 TUTORING — ELEMENTARY/SECONDARY

1;3

Supervised teaching experience on a one-to-one or small-group basis providing opportunity to develop and demonstrate teaching competence and selection of appropriate teaching strategies in an elementary or secondary school classroom. Students taking elementary will register for EDUC 266; students taking secondary will register for EDUC 267. (S/NC only)

EDUCATION AND PSYCHOLOGY

EDUC 295 EARLY CHILDHOOD EDUCATION	3
An introduction to the principles of early childhood education focusing on procedures, media, curriculum design and materials. Laboratory experiences are provided in the Child Development Center.	
ART 301 ART IN THE ELEMENTARY SCHOOL	3
See Art section of this bulletin.	
MUED 344 ELEMENTARY SCHOOL MUSIC LITERATURE	2
See Music section of this bulletin.	
EDUC 351 PARENT EDUCATION FOR PRESCHOOL TEACHERS	3
Identifies the teacher's role in parent education, develops skills in how to establish rapport with parents, and includes working with parents in small groups.	
EDUC 361 LANGUAGE ARTS IN THE ELEMENTARY SCHOOL	3
A study of issues currently important in language arts education, with emphasis on research and its practical implications for teaching, functions and programs of the language arts in the elementary school curriculum.	
EDUC 362 READING IN THE ELEMENTARY SCHOOL	4
A basic course stressing current theory, effective instructional procedures, learning resources and field experience for teachers of reading in the primary and intermediate grades of the elementary school.	
EDUC 365 SOCIAL STUDIES AND RELIGION IN THE ELEMENTARY SCHOOL	4
Examination and application of current media and practices used in teaching social sciences and religion in the elementary school. Actual classroom observation and teaching will be required.	
EDUC 369 SCIENCE AND HEALTH IN THE ELEMENTARY SCHOOL	3
Procedures of teaching science and health in the elementary school with attention to recent media and trends. Classroom experience provided.	
EDUC 373 MATHEMATICS IN THE ELEMENTARY SCHOOL	3
Survey of the content, media and processes used in teaching mathematics in the elementary school; emphasis on newer approaches.	
ENGL 374 LITERATURE IN THE ELEMENTARY SCHOOL	3
See the English section of this bulletin.	
LIBR 374 LIBRARY MATERIALS FOR CHILDREN	3
See the Library Science section of this bulletin.	
ENGL 375 LITERATURE IN THE SECONDARY SCHOOL	3
See the English section of this bulletin.	
EDUC 375 CLASSROOM MANAGEMENT	2
Attention will be given to varied structuring of the learning environment and the special considerations required in small schools and multigrade classrooms. Explores the human relations within the teaching profession.	
EDUC 390 EDUCATIONAL EVALUATION	3
A practical introduction to principles and techniques of evaluating classroom activities in elementary and secondary schools.	
EDUC 404 HISTORY OF EDUCATION	2
A survey of the history of education.	
EDUC 426 PRINCIPLES AND PROCEDURES OF GUIDANCE	3
The philosophy, functions, organization and evaluation of guidance programs.	
INDS 428 HANDWORK ACTIVITIES IN THE ELEMENTARY SCHOOL	3
See the Industrial Technology section of this bulletin.	
SOCI 444 SOCIOLOGY OF EDUCATION	3
See the Sociology and Social work section of this bulletin.	

EDUCATION AND PSYCHOLOGY

EDUC 452 DIRECTED TEACHING—In-Service	6
Directed laboratory experience for a teacher desiring to improve his professional skills. Training in methods of analysis of teaching and practice in methods of self-analysis will be included. Registration only by permission of the Student Teaching Committee after completion of the required courses in professional education.	
EDUC 461 METHODS OF AUDIOVISUAL EDUCATION	2
A survey of the methods of instruction through the use of audiovisual aids.	
EDUC 462 INSTRUCTIONAL AIDS—PRODUCTION	2
Experiences in the production of instructional aids.	
EDUC 471 GENERAL SECONDARY METHODS	2
A study of the role of the secondary teacher in the classroom, school and community. Topics examined include methods of instruction, planning, ethics, legal aspects, professional growth and general principles for success in the role of a secondary teacher. Prerequisite: PSYC 220. Prerequisite or corequisite: EDUC 267.	
<i>Secondary methods courses are listed under respective departments as course number 472 with the appropriate prefix. Consult the appropriate department for details.</i>	
PETH 473 PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL	3
See the Health, Physical and Recreational Education section of this bulletin.	
EDUC 475 TEACHING READING SKILLS IN CONTENT AREAS	3
Diagnosis, vocabulary, comprehension skills, rate variation, management and study skills in junior high and secondary reading.	
EDUC 478/479 MICROTEACHING—Elementary/Secondary	2
Students taking elementary will register for EDUC 478; students taking secondary will register for EDUC 479.	
<i>Elementary: A teaching laboratory to prepare elementary teachers in skills necessary to effective teaching. Students present brief demonstration lessons to a small class of children. Self-evaluation is supplemented by evaluation of supervisors, practicing teachers and peers, along with video recordings. Prerequisite: at least two methods courses.</i>	
<i>Secondary: Teaching procedures which are applicable at any level are considered. Laboratory practice in certain teaching skills will be provided following the microteaching model. The class will meet one night each week and each student will participate weekly in an afternoon teaching laboratory. Prerequisite: one methods course in the student's major or minor area of study.</i>	
EDUC 480/481 DIRECTED TEACHING—Elementary/Secondary	14
Application for the autumn quarter is to be made during the preceding spring quarter; application for the winter and spring quarters should be made during the first week of the autumn quarter. By permission of the Student Teaching Committee.	
Students taking elementary will register for EDUC 480; students taking secondary will register for EDUC 481.	
<i>Elementary: A practicum providing professional teaching experience for students preparing to teach on the elementary level. Prerequisite: EDUC 478.</i>	
<i>Secondary: Professional laboratory experience for students preparing to teach at the secondary level. A seminar will be conducted for students teaching in the Walla Walla area. Prerequisite: EDUC 479. (S/NC only)</i>	
EDUC 492 EDUCATION OF THE GIFTED	3
Emphasis is placed upon the design of learning opportunities for gifted children in the light of psychological characteristics of such children.	
EDUC 493 SYSTEMS OF THOUGHT	3
An intensive study of various aspects of philosophical thinking and their bearing upon education. Especially valuable in comprehending much current writing in education.	

EDUCATION AND PSYCHOLOGY

EDUC 495 ELEMENTARY SCHOOL GUIDANCE	3
A study of the rationale for elementary school guidance with emphasis upon current research and issues. Attention will be focused upon the tools and techniques of both classroom and out-of-class guidance functions and services.	
EDUC 500 GRADUATE SEMINAR	1; 3
Discussion periods in which faculty and students explore significant issues through the examination and analysis of research and appropriate literature in the area of education. One quarter hour; maximum, three.	
EDUC 504 ELEMENTARY SCHOOL CURRICULUM	3
A study of the elementary school curriculum, including objectives, essentials of a good program, varying curriculum patterns and appraisal of current practices.	
EDUC 508 SECONDARY SCHOOL CURRICULUM	3
Overview of the secondary school curriculum, with emphasis on the various subject fields; organization of the school for curriculum development; educational objectives; the courses of study; evaluation of the secondary school curriculum.	
EDUC 522 PHILOSOPHY OF EDUCATION	3
A study of the basic philosophies and development of educational thinking resulting in the formulation of aims and objectives of education for today's schools. Ideally should be preceded by or taken concurrently with EDUC 493.	
EDUC 525 EDUCATION IN THE TWENTIETH CENTURY	3
Intended to help a student become conversant with significant problems, issues, trends and proposals affecting the theory and practice of education today.	
EDUC 526 SCHOOL FINANCE	3
A course designed for administrators, emphasizing origins and disbursement of school funds.	
EDUC 527 SCHOOL PLANT PLANNING AND CONSTRUCTION	3
A survey of how to plan and build schools, including the involvement of the lay citizen. Selection of site, trends in design, function of buildings and plant, costs and obligations will be studied.	
EDUC 535 CORRECTIVE READING	3
An advanced course where analysis, correction and prevention of reading problems are studied along with refinement of group and informal testing. Supervised practicum with pupils having mild disabilities in reading. For all grade levels.	
EDUC 539 SUPERVISION	3
For principals, classroom teachers or those planning to be supervisors. Identifies duties of both teacher and supervisors, and suggests methods for the improvement of teachers in service through a comprehensive supervision program.	
EDUC 544 ADMINISTRATION OF THE ELEMENTARY SCHOOL	3
Organization, supervision and administration of elementary schools.	
EDUC 550 SCHOOL LAW	3
This course is designed to acquaint the student with the legal basis for public and parochial school operation in the United States.	
EDUC 551 ADMINISTRATION OF THE SECONDARY SCHOOL	3
Problems and procedures in the organization and administration of secondary schools.	
EDUC 556 CURRICULUM PLANNING	3
The relation of curricular materials to educational outcomes in terms of personal and social values. A brief review of curriculum investigations and their significance in the selection and evaluation of school materials and activities. Current practices in curriculum revision.	
EDUC 558 SCHOOL ACTIVITIES	3
Designed to acquaint the student with the range of the school activities program; to define the purpose of such activities; to provide him with the valid basis for evaluating existing or proposed activities; and to provide opportunity for intensive study of one activity.	

EDUCATION AND PSYCHOLOGY

EDUC 560 ADMINISTRATIVE PRACTICUM	5
Professional laboratory experience for candidates for an administrative credential. The course is designed to involve each candidate in a variety of practical administrative experiences and to assist in his successful induction into school leadership. By permission of the department chairman.	
EDUC 561 METHODS OF RESEARCH	3
Procedures in the selection and evaluation of research projects and techniques in the analysis of research data.	
EDUC 567 COMPARATIVE EDUCATION	3
A comparison of systems and philosophies of education in various parts of the world; emphasis on the role of cultural impacts.	
EDUC 575 READINGS IN EDUCATION	2-4
Advanced study confined to topic areas where the student can demonstrate a considerable degree of expertise due to previous formal studies and/or experience. To be done under the guidance and direction of a faculty member. The student will engage in an analysis of current literature. Written and/or oral reports will be required. By permission of the department chairman.	
EDUC 581 PROFESSIONAL PROJECT	2, 4, 6; 6
Selected areas of advanced study involving reading and research. Formal report required. Prerequisite: consent of department chairman and graduate standing. Two, four or six hours any quarter; maximum, six.	
EDUC 590 THESIS	4, 8; 8

PSYCHOLOGY (PSYC)

PSYC 130 is prerequisite to all other courses in psychology.

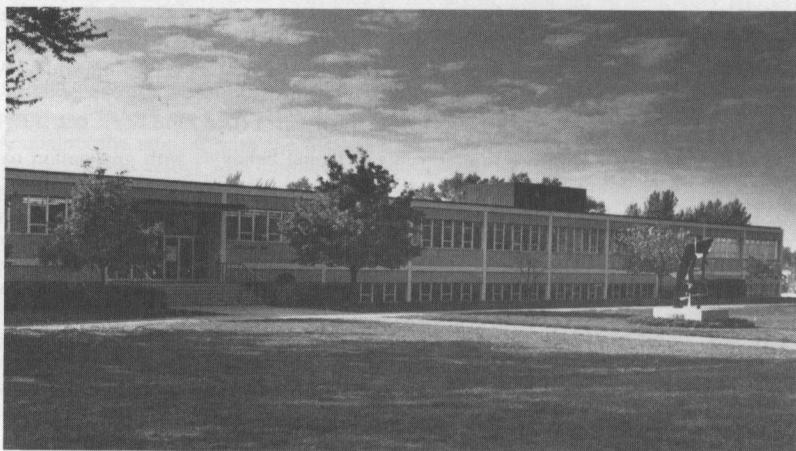
PSYC 130 GENERAL PSYCHOLOGY	4
An eclectic survey of the major areas of psychology emphasizing the scientific bases of psychological investigation. Designed to acquaint the student with the fundamental vocabulary, methodologies, established facts and sound principles of psychology as a prerequisite to advanced courses.	
PSYC 220 EDUCATIONAL PSYCHOLOGY	4
Application of psychological principles to the art of teaching. A laboratory will be included. Washington State health clearance required.	
PSYC 225 PSYCHOLOGICAL EXPERIMENTS	2
A laboratory course providing undergraduate students with elementary experience in designing and conducting experimental research in the field of psychology.	
PSYC 230 SYSTEMS AND THEORIES IN PSYCHOLOGY	4
Acquaints the student with the historical development of the various systems and theories in psychology with emphasis on learning theory.	
PSYC 350 ELEMENTARY STATISTICS	4
Fundamental procedures for summarizing and interpreting quantitative data from tests and research in the social sciences.	
PSYC 360 SMALL GROUP PROCEDURES	3
A study of small group process by the use of simulations, confrontation techniques and role playing. Especially useful for teachers, ministers, nurses and social workers.	
PSYC 375 EXPERIMENTAL PROBLEMS	3
An advanced course which enables the student to develop skills in experimental design and to apply such skills to an individual research project. Prerequisite: PSYC 350 or equivalent.	

EDUCATION AND PSYCHOLOGY

PSYC 405 PSYCHOLOGY OF ORGANIZATIONAL CHANGE	3
An exploration of the characteristics of social organizations, their structure and systems of communication with particular emphasis on the problems of bringing about change within social organizations i.e., churches, communities, schools, businesses, etc.	
PSYC 410 BEHAVIOR MODIFICATION	3
A study of the principles and processes of learning with special emphasis on the shaping and changing of human behavior.	
PSYC 415 DYNAMICS OF BEHAVIOR	3
An introduction to the dynamic mechanisms of human adjustment and behavior.	
PSYC 420 INTRODUCTION TO CLINICAL PSYCHOLOGY	3
Introduction to the application of psychological theories and techniques as used in the clinical setting. Special attention will be given to a survey of various approaches to treatment of emotional problems in clinical practice, hospital and community settings.	
PSYC 425 PSYCHOLOGY AND RELIGION	3
An examination of psychological concepts and human behavior from a Biblical and theological perspective.	
PSYC 430 PSYCHOLOGICAL TESTING	3
Principles of test selection, administration and interpretation are considered together with the contributions and limitation of the major types of standardized tests and inventories used in the behavioral sciences.	
PSYC 431 PSYCHOLOGY OF EXCEPTIONAL CHILDREN	3
Characteristics and problems of exceptional children with consideration of essential educational adaptation.	
PSYC 435 CHILD PSYCHOLOGY	3
Principles of growth as related to various phases of human development during the preadolescent years: physical, mental and emotional.	
PSYC 436 CHILD PSYCHOLOGY LABORATORY	1
Prerequisite or corequisite: PSYC 435.	
PSYC 437 CHILDHOOD LEARNING DISORDERS	3
An introduction to play therapy and psychoeducational programs with emphasis on perceptual, sensory and motor areas. Designed for teachers and counselors of young children in both early childhood and elementary school levels. Prerequisite: PSYC 435.	
PSYC 440 ADOLESCENT PSYCHOLOGY	3
Principles of growth as related to various phases of human development during the adolescent years—physical, mental and emotional.	
PSYC 442 MOTIVATION	3
A study of basic drives and causes of behavior in organisms with emphasis upon human behavior. This course includes a laboratory.	
PSYC 444 SOCIAL PSYCHOLOGY	3
The dynamics of social interaction and interpersonal behavior with application to contemporary society.	
PSYC 445 SOCIAL PSYCHOLOGY LABORATORY	1
Prerequisite: PSYC 444.	
PSYC 446 PSYCHOLOGY OF PERSONALITY	3
Theories concerning personality development, assessment and adjustment will be considered.	
PSYC 449 MENTAL HEALTH	3
Physiological and psychological factors related to emotional maturity. Individual mental health, classroom climate, patterns of acceptance and rejection.	

EDUCATION AND PSYCHOLOGY

PSYC 464 COUNSELING RELATIONSHIPS	3
A practical introduction to psychological theory and skills essential for developing effective and helping relationships with individuals and groups.	
PSYC 489 VOCATIONAL DEVELOPMENT THEORY	3
Theories of vocational choice and methods of studying occupations and occupational information are considered as they relate to educational and vocational guidance.	
PSYC 490 ABNORMAL PSYCHOLOGY	3
A study of behavioral disturbances, therapeutic measures and theories.	
PSYC 501 STATISTICS IN RESEARCH	3
An introduction to sampling theory, probability and statistical inference as applied to research analysis and hypothesis testing. Includes simple multivariate techniques and selected distribution-free tests of significance. Prerequisite: PSYC 350 or equivalent.	
PSYC 515 COUNSELING THEORIES AND TECHNIQUES	3
A study and application of the theories and techniques for counseling. Professional relationships and ethics are considered.	
PSYC 518 GROUP COUNSELING	2
Theories and techniques of counseling in group situations. Prerequisite: PSYC 515.	
PSYC 521 PSYCHOLOGY OF LEARNING	3
The physiological and psychological bases for functional learning are discussed, and the experimental evidence supporting psychological hypotheses is reviewed.	
PSYC 532 INDIVIDUAL TESTING—Intelligence	4
Supervised experience in the administration, interpretation and writing of psychological reports. Several intelligence instruments will be reviewed. Major emphasis, however, will center on Binet and Wechsler Intelligence Scales. Prerequisite: PSYC 430 and permission of the instructor.	
PSYC 534 ASSESSMENT OF THE INDIVIDUAL	2
Methods applicable to comprehensive assessment for describing behavior. Experience in the collection and analysis of data will be provided. Prerequisite: PSYC 532.	
PSYC 563 FIELD EXPERIENCE	3
Designed to provide a broad spectrum of experience in actual field settings under supervised direction. Permission of the instructor required.	
PSYC 565 PRACTICUM IN COUNSELING	2; 6
Professional experience in the counseling function.	



ENGINEERING

C. Bell, Dean; F. Bennett, J. Cole, L. Gienger, R. Heisler, G. Masden, O. McNeil, R. Noel, R. Sutton, D. Wallace, R. Wood.

Engineering is the profession in which the principles of mathematics, science, economics, ethics and humanistic-social relationships are applied with judgment to utilize the materials and forces of nature for the benefit of mankind. The fundamental objective of the School of Engineering is to provide its students with an engineering education of the highest possible caliber that will qualify them to enter directly the professional practice of engineering, advanced studies in engineering or other professional areas. Within its efforts to achieve this objective, the School is inherently dedicated to encouraging its students to develop a commitment to Christian principles of conduct in their personal and professional activities.

Degrees Offered. The School of Engineering offers curricula leading to two distinct degrees. The Bachelor of Science in Engineering (B.S.E.) degree is designed to prepare students to enter professional engineering practice and, also, to provide undergraduate instruction which will serve as an adequate foundation for graduate studies. This curriculum, which includes elective options in civil, electrical and mechanical engineering, is accredited by the Accreditation Board for Engineering and Technology, Inc. (formerly Engineers' Council for Professional Development).

The Bachelor of Science (B.S.) degree with a major in bioengineering is intended primarily for students planning to do advanced studies in medicine, dentistry, public health, physiology or bioengineering. It is not designed for students desiring to enter directly into the practice of professional engineering following their undergraduate study.

Admission Requirements. Requirements for admission to the School of Engineering are 30 semester periods of English, 10 semester periods of science, 30 semester periods of mathematics (beyond general mathematics) and 10 semester periods of history. The mathematics background should include algebra, geometry and trigonometry. Prospective engineering students are encouraged to prepare themselves broadly by taking as many additional courses as possible in high-school mathematics, English, science, social studies and humanities. Studies in foreign languages and the practical arts are also valuable.

Students with entrance deficiencies may be admitted. However, such deficiencies must be removed before the beginning of the sophomore year. Students who present a transcript of previous successful studies at another approved college or university may be admitted with advanced standing.

Admission to engineering studies is normally made only in September. However, students may be accepted in January or March provided that an acceptable program can be scheduled.

Affiliation Program. North American Seventh-day Adventist colleges and universities are affiliated with Walla Walla College under a program which

ENGINEERING

provides the opportunity for students to complete the first one or two years of engineering instruction at any participating institution. After the conclusion of these initial studies, students complete degree requirements at Walla Walla College. Each affiliated campus has an engineering coordinator who has been appointed to provide the necessary guidance to insure a smooth transition from the affiliated campus to Walla Walla College. Details of this program can be obtained from the Dean of the School of Engineering.

ENGINEERING (Bachelor of Science in Engineering)

Engineering students in the professional curriculum will take a group of core courses intended to develop an understanding of basic engineering principles. Thereafter, by choosing appropriate electives in conference with the Dean of the School of Engineering, students may concentrate their efforts in the areas of civil, electrical or mechanical engineering. Flexibility in this program may be obtained by limited substitutions, individually chosen in consultation with an adviser and approved by the school to form an integral professional engineering program. Students wishing to follow specialized careers in fields such as architectural engineering, computer engineering, highway engineering, aeronautical engineering, electronics engineering, nuclear engineering, sanitary engineering or other areas will be prepared to do so through subsequent professional experience or graduate study.

Satisfactory progress is contingent upon attendance for the full year and the maintenance of a 2.00 minimum average grade. Since there is no designated major or minor in the professional engineering curriculum, (B.S.E.), the grade of D in any subject in this program will be accepted for credit toward the degree provided that there are no more than two such in a given quarter, and further provided that the grade-point average for that quarter is not lower than 2.00 when calculated using only courses required for graduation. When these conditions are not met, all required courses for which a grade below C was received must be repeated.

Students enrolled in the professional curriculum must complete a total of 200 quarter hours including the core requirements, the mathematics and science requirements, one option; ENGL 121, 122; 3 quarter hours of PEAC courses; and 33 quarter hours of humanities, religion and social studies electives chosen in consultation with and approved by the academic adviser assigned by the Dean of the School of Engineering.

In the senior year, the following noncourse requirements must be met: Senior Inspection Trip, Graduate Record Examination. Also, at or near the time of graduation, seniors will sit for the State of Washington Engineer-in-Training examination.

Core Requirements:

ENGR 121, 122, 123	Introduction to Engineering	6
ENGR 221	Statics	4
ENGR 222	Dynamics	5
ENGR 224	Circuit Analysis I	4
ENGR 321	Mechanics of Materials	5
ENGR 322	Engineering Materials	5

ENGINEERING

ENGR 324	Instrumentation	3
ENGR 326	Engineering Administration	3
ENGR 331	Fluid Mechanics I	4
ENGR 332	Engineering Thermodynamics I	4
ENGR 431	Electromechanical Energy Conversion	4
ENGR 496, 497, 498	Seminar I, II, III	<u>3</u> <u>50</u>

Mathematics and Science Requirements:

CHEM 141, 142, 143	General Chemistry	12
CPTR 134	Introduction to Computing	3
MATH 181, 281	Analytic Geometry and Calculus I, II	8
MATH 282, 283	Analytic Geometry and Calculus III, IV	8
MATH 289	Linear Algebra and Its Applications	3
MATH 311	Probability and Statistics	4
MATH 312	Ordinary Differential Equations	4
PHYS 251, 252, 253	Principles of Physics	9
PHYS 254, 255, 256	Principles of Physics Laboratory	3
*PHYS 311	Modern Physics	3
*PHYS 314	Modern Physics Laboratory	<u>1</u> <u>58</u>

*Students choosing the civil engineering option may substitute a BIOL or CHEM elective with approval of the Dean of the School of Engineering.

Option: Civil Engineering

ENGR 341	Geology and Soil Mechanics	3
ENGR 342	Hydrology and Soil Mechanics	4
ENGR 343	Hydroenvironmental Engineering Analysis	4
ENGR 345	Contracts and Specifications	2
ENGR 346	Surveying	4
ENGR 348	Structural Analysis	5
ENGR 364	Fluid Mechanics Laboratory	1
ENGR 441, 442	Structures I, II	8
ENGR 445, 446	Hydroenvironmental Engineering I, II	8
ENGR 443	Structures III	3
or		
ENGR 447	Hydroenvironmental Engineering III	3
ENGR 449	Transportation Engineering	3
ENGR	Approved Civil Engineering Elective	<u>3</u> <u>48</u>

Option: Electrical Engineering

CPTR 215	Assembly Programming I	3
ENGR 351	Circuit Analysis II	3
ENGR 352	Feedback and Control Systems	4
ENGR 354	Digital Logic Circuits	3
ENGR 356, 357	Engineering Electronics I, II	10
ENGR 451	Electromagnetic Fields I	4

ENGINEERING

ENGR 452	Electromagnetic Fields II	4
or		
ENGR 455	Signals and Systems	
ENGR 456	Energy Conversion Laboratory	1
ENGR 457	Circuit Analysis III	4
ENGR 458	Direct Energy Conversion	4
ENGR	Approved Electrical Engineering Elective	4
MATH 341	Numerical Analysis I	
or		
MATH 423	Introduction to the Theory of Complex Variables	4
		48

Option: Mechanical Engineering

ENGR 333	Engineering Thermodynamics II	4
ENGR 351	Circuit Analysis II	3
ENGR 352	Feedback and Control Systems	4
ENGR 364	Fluid Mechanics Laboratory	1
ENGR 365	Thermodynamics Laboratory	1
ENGR 366	Vibrations	4
ENGR 461, 462, 463	Machine Design	12
ENGR 464	Fluid Mechanics II	4
ENGR 465	Heat Transfer	4
ENGR 466	Mechanical Design	4
ENGR or MATH	Approved electives	7
		48

MAJOR IN BIOENGINEERING (Bachelor of Science)

Students majoring in bioengineering will take courses designed to insure a broad preparation in mathematics, physical and biological sciences and engineering fundamentals. By choosing electives in conference with an approved adviser, students will concentrate their studies in an area consistent with their career goals. Since the bioengineering curriculum is primarily designed to provide a foundation for graduate studies, students whose grade-point averages fall below 3.00 will be encouraged to reevaluate their career objectives.

Students majoring in bioengineering must complete 61-69 quarter hours in the major, the required cognates and the general studies program for the baccalaureate degree as outlined in this bulletin.

Major Requirements:

CPTR 125	Principles of BASIC	2-3
or		
CPTR 134	Introduction to Computing	
ENGR 221	Statics	4
ENGR 222	Dynamics	5
ENGR 224	Circuit Analysis I	4

ENGINEERING

ENGR 324 or BIOL 470	Instrumentation	3-5
ENGR 331	Marine Biophysics	
ENGR 332 or CHEM 351, 352, 353	Fluid Mechanics I	4
ENGR 321	Engineering Thermodynamics I	4-12
	Physical Chemistry	
	Mechanics of Materials	5
	Technical Electives:	
BIOL	12 hours minimum	30-35
ENGR	12 hours minimum	
		61-69

Electives must be chosen in consultation with and approved by the academic adviser assigned by the Dean of the School of Engineering.

Required Cognates:

BIOL 101, 102, 103	General Biology	12
BIOL 495	Colloquium	0
CHEM 141, 142, 143	General Chemistry	12
CHEM 321, 322, 323	Organic Chemistry	12
MATH 181, 281	Analytic Geometry and Calculus I, II	8
MATH 282, 283	Analytic Geometry and Calculus III, IV	8
MATH 311	Probability and Statistics	4
MATH 312	Ordinary Differential Equations	4
PHYS 251, 252, 253	Principles of Physics	9
PHYS 254, 255, 256	Principles of Physics Laboratory	3

COMPUTER SCIENCE (CPTR)

CPTR 124 INTRODUCTION TO BASIC

Designed to introduce the general student to computer programming in the BASIC language. Includes conceptual aspects of programming and applications involving the manipulation of numbers and textual material. Students may not receive credit in both CPTR 124 and CPTR 125. Prerequisite: Elementary concepts of algebra. A or W or S

CPTR 125 PRINCIPLES OF BASIC

An introduction to problem solving using the BASIC language on the computer. Includes problem analysis, algorithm and program development, debugging and documentation. Students may not receive credit in both CPTR 124 and CPTR 125. Prerequisite: MATH 117 or MATH 121 or equivalent. A or S

CPTR 134 INTRODUCTION TO COMPUTING

An introduction to problem solving methods and algorithm development, using primarily the FORTRAN language, including designing, coding, debugging and documenting programs emphasizing good programming style. Prerequisite: MATH 117 or MATH 121 or equivalent.

CPTR 215 ASSEMBLY PROGRAMMING I

An introduction to computer architecture, machine language and an assembly language, using microprocessors. Prerequisite: CPTR 134. W or S

ENGINEERING

ENGINEERING (ENGR)

*ENGR 121, 122, 123 INTRODUCTION TO ENGINEERING	2, 2, 2
Introduction to the design process and elements of professional engineering. Engineering communications, with emphasis upon sketching, conventional engineering drafting practices, pictorial representation; principles of descriptive geometry. Must be taken in sequence. Laboratory work required. AWS	
*ENGR 221 STATICS	4
Two and three dimensional equilibria employing vector algebra; friction; centroids and centers of gravity; moments of inertia. Corequisite: MATH 282. A or W	
*ENGR 222 DYNAMICS	5
One and two dimensional kinetics and kinematics of rigid bodies by vector calculus; dynamics of rotation, translation and plane motion; relative motion; work and energy; impulse and momentum. Prerequisite: ENGR 221. Corequisite: MATH 283. W or S	
*ENGR 224 CIRCUIT ANALYSIS I	4
Circuit variables and parameters; Kirchoff's laws and circuit solution; sinusoidal steady-state; phasors and impedance; frequency characteristics; Thevenin's theorem and maximum power theorem; transients and complete response. Laboratory covers basic measurements using DC and AC meters, potentiometers, recorders and bridges. Prerequisites: MATH 282; PHYS 252. A or S	
*ENGR 321 MECHANICS OF MATERIALS	5
Stresses, deformations and deflections of posts, shafts, beams, columns; combined stresses; elasticity. Laboratory. Prerequisite: ENGR 221. A	
*ENGR 322 ENGINEERING MATERIALS	5
Study of the science of engineering materials, metallic and nonmetallic; uses, properties and their modification and behavior in service environments. Laboratory. Prerequisite: ENGR 321. W	
*ENGR 324 INSTRUMENTATION	3
Theory and application of modern instrumentation. Validation of experimental data. Laboratory. Prerequisite: ENGR 224 or permission of instructor. A	
*ENGR 326 ENGINEERING ADMINISTRATION	3
Business, economic and ethical aspects of engineering practice. Engineering organization and program management techniques. Prerequisite: junior standing in engineering. S	
*ENGR 331 FLUID MECHANICS I	4
An introduction to fluid statics and the dynamics of fluid motion. Conservation of mass, momentum and energy in flowing systems using control volume formulations; dimensional analysis and similitude; inviscid and viscous flow in pipes and open channels. Prerequisites: ENGR 222; CPTR 134; MATH 283; MATH 289. A	
*ENGR 332 ENGINEERING THERMODYNAMICS I	4
An introduction to the nature of energy and further study of energy conservation in closed and flowing systems; properties and state of gases and vapors; enthalpy, entropy and cycle systems. Prerequisites: ENGR 331; PHYS 253. Corequisite: MATH 312. W.	
ENGR 333 ENGINEERING THERMODYNAMICS II	4
Detailed analysis of power and reversed cycle systems; thermodynamics of nonreacting and reacting mixtures; equilibrium; introduction to compressible fluid flow. Prerequisite: ENGR 332. S	
ENGR 341 GEOLOGY AND SOIL MECHANICS	3
Introduction to geological structure, process and weathering; soils properties, classification and interpretation; fundamental principles of stress distribution and deformation, characteristics of soils; subsurface investigation. Laboratory work required. Prerequisite: CHEM 143. Corequisites: ENGR 321; ENGR 331. A	

*Core Requirement

ENGR 342 HYDROLOGY AND SOIL MECHANICS	4
Precipitation; occurrence, measurement and storage of ground and surface waters; statistical models; soils classification; flow of water through soils. Laboratory work required. Prerequisites: CPTR 134; ENGR 341; MATH 311. W	
ENGR 343 HYDROENVIRONMENTAL ENGINEERING ANALYSIS	4
Characteristics of water and wastewater; analysis of physical, chemical and biological treatment processes; equilibrium and dynamic systems. Prerequisites: ENGR 342; ENGR 364; MATH 312. S	
ENGR 344 THE ENVIRONMENT AND MAN	4
Interdisciplinary consideration of current topics involving the interrelations between man and his environment. W	
ENGR 345 CONTRACTS AND SPECIFICATIONS	2
Preparation and interpretation of contracts and specifications; ethical, legal and contractual relations of the professional engineer to the public, the owner and the contractor. Prerequisite: junior standing in engineering. A	
ENGR 346 SURVEYING	4
Use of basic surveying instruments; computational methods for traverses, routes and earthwork, mapping. Prerequisites: CPTR 134; ENGR 123. S	
ENGR 348 STRUCTURAL ANALYSIS	5
Graphical, algebraic and matrical analyses of determinate and indeterminate foundations and structures; basic concepts of soils, interactions with loads and structures; load-stress parameters for beams, girders, columns, trusses, connections and frames. Computation laboratory required. Prerequisites: CPTR 134; ENGR 321; ENGR 322. S	
ENGR 351 CIRCUIT ANALYSIS II	3
Network equations and theorems; Laplace transforms; impulse functions and convolution theorem; system functions and their frequency behavior. Prerequisite: ENGR 224. A	
ENGR 352 FEEDBACK AND CONTROL SYSTEMS	4
An introduction to classical feedback and control analysis and design; signal flow graph; root locus and classical frequency response techniques. Prerequisite: ENGR 351 or permission of instructor. Corequisite: MATH 312. W	
ENGR 354 DIGITAL LOGIC CIRCUITS	3
Introduction to the theory and application of digital logic circuits, logic functions. Logic gates; flip-flops; counters; state machines; modern integrated logic families. S	
ENGR 356 ENGINEERING ELECTRONICS I	5
Characteristics and applications of discrete solid-state electronic devices and circuits; large signal analysis; biasing; small signal analysis; low and high frequency models; feedback amplifiers. Laboratory work required. Prerequisite: ENGR 351. W	
ENGR 357 ENGINEERING ELECTRONICS II	5
Characteristics and applications of integrated electronic circuits; theory and applications of operational amplifiers; analog to digital conversion; digital logic families. Laboratory work required. Prerequisite: ENGR 356. Corequisite: ENGR 354 or permission of instructor. S	
ENGR 364 FLUID MECHANICS LABORATORY	1
Laboratory instruction in fluid mechanics. Incompressible and elementary compressible fluid flow with special application of momentum principles; fluid flow measurements, turbomachinery, and real fluid phenomena in pipeline and open channel flows. Prerequisite: ENGR 331. W	
ENGR 365 THERMODYNAMICS LABORATORY	1
Laboratory instruction in thermodynamic analysis of heat-power systems with special application to static and dynamic measurements of compressible fluid flow, internal combustion engine systems, steam power plants and reversed cycle systems. Applications of current interest in the energy field. Corequisite: ENGR 333. S	

ENGINEERING

ENGR 366 VIBRATIONS	4
Periodic motion; free and forced vibrations of single-degree-of-freedom systems, damping, transient response; multidegree-of-freedom systems, discrete and continuous systems. Prerequisites: ENGR 222; ENGR 351 or permission of instructor; CPTR 134; MATH 289; MATH 312. S	
*ENGR 431 ELECTROMECHANICAL ENERGY CONVERSION	4
Electromechanical energy conversion principles and applications to electrical machinery; transformers, three-phase systems, DC machines, induction motors, synchronous machines, single-phase motors; emphasis on performance, control and applications. Laboratory. Prerequisite: ENGR 224. W	
ENGR 441, 442 STRUCTURES I, II	4, 4
Timber, basic concrete, reinforced concrete and steel, elastic design concepts for determinate and indeterminate structures; industrial and multistory buildings, bridges, rigid frames and arches. Computation laboratory required. Prerequisite: ENGR 348. AW	
ENGR 443 STRUCTURES III	3
Elastic designs of timber, concrete and steel determinate and indeterminate structures; applications to foundation and soils problems; general and matrix analyses; total building layout and design problems. Computation laboratory required. This course satisfies the civil engineering elective requirement. Prerequisite: ENGR 442. S	
ENGR 445 HYDROENVIRONMENTAL ENGINEERING I	4
Analysis and design of water distribution systems, sewage and stormwater collection systems. Prerequisites: CPTR 134; ENGR 343. A	
ENGR 446 HYDROENVIRONMENTAL ENGINEERING II	4
Design of physical, chemical and biological treatment processes for water and wastewater treatment. Laboratory work required. Prerequisites: CHEM 143; ENGR 445. W	
ENGR 447 HYDROENVIRONMENTAL ENGINEERING III	3
Analysis of surface waters receiving wastewater effluents. Laboratory work required. This course satisfies the civil engineering elective requirement. Prerequisite: ENGR 446. S	
ENGR 449 TRANSPORTATION ENGINEERING	3
Use of soils and construction materials in the design of highways, waterways, airway terminals and railways; introduction to traffic engineering. Prerequisites: ENGR 342; ENGR 442; ENGR 445. S	
ENGR 451, 452 ELECTROMAGNETIC FIELDS I, II	4
A study, by vector calculus, of static and dynamic electric and magnetic fields. Free space and bounded fields; material properties; energy and potential; Maxwell's equations; plane wave propagation with boundaries; energy propagation along transmission lines and wave-guides; dipole radiation. Must be taken in sequence. Laboratory work required in ENGR 452. Prerequisites: MATH 312; PHYS 253. AW	
ENGR 455 SIGNALS AND SYSTEMS	4
Introduction to continuous and discrete signal and system analysis; Fourier series; convolution; Fourier transforms; discrete Fourier transforms. Prerequisites: ENGR 351; MATH 312. A	
ENGR 456 ENERGY CONVERSION LABORATORY	1
Topics in electromechanical energy conversion emphasizing laboratory investigation. Synchronous machinery, systems, control and performance. Prerequisite: ENGR 431. S	
ENGR 457 CIRCUIT ANALYSIS III	4
Analysis and design of linear active networks. Active analog filters and topics in digital filtering. Prerequisites: ENGR 351; ENGR 354; ENGR 356. S	

*Core Requirement

ENGR 458 DIRECT ENERGY CONVERSION

4

Direct modes of energy conversion; thermoelectrics, thermionics, photovoltaics, fuel cells and magnetohydrodynamics. Fundamental principles are covered and a survey is made of problems and state-of-the-art in these areas. Prerequisites: ENGR 224; ENGR 331. S

ENGR 461, 462, 463 MACHINE DESIGN

4, 4, 4

Practical application of kinematics, materials, mechanics and mechanical processes to the design of machines and machine elements, with due regard to the selection of materials, construction, lubrication, safety and cost. Calculations, layouts and detail drawings as required. Must be taken in sequence. Prerequisites: ENGR 322; ENGR 366 or permission of instructor. AWS

ENGR 464 FLUID MECHANICS II

4

Introduction to the general vector-tensor differential equations of motion for multi-component laminar and turbulent flows of homogeneous Newtonian fluids; treatment of transport properties and processes such as species and thermal diffusion and convection. Specializations to one and two dimensional gas dynamics and compressible and incompressible boundary layers. Prerequisites: ENGR 332; MATH 312; ENGR 333 or permission of instructor. A.

ENGR 465 HEAT TRANSFER

4

Single and multidimensional steady-state and transient heat conduction; thermal radiation involving black and gray bodies and gas-filled enclosures; solar radiation; free and forced convection through ducts and over exterior surfaces; heat exchangers; combined heat transfer problems. Prerequisites: ENGR 332; MATH 312; ENGR 464 or permission of instructor. W

ENGR 466 MECHANICAL DESIGN

4

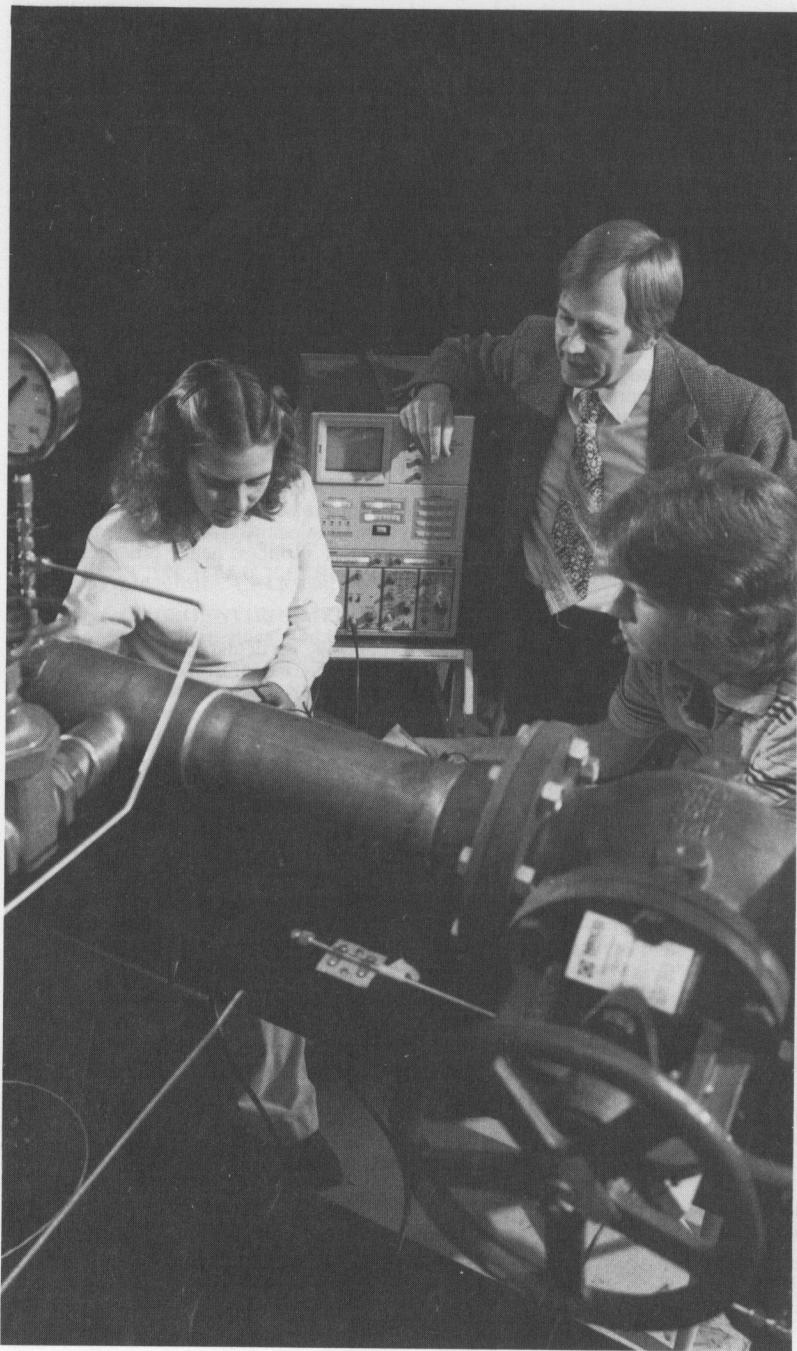
Studies in design of mechanical systems and controls, particularly related to buildings and power generation. Prerequisites: ENGR 333; ENGR 364; ENGR 365; ENGR 465. S

***ENGR 496, 497, 498 SEMINAR I, II, III**

1, 1, 1

Presentation and discussion of current topics of interest within professional engineering. Each student is required to conduct an approved engineering design project from conception to final oral and written reports. Prerequisite: senior standing in engineering. AWS

*Core Requirement



ENGLISH

G. Wiss, Chairman; B. Beem, R. Emmerson, J. Glenn, D. Hepker, S. Nosworthy, C. Stevens.

The English faculty seek to address the different needs and interests of their students by distinguishing between the relatively broad purposes of general education courses and the more narrowly academic and professional purposes of courses taught for the English major or minor. Building upon the student's secondary school background, general education courses in writing are intended to develop the competence in effective writing essential to success both in college studies generally and in postcollege careers. General education courses in literature are intended to foster the habit of reading with critical understanding and discrimination from a variety of literary forms and traditions and to provide an introduction to literature as an art which addresses significant and enduring issues.

Students choosing a major or minor in English will find much flexibility in structuring a curriculum. In consultation with their advisers, they can select a pattern of courses in literature, language and writing which will prepare them for teaching, for entry into such schools as those of law, medicine and librarianship, for writing professionally, or for entering a variety of vocations for which the major in English provides a strong cultural and practical background.

MAJOR IN ENGLISH (Bachelor of Arts)

A student majoring in English must complete 47 quarter hours in the major, the required cognates and the general studies program for the baccalaureate degree as outlined in this bulletin.

Major Requirements:

ENGL 234	Literary Analysis and Research	4
ENGL 324	Advanced Expository Writing	
or		
ENGL 334, 335, or 336	Creative Writing	
ENGL 344 to 356	English Literature (choose three courses)	12
ENGL 364 to 366	American Literature (choose one course)	4
ENGL 384	English Grammars and Linguistics	
or		
ENGL 484	History of the English Language	
ENGL 444	Major Author (choose period not covered in ENGL 344 to ENGL 366)	3-4
or		
ENGL 445	Shakespeare	3
ENGL 454 to 466	Genre or Special Area	3
ENGL 496	Seminar	3
	Electives	11-12
		47

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.

ENGLISH

Required Cognates:

HIST 374, 375	History of England Modern Language: Intro/Elem	8 12
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Teacher Certification:

Students wishing teacher certification must take the following in addition to the requirements listed above:

ENGL 374 or ENGL 375	Literature in the Elementary School Literature in the Secondary School	3
ENGL 384	English Grammars and Linguistics	4
ENGL 472	Methods of Teaching High School English	4

MINOR IN ENGLISH

A student minoring in English must complete 30 quarter hours, 12 must be upper division:

ENGL 234	Literary Analysis and Research	4
ENGL 324 to 336	Writing (choose one course)	3
ENGL 344 to 356	English Literature (choose one course)	4
ENGL 364 to 366	American Literature (choose one course)	4
	Electives (8 may be General Studies literature)	15

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman. 30

GENERAL STUDIES WRITING (ENGL)

The following courses do not apply toward an English major or minor.

ENGL 100 BASIC COMMUNICATION SKILLS

4

A course designed to prepare students for College Writing 121 by providing basic grammar, usage and punctuation review as well as writing practice. Required of students who do not place in College Writing 121, 131, or 141. Corequisite: RDNG 100.

ENGL 101, 102 TECHNICAL AND BUSINESS WRITING

4, 4

Study and practice in the basic skills necessary for associate degree programs. In the first quarter, basic grammar, mechanics, business letters and informal technical reports; in the second quarter, formal, technical and business reports. Completion of ENGL 102 is equivalent to ENGL 121.

ENGL 111, 112 ENGLISH AS A SECOND LANGUAGE

3, 3

Study and practice of English in its written form, designed for students whose native language is not English. In the first quarter, intensive grammar review; in the second quarter, the basic modes of expository writing and argument with further emphasis on grammar. The student who reaches an adequate performance level in ENGL 112 may be granted permission by the department to enter ENGL 122. Language laboratory may be required.

ENGL 121, 122 COLLEGE WRITING

4, 4

Study and practice in the basic skills necessary for all college writing. In the first quarter, the basic modes of expository writing, applied expository techniques, analysis and argument; in the second quarter, research techniques and writing with emphasis on the research paper. Prerequisite: satisfactory scores on placement tests.

ENGL 124 DIRECTED WRITING I

1-2

A course designed to improve writing skills through a program adapted to the student's individual needs. Limited enrollment; admission by departmental approval.

ENGLISH

ENGL 131, 132 COLLEGE WRITING (ADVANCED) 4, 4
An advanced course designed for students who demonstrate superior ability in composition. Extensive reading and writing are required. Admission: Superior scores on placement tests.

ENGL 141, 142 COLLEGE WRITING (HONORS) 4, 4
See the honors program listed under the Interdisciplinary section of this bulletin.

GENERAL STUDIES LITERATURE (ENGL)

The following courses do not apply toward an English major.

ENGL 204 INTRODUCTION TO LITERATURE 4
An introduction to the art of reading and studying literature, emphasizing the methods of analyzing poetry, stories and drama.

ENGL 205 MASTERPIECES OF AMERICAN LITERATURE 4
A study of literary masterpieces selected from representative American authors.

ENGL 206 MASTERPIECES OF ENGLISH LITERATURE 4
A study of selected English literary masterpieces of poetry, prose and drama.

ENGL 207 MASTERPIECES OF WORLD LITERATURE 4
A study of selected literary masterpieces from classical times to the present, emphasizing the literature of the Western world.

ENGL 208 AFRO-AMERICAN LITERATURE 4
A study of selected literary works of Black Americans from the colonial period to the present.

ENGL 209 RELIGIOUS LITERATURE 4
A study of the works of major Christian writers.

ENGL 214 THEMES IN LITERATURE 4
A study of selected works that develop a particular literary theme. Specific themes to be studied vary from quarter to quarter; see *Class Schedule*.

ENGL 215 LITERATURE AND FILM 4
An introduction to the basic techniques of film expression leading to a comparative study of works of literature and their film versions; intended to broaden the student's critical appreciation of literature and to encourage responsible, mature criteria for judging film literature.

ENGL 311, 312, 313 WESTERN THOUGHT II (HONORS) 4, 4, 4
See the honors program listed under the Interdisciplinary section of this bulletin.

WRITING (ENGL)

ENGL 101, 102; 121, 122; 131, 132; or 141, 142 are prerequisites to all other writing courses.

ENGL 224 RESEARCH WRITING IN RELIGION (or RELP 224) 3
A course designed to develop skills in research and writing in the area of religion. Instruction in the use of library materials and in the effective planning and writing of upper-division research papers. This course is prerequisite to all upper-division theology seminars.

ENGL 234 LITERARY ANALYSIS AND RESEARCH 4
An introduction to bibliography and research in literature, emphasizing critical approaches to literature, analyses of major genres and the preparation of critical essays.

ENGL 324 ADVANCED EXPOSITORY WRITING 3
Techniques of writing expository prose that is clear, effective and beautiful, with emphasis on revision and intensive practice in developing and refining a variety of sentence patterns. Designed to aid students to write essays, theses and seminar papers.

ENGLISH

ENGL 325 ADVANCED TECHNICAL WRITING

3

Techniques of researching, organizing and writing technical proposals and reports. Designed to aid students in writing papers in their major fields and in their professional careers. Will not apply on English major.

ENGL 334, 335, 336 CREATIVE WRITING

3, 3, 3

Techniques of writing in several creative forms, with analysis and discussion of student work. Designed to develop a critical appreciation of the art of writing. Poetry (334), Narrative (335), Drama (336).

ENGL 338 DIRECTED WRITING II

1-3

Refinement of writing skills through a program adapted to the student's personal interests. Limited enrollment; admission by departmental approval.

LITERATURE AND LANGUAGE (ENGL)

Unless otherwise stated, ENGL 234 or permission of instructor is prerequisite to all upper-division literature courses.

ENGL 344 MEDIEVAL LITERATURE

4

A study of English literature from its origins to about 1500. Literature in Old and Middle English to be read in translation; Chaucer's works to be read in the original Middle English.

ENGL 345 RENAISSANCE LITERATURE

4

A study of the major authors and literary movements of the English Renaissance.

ENGL 346 RESTORATION AND NEOCLASSIC LITERATURE

4

A study of selected works of important seventeenth- and eighteenth-century English authors, including Dryden, Swift, Pope and Johnson.

ENGL 354 ROMANTIC ENGLISH LITERATURE

4

A study of major romantic English authors, including Wordsworth, Coleridge, Byron, Shelley and Keats.

ENGL 355 VICTORIAN LITERATURE

4

A study of nineteenth-century English authors, including Tennyson, Browning and Arnold.

ENGL 356 TWENTIETH-CENTURY ENGLISH LITERATURE

4

A study of English literature since 1900; significant works studied in relation to intellectual and historical developments.

ENGL 364 ROMANTIC AMERICAN LITERATURE

4

A study of major romantic American authors, including Emerson, Thoreau, Hawthorne and Melville.

ENGL 365 AMERICAN REALISM AND NATURALISM

4

A study of major American authors who typify nineteenth-century realism and naturalism.

ENGL 366 TWENTIETH-CENTURY AMERICAN LITERATURE

4

A study of American literature since 1900; significant works studied in relation to intellectual and historical developments.

ENGL 384 ENGLISH GRAMMARS AND LINGUISTICS

4

A course taught especially for prospective teachers of English, with emphasis on traditional and transformational grammars.

ENGL 394 DIRECTED READING

1-3

A course designed for upper-division students who wish to continue broadening their knowledge of literature by extensive reading; admission only by departmental approval. Prerequisite: General studies literature or ENGL 234.

ENGLISH

ENGL 444 MAJOR AUTHOR 3
An advanced study of the work of a major author or group of authors of English, American and world literature. Specific authors to be studied vary from quarter to quarter.

ENGL 445 SHAKESPEARE 3
An advanced study of selected plays and poems of Shakespeare.

ENGL 454 LITERATURE OF THE BIBLE 4
A study of Biblical poetry and prose from a literary perspective. Prerequisite: General studies literature or ENGL 234.

ENGL 455 CLASSICAL BACKGROUNDS 3
An introduction to classical legend and thought as developed in major Greek, Roman and medieval literary works. Intended as background for the study of Renaissance and modern literature and art. Prerequisite: general studies literature or ART 324, 325, 326.

ENGL 464 DEVELOPMENT OF ENGLISH DRAMA 3
A survey of the development of English drama from the medieval mystery plays to the twentieth century.

ENGL 465 DEVELOPMENT OF THE ENGLISH NOVEL 3
A survey of major English novels, primarily of the eighteenth and nineteenth centuries. Authors represented generally include Fielding, Austen, the Brontes, Dickens, Eliot, Hardy and Conrad.

ENGL 466 PHILOSOPHICAL AND CRITICAL PROSE 3
A study of such major prose authors as Johnson, Carlyle, Mill, Arnold, Newman and Eliot, emphasizing ideas on society, culture and the creation and uses of literature.

ENGL 484 HISTORY OF THE ENGLISH LANGUAGE 3
A study of the historical development of the English language from its Indo-European origins to Modern English. Intended to provide a broad, comprehensive understanding of present-day English.

ENGL 496 SEMINAR 3
An integrating course required of English majors in the senior year. The study includes practice in bibliography and research methods, problems in areas of special interest to class members, group conferences and reports.

ENGL 501 INDEPENDENT STUDY IN ENGLISH 1
A course designed to allow in-depth study of a problem of limited scope in the field of English. Prerequisite: undergraduate major in English or permission of the department chairman.

ENGL 506 LITERARY CRITICISM 3
A survey of the theories of literary criticism with emphasis on their application to typical literatures of the different genres. Prerequisite: undergraduate major in English or permission of the department chairman.

ENGLISH EDUCATION (ENGL)

The following courses do not apply toward an English major or minor.

ENGL 276 TEACHING ENGLISH AS A FOREIGN LANGUAGE 2
Specialized approaches and materials useful for teaching oral and written English to speakers of other languages. Prerequisite: ENGL 101, 102 or ENGL 121, 122, or ENGL 131, 132, or ENGL 141, 142.

ENGL 374 LITERATURE IN THE ELEMENTARY SCHOOL 3
The philosophy of the selection and study of literature on the elementary school level, emphasizing appropriate content, good style and suitability for various age groups. Extensive reading and sharing of children's literature are required. Credit will not be allowed for both ENGL 374 and LIBR 374.

ENGLISH

ENGL 375 LITERATURE IN THE SECONDARY SCHOOL

3

The philosophy of the selection and study of literature on the secondary level, emphasizing choosing literature related to student problems and goals as well as literature appreciation. Extensive reading of literature for adolescents is required.

ENGL 472 METHODS OF TEACHING HIGH SCHOOL ENGLISH

4

A study of objectives for and methods of teaching grammar, composition and literature in grades seven through twelve. Students prepare and present lessons, evaluate student-written themes, and collect and organize a file of teaching materials. Prerequisites: ENGL 375; ENGL 384.



HEALTH, PHYSICAL AND RECREATIONAL EDUCATION

N. Thomas, Chairman; G. Hamburg, D. Lovejoy, D. Munroe, W. Napier, G. Schneider, J. Turner, J. Waterbrook.

Walla Walla College is one of the church's pioneers in the field of health, physical education and recreation. This department graduated the first professional student in 1949 and has made a tremendous contribution to the church and community in terms of teachers, researchers, youth leaders, health educators and workers for God.

The liberally educated person must understand and appreciate the importance of health as it relates to the physical, mental and spiritual. Whether it be in the development of fitness, the understanding of a proper diet, the opportunity of understanding oneself, the skill learned for later life or the lessons involving group interaction, the center of the program is found within the Christian context of service for others.

Candidates for the health, physical education and recreation program at Walla Walla College must demonstrate acceptable physical qualities, intellectual ability, and more importantly, positive Christian character and personality traits. These programs seek to develop the quality of human leadership and professional skills which will foster in the individual a desire to serve others in their professional growth.

The health program attempts to provide students with the training necessary to work in overseas missions, innercity work, public health work and teaching. It also provides the background necessary for further study in a Master of Public Health program. The program is designed to give students several options.

The purpose of the physical education program is to provide a total program which will develop a physical life style harmonious with the "whole-man concept" of healthful living, intramural and recreational opportunities for students, and preparation of health, physical and recreational education leaders for the church and the community. The professional preparation curriculum contains three concentrations: certification in elementary physical education, certification in secondary physical education and preparation for graduate research in biomechanical or physiological basis of physical education.

The recreation curriculum is designed to meet the needs of students who wish to develop professional competency in the service of the church, school and community. Professionally prepared Christian leadership is needed now due to the social unrest and increased amount of leisure in the rapidly changing social lifestyle. Within the innercity, the community and the church there are opportunities for well-qualified, committed recreation educators.

The department draws upon various other departments and schools within the college for courses to balance and enrich its offerings for the recreation curriculum. Students may select programs from community recreation, correctional recreation, outdoor education, therapeutic recreation and youth leadership.

HEALTH, PHYSICAL AND RECREATIONAL EDUCATION

MAJOR IN HEALTH (Bachelor of Science)

A student majoring in health must complete 60 quarter hours of interdisciplinary courses as listed below, and the general studies program for the baccalaureate degree as outlined in this bulletin.

Major Requirements:

FDNT 220	Human Nutrition	4
HLED 208	Drugs and Society	2
HLED 215	Contemporary Health Issues	2
HLED 217	First Aid	2
HLED 238	Health Behavior Change	2
HLED 265	School Safety	2
HLED 308	Community Health Education	3
HLED 328	Basic Therapy	2
HLED 366	Health Education in Church Programs	3
HLED 370	Field Training	3
HLED 384	School Health Programs	3
HLED 453	Principles of Health	3
HLED 472	Methods of School Health Instruction	3
PETH 426	Physiology of Exercise	4
PSYC 435	Child Psychology	
or		
PSYC 440	Adolescent Psychology	
PSYC 449	Mental Health	3
	Electives (chosen from the following)	16
		60
ENGR 344	Environment and Man	4
FDNT 437, 438	Community Nutrition	3
FDNT 441, 442	Advanced Nutrition	6
FDNT 443	Diet in Disease	
HMEC 301	Consumer Education	4
MGMT 273	Introduction to Health Care Organizations	2
PSYC 415	Dynamic Behavior	3
PSYC 442	Motivation	3
PSYC 446	Psychology of Personality	3
SOCI 432	Social Gerontology	3
SOCI 437	Death and Dying	4

Required Cognates:

BIOL 101, 102, 103 or BIOL 201, 202	General Biology	
BIOI 222	Anatomy and Physiology	8-12
CHEM 101, 102 or CHEM 141, 142, 143	Microbiology	5
MATH 105, 106	Introductory Chemistry I	
PSYC 121	General Chemistry	8-12
	Applied Statistics	8
	General Psychology	4

HEALTH, PHYSICAL AND RECREATIONAL EDUCATION

MAJOR IN PHYSICAL EDUCATION (Bachelor of Science)

A student majoring in physical education must complete the core requirements, one concentration, the required cognates for that concentration, and the general studies program for the baccalaureate degree as outlined in this bulletin. Students pursuing the teaching of physical education must also complete the certification requirements as listed in the Education section of this bulletin.

Core Requirements:

PETH 214	Introduction to Physical Education and Recreation	2
PETH 225	Prevention of Injuries	2
PETH 324	Adaptive Physical Education and Recreation	3
PETH 325	Kinesiology	3
PETH 425	Motor Learning	3
PETH 494	History of Health, Physical Education Recreation	3
PETH 496	Seminar	2
		18

Concentration: Elementary Teaching of Physical Education

HLED 208	Drugs and Society	2
HLED 215	Contemporary Health Issues	2
HLED 238	Health Behavior Change	2
HLED 384	School Health Programs	3
PEAC 101-279	Physical Activity Courses	10
Physical activity courses must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.		
PETH 370	Practicum in Movement Education	2
PETH 473	Physical Education in the Elementary School	3
	Electives	11
Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.		35

Required Cognate:

BIOL 201, 202	Anatomy and Physiology	8
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Concentration: Secondary Teaching of Physical Education

HLED 215	Contemporary Health Issues	2
PEAC 101-279	Physical Activity Courses	15
Physical activity courses must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.		
PETH 205	Water Safety Instructor's Course	2
PETH 261, 262, 263	Officiating of Sports Activities	6
PETH 363,364, 365	Analysis of Team Activities	6
PETH 426	Physiology of Exercise	4
PETH 472	Methods of Teaching Secondary Physical Education	3

HEALTH, PHYSICAL AND RECREATIONAL EDUCATION

PETH 484	Administration of Health, Physical Education and Recreation	3
RECR 278	Programming of Intramural and Recreational Activities	3
	Electives	2
	Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.	46

Required Cognate:

BIOL 201, 202	Anatomy and Physiology	8
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Concentration: Biomechanical Basis

BIOL 201, 202	Anatomy and Physiology	8
BIOL 350 or PSYC 350	Biostatistics } Elementary Statistics } Physiology of Exercise	4
PETH 426	Independent Study in Physical Education	3
PETH 477	Administration of Health, Physical Education and Recreation	3
PETH 484	Programming Intramural and Recreational Activities	3
RECR 278	Electives	10

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.

Required Cognates: Biomechanical Basis

CHEM 141, 142, 143	General Chemistry	12
CPTR 125	Principles of BASIC	
CPTR 134	Introduction to Computing	
CPTR 215 or FREN 202, 203	Assembly Language Programming I } Intermediate French } Intermediate German	8
GRMN 212, 213		
MATH 181, 281	Analytic Geometry and Calculus I, II	8
PHYS 211, 212, 213	General Physics	9
PHYS 214, 215, 216	General Physics Laboratory	3

Concentration: Physiological Basis

BIOL 201, 202	Anatomy and Physiology	8
BIOL 393	Animal Physiology	4
PETH 426	Physiology of Exercise	4
PETH 477	Independent Study in Physical Education	3
PETH 484	Administration of Health, Physical Education and Recreation	3
RECR 278	Programming Intramural and Recreational Activities	3
	Electives	10

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.

35

HEALTH, PHYSICAL AND RECREATIONAL EDUCATION

Required Cognates: Physiological Basis

BIOL 101, 102, 103	General Biology	12
BIOL 392 or CHEM 431, 432	Cell Physiology Biochemistry	4-7
BIOL 350 or PSYC 350	Biostatistics	4
CHEM 141, 142, 143	Elementary Statistics	12
CHEM 321, 322, 323	General Chemistry Organic Chemistry	12
CPTR 125	Principles of BASIC	
CPTR 134	Introduction to Computing	
CPTR 215 or FREN 202, 203	Assembly Language Programming I	
GRMN 212, 213 or MATH 117	Intermediate French	8
MATH 121, 122	Intermediate German Precalculus	5-8
	Fundamentals of Mathematics I, II	

MAJOR IN RECREATIONAL EDUCATION (Bachelor of Science)

A student majoring in recreation must complete the core requirements, one concentration, the required cognates for that concentration, and the general studies program for the baccalaureate degree as outlined in this bulletin.

Core Requirements:

PETH 214	Introduction to Physical Education and Recreation	2
PETH 484	Administration of Health, Physical Education and Recreation	3
PETH 496	Seminar	2
RECR 278	Programming Intramurals and Recreational Activities	3
RECR 356	Recreation, Leisure and Society	3
RECR 364	Recreational Programs	3
RECR 484	Leadership in Recreation	2
RECR 490	Practicum in Recreation	12
		30

Concentration: Community Recreation

MKTG 481	Public Relations	4
PEAC 101-279	Physical Activity Courses	8

Physical activity courses must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.

PETH 205	Water Safety Instructor's Course	2
RECR 234	Youth Camp Leadership	2
RECR 387	Youth Services Leadership	3
SPCH 207	Small Group Communication	2
	Electives	24

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.

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HEALTH, PHYSICAL AND RECREATIONAL EDUCATION

Required Cognates: Community Recreation

BIOL 101, 102, 103	General Biology	12
MGMT 171	Principles of Management	4

Concentration: Correctional Recreation

HLED 217	First Aid	2
PEAC 101-279	Physical Activity Courses	10
	Physical activity courses must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.	
PETH 261, 262, 263	Officiating of Sports Activities	6
PETH 324	Adaptive Physical Education and Recreation	3
PETH 425	Motor Learning	3
RECR 387	Youth Services Leadership	3
RECR 475	Recreation for Special Populations	3
	Electives	<u>27</u>

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.

Required Cognates: Correctional Recreation

PLSC 224	American Government	4
SOCI 204	General Sociology	4
SPCH 207	Small Group Communication	2

Concentration: Outdoor Education

HLED 217	First Aid	2
PEAC 101-279	Physical Activity Courses	4
	Physical activity courses must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.	
PETH 205	Water Safety Instructor's Course	2
RECR 234	Youth Camp Leadership	2
RECR 374	Practicum in Outdoor Education	4
RECR 375	Camping, Survival and Wilderness Living	3
RECR 389	Camp Administration	2
RECR 472	Methods in Outdoor Education	3
	Electives	<u>15</u>

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.

Required Cognates: Outdoor Education

BIOL 101, 102, 103	General Biology	12
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Concentration: Therapeutic Recreation

PEAC 101-279	Physical Activity Courses	10
	Physical activity courses must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.	
PETH 324	Adaptive Physical Education and Recreation	3
PETH 325	Kinesiology	3
PETH 425	Motor Learning	3

HEALTH, PHYSICAL AND RECREATIONAL EDUCATION

RECR 387	Youth Services Leadership	3
RECR 475	Recreation for Special Populations	3
	Electives	<u>25</u>
	Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.	50

Required Cognates: Therapeutic Recreation

PSYC 437	Childhood Learning Disorders	3
PSYC 442	Motivation	3

Concentration: Youth Services Leadership

HLED 217	First Aid	2
PEAC 101-279	Physical Activity Courses	6
Physical activity courses must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.		
PETH 205	Water Safety Instructor's Course	2
RECR 234	Youth Camp Leadership	2
RECR 375	Camping, Survival and Wilderness Living	3
RECR 387	Youth Services Leadership	3
RECR 389	Camp Administration	2
	Electives	<u>23</u>
Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.		
		43

Required Cognates: Youth Services Leadership

BIOL 407	Philosophy of Science	4
PSYC 440	Adolescent Psychology	3
SOCI 449	Sociology of Religion	2
SPCH 207	Small Group Communication	2

MINOR IN HEALTH

A student minoring in health must complete 27 quarter hours:

HLED 215	Contemporary Health Issues	2
HLED 308	Community Health Education	3
	Electives (6 must be upper division)	<u>22</u>

Approval of health adviser required.

MINOR IN PHYSICAL EDUCATION

A student minoring in physical education must complete 30 quarter hours:

PETH 214	Introduction to Physical Education	
	and Recreation	2
PETH 261, 262, 263	Officiating of Sports Activities	6
PETH 484	Administration of Health, Physical Education and Recreation	3
	Electives	<u>19</u>
Approval of physical education adviser required.		
		30

HEALTH, PHYSICAL AND RECREATIONAL EDUCATION

MINOR IN RECREATION

A student minoring in recreation (youth services, outdoor education and community recreation) must complete 30 quarter hours:

PETH 214	Introduction to Physical Education and Recreation	2
RECR 234	Youth Camp Leadership	2
RECR 278	Programming Intramural and Recreational Activities	3
RECR 356	Recreation, Leisure and Society	3
RECR 490	Practicum in Recreation Electives	4; 12 8
	Approval of recreation adviser required.	30

HEALTH EDUCATION (HLED)

HLED 208 DRUGS AND SOCIETY

A study of the effects of drugs, including narcotics and alcohol, their relationship to social problems.

HLED 215 CONTEMPORARY HEALTH ISSUES

A detailed study of current health issues and problems emphasizing modern preventive measures.

HLED 217 FIRST AID

Standard and advanced American Red Cross first aid including the civil defense medical self-help course. This course prepares the student to deal effectively with minor emergencies and injuries. Lecture and laboratory.

HLED 238 HEALTH BEHAVIOR CHANGE

A study of behavioral change in health practices. Utilization of group processes and basic behavioral science concepts, relating them to learning and motivation in the health field.

HLED 265 SCHOOL SAFETY

Prevention of accidents found in various school situations with special emphasis on care of injuries associated with playground and gymnasium activities.

HLED 308 COMMUNITY HEALTH EDUCATION

The role of the health educator in the community, including his relationship to both public and private health agencies; emphasis given to the prevention of disease and the promotion of health through organized community effort.

HLED 328 BASIC THERAPY

Simple, nondrug, therapeutic practices are taught. Also considered are legal implications and quackery.

HLED 366 HEALTH EDUCATION IN CHURCH PROGRAMS

The planning, implementation and evaluation of church-sponsored health programs.

HLED 370 FIELD TRAINING

Supervised field experience in community and church health education. Prerequisite: HLED 308 or HLED 366.

HLED 384 SCHOOL HEALTH PROGRAMS

The purpose of this course is to develop a sound philosophy of the entire school health program and a concern for its attainment. Recognition of health problems and how to deal with them is emphasized.

HLED 453 PRINCIPLES OF HEALTH

A holistic study of the principles of health and nature of man. Prerequisites: HLED 215; HLED 238; HLED 308 or HLED 366 or permission of instructor.

HLED 472 METHODS OF SCHOOL HEALTH INSTRUCTION

Concepts of unit planning, methods, techniques, sources and evaluation of instructional materials are studied. Students are required to read widely and collect material pertinent to the course.

HEALTH, PHYSICAL AND RECREATIONAL EDUCATION

PHYSICAL ACTIVITY COURSES (PEAC)

PEAC 101-199 PHYSICAL EDUCATION ACTIVITY COURSES

1

Motor skills and physiological development; adaptive programs as needed.

PEAC 101	Canoeing I	PEAC 143	Badminton II
PEAC 102	Canoeing II	PEAC 144	Golf I
PEAC 103	Springboard Diving I	PEAC 145	Golf II
PEAC 104	Springboard Diving II	✓PEAC 146	Tennis I
PEAC 105	Kayaking and Rafting I	PEAC 147	Tennis II
PEAC 106	Kayaking and Rafting II	PEAC 148	Tennis III
PEAC 107	Lifesaving	PEAC 149	Handball I
PEAC 108	Sailing I	PEAC 150	Handball II
PEAC 109	Sailing II	✓PEAC 151	Racquetball I
PEAC 110	Scuba I	PEAC 152	Racquetball II
PEAC 111	Scuba II	✓PEAC 153	Western Horsemanship I
PEAC 112	Introductory Swimming	PEAC 154	Western Horsemanship II
PEAC 113	Beginning Swimming	PEAC 157	Backpacking
PEAC 114	Intermediate Swimming	PEAC 159	Cycling
PEAC 115	Competitive Swimming and Conditioning	PEAC 160	Cycle Touring
PEAC 116	Synchronized Swimming I	PEAC 161	Orienteering
PEAC 117	Synchronized Swimming II	PEAC 162	Mountaineering
PEAC 118	Water Skiing	PEAC 164	Downhill Skiing I
PEAC 121	Adaptive	PEAC 165	Downhill Skiing II
PEAC 122	Body Mechanics	PEAC 166	Cross-Country Skiing I
PEAC 123	Conditioning	PEAC 167	Cross-Country Skiing II
PEAC 124	Gymnastics I	PEAC 170	Baseball
PEAC 125	Gymnastics II	PEAC 171	Basketball
PEAC 126	Modern Gymnastics	PEAC 172	Field Hockey
PEAC 127	Tumbling	PEAC 173	Flagball
✓PEAC 128	Jogging	PEAC 174	Soccer
✓PEAC 129	Weight Control	PEAC 175	Softball
PEAC 131	Movement Skill	PEAC 176	Track and Field
PEAC 132	Developmental Movement	PEAC 177	Volleyball I
✓PEAC 133	Aerobic Rhythm	PEAC 178	Volleyball II
PEAC 134	Rhythms	PEAC 179	Team Handball
PEAC 135	Singing Games	PEAC 180	Water Polo
PEAC 136	Ice Skating I	PEAC 181	Fencing I
PEAC 137	Ice Skating II	PEAC 182	Fencing II
PEAC 138	Roller Skating I	PEAC 187	Self-Defense
PEAC 139	Roller Skating II	PEAC 190	Independent
✓PEAC 141	Archery	PEAC 195	Gymnastics Team
PEAC 142	Badminton I	PEAC 197	Modern Gymnastics Team

PROFESSIONAL INDIVIDUAL ACTIVITIES

PEAC 223	Conditioning	PEAC 242	Badminton I
PEAC 224	Gymnastics I	PEAC 244	Golf
PEAC 225	Gymnastics II	PEAC 246	Tennis
PEAC 241	Archery	PEAC 276	Track and Field

PROFESSIONAL TEAM ACTIVITIES

PEAC 270	Baseball	PEAC 274	Soccer
PEAC 271	Basketball	PEAC 275	Softball
PEAC 272	Field Hockey	PEAC 279	Volleyball
PEAC 273	Flagball		

PHYSICAL EDUCATION THEORY (PETH)

PETH 205 WATER SAFETY INSTRUCTOR'S COURSE

This course prepares students to meet the requirements of the National Red Cross Certificate to instruct swimming and supervise swimming areas. A valuable asset for summer employment. Prerequisite: Lifesaving.

PETH 214 INTRODUCTION TO PHYSICAL EDUCATION AND RECREATION

A theory course outlined to provide a basic orientation to the field of physical education. A brief survey of the philosophy and objectives as well as the professional opportunities and responsibilities of the physical educator.

PETH 225 PREVENTION OF INJURIES

This course is designed for prospective physical therapists, health and physical education students to aid in prevention, evaluation recognition and immediate care and rehabilitation of injuries. Lecture and laboratory.

PETH 261, 262, 263 OFFICIATING OF SPORTS ACTIVITIES

The basic science of officiating in a variety of activities covered in the service of the department. Students will be required to act as officials in the intramural activities sponsored by the department. Lecture and laboratory.

PETH 268 SKI INSTRUCTOR'S COURSE

A course to provide the advanced skiing student with the methods and skills involved in skiing instruction. The student will be required to assist in conducting the various classes and will also be eligible for employment as a ski instructor in succeeding years. Lecture and laboratory.

PETH 324 ADAPTIVE PHYSICAL EDUCATION AND RECREATION

A study of common abnormalities found in students which may be corrected or prevented by proper exercise. Extent and limitations of the teacher's responsibility in this field of education. Lecture and laboratory.

PETH 325 KINESIOLOGY

Study of joint and muscular mechanism action of muscles involved in fundamental movements. Effect of gravity and other forces on motion. Prerequisite: BIOL 201. Lecture and laboratory.

PETH 363, 364, 365 ANALYSIS OF TEAM ACTIVITIES

Materials, methods, strategy and teaching progressions; autumn, flagball and football; winter, basketball and volleyball; spring, track and field and softball.

PETH 370 PRACTICUM IN MOVEMENT EDUCATION

A practical learning experience in movement activities for the preschool and elementary child. Lecture and laboratory.

PETH 425 MOTOR LEARNING

Analysis of selected variables which influence the learning of motor skills. Lecture and laboratory.

PETH 426 PHYSIOLOGY OF EXERCISE

The physiological basis for motor fitness; factors limiting human performance in athletic competition; discussion of pertinent research from the sports medicine literature; laboratory techniques used in analysis of motor fitness. One laboratory period. Prerequisite: BIOL 201, 202. Lecture and laboratory.

PETH 472 METHODS OF TEACHING SECONDARY PHYSICAL EDUCATION

A study of the methods and techniques of teaching physical education in the secondary school, indoors and outdoors, individual as well as group activities are studied. Students are required to observe and demonstrate in class. Lecture and laboratory.

PETH 473 PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL

This course deals with the planning of the curriculum in the elementary school, organization of a balanced activities program. Participation in the elementary physical education program is required.

HEALTH, PHYSICAL AND RECREATIONAL EDUCATION

PETH 484 ADMINISTRATION OF HEALTH, PHYSICAL EDUCATION AND RECREATION

The student will become conversant with techniques of scheduling, organizing and planning suitable activities. Study is given to purchasing of supplies and equipment, planning and use of facilities, comparative cost and budgeting for the entire health and physical education program as it relates to either the elementary or secondary school depending on the need of the student. 3

PETH 494 HISTORY OF HEALTH, PHYSICAL EDUCATION AND RECREATION

History and theory of health, physical and recreational education. A practical study of the reasons physical education should be included in the school program and the unique contribution it makes to education. 3

PETH 496 SEMINAR

A study of the modern trends in physical and recreational education. Group discussion and presentation of current material in the field. Prerequisite: senior standing. 2

RECREATIONAL EDUCATION (RECR)

RECR 205 LAPIDARY

This course is offered to help plan the leisure time activity of young people as well as to prepare for a hobby. 2

RECR 234 YOUTH CAMP LEADERSHIP

Principles and techniques in the role of camp counseling; involving campers, counselors, cabin groups, and understanding problems of discipline and morale. Lecture and laboratory. 2

RECR 278 PROGRAMMING INTRAMURAL AND RECREATIONAL ACTIVITIES

The mechanics of programming the intramural and recreational activities in the school and community. 3

RECR 315 ADVANCED LAPIDARY

An advanced course in lapidary with special emphasis on teaching methods, preparation of teaching aids, sources of material, cost, etc. 2

RECR 356 RECREATION, LEISURE AND SOCIETY

This course deals with concepts promoting the most effective and widespread education for the worthy and creative use of leisure. The primary purpose is to make awareness of the advancement of recreation programs of the highest quality at all levels of human endeavor and the preparation of people in modern society. 3

RECR 364 RECREATIONAL PROGRAMS

A course intended to fill the need for leadership in planning a balanced recreational program in the church or community for all age groups. Lecture and laboratory. 3

RECR 374 PRACTICUM IN OUTDOOR EDUCATION

A four-week program providing controlled application of outdoor skills in a natural wilderness setting under qualified leadership. This program, known as Mission Possible (MiPo), places emphasis on self-discovery and reassessment of the individual's approach to life with assistance from persons trained in counseling. 4

RECR 375 CAMPING, SURVIVAL AND WILDERNESS LIVING

A course to help in the preparation of competent summer camp leaders. Two lectures per week and a four-day camping experience. 3

RECR 387 YOUTH SERVICES LEADERSHIP

A course designed to develop potential leaders in youth leadership service to the community, youth agencies and the church. Special emphasis is placed upon understanding youth problems within our contemporary society. 3

HEALTH, PHYSICAL AND RECREATIONAL EDUCATION

RECR 389 CAMP ADMINISTRATION	2
This course is designed to cover selected organizational and administrative procedures in organized camping, including committee work, budget, campsites, building, equipment, insurance, nutrition, health and safety.	
RECR 472 METHODS IN OUTDOOR EDUCATION	3
This course deals with the basic principles of teaching outdoor education in elementary and secondary schools by the interpretive method. It teaches some of the "hows" relating to utilization of the environment and the classroom. The course also gives the naturalist approach to teaching, enabling the participant to work in outdoor education centers, camps and educational settings. Lecture and laboratory.	
RECR 475 RECREATION FOR SPECIAL POPULATIONS	3
A study of principles and practices involving the utilization of recreation programs in the therapeutic environment. This course includes investigation of hospitals, nursing homes, educational, correctional and other specialized programs which utilize recreational activities as therapy.	
RECR 484 LEADERSHIP IN RECREATION	2
Leadership and group work as techniques for meeting program objectives, individual and group needs, individual development, human relations and the learning process of recreational leadership.	
RECR 490 PRACTICUM IN RECREATION	12
Field work at various private and public recreation agencies under supervision of qualified leadership and approved agencies. Application must be completed two months prior to placement, and all students will be screened by the department. All general education requirements must be completed. Prerequisites: PETH 214; PETH 484; RECR 356; RECR 364; RECR 484.	



HISTORY

R. Henderson, Chairman; R. Blaich, L. Glaim, C. Schwantes.

The purpose of the work in history is fourfold: to promote a better understanding of the past and an appreciation of the present; to broaden the cultural outlook and formulate a constructive philosophy of history of life; to train in skills of research and evaluation; to prepare students for teaching, graduate and professional schools and government service.

The objectives of the courses in political science are to present techniques and materials with which to analyze governmental systems, diplomacy and international relations and theories of political power. Students are prepared for careers in teaching, law, government and church service.

The department offers a major in history as well as minors in history and political science.

MAJOR IN HISTORY (Bachelor of Arts)

A student majoring in history must complete 52 quarter hours in the major, the required cognate and the general studies program for the baccalaureate degree as outlined in this bulletin.

Major Requirements:

HIST 121, 122	History of Western Civilization	8
HIST 221, 222	History of the United States	8
HIST 396	Introduction to Historical Research	1
HIST 496, 497	Seminar	3
	Electives (17 must be upper division)	<u>32</u>
		<u>52</u>

8 quarter hours must be European; 8 quarter hours must be American; electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.

Required Cognate:

Modern Language: Intro/Elem	12
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MINOR IN HISTORY

A student minoring in history must complete 28 quarter hours:

HIST 121, 122	History of Western Civilization	8
HIST 221, 222	History of the United States	8
	Electives (4 must be upper division)	<u>12</u>
		<u>28</u>

Approval of history adviser required.

MINOR IN POLITICAL SCIENCE

A student minoring in political science must complete 28 quarter hours:

Electives (3 must be upper division)	28
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Approval of political science adviser required.

HISTORY

HISTORY (HIST)

HIST 121, 122 HISTORY OF WESTERN CIVILIZATION

4, 4

A survey of European history from antiquity emphasizing the period since the Renaissance.

HIST 131, 132, 133 WESTERN THOUGHT I (HONORS)

4, 4, 4

See the honors program listed under the Interdisciplinary section of this bulletin.

HIST 221, 222 HISTORY OF THE UNITED STATES

4, 4

A survey of the colonial period, followed by a more detailed study of the national period.

HIST 396 INTRODUCTION TO HISTORICAL RESEARCH

1

An orientation to the methods, materials and problems of historical research. Students will choose the topic for their senior papers, and commence research.

HIST 496, 497 SEMINAR

0, 3

A class devoted to the preparation of the senior thesis. Open only to senior history majors. Prerequisite: HIST 396.

EUROPEAN HISTORY (HIST)

HIST 374, 375 HISTORY OF ENGLAND

4, 4

The development and expansion of the English nation from the earliest times to the present.

HIST 435 HISTORY OF MODERN GERMANY

4

A survey of German history since 1870. Diplomatic, political, socioeconomic and ideological developments in Imperial, Weimar, Nazi and post-World War II Germany, with special emphasis on the German Question resulting from World War II. Prerequisite: HIST 121, 122. Not offered every year. Consult the department chairman.

HIST 463 THE MIDDLE AGES

4

A survey of the main institutions and ideas in European civilization from the decline of the Roman Empire to the Italian Renaissance, 300-1500. Prerequisite: HIST 121, 122.

HIST 465 RENAISSANCE AND REFORMATION

4

The transformation of Europe from a medieval to a modern society, 1300-1648, with special emphasis on the artistic, intellectual and religious sector.

HIST 467 ENLIGHTENMENT AND REVOLUTION

4

The influence of the Enlightenment on the French Revolution and the Napoleonic Imperium. Prerequisite: HIST 121, 122. Not offered every year. Consult the department chairman.

HIST 468 THE MODERN TRANSITION, 1815-1919

4

Europe against the backdrop of nineteenth century industrialization. Prerequisite: HIST 121, 122. Not offered every year. Consult the department chairman.

HIST 469 CONTEMPORARY EUROPE, 1918 TO THE PRESENT

4

Europe from division to proposed unity. Prerequisite: HIST 121, 122. Not offered every year. Consult the department chairman.

AMERICAN HISTORY (HIST)

HIST 325 HISTORY OF CANADA

4

A survey of Canadian development from the beginnings of the French regime to the present. Not offered every year. Consult the department chairman.

HIST 384, 385 HISTORY OF LATIN AMERICA

4, 4

A survey of the colonial period, followed by a more detailed study of the development of the individual Latin American nations and their world relationship.

HISTORY

HIST 424 THE AMERICAN FRONTIER

4

The exploration, settlement and development of the American west with consideration given to economic, social, cultural and political factors. Not offered every year. Consult the department chairman.

HIST 445 THE CIVIL WAR AND THE RISE

OF INDUSTRIAL AMERICA, 1850-1900

4

The sectional crisis, war and its impact on postwar political, economic and social developments. Special attention will be given to industrialism and the development of the American labor movement. Prerequisite: HIST 221, 222.

HIST 446 HISTORY OF THE PACIFIC NORTHWEST

4

A course in regional history from the age of discovery to contemporary times including the fur traders, the missionaries, international rivalries, the territorial period and developments since statehood.

HIST 448 TWENTIETH CENTURY AMERICA

4

A study of maturing America from 1900 to the present, with emphasis on the problems of prosperity, depression and the role of the United States in world affairs. Prerequisite: HIST 221, 222.

HIST 457 SOCIAL AND INTELLECTUAL HISTORY OF THE UNITED STATES

4

An analysis of the major social and intellectual trends in United States history, including Puritanism, the Enlightenment, Transcendentalism, Social Darwinism and Pragmatism. Prerequisite: HIST 221, 222. Not offered every year. Consult the department chairman.

GENERAL

GEOG 358 WORLD GEOGRAPHY

4

A survey course of the major groups of natural regions. Essentially human geography, but with adequate attention to economic and physical aspects. Will not apply to a history minor. Not offered every year. Consult the department chairman.

HIST 472 METHODS OF TEACHING SOCIAL STUDIES

3

Methods and techniques of teaching social studies on the secondary school level. Observation, demonstration and class presentation are required of the students as a part of this course. Will not apply on a major or minor in history or political science.

POLITICAL SCIENCE (PLSC)

PLSC 224 AMERICAN GOVERNMENT

4

Principles, organization and development of American national, state and local government.

PLSC 324 COMPARATIVE GOVERNMENTS

4

A comparative study of political institutions, ideologies and processes in modern and developing areas. Will include intensive analytical and critical study of theories of authority, with particular emphasis on problems of values in the political thought of communist, fascist, Catholic, socialist and democratic theories. Not offered every year. Consult the department chairman.

PLSC 424, 425 WESTERN POLITICAL THOUGHT

4, 4

Political thought from classical Greece to the Renaissance and from the Enlightenment to the present. May apply in history as well as political science. Not offered every year. Consult the department chairman.

PLSC 426 AMERICAN POLITICAL THOUGHT

4

The genesis and development of political thought in the United States. May apply in history as well as political science. Not offered every year. Consult the department chairman.

HISTORY

PLSC 427 AMERICAN DIPLOMATIC HISTORY

4

The relation of the United States to world politics; analysis of problems involved in the formulation of foreign policies from colonial times to the present. May apply in history as well as political science. Not offered every year. Consult the department chairman.

PLSC 434 INTERNATIONAL RELATIONS

4

Systematic analysis of the nature of international society, and of the motivating and conditioning factors which explain interaction among states and other international entities. Not offered every year. Consult the department chairman.

PLSC 475 CONSTITUTIONAL HISTORY

4

Theory and practice of constitutional government in the United States. Formation of the constitution, federal court system, separation of powers, judicial review, congressional and presidential authority; exclusive national and concurrent state powers; emphasis on nature of legal reasoning and judicial practice. May apply in history as well as in political science. Not offered every year. Consult the department chairman.



HOME ECONOMICS

J. Bishop, Chairman; G. Hicinbothom, M. Olmsted, M. Schwantes.

The major in home economics leading to a Bachelor of Arts degree is designed for the general college student and for those preparing to teach. Students who wish to teach should also plan to meet certification requirements.

The major in foods and nutrition leading to a Bachelor of Science degree is designed to prepare the student for health-science job opportunities, for graduate and professional schools.

The program in dietetic technology with an emphasis in nutrition care leads to an Associate of Science degree and is designed to be completed in two years. It aims to prepare the student to assume the responsibilities of a dietetic technician, working under the direction of a registered dietitian. Successful completion of this Associate of Science degree program qualifies one for work in hospitals, community services and clinical or therapeutic dietetic programs.

If, after satisfactory completion of the Associate of Science degree program, the student wishes to continue working toward a Bachelor of Science degree in dietetics on the undergraduate coordinated program, or a major in foods and nutrition, credit earned in the two-year program may be applied toward the four-year program.

The program in early childhood education is offered cooperatively between the departments of education and psychology and home economics. It leads to an Associate of Science degree and is designed to prepare the student for employment in nursery schools, day care centers, Head Start programs, parent cooperatives and other early education facilities. For a complete listing of requirements, see the Education and Psychology section of this bulletin.

The department offers minors in home economics, interior design, and foods and nutrition.

MAJOR IN HOME ECONOMICS (Bachelor of Arts)

A student majoring in home economics must complete 53 quarter hours in the major, the required cognates, and the general studies program for the baccalaureate degree as outlined in this bulletin.

Major Requirements:

CFSC 282	Child Development	3
FDNT 101, 102	Principles of Food Science	8
FDNT 103	Meal Management and Table Service	3
FDNT 220	Human Nutrition	4
HMEC 100	Introduction to Home Economics	2
HMEC 222	Art in Everyday Living	3
HMEC 223	Introductory Interior Design	3
HMEC 242, 243	Clothing Selection and Construction	6
HMEC 301	Consumer Education	4

HOME ECONOMICS

HMEC 346	Household Management	3
HMEC 369	Textiles	4
HMEC 472	Methods of Teaching Home Economics	3
HMEC 496	Seminar	1
	Electives (must be upper division)	<u>6</u>

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.

53

Required Cognates:

CHEM 101, 102	Introductory Chemistry I	8
SOCI 325	Social Psychology of Family Life	3
	Modern Language: Intro/Elem	12

MAJOR IN FOODS AND NUTRITION (Bachelor of Science)

A student majoring in foods and nutrition must complete 58 quarter hours in the major, the required cognates and the general studies program for the baccalaureate degree as outlined in this bulletin. Those foods and nutrition majors who wish to fulfill the requirements by the American Dietetic Association for admission to a dietetic internship or traineeship must consult with their adviser no later than spring quarter of their junior year.

Major Requirements:

CFSC 282	Child Development	3
FDNT 101, 102	Principles of Food Science	8
FDNT 103	Meal Management and Table Service	3
FDNT 220	Human Nutrition	4
FDNT 286	Institutional Food Preparation	3
FDNT 412	Foods in Cultures of the World	3
FDNT 422	Experimental Cookery	3
FDNT 437, 438	Community Nutrition	3
FDNT 441, 442	Advanced Nutrition	6
FDNT 443	Diet in Disease	4
FDNT 447	Institutional Food Purchasing	3
FDNT 448	Institutional Food Management	4
HMEC 201	Household Equipment	3
HMEC 301	Consumer Education	4
HMEC 496	Seminar	<u>1</u>
		55

Required Cognates:

BIOL 201, 202	Anatomy and Physiology	8
BIOL 222	Microbiology	5
CHEM 141, 142, 143	General Chemistry	12
CHEM 321, 322, 323	Organic Chemistry	12
CHEM 431, 432	Biochemistry	7
PSYC 230	Systems and Theories in Psychology	4
PSYC 350	Elementary Statistics	4

DIETETIC TECHNOLOGY (Associate of Science)

A student specializing in dietetic technology with an emphasis in nutrition care must complete 39 quarter hours in the area, the required cognates and the general studies program for the associate degree as outlined in this bulletin.

Area Requirements:

FDNT 101, 102	Principles of Food Science	8
FDNT 103	Meal Management and Table Service	3
FDNT 151, 152	Orientation to Nutrition Care I, II	4
FDNT 153	Nutrition Care Experience I	2
FDNT 220	Human Nutrition	4
FDNT 251, 252, 253	Nutrition Care Experience II, III, IV	6
FDNT 437, 438	Community Nutrition	3
FDNT 443	Diet in Disease	4
FDNT 448	Institutional Food Management	4
HMEC 496	Seminar	1
		<u>39</u>

Required Cognates:

BIOL 201, 202	Anatomy and Physiology	8
BIOL 222	Microbiology	5
CHEM 101, 102	Introductory Chemistry I	8
HLED 215 or HLED 238	Contemporary Health Issues Health Behavior Change	2-3
HLED 308	Community Health Education	
PSYC 130	General Psychology	4
SOCI 204	General Sociology	4
SOCI 234	Current Social Problems	3

EARLY CHILDHOOD EDUCATION (Associate of Science)

This program is offered cooperatively between the departments of education and psychology and home economics. See the Education and Psychology section of this bulletin for a complete list of requirements.

MINOR IN FOODS AND NUTRITION

A student minoring in foods and nutrition must complete 30 quarter hours:

FDNT 101, 102	Principles of Food Science	8
FDNT 103	Meal Management and Table Service	3
FDNT 220	Human Nutrition	4
FDNT 286	Institutional Food Preparation	3
FDNT 412	Foods in Cultures of the World	3
FDNT 437, 438	Community Nutrition	3
	Electives	6
		<u>30</u>

Approval of foods and nutrition adviser required.

HOME ECONOMICS

MINOR IN HOME ECONOMICS

A student minoring in home economics must complete 30 quarter hours:		
FDNT 101, 102	Principles of Food Science	8
FDNT 220	Human Nutrition	6
HMEC 100	Introduction to Home Economics	2
HMEC 222	Art in Everyday Living	3
HMEC 242	Clothing Selection and Construction	3
HMEC 301	Consumer Education	4
	Electives	4
		30

Approval of home economics adviser required.

MINOR IN INTERIOR DESIGN

A student minoring in interior design must complete 30 quarter hours:		
HMEC 222	Art in Everyday Living	3
HMEC 223	Introductory Interior Design	3
HMEC 242	Clothing Selection and Construction	3
HMEC 301	Consumer Education	4
HMEC 369	Textiles	3
HMEC 424, 425	Interior Design	6
	Electives	8
		30

Approval of interior design adviser required.

FOODS AND NUTRITION (FDNT)

FDNT 101, 102 PRINCIPLES OF FOOD SCIENCE	4, 4
Basic principles and techniques of food preparation, purchasing and selection, with emphasis on nutrition, economic values and food quality. Sanitary handling and storage in food preparation. Prerequisite: FDNT 101 or equivalent for FDNT 102.	
FDNT 103 MEAL MANAGEMENT AND TABLE SERVICE	3
Managerial aspects of planning, preparing and serving food for family meals and special occasions. Prerequisite: FDNT 101, 102 or equivalent.	
FDNT 151 ORIENTATION TO NUTRITION CARE I	2
Practical experience and tours of health care institutions as an introduction to the kinds of knowledge and skills necessary for dietitians and for dietetic technicians in the health care environment. Prerequisite: Permission of instructor required.	
FDNT 152 ORIENTATION TO NUTRITION CARE II	2
A continuation of the practical experience acquainting the student with supply and/or service operations. Evaluation of a variety of types of community nutrition services; patient interviews. Prerequisite: FDNT 151.	
FDNT 153 NUTRITION CARE EXPERIENCE I	2
Practical experience in preparation and serving food in health care institutions, in educating and helping patients plan and/or select modified diets, in the development and use of audiovisual material in nutrition education situations. Prerequisites: FDNT 151; FDNT 152.	
FDNT 220 HUMAN NUTRITION	4
A study of the principles of nutrition and the diet essential for promoting a high degree of physical fitness.	
FDNT 251 NUTRITION CARE EXPERIENCE II	2
Practical experience in providing high quality nutrition care to patients in harmony with individual requests and diet prescriptions. Opportunity to assist with various community nutrition programs. Prerequisite: FDNT 153.	

HOME ECONOMICS

FDNT 252 NUTRITION CARE EXPERIENCE III	2
Continued experience in diet office work and patient education with increasing responsibility in supervisory work. Further experience in community nutrition education situations, such as nutrition and weight control clinics, cooking classes, day care centers, etc. Prerequisite: FDNT 251.	
FDNT 253 NUTRITION CARE EXPERIENCE IV	2
Student will demonstrate ability to maintain the smooth on-going operations of the diet office for short periods of time under supervision. Field and community experience in nutrition instruction of individuals and/or groups in institutional and home situations. Prerequisite: FDNT 252.	
FDNT 286 INSTITUTIONAL FOOD PREPARATION	3
Instruction and laboratory experience in large quantity food preparation and food cost control. Prerequisite: Permission of instructor.	
FDNT 412 FOODS IN CULTURES OF THE WORLD	3
Preparation of regional and national foods emphasizing cultural ethnic and environmental factors. Application of scientific principles in specialized food preparation. Prerequisite: Adequate background in food preparation.	
FDNT 422 EXPERIMENTAL COOKERY	3
Development of experimental methods, their application of investigations in cookery and the skills involved; acquaintance with the literature in this field; preparation of the student for independent investigations in foods. Prerequisites: FDNT 101, 102; FDNT 103; and CHEM 101, 102 or CHEM 141, 142, 143 or equivalent.	
FDNT 437, 438 COMMUNITY NUTRITION	2, 1
Survey of current community nutrition problems and of programs designed to alleviate the problems; food habits of population groups which have a high incidence of malnutrition; implications of fad diets. Field experience spring quarter. Prerequisite: FDNT 220 or permission of instructor.	
FDNT 441, 442 ADVANCED NUTRITION	3, 3
A scientific study of nutrition involving digestion and metabolic processes and products; selection of an optimum diet for health; review of current nutritional literature and preparation of the student for independent investigations in nutrition research. Laboratory required. Prerequisites: FDNT 220; CHEM 101, 102 or CHEM 141, 142, 143.	
FDNT 443 DIET IN DISEASE	4
Recent development in the dietary treatment of disease in which nutrition plays a major role. Experience in independent use of journal literature in the field. Class presentation of research project in the field. Laboratory required. Laboratory experience in dietary care of patients in hospital setting. Prerequisite: FDNT 220 or equivalent.	
FDNT 447 INSTITUTIONAL FOOD PURCHASING	3
Marketing operations, buying procedures, food selection and care. Inspection of merchandise at markets and wholesalers. Prerequisite: Permission of instructor.	
FDNT 448 INSTITUTIONAL FOOD MANAGEMENT	4
Principles of organization, qualifications for institution managers, planning of work and budget analysis. This course offers practical work in the school cafeteria for those who are interested in being managers in institution food services. Field experience is included in this course. Prerequisite: FDNT 286 or permission of instructor.	
HOME ECONOMICS (HMEC)	
HMEC 100 INTRODUCTION TO HOME ECONOMICS	2
Orientation in the areas of home economics and a study of the field in terms of history, philosophy and professional opportunities.	
HMEC 201 HOUSEHOLD EQUIPMENT	3
Selection, operation and care of household appliances, electricity in the home and kitchen planning.	

HOME ECONOMICS

HMEC 222 ART IN EVERYDAY LIVING

Introduction in the use of art elements giving consideration to line, form and color as applied in the fundamental principles of design and the various aspects of the home, clothing and everyday living. Problems in selecting and designing.

HMEC 223 INTRODUCTORY INTERIOR DESIGN

A study of the basic principles of design as it relates to the home and its decor. Prerequisite: HMEC 222.

HMEC 242, 243 CLOTHING SELECTION AND CONSTRUCTION

Aims to develop good taste in dress and to give an appreciation in selection of clothing from standpoint of beauty, health and economy; pattern alterations, fitting problems and use of commercial patterns; construction of garments using natural and synthetic materials. Construction of lingerie articles in spring quarter. Must be taken in sequence. Permission of instructor required.

HMEC 301 CONSUMER EDUCATION

A study of the consumer in the current world, his responsibilities and protection. Field trips arranged.

HMEC 302 BEGINNING WEAVING

Principles, techniques and development of handweaving. Construction of handwoven articles.

HMEC 346 HOUSEHOLD MANAGEMENT

Fundamental concepts in the management of family resources, time, energy, income and the use of credit. A theory course supplemented with practical problem solving.

HMEC 369 TEXTILES

A study of basic fibers, weaves and textile fabrics including characteristics, construction, use, selection and care of fabrics used in clothing and home furnishings. Weekly three-hour laboratory period required.

HMEC 403 ADVANCED WEAVING

Application of basic principles of weaving to original designs through the use of hand spinning, dyeing and weaving. Prerequisite: HMEC 302 or equivalent.

HMEC 424, 425 INTERIOR DESIGN

A study of period furniture and the decorative arts of the past as a background for an understanding of what is good, true and beautiful in home decoration; instruction in and application of the principles governing the selection of furnishings for the home and their arrangement with appropriate backgrounds. Must be taken in sequence unless by permission of instructor. Prerequisite: HMEC 222, 223.

HMEC 451 CLOTHING DESIGN

A study of the history and theory of clothing design; development of original clothing designs by flat pattern techniques. Weekly three-hour laboratory period required. Prerequisite: HMEC 242, 243.

HMEC 461, 462 TAILORING

Custom tailoring techniques involved in the construction of coats and suits using wool and synthetic materials. Prerequisite: HMEC 242, 243 or equivalent.

HMEC 472 METHODS OF TEACHING HOME ECONOMICS

The principles and practice of teaching home economics with emphasis on the secondary level. Special attention will be given to the newer methods of presentation in classroom, laboratory and community demonstrations. Observation, demonstration and class presentation are required of the students as a part of this course. Prerequisite: EDUC 471.

HMEC 496 SEMINAR

Reading and discussion of recent literature and research; various aspects of professional ethics considered in areas of home economics.

CHILD AND FAMILY SCIENCES (CFSC)

CFSC 282 CHILD DEVELOPMENT

3

A study of the care and development of young children, with special reference to home education and nutrition.

SOCI 225 MARRIAGE AND FAMILY LIFE

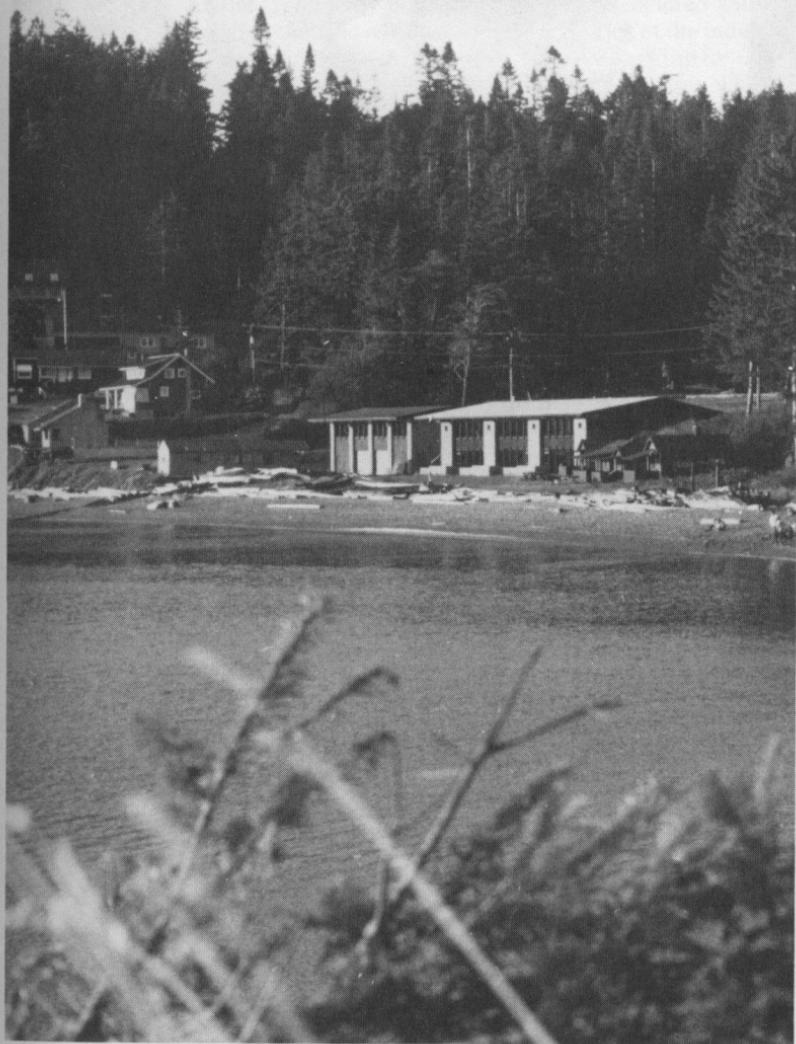
2

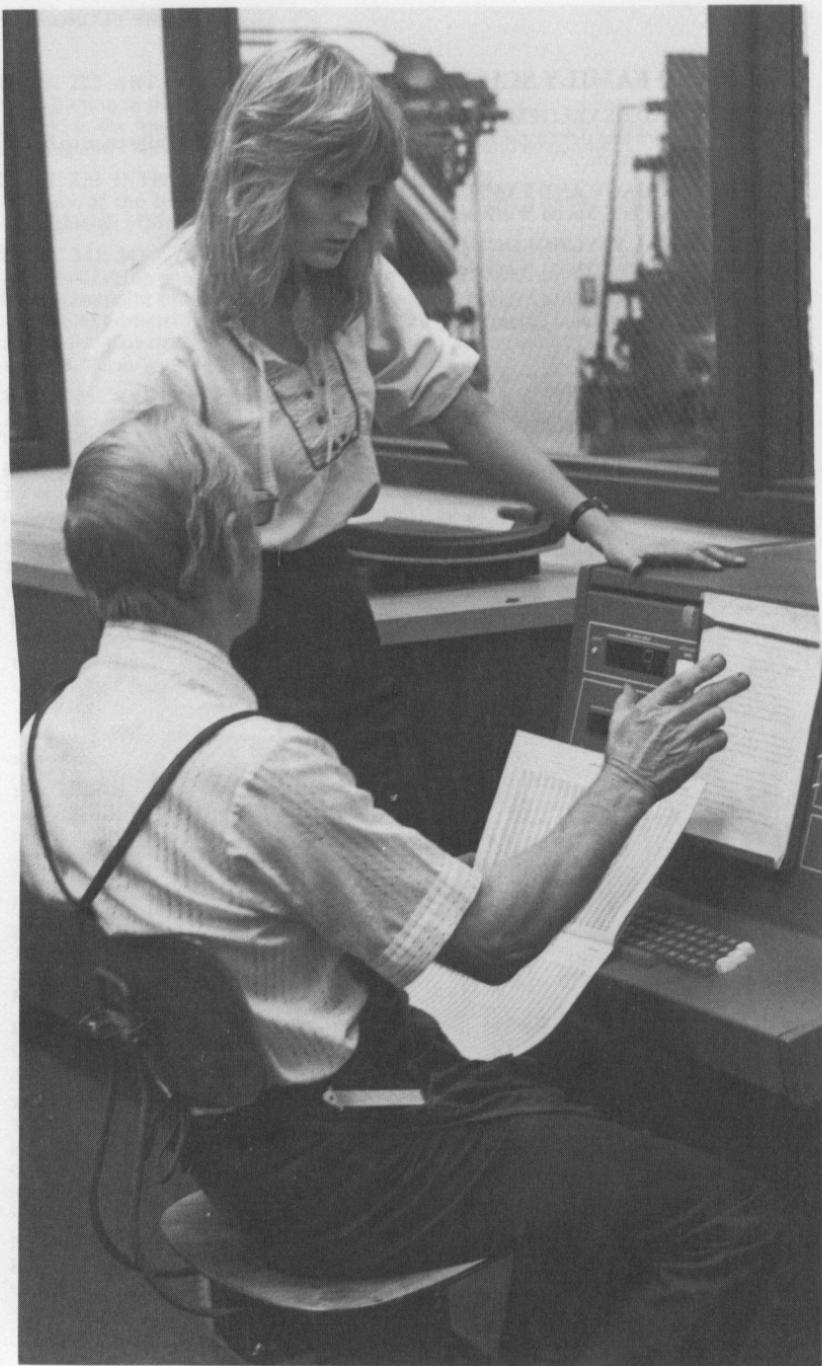
See the Sociology and Social Work section of this bulletin.

SOCI 325 SOCIAL PSYCHOLOGY OF FAMILY LIFE

3

See the Sociology and Social Work section of this bulletin.





INDUSTRIAL TECHNOLOGY

E. Liske, Chairman; C. Blake, L. Claridge, W. Crow, D. Dawes, A. Fisher, G. Fisher, T. Graham, K. Gruesbeck, D. Visger.

The industrial technology department provides quality technological instruction in a Christian environment. Various fields of technology are presented with the express purpose of preparing students as teachers of industrial arts or for careers in industry as industrial technologists.

The four-year industrial technology college graduate is associated with the managerial, engineering, scientific and supervisory activities of the industrial world. He is technoscientifically oriented with a broad preparation for manufacturing management in industry. Possessing much of the "know-why" of engineering and science, and the "know-how" of industry, the industrial technologist is able to work with and contribute to the ideas of professional engineers and scientists, as well as supervise and manage the utilization of materials and machines for producing, distributing and servicing industrial products.

The teacher of industrial arts possesses a broad background in the products and processes of industry. He has developed a degree of skill in several areas of industrial technology and is equipped to pass on to his students the benefits of America's industrial heritage.

Courses in industrial technology also provide the nonmajor with the opportunity of developing occupational skills in a second field or strengthening his background in the applied arts to better fit him for life in today's highly technologically oriented society.

Programs leading to the Bachelor of Science degree are Industrial Arts Education, Automotive Technology, Biomedical Electronics Technology, Electronics Technology, Graphics Technology, Industrial Technology, Plant Maintenance Technology.

The industrial technology department also offers majors leading to the Associate of Science degree and a number of certificate programs.

Associate of Science degrees are offered in Automotive Technology, Aviation Technology, Construction Technology, Electronics Technology, General Contracting, Graphics Technology, Plant Maintenance Technology. Each curriculum is designed to prepare graduates for employment in that particular field. In each case, a broad technical background is offered balancing theory with laboratory experience. These programs are especially designed to serve the student who wishes to complete his technical training in a Christian environment with minimal general studies and time requirements. The programs are planned in such a way that continuance in the baccalaureate program may occur with minimal loss of credit. The Associate of Science degree requires the completion of 96 quarter hours.

The certificate programs are designed for completion in one year with almost total emphasis on the technical specialty. The following programs offer the opportunity of quality short-term technical training in a Christian environ-

INDUSTRIAL TECHNOLOGY

ment: Auto Mechanics, Aviation, Carpentry, Electricity/Electronics, Plant Maintenance, Printing, Offset Copy Preparation.

These programs are planned in such a way that continuance in a degree program may occur with minimal loss of credit. To qualify for a certificate, the student must maintain a cumulative grade-point average of 2.0. The certificate program requires the completion of 48 quarter hours.

To better serve the needs of a society caught in rapid technological change, the department is constantly updating its courses and programs. For information on programs not currently listed in the bulletin, contact the department chairman.

MAJOR IN INDUSTRIAL ARTS EDUCATION (Bachelor of Science)

A student majoring in industrial arts education must complete 63 quarter hours in the major, certification requirements as listed in the education section of this bulletin for the provisional Washington State secondary teaching certificate and the general studies program for the baccalaureate degree as outlined in this bulletin. It is recommended that a minor be chosen from instructional areas taught on the secondary level.

Major Requirements:

DRFT 121, 122	Technical Drawing	6
DRFT 226	Architectural Drawing	
or		
DRFT 236	Electrical and Electronics Drawing	3
GRPH 126	Lettering	2
INDS 124	Introduction to Industry	1
INDS 221, 222, 223	Wood Products and Processes	6
Minimum of six quarter hours in each of three areas chosen from Automotive, Electronics, Graphic Arts, Industrial Crafts, Metal Machining, Welding, Construction		18
INDS 324	Industrial Design	3
INDS 364	Industrial Safety	2
INDS 374	Foundations of Industrial Arts	2
INDS 376	Technical Facility Planning	3
INDS 472	Methods of Course Organization	4
INDS 477	Independent Study (in supervision)	2
INDS 499	Senior Problem	1
	Electives (8 must be upper division)	10
Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.		63

MAJOR IN AUTOMOTIVE TECHNOLOGY (Bachelor of Science)

A student majoring in automotive technology must complete 63 quarter hours in the major, the required cognates and the general studies program for the baccalaureate degree as outlined in this bulletin.

INDUSTRIAL TECHNOLOGY

Major Requirements:

AUTO 134	Internal Combustion Engine Theory	2
AUTO 135	Internal Combustion Engine Laboratory	2
AUTO 145	Power Train Theory	2
AUTO 146	Power Train Laboratory	2
AUTO 156	Fuel and Electrical Systems Theory	2
AUTO 157	Fuel and Electrical Systems Laboratory	2
AUTO 286	Engine and Rebuilding Laboratory	2
AUTO 314	Engine Diagnosis and Tune-up	2
AUTO 315	Engine Diagnosis and Tune-up Laboratory	2
AUTO 345, 346	Automotive Service	4
AUTO 347, 348	Automotive Service Laboratory	4
AUTO 365	Diesel Engines	3
ELCT 221	Introduction to Electricity/Electronics	3
INDS 124	Introduction to Industry	1
INDS 364	Industrial Safety	2
INDS 376	Technical Facility Planning	3
INDS 386	Oil Hydraulics	3
INDS 477	Independent Study (in automotive)	3
INDS 499	Senior Problem	1
	Electives	<u>18</u>
Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.		63

ACCT 121, 122, 123 or ACCT 125, 126 ACCT 331, 332 or CPTR 131 and MGMT 375	Principles of Accounting Principles of Accounting Managerial Cost Accounting Data Processing Supervision	10 6
MATH 111, 112	Mathematics for the Liberal Arts	8
MGMT 171	Principles of Management	4
MGMT 275	Management of Small Businesses	4
MKTG 381 or MGMT 476	Marketing Human Relations in Management	4

MAJOR IN BIOMEDICAL ELECTRONICS TECHNOLOGY (Bachelor of Science)

A student majoring in biomedical electronics technology must complete 85 quarter hours in the major, the required cognates and the general studies program for the baccalaureate degree as outlined in this bulletin.

Major Requirements:

ELCT 241, 242	Fundamentals of Electronics	10
ELCT 252, 253	Electronic Devices and Circuits	8
ELCT 297, 298	Electronics Fabrication	2
ELCT 326	Hospital Safety	2

INDUSTRIAL TECHNOLOGY

ELCT 331, 332, 333	Medical Electronics	12
ELCT 351, 352	Radio Communications	8
ELCT 361	Linear Integrated Circuits	5
ELCT 362	Digital Integrated Circuits	5
ELCT 381, 382, 383	TV Systems and Circuit Analysis	9
ELCT 466	Computer Circuits and Systems	5
ELCT 490	Directed Hospital Experience	16
INDS 477	Independent Study (in medical electronics)	2
INDS 499	Senior Problem	1
		85

Required Cognates:

BIOL 201, 202	Anatomy and Physiology	8
CHEM 101, 102	Introductory Chemistry I	8
CPTR 124	Introduction to BASIC	2
CPTR 215	Assembly Language Programming I	3
MATH 117 or MATH 121, 122	Precalculus	5-8
PHYS 211, 212, 213	Fundamentals of Mathematics I, II	
PHYS 214, 215, 216	General Physics	9
	General Physics Laboratory	3

MAJOR IN ELECTRONICS TECHNOLOGY (Bachelor of Science)

A student majoring in electronics technology must complete 63 quarter hours in the major, the required cognates and the general studies program for the baccalaureate degree as outlined in this bulletin. It is recommended that a minor in Business, Communications, Computer Science or Mathematics be chosen.

Major Requirements:

DRFT 236	Electrical and Electronic Drawing	3
ELCT 241, 242	Fundamentals of Electronics	10
ELCT 252, 253	Electronic Devices and Circuits	8
ELCT 297, 298	Electronics Fabrication	2
ELCT 351, 352	Radio Communications	8
ELCT 361	Linear Integrated Circuits	5
ELCT 362	Digital Integrated Circuits	5
ELCT 381, 382, 383	TV Systems and Circuit Analysis	9
ELCT 466	Computer Circuits and Systems	5
INDS 124	Introduction to Industry	1
INDS 277/477	Independent Study (in electronics)	3
INDS 499	Senior Problem	1
	Electives	3

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.

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INDUSTRIAL TECHNOLOGY

Required Cognates:

CPTR 124	Introduction to BASIC	2
or	Principles of BASIC	
CPTR 125	Assembly Language Programming I	3
CPTR 215	Precalculus	
MATH 117		5-8
or		
MATH 121, 122	Fundamentals of Mathematics	

MAJOR IN GRAPHICS TECHNOLOGY (Bachelor of Science)

A student majoring in graphics technology must complete 63 quarter hours in the major, the required cognates (choose either the commercial art or business emphasis) and the general studies program for the baccalaureate degree as outlined in this bulletin.

Major Requirements:

GRPH 154	Principles of Photography	2
GRPH 155	Principles of Photography Laboratory	1
GRPH 355	Applied Photography	3
INDS 124	Introduction to Industry	1
INDS 277/477	Independent Study (in graphics)	2
INDS 364	Industrial Safety	2
INDS 376	Technical Facility Planning	3
INDS 499	Senior Problem	1
PRNT 121	Introduction to Graphics Arts	3
PRNT 221, 222, 223	Offset Lithography	9
PRNT 241, 242	Letterpress Printing	6
PRNT 271, 272, 273	Machine Composition	6
PRNT 295	Printing Layout and Design	3
PRNT 326	Printing Estimating	3
PRNT 331	Advanced Halftone Photography	2
PRNT 421, 422	Advanced Lithography	6
	Electives	10
		63

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.

Required Cognates: (choose commercial art or business emphasis)

Commercial Art Emphasis:

ART 161, 162, 163	Design	9
ART 184, 185, 186	Introduction to Drawing	6
ART 244, 245, 246	Introduction to Commercial Art	6
ART 314, 315, 316	Advertising Design	9

Business Emphasis:

ACCT 121, 122, 123	Principles of Accounting	10
or	Principles of Accounting	
ACCT 125, 126	Managerial Cost Accounting	6
ACCT 331, 332		
or		6
CPTR 131	Data Processing	
and		
MGMT 375	Supervision	

INDUSTRIAL TECHNOLOGY

MGMT 171	Principles of Management	4
MGMT 275	Management of Small Businesses	4
MKTG 381 or MGMT 476	Marketing	
		}
	Human Relations in Management	4

MAJOR IN INDUSTRIAL TECHNOLOGY (Bachelor of Science)

A student majoring in industrial technology must complete 63 quarter hours in the major, the required cognates and the general studies program for the baccalaureate degree as outlined in this bulletin. This program offers considerable latitude in selection of courses, and is designed to provide the student with a broad background in industry and business.

Major Requirements:

DRFT 121, 122	Technical Drawing	6
DRFT 226 or DRFT 236	Architectural Drawing	
		}
	Electrical and Electronic Drawing	3
INDS 124	Introduction to Industry	1
INDS 221, 222, 223 or INDS 221 and INDS 355	Wood Products and Processes	
		}
	Wood Products and Processes	6-7
	Cabinet Construction	
INDS 241, 242, 243	Fabrication and Machining of Metals	6
INDS 364	Industrial Safety	2
INDS 499	Senior Problem	1
	Electives (22 must be upper division)	37-38

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman. 63

Required Cognates:

ACCT 121, 122, 123 or ACCT 125, 126	Principles of Accounting	
ACCT 331, 332 or CPTR 131 and MGMT 375	Managerial Cost Accounting	10
	Data Processing	
	Supervision	6
MGMT 171	Principles of Management	4
MGMT 275	Management of Small Businesses	4
MKTG 381 or MGMT 476	Marketing	
		}
	Human Relations in Management	4

MAJOR IN PLANT MAINTENANCE TECHNOLOGY (Bachelor of Science)

A student majoring in plant maintenance technology must complete 63 quarter hours in the major, the required cognates and the general studies program for the baccalaureate degree as outlined in this bulletin.

INDUSTRIAL TECHNOLOGY

Major Requirements:

AUTO 134	Internal Combustion Engine Theory	2
AUTO 135	Internal Combustion Engine Laboratory	1
AUTO 145	Power Train Theory	2
AUTO 146	Power Train Laboratory	1
AUTO 156	Fuel and Electrical Systems Theory	2
AUTO 157	Fuel and Electrical Systems Laboratory	1
DRFT 121	Technical Drawing	3
DRFT 226	Architectural Drawing	3
ELCT 221	Introduction to Electricity/Electronics	3
INDS 124	Introduction to Industry	1
INDS 134	Gas Welding Laboratory	1
INDS 135	Arc Welding Laboratory	1
INDS 137	Gas Welding Theory	1
INDS 138	Arc Welding Theory	1
INDS 221, 222, 223 or INDS 221 and INDS 355	Wood Products and Processes	6-7
INDS 241, 242, 243	Cabinet Construction	
INDS 324	Fabrication and Machining of Metals	6
INDS 328	Industrial Design	3
INDS 376	Applied Maintenance	6
INDS 386	Technical Facility Planning	3
INDS 499	Oil Hydraulics	3
	Senior Problem	1
	Electives (3-8 must be upper division)	11-12
Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.		63

Required Cognates:

ACCT 121, 122, 123 or ACCT 125, 126	Principles of Accounting	10
ACCT 331, 332 or CPTR 131 and	Managerial Cost Accounting	
MGMT 375	Data Processing	6
MGMT 171	Supervision	
MGMT 275	Principles of Management	4
MKTG 381 or MGMT 476	Management of Small Businesses	4
	Marketing	
	Human Relations in Management	4

AUTOMOTIVE TECHNOLOGY (Associate of Science)

A student specializing in automotive technology must complete the following 55 quarter hours and the general studies program for the associate degree as outlined in this bulletin.

INDUSTRIAL TECHNOLOGY

Area Requirements:

AUTO 134	Internal Combustion Engine Theory	2
AUTO 135	Internal Combustion Engine Laboratory	2
AUTO 145	Power Train Theory	2
AUTO 146	Power Train Laboratory	2
AUTO 156	Fuel and Electrical Systems Theory	2
AUTO 157	Fuel and Electrical Systems Laboratory	2
AUTO 286	Engine and Rebuilding Laboratory	2
AUTO 314	Engine Diagnosis and Tune-up	2
AUTO 315	Engine Diagnosis and Tune-up Laboratory	2
AUTO 345, 346	Automotive Service	4
AUTO 347, 348	Automotive Service Laboratory	4
AUTO 365	Diesel Engines	3
ELCT 221	Introduction to Electricity/Electronics	3
INDS 124	Introduction to Industry	1
INDS 277	Independent Study	2
INDS 364	Industrial Safety	2
INDS 386	Oil Hydraulics	3
	Electives	<u>15</u>

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.

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AVIATION TECHNOLOGY (Associate of Science)

A student specializing in aviation technology must complete the following 55 quarter hours and the general studies program for the associate degree as outlined in this bulletin.

Area Requirements:

AVIA 124	Introduction to Aviation	2
AVIA 141	Private Pilot Lectures	4
AVIA 142	Private Pilot Flight Training	5
AVIA 161, 162	Commercial Pilot Lectures	6
AVIA 221, 222, 223	Commercial Pilot Flight Training I, II, III	13
AVIA 236	Meteorology	3
AVIA 256	Principles of Aircraft Maintenance	3
AVIA 321	Instrument Pilot Lectures	4
AVIA 322	Instrument Pilot Flight Training	5
AVIA 357	Flight Instructor—Airplane Lecture	3
AVIA 358	Flight Instructor—Airplane Flight Training	3
INDS 124	Introduction to Industry	1
INDS 277	Independent Study	<u>3</u>

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CONSTRUCTION TECHNOLOGY (Associate of Science)

A student specializing in construction technology must complete the following 55 quarter hours and the general studies program for the associate degree as outlined in this bulletin.

INDUSTRIAL TECHNOLOGY

Area Requirements:

DRFT 226	Architectural Drawing	3
INDS 124	Introduction to Industry	1
INDS 151	Foundations and Framing	6
INDS 152	Building Materials and Mechanical Systems	6
INDS 153	Finish Carpentry	6
INDS 254	House Planning	5
INDS 324	Industrial Design	3
INDS 345	Finishing Materials and Methods	3
INDS 355	Cabinet Construction	5
INDS 356	Construction Management	3
INDS 364	Industrial Safety	2
INDS 398	Machine and Tool Maintenance	1
	Electives	<u>11</u>
	Electives	<u>55</u>

Electives must be chosen in consultation with and approved by the Academic adviser assigned by the department chairman.

GENERAL CONTRACTING (Associate of Science)

A student specializing in construction technology must complete the following 55 quarter hours and the general studies program for the associate degree as outlined in this bulletin.

Area Requirements:

ACCT 121, 122, 123	Principles of Accounting	10
or		
ACCT 125, 126	Principles of Accounting	
DRFT 226	Architectural Drawing	3
INDS 124	Introduction to Industry	1
INDS 151	Foundations and Framing	6
INDS 152	Building Materials and Mechanical Systems	6
INDS 153	Finish Carpentry	6
INDS 254	House Planning	3
INDS 324	Industrial Design	3
INDS 355	Cabinet Construction	3
INDS 356	Construction Management	3
INDS 364	Industrial Safety	2
INDS 398	Machine and Tool Maintenance	1
MGMT 275	Management of Small Businesses	4
	Electives	<u>4</u>
	Electives	<u>55</u>

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.

ELECTRONICS TECHNOLOGY (Associate of Science)

A student specializing in electronics technology must complete the following 55 quarter hours and the general studies program for the associate degree as outlined in this bulletin.

INDUSTRIAL TECHNOLOGY

Area Requirements:

DRFT 236	Electrical and Electronic Drawing	3
ELCT 241, 242	Fundamentals of Electronics	10
ELCT 252, 253	Electronic Devices and Circuits	8
ELCT 297, 298	Electronics Fabrication	2
ELCT 361	Linear Integrated Circuits	5
ELCT 362	Digital Integrated Circuits	5
ELCT 381, 382, 383	TV Systems and Circuit Analysis	9
ELCT 466	Computer Circuits and Systems	5
INDS 124	Introduction to Industry	1
INDS 277	Independent Study	3
	Electives	4

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.

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GRAPHICS TECHNOLOGY (Associate of Science)

A student specializing in graphics technology must complete the following 55 quarter hours and the general studies program for the associate degree as outlined in this bulletin.

Area Requirements:

GRPH 154	Principles of Photography	2
GRPH 155	Principles of Photography Laboratory	1
GRPH 355	Applied Photography	3
INDS 124	Introduction to Industry	1
INDS 364	Industrial Safety	2
INDS 376	Technical Facility Planning	3
PRNT 121	Introduction to Graphic Arts	3
PRNT 221, 222, 223	Offset Lithography	12
PRNT 241, 242	Letterpress Printing	6
PRNT 271, 272, 273	Machine Composition	9
PRNT 295	Printing Layout and Design	3
PRNT 331	Advanced Halftone Photography	2
	Electives	8

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.

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PLANT MAINTENANCE TECHNOLOGY (Associate of Science)

A student specializing in maintenance technology must complete the following 55 quarter hours and the general studies program for the associate degree as outlined in this bulletin.

Area Requirements:

AUTO 134	Internal Combustion Engine Theory	2
AUTO 135	Internal Combustion Engine Laboratory	1
AUTO 145	Power Train Theory	2
AUTO 146	Power Train Laboratory	1
AUTO 156	Fuel and Electrical Systems Theory	2
AUTO 157	Fuel and Electrical Systems Laboratory	1

INDUSTRIAL TECHNOLOGY

DRFT 121	Technical Drawing	3
DRFT 226	Architectural Drawing	3
ELCT 221	Introduction to Electricity/Electronics	3
INDS 124	Introduction to Industry	1
INDS 134	Gas Welding Laboratory	1
INDS 135	Arc Welding Laboratory	1
INDS 137	Gas Welding Theory	1
INDS 138	Arc Welding Theory	1
INDS 221, 222, 223 or INDS 221 and INDS 355	Wood Products and Processes } Wood Products and Processes } Cabinet Construction	6-7
INDS 241, 242, 243	Fabrication and Machining of Metals	6
INDS 324	Industrial Design	3
INDS 328	Applied Maintenance	6
INDS 386	Oil Hydraulics	3
	Electives	7-8
Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.		<u>55</u>

AUTO MECHANICS (Certificate)

A student taking auto mechanics must complete the following 38 quarter hours and the general studies courses for the certificate program as outlined in this bulletin.

Area Requirements:

AUTO 134	Internal Combustion Engine Theory	2
AUTO 135	Internal Combustion Engine Laboratory	2
AUTO 145	Power Train Theory	2
AUTO 146	Power Train Laboratory	2
AUTO 156	Fuel and Electrical Systems Theory	2
AUTO 157	Fuel and Electrical Systems Laboratory	2
AUTO 286	Engine Rebuilding Laboratory	2
ELCT 221	Electricity/Electronics	3
INDS 124	Introduction to Industry	1
INDS 134	Gas Welding Laboratory	1
INDS 135	Arc Welding Laboratory	1
INDS 137	Gas Welding Theory	1
INDS 138	Arc Welding Theory	1
	Electives	16
Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.		<u>38</u>

AVIATION (Certificate)

A student taking aviation must complete the following 38 quarter hours and the general studies courses for the certificate program as outlined in this bulletin.

INDUSTRIAL TECHNOLOGY

Area Requirements:

AVIA 141	Private Pilot Lectures	4
AVIA 142	Private Pilot Flight Training	5
AVIA 161, 162	Commercial Pilot Lectures I, II	6
AVIA 221, 222, 223	Commercial Pilot Flight Training I, II, III	13
AVIA 321	Instrument Pilot Lectures	4
AVIA 322	Instrument Pilot Flight Training	5
	Electives	1

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman. 38

CARPENTRY (Certificate)

A student taking carpentry must complete the following 38 quarter hours and the general studies courses for the certificate program as outlined in this bulletin.

Area Requirements:

DRFT 226	Architectural Drawing	3
INDS 124	Introduction to Industry	1
INDS 151	Foundations and Framing	6
INDS 152	Building Materials and Mechanical Systems	6
INDS 153	Finish Carpentry	6
INDS 398	Machine and Tool Maintenance	1
	Electives	15

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman. 38

ELECTRICITY/ELECTRONICS (Certificate)

A student taking electricity/electronics must complete the following 38 quarter hours and the general studies courses for the certificate program as outlined in this bulletin.

Area Requirements:

DRFT 236	Electrical and Electronic Drawing	3
ELCT 241, 242	Fundamentals of Electronics	10
ELCT 252, 253	Electronic Devices and Circuits	8
ELCT 297, 298	Electronics Fabrication	2
INDS 124	Introduction to Industry	1
INDS 277	Independent Study	2
INDS 328	Applied Maintenance	3
	Electives	9

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman. 38

INDUSTRIAL TECHNOLOGY

OFFSET COPY PREPARATION (Certificate)

A student taking offset copy preparation must complete the following 38 quarter hours and the general studies courses for the certificate program as outlined in this bulletin.

Area Requirements:

GRPH 154	Principles of Photography	2
GRPH 155	Principles of Photography Laboratory	1
GRPH 355	Applied Photography	3
INDS 124	Introduction to Industry	1
PRNT 121	Introduction to Graphic Arts	3
PRNT 221, 222	Offset Lithography	8
PRNT 241	Letterpress Printing	3
PRNT 271, 272, 273	Machine Composition	9
PRNT 295	Printing Layout and Design	3
	Electives	5

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department. 38

PLANT MAINTENANCE (Certificate)

A student taking plant maintenance must complete the following 38 quarter hours and the general studies courses for the certificate program as outlined in this bulletin.

Area Requirements:

AUTO 134	Internal Combustion Engine Theory	2
AUTO 135	Internal Combustion Engine Laboratory	1
AUTO 145	Power Train Theory	2
AUTO 146	Power Train Laboratory	1
AUTO 156	Fuel and Electrical Systems Theory	2
AUTO 157	Fuel and Electrical Systems Laboratory	1
DRFT 121	Technical Drawing	3
DRFT 226	Architectural Drawing	3
INDS 124	Introduction to Industry	1
INDS 134	Gas Welding Laboratory	1
INDS 135	Arc Welding Laboratory	1
INDS 137	Gas Welding Theory	1
INDS 138	Arc Welding Theory	1
INDS 221, 222, 223 or INDS 221 and INDS 355	Wood Products and Processes	6-7
INDS 241, 242, 243 INDS 328	Cabinet Construction Fabrication and Machining of Metals Applied Maintenance Electives	6 3 2-3

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman. 38

INDUSTRIAL TECHNOLOGY

PRINTING (Certificate)

A student taking printing must complete the following 38 quarter hours and the general studies courses for the certificate program as outlined in this bulletin.

Area Requirements:

INDS 124	Introduction to Industry	3	1
PRNT 121	Introduction to Graphic Arts	3	3
PRNT 221, 222, 223	Offset Lithography	3	12
PRNT 241, 242	Letterpress Printing	3	8
PRNT 272, 273	Machine Composition	3	4
PRNT 295	Printing Layout and Design	3	3
PRNT 331	Advanced Halftone Photography	2	2
	Electives		5

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman. 38

MINOR IN AVIATION

A student minoring in aviation must complete 30 quarter hours:

AVIA 124	Introduction to Aviation	2	
AVIA 141	Private Pilot Lectures	4	
AVIA 142	Private Pilot Flight Training	5	
	Electives (3 must be upper division)		19

Approval of aviation adviser required. 30

MINOR IN INDUSTRIAL ARTS EDUCATION

A student minoring in industrial arts education must complete 30 quarter hours:

DRFT 121, 122	Technical Drawing	6	
INDS 124	Introduction to Industry	1	
INDS 221, 222, 223	Wood Products and Processes	6	
INDS 374 or INDS 428	Foundations of Industrial Arts		2-3
	Handwork Activities in the Elementary School		
INDS 472	Methods of Course Organization	4	
INDS 477	Independent Study	1-3	
	Electives		7-10

Approval of industrial technology adviser required. 30

MINOR IN INDUSTRIAL TECHNOLOGY

A student minoring in industrial technology must complete 30 quarter hours:

DRFT 121	Technical Drawing	3	
INDS 124	Introduction to Industry	1	
	Electives (3 must be upper division)		

Approval of industrial technology adviser required. 30

AUTOMOTIVE (AUTO)

AUTO 114 INTRODUCTION TO AUTO MECHANICS	3
A study of the automobile with emphasis on general maintenance and service procedures. Specifically designed for the individual without an automotive background. Does not apply toward an Automotive Technology major. Two lectures and one laboratory per week. A	
AUTO 134 INTERNAL COMBUSTION ENGINE THEORY	2
A study of the internal combustion engine, including theory of operation, analysis of construction, working principles and components as applicable to gasoline and diesel engines. Two lectures per week. A	
AUTO 135 INTERNAL COMBUSTION ENGINE LABORATORY	1; 2
Familiarization with engine components through disassembly, inspection, measurement, servicing and reassembly of engines. Corequisite: AUTO 134. A	
AUTO 145 POWER TRAIN THEORY	2
A comprehensive study of the automotive power train system with emphasis on proper procedures in diagnosis, servicing and repair. Two lectures per week. W	
AUTO 146 POWER TRAIN LABORATORY	1; 2
Application of technical information and skills required to diagnose, service, adjust and perform test procedures on hydraulic brakes, air brakes, clutch assemblies, bearings, transmissions, auxiliary units, transfer cases, drive lines, universal joints and final drive assemblies. Corequisite: AUTO 145. W	
AUTO 156 FUEL AND ELECTRICAL SYSTEMS THEORY	2
Principles of fuel metering and induction/injection for spark-ignited and compression-ignited engines. Electrical systems topics include the study of the operating principles, diagnosis, service, adjustment and test procedures for automotive charging, cranking and ignition systems. Two lectures per week. S	
AUTO 157 FUEL AND ELECTRICAL SYSTEM LABORATORY	1; 2
Application of technical information and skills required to diagnose, service and adjust carburetion and injection fuel systems, automotive charging, cranking and ignition systems. Corequisite: AUTO 156. S	
AUTO 286 ENGINE REBUILDING LABORATORY	2
Experience in engine rebuilding which involves machining operations such as cylinder reconditioning, valve train servicing, lubrication and cooling system servicing. Two laboratories per week. Prerequisite: AUTO 134; AUTO 135. W	
AUTO 314 ENGINE DIAGNOSIS AND TUNE-UP	2
Study of logical diagnosis and troubleshooting techniques as applied to engine repair and tune-up. Theory and operation of emission control systems. Emphasis placed on use of electronic instrumentation as a diagnostic tool. Two lectures per week. Prerequisites: AUTO 134; AUTO 135; AUTO 156; AUTO 157. Corequisite: AUTO 315. A	
AUTO 315 ENGINE DIAGNOSIS AND TUNE-UP LABORATORY	1; 2
Application of diagnostic principles in troubleshooting repairs and tune-up of automotive engines. Includes experience with the Sun Road-A-Matic (a computerized dynamometer) and the Sun Model 1115 Performance Analyzer. Corequisite: AUTO 314. A	
AUTO 345, 346 AUTOMOTIVE SERVICE	2, 2
Instruction in automotive service operation as related to auto air conditioning, the power train, brake systems, suspension and wheel alignment and general services. Two lectures per week. Prerequisite: AUTO 145; AUTO 146. Corequisites: AUTO 347, 348. WS	
AUTO 347, 348 AUTOMOTIVE SERVICE LABORATORY	1; 2, 1; 2
Laboratory experiences for the Automotive Service class designed to acquaint the student with a broad range of "live" service experiences. Corequisite: AUTO 345, 346. WS	

INDUSTRIAL TECHNOLOGY

AUTO 365 DIESEL ENGINES

Instruction in diesel engine theory including types of engines, fuel injection systems, air induction systems, exhaust systems, cooling systems, starting and controls. Two lectures and one laboratory per week. Prerequisites: AUTO 156, 157; AUTO 286 recommended. S 3

AVIATION (AVIA)

AVIA 124 INTRODUCTION TO AVIATION

A study of aviation history and the development into the National Air Transportation System. Seventh-day Adventist uses and needs in the field of aviation with an introduction to the mission flying program of the church. A 2

AVIA 141 PRIVATE PILOT LECTURES

Basic concepts of aircraft performance, navigation, principles of flight and meteorology. Interpretation and application of Federal Aviation Regulations, uses of airman's publications and services. A or W 4

AVIA 142 PRIVATE PILOT FLIGHT TRAINING

Flight and ground instruction to prepare the student to take the Private Pilot flight test and meet requirements for the private certificate. A or W or S 5

AVIA 161 COMMERCIAL PILOT LECTURES I

Basic meteorology, aviation weather, airports and charts, commercial pilot maneuvers and advanced radio procedure, navigation procedures, analysis of maneuvers and advanced aircraft systems. W 3

AVIA 162 COMMERCIAL PILOT LECTURES II

Advanced aircraft performance, FAA regulations pertinent to commercial operations, review for FAA written examination. S 3

AVIA 221 COMMERCIAL PILOT FLIGHT TRAINING I

An introduction to commercial maneuvers and advanced procedures in flying and navigation. A or W or S 4

AVIA 222 COMMERCIAL PILOT FLIGHT TRAINING II

Procedures in cross country flying and night operations. A or W or S 4

AVIA 223 COMMERCIAL PILOT FLIGHT TRAINING III

Training to develop a superior pilot by perfecting coordination, judgment and flying ability. Prepares student for the commercial flight test. A or W or S 5

AVIA 236 METEOROLOGY

The nature of the atmosphere, winds, moisture, temperature, air masses and fronts. Weather forecasting with emphasis on aviation weather. Designed for pilots but open to any student. S 3

AVIA 256 PRINCIPLES OF AIRCRAFT MAINTENANCE

A study of the routine maintenance and inspections that can be performed by the pilot. Taught alternate years. W 3

AVIA 321 INSTRUMENT PILOT LECTURES

A review of aerodynamics, performance, weight and balance, meteorology and computer usage especially as they apply to instrument flight. A detailed study of IFR charts, regulations and procedures. W 4

AVIA 322 INSTRUMENT PILOT FLIGHT TRAINING

A course to prepare the student to meet the experience, knowledge and skill requirements for the FAA instrument rating. A or W or S 5

AVIA 357 FLIGHT INSTRUCTOR—AIRPLANE LECTURES

A course designed to prepare the student to pass the Federal Aviation Administration (FAA) Flight Instructor written examination. The student will learn the fundamentals of instructing and the analysis and performance of maneuvers. Concepts of aircraft performance and the interpretation and application of pertinent FAA regulations are also emphasized. A 3

INDUSTRIAL TECHNOLOGY

AVIA 358 FLIGHT INSTRUCTOR—AIRPLANE FLIGHT TRAINING 3

A course designed to prepare the student to successfully meet the experience, knowledge and skill requirements for the Federal Aviation Administration Flight Instructor Certificate (airplane rating). The minimum standards for acceptable performance are found in the FAA Flight Instructor Practical Test Guide. A

AVIA 457 FLIGHT INSTRUCTOR—INSTRUMENT LECTURES 2

A course designed to prepare the student to pass the Federal Aviation Administration (FAA) Flight Instructor Instrument written examination. The student will learn the fundamentals of instrument instruction. A or W or S

AVIA 458 FLIGHT INSTRUCTOR—INSTRUMENT FLIGHT TRAINING 3

A course designed to prepare the student to successfully meet the experience, knowledge and skill requirements for an FAA Flight Instructor Certificate (instrument rating). A or W or S

DRAFTING (DRFT)

DRFT 121, 122 TECHNICAL DRAWING 3, 3

Care and use of instruments; technical sketching, geometry; orthographic, auxiliary and sectional views; production drawings, pictorial views and developments and intersections—application to practical problems with emphasis on visualization and analysis. Must be taken in sequence. One lecture and three two-hour laboratories per week. AW

DRFT 226 ARCHITECTURAL DRAWING 3

The fundamentals of designing and drawing house plans including architectural drafting techniques, area planning, floor plans, elevations, sections, schedules and specifications. One lecture and one two-hour laboratory per week. Additional laboratory time arranged. S

DRFT 236 ELECTRICAL AND ELECTRONIC DRAWING 3

A specialized course in drafting with emphasis on basic concepts and techniques of delineation of electrical and electronic circuits. Instruction includes schematics, assembly drawings, production illustrations, printed circuitry, interconnection diagrams, graphs and charts. One lecture and one two-hour laboratory per week. Additional laboratory time arranged. Taught alternate years. S

ELECTRONICS (ELCT)

ELCT 221 INTRODUCTION TO ELECTRICITY/ELECTRONICS 3

An introductory course for the nonelectronics major designed to introduce the student to electrical fundamentals, electric motors and generators, basic wiring, diodes and transistors and basic troubleshooting techniques. Two lectures and one laboratory per week. A

ELCT 241, 242 FUNDAMENTALS OF ELECTRONICS 5, 5

A comprehensive course in the fundamentals of electronics technology designed for both preparatory electronics teachers and technology majors. Included in the study are DC and AC circuits, resonance, filters, electronic measurements and an introduction to solid-state devices. Four lectures and one laboratory per week. AW

ELCT 252, 253 ELECTRONIC DEVICES AND CIRCUITS 4, 4

Introduction to solid-state devices, analytical and graphical analysis of diode characteristics and diode circuit applications. Three-terminal solid-state devices, concept of amplification, switching, biasing and graphical analysis. Analysis of A.C. small and large signal conditions, bias stability, use of load lines in amplifier analysis and design. Introduction to integrated circuits. Three lectures and one laboratory per week. Prerequisite: ELCT 241; pre- or corequisite: ELCT 242. WS

ing student to utilize their own electronic laboratory, utilizing various software packages to draw mechanical, electrical, control, and P&ID diagrams.

INDUSTRIAL TECHNOLOGY

INDS 134 GAS WELDING LABORATORY	1
Laboratory course involving basic instruction and experience in gas welding. Recommended corequisite: INDS 137. One laboratory per week. A or W or S	
INDS 135 ARC WELDING LABORATORY	1
Laboratory course involving basic instruction and experience in arc welding. Recommended corequisite: INDS 138. One laboratory per week. A or W or S	
INDS 136 SPECIALIZED WELDING LABORATORY	1
Laboratory course involving basic instruction and experience in specialized welding including metallic inert gas (MIG) and tungsten inert gas (TIG). Recommended corequisite: INDS 139. Prerequisite: INDS 135. One laboratory period per week. A or W or S	
INDS 137 GAS WELDING THEORY	1
Individualized units in gas welding theory. A or W or S	
INDS 138 ARC WELDING THEORY	1
Individualized units in arc welding theory. A or W or S	
INDS 139 SPECIALIZED WELDING THEORY	1
Individualized units in specialized welding theory including metallic inert gas (MIG) and tungsten inert gas (TIG). A or W or S	
INDS 151 FOUNDATIONS AND FRAMING	3; 6
Basic introduction to concrete work and residential foundations. Theory and practice in floor, wall, roof framing and stair construction provides experience with, and an understanding of the tools and equipment used by a carpenter. Two lectures and one laboratory per week; an option designed primarily for those in the associate degree and certificate programs provides for an additional three laboratories per week. A	
INDS 152 BUILDING MATERIALS AND MECHANICAL SYSTEMS	3; 6
An opportunity to study and use construction lumber, wood products and substitutes, insulation, hardware and finishing materials. The student examines the relationship of the mechanical systems; heating, cooling, plumbing and electrical to the overall construction process. Two lectures and one laboratory per week; an option designed primarily for those in the associate degree and certificate programs provides for an additional three laboratories per week. W	
INDS 153 FINISH CARPENTRY	3; 6
Theory and practice in the application of interior and exterior finishing products and processes. A study of various types of doors and windows is included followed by experience with installation procedures. Two lectures and one laboratory per week; an option designed primarily for those in the associate degree and certificate programs provides for an additional three laboratories per week. S	
INDS 221, 222, 223 WOOD PRODUCTS AND PROCESSES	2, 2, 2
An introduction to wood products and processes incorporating uses of basic tools and machines as found in the wood industries. Includes planning and construction of simple furniture. One lecture and one laboratory per week. AWS	
INDS 241, 242, 243 FABRICATION AND MACHINING OF METALS	2, 2, 2
An overview study of metals and metal operations utilizing both theory and practice of:	
INDS 241 —Basic lathe and drill press operations involving metal cutting and measurement, and	
INDS 242 —Various assembly methods including forging, heat treatment, molding, pouring, filing, bending and offhand grinding, and	
INDS 243 —associated and succeeding operations such as threading, tapering, testing, reaming, riveting and use of jigs. Prerequisite: INDS 241.	
Projects selected incorporate the operations taught and involve "running" of various pieces of equipment common to a basic machine laboratory. One lecture and one laboratory per week. AWS	

INDS 254 HOUSE PLANNING	3; 5
A study of home styles and architectural styles and their application to the choice of site location and plot development. Mechanical design factors will be studied in relation to building codes. Laboratory experience emphasizes site planning and development as well as basic planning and design of major house construction members such as trusses, beams, posts, headers, etc. Two lectures and one laboratory per week, an option designed primarily for those in the associate degree and certificate programs provides for an additional three laboratories per week. Recommended prerequisite or corequisite: DRFT 226. A	
INDS 324 INDUSTRIAL DESIGN	3
Principles of design as applied to the various industrial arts, including theory of color and study of major periods and styles of furniture. W	
INDS 328 APPLIED MAINTENANCE	1-6
Practical, on-the-job experience for students of Plant Maintenance Technology in the following areas: power plant, painting, carpentry-cabinetmaking, plumbing, electrical, refrigeration, air conditioning, locksmithing-door hardware, heavy equipment and motor pool. Selected in consultation with adviser. One laboratory per week per quarter. One or two hours per quarter; maximum, six. A or W or S	
INDS 341, 342, 343 FURNITURE DESIGN AND CONSTRUCTION	3, 3, 3
Design and fabrication of complex furniture including cabinet, door and drawer construction, special machine operations, jigs and fixtures, and machine adjustment. Prerequisite: INDS 223. Two lectures and one laboratory per week. Taught alternate years. AWS	
INDS 345 FINISHING MATERIALS AND METHODS	3
Composition and application of finishing materials, including selection and care of equipment. Two lectures and one laboratory per week. Taught alternate years. W	
INDS 355 CABINET CONSTRUCTION	3; 5
Study and production of various cabinet and cupboard styles using a number of produced jigs and fixtures. Opportunity to produce custom designed cabinets will be given. Two lectures and one laboratory per week; an option designed primarily for those in the associate degree and certificate programs provides for an additional three laboratories per week. Prerequisite: INDS 151 or INDS 221. W	
INDS 356 CONSTRUCTION MANAGEMENT	3
An opportunity to study and gain experience with working drawings, specifications, estimating and bidding, scheduling and the financing of construction projects. Two lectures and one laboratory per week. Prerequisite or corequisite: INDS 153. S	
INDS 364 INDUSTRIAL SAFETY	2
An introduction to federal, state and local safety codes applying to materials, material handling and equipment commonly encountered by the industrial technologist. Codes from Occupational Safety and Health Act (OSHA), Washington Industrial Safety and Health Act (WISHA), National Fire Protective Association (NFPA) and Department of Transportation (DOT) will be used as instructional resource material. A	
INDS 374 FOUNDATIONS OF INDUSTRIAL ARTS	2
The underlying foundations of Industrial Arts in both public and Seventh-day Adventist secondary schools. Emphasis on management, professional growth, legislation and basic organization of industry. A	
INDS 376 TECHNICAL FACILITY PLANNING	3
Technical facility planning involving space considerations, structures, environment, service systems, storage and production flow patterns. W	
INDS 381, 382, 383 MACHINE TOOL OPERATION	3, 3, 3
Advanced processes of turning and handwork together with operations involving milling, shaping, planing, grinding, cutter sharpening, gear calculations and gear cutting, assigned exercises. Prerequisite: INDS 241, 243 or equivalent. Two classes and one laboratory per week. AWS	

INDUSTRIAL TECHNOLOGY

INDS 386 OIL HYDRAULICS

A study of the principles of pressure and flow, operation of basic hydraulic components, how the various components perform, fundamental hydraulic equipment design, and use and maintenance. S 3

INDS 398 MACHINE AND TOOL MAINTENANCE

1-2

Methods of care and maintenance of tools, machines and supplementary equipment. Selection may be made in any field offered. Prerequisite: adequate background in chosen fields. One laboratory per credit per week. One or two hours any quarter; maximum, two. A or W or S

INDS 428 HANDWORK ACTIVITIES IN THE ELEMENTARY SCHOOL

3

Study of handwork activities as applied to the elementary grades K-8. Emphasis is on methods of application, materials and processes. Taught alternate years. A

INDS 472 METHODS OF COURSE ORGANIZATION

4

Procedures of systematic course preparation including analysis of course of study outline, relation of lesson units and methods of teaching unique to Industrial Arts. Required prior to directed teaching. W

INDS 490 COOPERATIVE STUDY PROGRAM

1-6

Open to students who have completed courses in industrial technology and wish to develop proficiency beyond the scope of the laboratory experience. The course will consist of a systematic study contract with periodic job-site visits by the departmental supervisor. Admission only by permission of the department chairman. Application must be made during the first two weeks of the quarter immediately preceding the cooperative study program. A or W or S

INDS 499 SENIOR PROBLEM

1

A student-selected, departmental-approved research, experiment, project or a problem to demonstrate ability to perform in the major field of instruction that has been followed, and from which graduation is sought. Satisfactory completion of this course constitutes the department's comprehensive degree requirement for those majors in which it is required. Approximately two quarters are required for completion. The student must arrange for this course with his departmental adviser during the first two weeks of the quarter prior to the quarter in which he plans to do his senior project. A or W or S

PRINTING (PRNT)

PRNT 121 INTRODUCTION TO GRAPHIC ARTS

3

Basic introduction to all the principal methods of printing, with special emphasis on providing a background in composition, typographical design and simple presswork. Two lectures and one laboratory per week. A

PRNT 221, 222, 223 OFFSET LITHOGRAPHY

3, 3, 3/4, 4, 4

Copy preparation, offset photography, plate making and presswork. Two lectures and one laboratory per week. An option designed primarily for those in the associate degree and certificate programs provides four hours per quarter by attending two lectures and two laboratories per week. Prerequisite or corequisite: PRNT 121. AWS

PRNT 241, 242 LETTERPRESS PRINTING

3, 3/4, 4

Hand-fed and automatic presswork, including imposition, makeready, care and operation of equipment for numbering, perforating, scoring, die cutting, folding and other processes of printing production. Two lectures and one laboratory per week. An option designed primarily for those in the associate degree and certificate programs provides four hours per quarter by attending two lectures and two laboratories per week. Prerequisite: PRNT 121 or equivalent. WS

INDUSTRIAL TECHNOLOGY

PRNT 271, 272, 273 MACHINE COMPOSITION	2, 2, 2/3, 3, 3
Care and operation of computerized phototypesetting machines with an introduction to strike-on and hot-metal composers. Main emphasis on the Compuwriter II, but includes practice on Varityper, IBM, Linotype and Intertype machines. One lecture and one laboratory per week. An option designed primarily for those in the associate degree and certificate programs provides three hours by attending one lecture and two laboratories per week. Prerequisite or corequisite: PRNT 121 or equivalent. Also must be able to demonstrate a typing proficiency of at least 35 words per minute. AWS	
PRNT 295 PRINTING LAYOUT AND DESIGN	3
Basic principles of design as applied to composition, layout and arrangement in printing. Lectures, demonstrations and assigned individual and group projects. Prerequisite: PRNT 121. W	
PRNT 326 PRINTING ESTIMATING	3
Supplies, inventory control, pricing and estimating as applied to a commercial printing plant. Prerequisites: PRNT 223 and PRNT 242. Taught alternate years. S	
PRNT 331 ADVANCED HALFTONE PHOTOGRAPHY	2
Special techniques of making quality halftones with particular consideration given to such variables as picture type, quality and printing paper. Also studied are techniques of posterization and the making of duotones. One lecture and one laboratory per week. Prerequisite: PRNT 223. A	
PRNT 421, 422 ADVANCED LITHOGRAPHY	3, 3
Opportunity for advanced projects in lithographic printing with emphasis on duotones, posterization and process color work. Prerequisite: PRNT 223 or equivalent. Taught alternate years. AW	





INTERDISCIPLINARY PROGRAMS

BIOPHYSICS

C. Barnett (Physics), D. Rigby (Biology), Academic Advisers.

The biophysics major is offered cooperatively by the departments of biology and physics. For entrance, 30 semester periods of secondary mathematics chosen from algebra, plane and solid geometry and trigonometry are required.

MAJOR IN BIOPHYSICS (Bachelor of Science)

A student majoring in biophysics must complete 33 quarter hours in biology and 38 quarter hours in physics, the required cognates and the general studies program for the baccalaureate degree as outlined in this bulletin. GRE in physics and biology is required. One summer term at the Marine Station is required.

Biology Requirements:

BIOL 101, 102, 103	General Biology	12
BIOL 251	Research Methods I	1
BIOL 261 or BIOL 266	Genetics Developmental Biology	4
BIOL 392	Cell Physiology	4
BIOL 393 or BIOL 401	Animal Physiology Plant Physiology	4-5
BIOL 468	Comparative Physiology	
BIOL 352, 353, 354	Research Methods II, III, IV	3
BIOL 446	General Ecology	4
BIOL 455	Research Methods V	1
BIOL 495	Colloquium*	0
<i>*Required each quarter of juniors and seniors while in residence.</i>		33-34

Physics Requirements:

CPTR 374	Simulation and Modeling	3
PHYS 115, 116	Introduction to Experimentation	2
PHYS 251, 252, 253	Principles of Physics	9
PHYS 254, 255, 256	Principles of Physics Laboratory	3
PHYS 311	Modern Physics	3
PHYS 313	Thermodynamics	4
PHYS 314	Modern Physics Laboratory	1
PHYS 316	Optics Laboratory	1
PHYS 317, 318, 319	Physics Seminar I	3
PHYS 321, 322	Optics	6
PHYS 417, 418, 419	Physics Seminar II	3
		38

INTERDISCIPLINARY PROGRAMS

Required Cognates:		
CHEM 141, 142, 143	General Chemistry	12
CHEM 321, 322, 323 or	Organic Chemistry } Physical Chemistry } Principles of BASIC }	12
CHEM 351, 352, 353		
CPTR 125 or		
CPTR 134	Introduction to Computing	2-3
ENGR 224 and	Circuit Analysis I }	
ENGR 324 or	Instrumentation }	5-7
BIOL 470	Marine Biophysics	
MATH 181, 281	Analytic Geometry and Calculus I, II	8
MATH 282, 283	Analytic Geometry and Calculus III, IV	8
MATH 311	Probability and Statistics	4

HONORS PROGRAM

G. Johnson, Chairman; T. Anderson, R. Blaich, J. Brunt, R. Emmerson, H. Phillips, M. Scriven.

The general studies honors program is a grouping of interdisciplinary courses stressing independent research, writing and discussion. Honors courses, exclusive of HONR 351, 352, 353 will satisfy general studies requirements for the baccalaureate degree. Although a separate track in general studies, the honors program is a part of general studies and not a major or minor in itself. Students who complete a minimum of 30 quarter hours of honors courses will be designated as "General Studies Honors Graduates."

Financial Incentive. Upon completion of the 30 quarter hours of general studies courses, students will be awarded a six-quarter-hour tuition grant. The chairman of the Honors Committee will be responsible for verifying each student's completion of the program and notifying the vice president for academic affairs.

Admission Requirements. Students with a secondary school grade-point average of 3.3 or higher (on basics and on overall classes) may apply for admission to the Honors Committee to participate in the honors curriculum. Others may petition for entrance to the program by presenting alternative supporting data such as National Merit Scholar scores, if they have yet to complete 30 of the scheduled quarter hours. The Honors Committee will review all applications and supporting data and notify those students who are accepted. In addition to grade-point average, admissions criteria include recommendations from teachers and others qualified to speak to a student's academic ability; Washington Pre-College Test scores or equivalent; a statement of purpose in seeking admission to the honors program as well as submission to other evidence of special ability if available; and an interview at the discretion of the Honors Committee.

Withdrawal from the Program. Students may withdraw from the curriculum at any time. They may not opt for Satisfactory/No Credit (S/NC) grades for any honors course. The grade-point average for honors students opting for S/NC grades in other courses will be figured on the basis of the letter grades submitted by the teacher. An honors student who receives a grade-point average of less than 3.0 for two successive quarters in either the honors curriculum or the remainder of his curriculum must withdraw from the program.

GENERAL STUDIES HONORS PROGRAM

A student must complete at least 30 quarter hours of honors courses including HONR 351, 352, 353 and maintain a grade-point average of at least 3.0 in both honors and nonhonors courses. Approval of an honors adviser required.

HIST 131, 132, 133	*Western Thought I (Honors)	12
ENGL 141, 142	College Writing (Honors)	8
SOCI 249 or (RELB 249)	Religion in a Social Context (Honors)	4
RELB 281, 282, 283	The New Testament and Its Environment (Honors)	6
ENGL 311, 312, 313	**Western Thought II (Honors)	12
HONR 351, 352, 353	Honors Colloquium	3

*Equivalent to 8 quarter hours of HIST 121, 122 and 4 quarter hours of ENGL 207.

**Equivalent to MUHL 124, ART 251 and ENGL 204.

HONORS COURSES

HIST 131, 132, 133 WESTERN THOUGHT I (HONORS) 4, 4, 4

An integration of Western Civilization and World Literature with added emphasis on philosophical concepts and their relationships to events. Corollary reading will emphasize the history and philosophy of science. (8 quarter hours are considered to be equivalent to HIST 121, 122; 4 quarter hours are considered to be equivalent to ENGL 207).

ENGL 141, 142 COLLEGE WRITING (HONORS) 4, 4

An honors course designed to integrate reading and writing assignments with the requirements of the honors courses.

SOCI 249 RELIGION IN A SOCIAL CONTEXT (HONORS) [or RELH 249] 4

A study of religion in its social setting including the nature and role of religious symbol systems, the importance of religion in the creation of social values, the function of religion in social change and the institutionalization of religion.

RELB 281, 282, 283 THE NEW TESTAMENT AND ITS ENVIRONMENT (HONORS) 2, 2, 2

A study of certain New Testament themes in the light of first century Jewish and Hellenistic culture and thought. This course is designed for honors students and is open to other students only by special permission of the instructor. RELB 281 is a prerequisite for either RELB 282 or 283.

ENGL 311, 312, 313 WESTERN THOUGHT II (HONORS) 4, 4, 4

Using a historical approach, this course shows interrelationships among the creative arts of the Western World and between those arts and the ideas generating them. Equivalent to MUHL 124; ART 251 and ENGL 204. Prerequisite: HIST 131, 132, 133.

HONR 351, 352, 353 HONORS COLLOQUIUM 1, 1, 1

A research course designed to stimulate interdisciplinary independent study. Students will share the results of reading and research through formal presentation of papers.

HUMANITIES

R. Emmerson, chairman (English), R. Henderson (History), D. Shultz (Music), K. MacKintosh (Art).

The humanities major is an interdisciplinary study designed for those who especially enjoy the themes and values of the humanities — in history, the visual arts, music, philosophy and literature. It provides a content area for those interested in teaching at the secondary level and a second major for those wanting to teach in elementary school. The humanities major also is an excellent major for preprofessional students, especially those planning to study medicine or law.

MAJOR IN HUMANITIES (Bachelor of Arts)

A student majoring in humanities must complete the core requirements, the required cognates, one concentration which must be chosen in consultation with the humanities adviser and the chairman of the specific area, and the general studies program for the baccalaureate degree as outlined in this bulletin.

Core Requirements:

ART 251	Introduction to Art	4
ENGL 205	Masterpieces of American Literature	
ENGL 206	Masterpieces of English Literature	8
ENGL 207	Masterpieces of World Literature	
ENGL	One upper-division literature course	4
HIST 121, 122	Western Civilization	8
HIST 465	Renaissance and Reformation	4
HMNT 496	Seminar in Humanities	3
MUHL 124	Introduction to Music	4
PHIL 205	Introduction to Philosophy	4
		39

Required Cognates:

ANTH 225 or SOCI 454	Cultural Anthropology	3-4
BIOL 407 or ENGR 344	History of Social Thought	
PSYC 444 or PSYC 446	Philosophy of Science	4
RELH 403 or RELT 412	Environment and Man	
	Social Psychology	3
	Psychology of Personality	
	World Religions	2-3
	Philosophy of Religion	
	Modern Language: Intro/Elem/Intermed	12

INTERDISCIPLINARY PROGRAMS

Concentration: English

ENGL 234	Literary Analysis and Research	4
ENGL 445	Shakespeare	3
ENGL 455	Classical Backgrounds	3
ENGL	Upper-division literature	10

Concentration: Fine Arts (8 quarter hours must be upper division)

ART 324, 325, 326	History of Art (recommended)	
MUHL 134	Art of Listening (recommended)	
MUHL 231, 232, 233 or	History of Music I	20
MUHL 331, 332, 333	History of Music II	
MUED 434	Philosophy of Music and Music Education (recommended) (Four quarter hours may be taken in applied music and studio art)	

Concentration: History (12 quarter hours must be upper division)

HIST 221, 222	History of the United States	8
HIST 457	Social and Intellectual History of the United States (recommended)	
PLSC 424, 425	Western Political Thought (recommended)	12

Concentration: Modern Languages

FREN 301, 302, 303	Survey of French Literature	
FREN 407	17th and 18th Century French Literature	
FREN 408	19th Century French Literature	
FREN 409 or	20th Century French Literature	14-20
GRMN 311, 312, 313	Survey of German Literature	
GRMN 421	18th Century German Literature	
GRMN 422	19th Century German Literature	
GRMN 423	20th Century German Literature	
or		
SPAN 324, 325, 326	Survey of Spanish Literature	
SPAN 424, 425, 426	Contemporary Spanish Literature	
SPAN 431, 432, 433	Latin-American Literature	
FREN 427, 428, 429 or	French Cultural and Civilization	
GRMN 314, 315 or	German Civilization	0-6
SPAN 331	Spanish-American Culture and Civilization	

Concentration: Philosophy

BIOL 407	Philosophy of Science	
PHIL 206	Introduction to Logic	
PHIL 305	Moral Philosophy	
PHIL 306	History of Philosophy I	
PLSC 424, 425	Western Political Thought	20
RELT 412	Philosophy of Religion	

HUMANITIES (HMNT)**HMNT 496 SEMINAR IN HUMANITIES**

3

An interdisciplinary research course required of humanities majors. The study includes practice in bibliography and research methods, problems in areas of special interest to class members, group conferences and reports.

MEDICAL TECHNOLOGY

R. Rittenhouse, Academic Adviser

The major in medical technology involves three years of preclinical education on the Walla Walla College campus and 12 months of additional education in a clinical laboratory, generally in a school affiliated with Walla Walla College. Upon completion of the fourth year, the student may receive a Bachelor of Science degree from Walla Walla College.

Applicants to schools of medical technology are selected on the basis of such qualities as scholarship, integrity, dependability, manual dexterity and motivation for medical technology. To be competitive, an applicant for the clinical program should have a minimum grade-point average of 2.70. Above-average academic achievement in preclinical chemistry courses is especially significant.

Portland Adventist Medical Center has established a scholarship program for third- and fourth-year students in medical technology. Students wishing to participate in this program need to make application at the Student Financial Aids office in their sophomore year or during the last preclinical year before entering the clinical program.

MAJOR IN MEDICAL TECHNOLOGY (Bachelor of Science)

A student majoring in medical technology must complete 144 quarter hours of interdisciplinary courses including the general studies requirements for the baccalaureate degree as outlined in this bulletin (30 quarter hours must be upper division), in addition to a 12-month (48 quarter hours) clinical experience.

BIOL 101, 102, 103	General Biology	12
BIOL 222	Microbiology	
or		
BIOL 465	Bacteriology	5
BIOL 201, 202	Anatomy and Physiology	
or		
BIOI 392, 393	Cell and Animal Physiology	8
CHEM 141, 142, 143	General Chemistry	12
CHEM 264	Analytical Chemistry	4
CHEM 321, 322, 323	Organic Chemistry	12
MATH 121, 122	Fundamentals of Mathematics, I, II	
or		
MATH 181	Analytic Geometry and Calculus I	4-8

INTERDISCIPLINARY PROGRAMS

PHYS 211, 212, 213	General Physics	9
PHYS 214, 215, 216	General Physics Laboratory	3
PSYC 130	General Psychology	4
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		73-77

MEDICAL TECHNOLOGY and CLINICAL CHEMISTRY

R. Rittenhouse, Academic Adviser

MAJOR IN MEDICAL TECHNOLOGY and CLINICAL CHEMISTRY (double major)(Bachelor of Science)

A student majoring in clinical chemistry and medical technology must complete 99 quarter hours of interdisciplinary courses. Students will share the results of reading and research through formal courses as listed below, and the general studies program for the baccalaureate degree as outlined in this bulletin in addition to a 12-month (48 quarter hours) clinical experience.

BIOL 101, 102, 103	General Biology	12
BIOL 222 or BIOL 465	Microbiology } Bacteriology } Anatomy and Physiology } Cell Physiology } Animal Physiology }	5
BIOL 201, 202 or BIOL 392 and BIOL 393		8
CHEM 141, 142, 143 CHEM 264, 265, 266 CHEM 321, 322, 323 CHEM 351, 352, 353	General Chemistry Analytical Chemistry Organic Chemistry Physical Chemistry	12 10 12 12
MATH 121, 122 MATH 181, 281	Fundamentals of Mathematics I, II Analytic Geometry and Calculus I, II	8 8
PHYS 211, 212, 213 PHYS 214, 215, 216	General Physics General Physics Laboratory	9 <hr/> 3
		99

PHILOSOPHY

H. Phillips, Chairman; C. Barnett, R. Emmerson, L. Glaim, D. Maxwell, G. Schoepflin, G. Winslow.

Philosophy courses should, in their manner and subject matter, clearly make for an understanding of and appreciation for philosophy as a distinct mode of inquiry.

INTERDISCIPLINARY PROGRAMS

PHILOSOPHY (PHIL)

PHIL 205 INTRODUCTION TO PHILOSOPHY

4

Nature and place of philosophy in human thought; its traditional as well as its more recent concerns and approaches. (Readings from selected writings — classical and other — and practice in language analysis).

PHIL 206 INTRODUCTION TO LOGIC

4

Inquiry into the nature of argument, inference, proof, etc., and practice with formal and symbolic structures.

PHIL 305 MORAL PHILOSOPHY

4

A philosophical investigation of major moral concepts such as duty, the good, the right, the just and their application to problems concerning the individual and society. Readings will include the works of moral philosophers, both ancient and modern.

PHIL 306 HISTORY OF PHILOSOPHY I

4

An advanced study of major philosophers and philosophical movements from the Pre-Socratics to Modern Philosophy. Extensive reading in primary and secondary sources, including works of Plato, Aristotle, Augustine and Aquinas.

PHIL 407 PHILOSOPHY OF SCIENCE (or BIOL 407)

4

See the Biology section of this bulletin.

PHIL 412 PHILOSOPHY OF RELIGION (or RELT 412)

4

See the Religion section of this bulletin.

PHIL 424, 425 WESTERN POLITICAL THOUGHT (or PLSC 424, 425)

4, 4

See the History section of this bulletin.

TEACHING-LEARNING CENTER

M. Glaim, Director

All Walla Walla College students may use the services of the Teaching-Learning Center. Students may go to the center, free of charge, to get individualized help with writing, grammar, spelling, reading, mathematics and study skills. (Students may take up to six hours of developmental reading for elective credit.) The center also offers free tutoring for freshman and sophomore classes. Students may sign up for individual tutoring, or they may attend the drop-in sessions for mathematics, chemistry, biology and accounting. The center, which is open six days a week, also offers free mini-courses on a variety of topics.

READING (RDNG)

RDNG 100 DEVELOPMENTAL READING

2, 2, 2; 6

An individualized course in reading and study skills essential for success in college studies. Fall quarter: emphasis on study skills and the building of vocabulary. Winter quarter: emphasis on comprehension, reading rate and the correction of inefficient reading habits. Spring quarter: emphasis on taking notes and adapting a flexible reading rate to various reading materials. This course may be taken for up to six quarter hours during three quarters.

LIBRARY SCIENCE

E. Mabley, Chairman; M. Gilliland, C. Gaskell, S. Graves, L. Johnston.

The minor in library science is designed to provide the knowledge basic to the organization and management of learning resource centers in elementary and secondary schools, to provide training preparatory to employment as a library technician, or to provide a preprofessional curriculum as preparation for graduate work in library science.

MINOR IN LIBRARY SCIENCE:

A student minoring in library science must complete 30 quarter hours:

LIBR 111	Introduction to Library Resources	2
LIBR 232	Information Resources I	3
LIBR 261	Cataloging and Classification I	4
LIBR 385	Selection and Acquisition of Library Materials	3
	Electives	<u>18</u>
		30

LIBRARY SCIENCE (LIBR)

LIBR 111 INTRODUCTION TO LIBRARY RESOURCES

2

Introduction to libraries and how to use their resources effectively for research purposes; a survey of procedures for the systematic search for information. Oriented to the general academic needs of lower- and upper-division students, and provides opportunity to emphasize the bibliography of their major or minor.

LIBR 232 INFORMATION RESOURCES I

3

Evaluation and use of formal resource materials in meeting the information and educational needs of a library clientele; analysis of concepts and principles of bibliographic organization and control. Prerequisite: LIBR 111.

LIBR 261 CATALOGING AND CLASSIFICATION I

4

An introduction to principles, techniques and practices of cataloging and classifying materials for use in instructional materials centers. Laboratory required.

LIBR 288 STORYTELLING

2

Consideration of the place of storytelling in the educational process; selection, preparation and presentation of diversified materials.

LIBR 374 LIBRARY MATERIALS FOR CHILDREN

3

An overview designed to develop the ability to choose library materials according to the child's needs, interests and abilities. There will be extensive reading/listening/viewing and sharing of children's learning resources from numerous subject areas. Credit will not be allowed for both LIBR 374 and ENGL 374.

LIBR 385 SELECTION AND ACQUISITION OF LIBRARY MATERIALS

3

Development of materials selection criteria and policies; overview of the process of building and maintaining library collections; appraisal of current and retrospective selection tools and reviewing media; survey of current publishing world; study of library acquisition procedures; and techniques of handling censorship.

LIBR 456 ADMINISTRATION OF SCHOOL LIBRARIES

3

General principles of administration; application of techniques to the organization and management of the school library.

LIBR 472 METHODS OF LIBRARY INSTRUCTION

3

Techniques of library orientation designed for teachers who plan to instruct students in the use of the school library; demonstration and class presentation are required.

LIBR 490 DIRECTED LIBRARY EXPERIENCE

4-6; 6

Practical experience in elementary or secondary school libraries under the supervision of qualified librarians. Application must be made during the first two weeks of the quarter *prior* to the actual library practice. Four to six hours any quarter except summer; maximum, six.

LIBR 496 SEMINAR IN SCHOOL LIBRARY PROBLEMS

3

Consideration of problems and responsibilities in the selection and use of instruction materials, finances, buildings and equipment, personnel, public relations and legal structure.



MATHEMATICS

M.Lang, Chairman; G. Hare, W. Soper, T. Thompson.

The department of mathematics offers a program leading to the Bachelor of Arts or Bachelor of Science degrees. The mathematics entrance requirements are a year of algebra and a year of geometry. It is highly recommended that students have at least one additional year of mathematics on the secondary level including some trigonometry.

MAJOR IN MATHEMATICS (Bachelor of Arts)

A student majoring in mathematics must complete 45 quarter hours in the major. The general requirements for the baccalaureate degree as outlined in this bulletin must also be completed. Competency in a foreign language through the elementary reading level is recommended.

Major Requirements:

CPTR 125 or CPTR 134	Principles of BASIC Introduction to Computing	}	2-3
MATH 181, 281	Analytic Geometry and Calculus I, II	8	
MATH 282, 283	Analytic Geometry and Calculus III, IV	8	
MATH 331	Introduction to Algebra	4	
MATH 451	Advanced Calculus	3	
MATH 461	Modern Algebra	4	
MATH 452, 453 or MATH 462, 463 or two of the three	Advanced Calculus Modern Algebra		6-16
MATH 341, 442 or MATH 452 or MATH 462	Numerical Analysis I, II Advanced Calculus Modern Algebra		0-10
	Electives		45

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman. A maximum of four quarter hours of Fundamentals of Mathematics or Precalculus may be applied to the major.

MAJOR IN MATHEMATICS (Bachelor of Science)

A student majoring in mathematics must complete 55 quarter hours in the major, the required cognates and the general requirements for the baccalaureate degree as outlined in this bulletin.

Major Requirements:

CPTR 125 or CPTR 134	Principles of BASIC Introduction to Computing	}	2-3
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MATHEMATICS

MATH 181, 281	Analytic Geometry and Calculus I, II	8
MATH 282, 283	Analytic Geometry and Calculus III, IV	8
MATH 331	Introduction to Algebra	4
MATH 451	Advanced Calculus	3
MATH 461	Modern Algebra	4
MATH 452, 453 or MATH 462, 463	Advanced Calculus } Modern Algebra }	6-8
	Electives	<u>17-20</u>

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman. A maximum of four quarter hours of Fundamentals of Mathematics or Precalculus may be applied to the major.

55

Required Cognates:

BIOL 101, 102, 103 or CHEM 141, 142, 143	General Biology } General Chemistry }	12
PHYS 211, 212, 213	General Physics }	
PHYS 214, 215, 216 or PHYS 251, 252, 253	General Physics Laboratory } Principles of Physics }	12
PHYS 254, 255, 256	Principles of Physics Laboratory }	

MINOR IN MATHEMATICS

A student minoring in mathematics must complete 28 quarter hours:
Electives (4 must be upper division) 28

Approval of mathematics adviser required.

MATHEMATICS (MATH)

MATH 100 INTERMEDIATE ALGEBRA

4

A one-quarter review of intermediate algebra including topics such as sets; numbers; exponents; polynomials; factoring; rational algebraic expressions; graphs; and first- and second-degree equations and inequalities.

MATH 105 MATHEMATICS THROUGH STATISTICS

4

A course in which computer programming and mathematical concepts are presented and interwoven with probability and statistics. Selected topics from algebra, probability, computer programming and statistics are studied. This course is designed to meet the general studies requirement for the baccalaureate degree but will not apply toward a major or minor in mathematics.

MATH 106 APPLIED STATISTICS

4

A continuation of MATH 105 including distributions, sampling, confidence intervals, hypothesis testing, nonparametric statistics and analysis of variance. Relevant examples from various disciplines will be considered. This course is designed to meet the general studies requirement for the baccalaureate degree but will not apply toward a major or minor in mathematics. Prerequisite: MATH 105 or permission of instructor.

MATH 111, 112 MATHEMATICS FOR THE LIBERAL ARTS

4, 4

A course for nonscience students in which applications play a dominant role. Selected topics from algebra, trigonometry, linear programming, elementary differential and integral calculus are encountered and studied in connection with solutions of real-life problems. This course is designed to meet the general studies requirement for the baccalaureate degree but will not apply toward a major or minor in mathematics.

MATH 117 PRECALCULUS	5
College algebra and trigonometry including topics such as equations and inequalities; functions and their graphs; logarithmic, exponential and trigonometric functions and complex numbers. Prerequisite: two years of algebra or a year of algebra and a year of Euclidean geometry.	
MATH 121, 122 FUNDAMENTALS OF MATHEMATICS I, II	4, 4
An integrated course in college algebra and trigonometry including a study of the integers; rational, real and complex numbers; equations and inequalities; polynomials; functions, relations and their graphs; exponential and logarithmic functions; trigonometry; the binomial theorem; matrices and determinants; progressions and mathematical induction. Prerequisite: two years of algebra or a year of algebra and a year of Euclidean geometry.	
MATH 130 FUNDAMENTALS OF ELEMENTARY MATHEMATICS	4
An elementary course in sets, number theory, geometry, numeration, computer programming, number systems, relations, graphs, probability and the metric system. This course is designed primarily for elementary and junior high school teachers. This course along with MATH 105 or MATH 111 or MATH 117 or MATH 121 will meet the general studies requirement for the baccalaureate degree, but will not apply on a major or a minor in mathematics. Prerequisite: MATH 105 or MATH 111 or MATH 117 or MATH 121 or equivalent. Offered alternate years.	
MATH 181, 281, 282, 283 ANALYTIC GEOMETRY AND CALCULUS I, II, III, IV	4, 4, 4, 4
An integrated course in which topics of analytic geometry are introduced as needed in developing the topics in calculus. Prerequisite: MATH 117 or MATH 122 or a satisfactory score on a departmental qualifying examination.	
MATH 289 LINEAR ALGEBRA AND ITS APPLICATIONS	3
Vector spaces, linear transformations, matrices and determinants. Emphasis will be on applications.	
MATH 311 PROBABILITY AND STATISTICS	4
Probability, discrete and continuous probability density functions, moments, sampling, correlation, regression, confidence intervals and hypothesis testing. Prerequisite: MATH 283 and either CPTR 125 or CPTR 134.	
MATH 312 ORDINARY DIFFERENTIAL EQUATIONS	4
Differential equations of first order, linear differential equations of order n, series solutions, applications. Prerequisite: MATH 283.	
MATH 321 GEOMETRY	4
Study of geometries including Euclidean, non-Euclidean, projective and affine geometries, as well as transformations and isometries. The approach is divided between examination of axiomatic foundations and qualitative study of the geometries. Permission of instructor required. Offered alternate years.	
MATH 331 INTRODUCTION TO ALGEBRA	4
An introductory study of systems of linear equations, determinants, matrices, groups, rings, integral domains, fields and vector spaces. Prerequisite: MATH 281 or permission of instructor.	
MATH 341 NUMERICAL ANALYSIS I	4
Iterative and recursive numerical techniques as they relate to computer applications. Topics include error analysis, interpolation techniques, finite differences, solutions of linear and nonlinear equations, polynomials, systems of equations, numerical differentiation and integration, and numerical solutions of differential equations. Prerequisites: MATH 312 and either CPTR 125 or CPTR 134.	
MATH 423 INTRODUCTION TO THE THEORY OF COMPLEX VARIABLES	4
Functions of a complex variable, the geometry of elementary functions, integration, power series, calculus of residues and conformal mapping. Prerequisite: MATH 283. Offered alternate years.	

MATHEMATICS

MATH 442 NUMERICAL ANALYSIS II

4

Curve fitting, smoothing techniques, eigenvalues, linear programming, numerical solutions of ordinary and partial differential equations, multiple linear regression and other statistical techniques. Prerequisites: MATH 311 and MATH 341. Offered alternate years.

MATH 451, 452, 453 ADVANCED CALCULUS

3, 3, 3

Functions, continuity, differentiation, integration, infinite series, differential geometry and vector calculus. Prerequisite: MATH 283. Offered alternate years.

MATH 461, 462, 463 MODERN ALGEBRA

4, 4, 4

Groups, rings, fields, modules, vector spaces, dual spaces, matrices, matrix algebra, similarity and linear transformations. Prerequisite: MATH 331 or permission of the instructor. Offered alternate years.

MATH 472 METHODS OF TEACHING MATHEMATICS

3

Methods, materials and techniques of teaching mathematics on the secondary school level. Observation, demonstration and class presentation are required of the students as a part of this course. Will not apply on a major or minor in mathematics.



MODERN LANGUAGES

R. Czeratzki, Chairman; S. Henderson.

The main objectives of the department are to develop competence in the ability to understand, speak, read and write a foreign language and to provide through the knowledge of foreign languages a deepened understanding and appreciation of the literature and culture of other people.

Walla Walla College is a member of the Adventist Colleges Abroad consortium and foreign language majors and minors who have not had residence in a country in which their language is spoken are urged to spend their sophomore or junior year in this way. Academic credit will be granted for these studies so that a student will be able to complete a full college year abroad. Prospective students must have successfully completed one year of college French, German or Spanish or the equivalent. It is recommended that students desiring to participate do so during their sophomore year. Applicants should consult with their major professors, the modern language department, and the director of records prior to enrollment.

Majors and minors are offered in French, German and Spanish.

A student planning to teach should confer with his assigned academic adviser and with the department of Education and Psychology in regard to certification and teaching credentials.

MAJOR IN FRENCH, GERMAN or SPANISH (Bachelor of Arts)

A student majoring in French, German or Spanish must complete 45 quarter hours in the major, the required cognates, and the general studies program for the baccalaureate degree as outlined in this bulletin.

Major Requirements:

FREN 202, 203	Intermediate French	8
or		
GRMN 212, 213	Intermediate German	
or		
SPAN 222, 223	Intermediate Spanish	
	Electives (21 must be upper division)	37
		45

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.

Required Cognate:

ENGL 384	English Grammars and Linguistics	3-4
or		
MDLG 472	Methods of Teaching Modern Languages	

MINOR IN FRENCH, GERMAN or SPANISH

A student minoring in French, German or Spanish must complete 28 quarter hours beyond FREN 101; GRMN 111; or SPAN 121; 8 quarter hours must be upper division. Approval of the language adviser required.

MODERN LANGUAGES

FRENCH (FREN)

FREN 101 INTRODUCTION TO FRENCH

4

The course provides a foundation for the study of French with elementary practice in the skills of understanding, speaking, reading and writing. It introduces the student to grammatical terminology and the sound system of French, basic grammar and vocabulary at the elementary level. Language laboratory required.

FREN 102, 103 ELEMENTARY FRENCH

4, 4

The course provides continued development of listening, speaking, reading and writing skills. Emphasis is placed on grammatical structures and vocabulary building. Language laboratory required. Prerequisite: FREN 101 or equivalent.

FREN 202, 203 INTERMEDIATE FRENCH

4, 4

The course is based on readings in French literature and civilization, combined with a review of grammar and the development of speaking and writing skills. Prerequisite: FREN 103 or equivalent.

FREN 301, 302, 303 SURVEY OF FRENCH LITERATURE

3, 3, 3

A survey of French masterworks from *La Chanson de Roland* to the present. Introduction to literary analysis; lectures, reports, required library reading. Prerequisite: FREN 203 or equivalent.

FREN 304, 305, 306 ADVANCED FRENCH

3, 3, 3

Intensive training in oral and written French. Review of grammar and extensive prose reading. Exercises in composition and conversation. Laboratory required. Conducted in French. Must be taken in sequence. Prerequisite: FREN 203 or equivalent.

FREN 404 FRENCH DIRECTED READING

1-3; 6

The work consists of assigned reading and reports. Prerequisite: FREN 304, 305, 306. One to three hours per quarter; maximum, six.

FREN 407 17TH AND 18TH CENTURY FRENCH LITERATURE

4

Study of the classical writers such as Racine, Moliere and Corneille but also of the philosophers such as Voltaire, Montesquieu and Rousseau.

FREN 408 19TH CENTURY FRENCH LITERATURE

4

Study of the period from the end of the Revolution to World War I. Romanticism, Realism, Naturalism and the Parnasse.

FREN 409 20TH CENTURY FRENCH LITERATURE

4

Study of the period from World War I to the present.

FREN 427, 428, 429 FRENCH CULTURE AND CIVILIZATION

2, 2, 2

A historical study of the major aspects of French culture and civilization as they appear in painting, architecture, science, music, philosophy and history.

GERMAN (GRMN)

GRMN 111 INTRODUCTION TO GERMAN

4

The course introduces the student to descriptive grammatical terminology, the German sound system, basic grammar and everyday vocabulary. It provides elementary practice in the skills of understanding, speaking, reading and writing. Language laboratory required.

GRMN 112, 113 ELEMENTARY GERMAN

4, 4

The course provides continued development of listening, speaking, reading and writing skills. Emphasis is placed on grammatical structures and vocabulary building. Language laboratory required. Prerequisite: GRMN 111 or equivalent.

GRMN 212, 213 INTERMEDIATE GERMAN

4, 4

The course is based on readings in German literature and civilization, combined with a review of grammar and the development of speaking and writing skills. Prerequisite: GRMN 113 or equivalent.

MODERN LANGUAGES

GRMN 311, 312, 313 SURVEY OF GERMAN LITERATURE 3, 3, 3

Development of German literature from the eighth century to the present, supplemented by readings from representative masterpieces of the language. Prerequisite: GRMN 213 or equivalent..

GRMN 314, 315 GERMAN CIVILIZATION 2, 2

The development of the cultural, social and political life in German-speaking lands as reflected in architecture, art, history, literature, music and philosophy. Lectures, films, reports.

GRMN 317, 318, 319 ADVANCED GERMAN 3, 3, 3

Intensive practice in oral and written German. Reading, analysis and discussion of selected prose. Prerequisite: GRMN 213 or equivalent.

GRMN 323 SCIENTIFIC GERMAN 2

An introduction to the reading of technical German in various scientific fields.

GRMN 411 GERMAN DIRECTED READING 1-3; 6

Individual supervision of readings selected for each student separately. Written and oral reports and quarter examination. Approval of instructor required. Prerequisite: GRMN 311, 312, 313. One to three hours per quarter; maximum, six.

GRMN 421 18TH CENTURY GERMAN LITERATURE 4

Emphasis on Lessing and the Enlightenment, the period of "Storm and Stress" and the rise of Weimar Classicism (Goethe, Schiller).

GRMN 422 19TH CENTURY GERMAN LITERATURE 4

Poetic theory and its application to Romantic lyric and prose; the transition from Romanticism to Realism and the reading of representative works of that period.

GRMN 423 20th CENTURY GERMAN LITERATURE 4

Introduction to major authors and literary movements from 1880 to the present, e.g., Naturalism, Expressionism, Symbolism, including recent trends in postwar East- and West-German literature.

SPANISH (SPAN)

SPAN 121 INTRODUCTION TO SPANISH 4

The course provides the foundation for oral, written and reading communication. Students are introduced to basic Spanish grammar, as well as phonetics and phonology. Language laboratory required.

SPAN 122, 123 ELEMENTARY SPANISH 4, 4

Continued development of the oral, writing and reading skills begun in SPAN 121. Language laboratory required. Prerequisite: SPAN 121 or equivalent.

SPAN 222, 223 INTERMEDIATE SPANISH 4, 4

Continued development of oral, writing and reading skills, with more emphasis placed on mastering the grammar. This course is designed to prepare students to use Spanish as a research and cultural tool. Prerequisite: SPAN 123 or equivalent.

SPAN 324, 325, 326 SURVEY OF SPANISH LITERATURE 3, 3, 3

A study of the development of Spanish literature from the 12th century to the present. This includes a survey of the various genres of Spanish literature and is supplemented by reading certain works in their entirety. Conducted in Spanish. Offered alternate years. Prerequisite: SPAN 223 or equivalent.

SPAN 330 IBERIAN CULTURE AND CIVILIZATION 4

A study of the development of the cultural, social and political life of the Iberian peoples, from Greek and Roman times to the present, as reflected in art, architecture, history, literature, music and philosophy. Conducted in Spanish. Offered alternate years.

MODERN LANGUAGES

FRENCH (FREN)

FREN 101 INTRODUCTION TO FRENCH

4

The course provides a foundation for the study of French with elementary practice in the skills of understanding, speaking, reading and writing. It introduces the student to grammatical terminology and the sound system of French, basic grammar and vocabulary at the elementary level. Language laboratory required.

FREN 102, 103 ELEMENTARY FRENCH

4, 4

The course provides continued development of listening, speaking, reading and writing skills. Emphasis is placed on grammatical structures and vocabulary building. Language laboratory required. Prerequisite: FREN 101 or equivalent.

FREN 202, 203 INTERMEDIATE FRENCH

4, 4

The course is based on readings in French literature and civilization, combined with a review of grammar and the development of speaking and writing skills. Prerequisite: FREN 103 or equivalent.

FREN 301, 302, 303 SURVEY OF FRENCH LITERATURE

3, 3, 3

A survey of French masterworks from *La Chanson de Roland* to the present. Introduction to literary analysis; lectures, reports, required library reading. Prerequisite: FREN 203 or equivalent.

FREN 304, 305, 306 ADVANCED FRENCH

3, 3, 3

Intensive training in oral and written French. Review of grammar and extensive prose reading. Exercises in composition and conversation. Laboratory required. Conducted in French. Must be taken in sequence. Prerequisite: FREN 203 or equivalent.

FREN 404 FRENCH DIRECTED READING

1-3; 6

The work consists of assigned reading and reports. Prerequisite: FREN 304, 305, 306. One to three hours per quarter; maximum, six.

FREN 407 17TH AND 18TH CENTURY FRENCH LITERATURE

4

Study of the classical writers such as Racine, Moliere and Corneille but also of the philosophers such as Voltaire, Montesquieu and Rousseau.

FREN 408 19TH CENTURY FRENCH LITERATURE

4

Study of the period from the end of the Revolution to World War I. Romanticism, Realism, Naturalism and the Parnasse.

FREN 409 20TH CENTURY FRENCH LITERATURE

4

Study of the period from World War I to the present.

FREN 427, 428, 429 FRENCH CULTURE AND CIVILIZATION

2, 2, 2

A historical study of the major aspects of French culture and civilization as they appear in painting, architecture, science, music, philosophy and history.

GERMAN (GRMN)

GRMN 111 INTRODUCTION TO GERMAN

4

The course introduces the student to descriptive grammatical terminology, the German sound system, basic grammar and everyday vocabulary. It provides elementary practice in the skills of understanding, speaking, reading and writing. Language laboratory required.

GRMN 112, 113 ELEMENTARY GERMAN

4, 4

The course provides continued development of listening, speaking, reading and writing skills. Emphasis is placed on grammatical structures and vocabulary building. Language laboratory required. Prerequisite: GRMN 111 or equivalent.

GRMN 212, 213 INTERMEDIATE GERMAN

4, ½

The course is based on readings in German literature and civilization, combined with a review of grammar and the development of speaking and writing skills. Prerequisite: GRMN 113 or equivalent.

MODERN LANGUAGES

GRMN 311, 312, 313 SURVEY OF GERMAN LITERATURE 3, 3, 3

Development of German literature from the eighth century to the present, supplemented by readings from representative masterpieces of the language. Prerequisite: GRMN 213 or equivalent..

GRMN 314, 315 GERMAN CIVILIZATION 2, 2

The development of the cultural, social and political life in German-speaking lands as reflected in architecture, art, history, literature, music and philosophy. Lectures, films, reports.

GRMN 317, 318, 319 ADVANCED GERMAN 3, 3, 3

Intensive practice in oral and written German. Reading, analysis and discussion of selected prose. Prerequisite: GRMN 213 or equivalent.

GRMN 323 SCIENTIFIC GERMAN 2

An introduction to the reading of technical German in various scientific fields.

GRMN 411 GERMAN DIRECTED READING 1-3; 6

Individual supervision of readings selected for each student separately. Written and oral reports and quarter examination. Approval of instructor required. Prerequisite: GRMN 311, 312, 313. One to three hours per quarter; maximum, six.

GRMN 421 18TH CENTURY GERMAN LITERATURE 4

Emphasis on Lessing and the Enlightenment, the period of "Storm and Stress" and the rise of Weimar Classicism (Goethe, Schiller).

GRMN 422 19TH CENTURY GERMAN LITERATURE 4

Poetic theory and its application to Romantic lyric and prose; the transition from Romanticism to Realism and the reading of representative works of that period.

GRMN 423 20th CENTURY GERMAN LITERATURE 4

Introduction to major authors and literary movements from 1880 to the present, e.g., Naturalism, Expressionism, Symbolism, including recent trends in postwar East- and West-German literature.

SPANISH (SPAN)

SPAN 121 INTRODUCTION TO SPANISH 4

The course provides the foundation for oral, written and reading communication. Students are introduced to basic Spanish grammar, as well as phonetics and phonology. Language laboratory required.

SPAN 122, 123 ELEMENTARY SPANISH 4, 4

Continued development of the oral, writing and reading skills begun in SPAN 121. Language laboratory required. Prerequisite: SPAN 121 or equivalent.

SPAN 222, 223 INTERMEDIATE SPANISH 4, 4

Continued development of oral, writing and reading skills, with more emphasis placed on mastering the grammar. This course is designed to prepare students to use Spanish as a research and cultural tool. Prerequisite: SPAN 123 or equivalent.

SPAN 324, 325, 326 SURVEY OF SPANISH LITERATURE 3, 3, 3

A study of the development of Spanish literature from the 12th century to the present. This includes a survey of the various genres of Spanish literature and is supplemented by reading certain works in their entirety. Conducted in Spanish. Offered alternate years. Prerequisite: SPAN 223 or equivalent.

SPAN 330 IBERIAN CULTURE AND CIVILIZATION 4

A study of the development of the cultural, social and political life of the Iberian peoples, from Greek and Roman times to the present, as reflected in art, architecture, history, literature, music and philosophy. Conducted in Spanish. Offered alternate years.

MODERN LANGUAGES

SPAN 331 SPANISH-AMERICAN CULTURE AND CIVILIZATION 4
A study of the development of the cultural, social and political life of Spanish America from the pre-Columbian period to the present, as reflected in art, architecture, history, literature, music and philosophy. Offered alternate years.

SPAN 341, 342, 343 ADVANCED SPANISH GRAMMAR 3, 3, 3
Intensive training in oral and written Spanish. Review of grammar and extensive prose reading. Exercises in composition and conversation. Conducted in Spanish. Prerequisite: SPAN 223 or equivalent.

SPAN 414 SPANISH DIRECTED READING 1-3; 6
The work consists of assigned readings and reports. Prerequisite: SPAN 341, 342, 343. One to three hours per quarter; maximum, six.

SPAN 424, 425, 426 CONTEMPORARY SPANISH LITERATURE 2, 2, 2
An intensive study and analysis of Spanish literature from about 1898 to the latest writers who have achieved critical acclaim. Emphasis placed on development of literary critical ability and evaluation of modern Spanish literature from historical and social points of view.

SPAN 431, 432, 433 SURVEY OF LATIN-AMERICAN LITERATURE 3, 3, 3
A study of the development of Latin American literature from pre-Columbian Indian literature to the present. A study of the various genres of Latin American literature as supplemented by reading certain works in their entirety. Conducted in Spanish. Offered alternate years.

GENERAL (MDLG)

MDLG 472 METHODS OF TEACHING MODERN LANGUAGES 3
The principles and practice of teaching modern languages. Students are introduced to the newer methods in both classroom and language laboratory; voice machine techniques, selection of material and equipment. Observation, demonstration and class presentation are required of the students as a part of this course. Will not apply on a major or minor in Modern Languages.



MUSIC

D. Shultz, Chairman; L. Collins, G. Ferguson, S. Hiscock, L. Leno, L. Richter, M. Scriven, G. Spring.

Instruction and experiences in music are provided for the purpose of preparing students for careers in music; guiding in the development of performance skills; increasing aesthetic sensitivities; and enhancing the cultural setting of both campus and community.

Bachelor of Arts and Bachelor of Music degrees are offered. These provide opportunity for the development of a conceptual understanding of historical and theoretical perspectives in music and their interrelationships as they form a cognitive affective basis for listening, composing and performing.

The Bachelor of Music degree is a professional program with a choice of two majors: Music Education or Music Performance. The Bachelor of Arts degree also offers a choice of two majors: Applied Music or Music Theory. The Bachelor of Arts is not intended to prepare students for a career in music but can serve as a preliminary to graduate study in some fields.

All students pursuing music degree programs will participate in a departmental music organization during each quarter in residence. Students whose performance area is voice will sing in a choir. Those whose performance area is instrumental will play in either the band or orchestra. Keyboard majors may elect up to six quarter hours in approved small ensemble activities toward the fulfillment of this requirement.

The department lists a number of requirements for its majors which must be met without credit. These include certain recitals, minimum piano proficiency, concert and recital attendance and performance classes. Detailed information regarding these requirements is included in *A Guidebook for Students and Teachers* available at the music office.

Transfer students majoring in music must take a minimum of six quarter hours in applied music at Walla Walla College. All majors must continue study in their primary applied area until completion of the Senior Recital.

MUSIC EDUCATION (Bachelor of Music)

A student majoring in music education must complete 192 quarter hours including general studies, core and certification requirements as listed below. The student will also choose a concentration in either elementary or secondary school music or both. This curriculum provides for denominational and state teaching certification.

MUSIC

General Studies Requirements:

ENGL 121, 122	College Writing	8
HIST 121, 122	History of Western Civilization	8
PEAC	Physical Activity Courses	2
PSYC 130	General Psychology	4
	Mathematics and Natural Science (as required by general studies)	12
RELB, RELH, RELT	Religion and Theology*	16
		<u>50</u>

*Denominational Certification requires specific classes. See Education and Psychology section of this bulletin.

Core Requirements:

MUCT 121, 122, 123	Theory I	12
MUCL 221, 222, 223	Theory II	12
MUCL 424	Form and Analysis	3
MUCL 425	Orchestration	3
MUCL 426	Counterpoint	3
MUHL 134, 135, 136	The Art of Listening	3
MUHL 231, 232, 233	History of Music I	6
MUHL 331, 332, 333	History of Music II	6
MUPF 361, 362, 363	Conducting ¹	2-8
MUPF	Organizations	<u>11</u>
		61-67

¹Keyboard majors are required to take only Basic Conducting. Instrumental and choral majors are required to take 2 additional hours in their respective areas.

Certification Requirements: Music Education

EDUC 110	Principles and Concepts of Christian Education	2
EDUC 210	Foundations of Education	3
EDUC 390	Educational Evaluation	3
EDUC 478/479	Microteaching—Elementary/Secondary	2
	A course in Human Relations or Group Procedures approved by the Teacher Education Council	3
EDUC 480/481	Directed Teaching—Elementary/Secondary	14
PSYC 220	Educational Psychology	4
*PSYC 435 or *PSYC 440	Child Psychology	3
	Adolescent Psychology	<u>34</u>

*Selected for equivalent level. Dual certification requires both PSYC 435 and PSYC 440 with 7 quarter hours of directed teaching on each level.

Concentration: Elementary School Music

MUED 344	Elementary School Music Literature	2
MUED 472	Elementary Music Methods	3

MUSIC

MUPF	Major Performance ¹	15
MUPF	Minor Performance ²	6
	Selected Topics or Independent Study	2

¹Voice majors will complete MUED 251, 252, 253; MUED 354. Piano majors will complete MUED 334. Organ majors will complete MUED 324. Keyboard majors will complete MUPF 351, 352, 353.

²To be chosen in consultation with the department chairman except for instrumental majors who will choose the four Instrumental Techniques and Methods courses.

Concentration: Secondary School Music

MUED 473	Secondary Music Methods	3
MUPF	Major Performance ¹	19
MUPF	Minor Performance ²	6
MUPF	Voice ³	1
	A joint (or solo) recital is required ⁴	1

¹The student will take a total of 19 quarter hours in one applied field, eight of which must be upper division. Students who reach a high level of proficiency in less than 19 quarter hours may, with music faculty approval and guidance, complete the 19 quarter hours by electing courses which will strengthen their preparedness in other areas within the music field. In no case will the student take less than 15 quarter hours in one applied field. Voice majors will complete MUED 251, 252, 253; MUED 354. Piano majors will complete MUED 334. Organ majors will complete MUED 324. Keyboard majors will complete MUPF 351, 352, 353.

²Students whose major performance area is organ will take piano and those whose major performance is piano will take organ and/or harpsichord. Students whose major performance area is instrumental will take all the Instrumental Techniques and Methods courses. Voice majors will, with departmental approval, elect their 6 quarter hours from other applied music areas including Instrumental Techniques classes and Piano.

³Required only of nonvoice majors.

⁴With the counsel and consent of the music faculty, a music major may be allowed to substitute a conducting or research project for the senior recital upon evidence of equivalent competence in these areas.

MUSIC PERFORMANCE (Bachelor of Music)

A student majoring in music performance must complete 192 quarter hours including general studies and major requirements as listed below: (This curriculum does not result in denominational or state teaching certification.)

General Studies Requirements:

EDUC 110	Principles and Concepts of Christian Education	2
ENGL 121, 122	College Writing	8
FREN or GRMN	Foreign Language*	8-12
*Introductory course in French and German or 12 quarter hours in either language.		
HIST 121, 122	History of Western Civilization	8
PEAC	Physical Activity Courses	2
RELB, RELH, RELT	Religion and Theology	16
		44-48

MUSIC**Major Requirements:**

MUCT 121, 122, 123	Theory I	12
MUCT 221, 222, 223	Theory II	12
MUCT 334	Composition I	3
MUCT 424	Form and Analysis	3
MUCT 425	Orchestration	3
MUCT 426	Counterpoint	3
MUHL 134, 135, 136	The Art of Listening	3
MUHL 231, 232, 233	History of Music I	6
MUHL 331, 332, 333	History of Music II	6
MUPF 361, 362 or 363	Conducting	4
MUPF	Organizations	12
MUPF	*Applied Performance Major	47
	Recital (junior and senior year)	<u>1</u>
		115

*Keyboard majors will complete MUPF 351, 352, 353.

Voice majors will complete MUED 251, 252, 253; MUED 354. Piano majors will complete MUED 334. Twenty hours in the major performance area must be upper division.

MAJOR IN MUSIC THEORY (Bachelor of Arts)

A student majoring in music theory must complete 66 quarter hours in the major and the general studies program for the baccalaureate degree as outlined in this bulletin. The music theory major will present a senior project which must be approved by the music faculty.

Major Requirements:

MUCT 121, 122, 123	Theory I	12
MUCT 221, 222, 223	Theory II	12
MUCT 335	Composition I	3
MUCT 424	Form and Analysis	3
MUCT 425	Orchestration	3
MUCT 426	Counterpoint	3
MUHL 134, 135, 136	The Art of Listening	3
MUHL 231, 232, 233	History of Music I	6
MUHL 331, 332, 333	History of Music II	6
MUPF	Applied Music	10
MUPF	Organizations	<u>5</u>
		66

MAJOR IN APPLIED MUSIC (Bachelor of Arts)

A student majoring in applied music must complete 66 quarter hours in the major and the general studies program for the baccalaureate degree as outlined in this bulletin.

Major Requirements:

MUCT 121, 122, 123	Theory I	12
MUCT 221, 222, 223	Theory II	12

MUSIC

MUCT 424	Form and Analysis	3
MUCT 425	Orchestration	3
MUED 251, 252, 253 or	Singer's Diction (voice majors)	
MUPF 351, 352, 353 or	Advanced Keyboard Skills (keyboard majors)	3
MUPF	*Music Electives (instrumental majors)	
MUHL 134, 135, 136	The Art of Listening	3
MUHL 231, 232, 233	History of Music I	6
MUHL 331, 332, 333	History of Music II	6
MUPF	Applied Music ¹	17
	A joint (or solo) recital is required in the senior year	
		1
*To be chosen in consultation with the department chairman.		66
'Eight of the hours in the major performance area must be upper division.		

MINOR IN MUSIC

A student minoring in music must complete 30 quarter hours:

MUCT 121, 122, 123	Theory I	12
MUHL 124 or	Introduction to Music	
MUHL 134, 135, 136	The Art of Listening	3-4
MUPF	Applied Music	8
	*Music Electives	6-7
	A joint (or solo) recital is required.	
*Up to three quarter hours of music organization credit may apply.		30

MINOR IN THE TEACHING OF MUSIC

A student minoring in the teaching of music must complete 30 quarter hours:

MUCT 121, 122, 123	Theory I	12
MUED 472 or	Elementary Music Methods	3
MUED 473	Secondary Music Methods	
MUHL 124 or	Introduction to Music	
MUHL 134, 135, 136	The Art of Listening	3-4
MUPF 361	Basic Conducting	2
MUPF	Applied Music	9-10
		30

COMPOSITION AND THEORY (MUCT)

MUCT 101 FUNDAMENTALS OF MUSIC

A basic course in the notation of music with emphasis on the development of reading skills. Does not apply toward a major or minor.

MUSIC

MUCT 121, 122, 123 THEORY I	4, 4, 4
A comprehensive review of the elements of notation, rhythm, scales, key signatures and terms is followed by an intensive study of traditional harmonic concepts through secondary dominants. Aural skills (sightsinging and ear training) are integrated throughout. Prerequisite: passing of entrance examination.	
MUCT 221, 222, 223 THEORY II	4, 4, 4
A continuation of Theory I with emphasis on melodic and harmonic developments of the late nineteenth and twentieth centuries. Aural skills (sightsinging and ear training) are integrated throughout. Prerequisite: MUCT 121, 122, 123.	
MUCT 234 INTRODUCTION TO ELECTRONIC MUSIC	2
Lectures, demonstrations and practical experience in the use of tape recorders and synthesizers for the production of electronic music. On demand only.	
MUCT 335 COMPOSITION I	1-2; 6
A study of the art of composing in the smaller forms. Special emphasis is given to twentieth century techniques. Prerequisite: MUCT 221, 222, 223 and/or the permission of the instructor. On demand only.	
MUCT 424 FORM AND ANALYSIS	3
A detailed study of musical structure. Emphasis on homophonic forms. Prerequisite: MUCT 221, 222, 223 or permission of instructor.	
MUCT 425 ORCHESTRATION	3
Practical consideration of the techniques, capabilities and effective uses of orchestral instruments in various combinations. Scoring for small and large combinations of instruments is included. Prerequisite: MUCT 424. Offered alternate years.	
MUCT 426 COUNTERPOINT	3
A continuation of MUCT 424 with concentration on the more intricate forms of contrapuntal writing such as motet, canon and fugue. Prerequisite: MUCT 424.	
MUCT 434 COMPOSITION II	1-3; 3
Advanced composition in the larger forms. Prerequisite: MUCT 335 and/or permission of instructor. On demand only.	

MUSIC EDUCATION (MUED)

MUED 251, 252, 253 SINGER'S DICTION	1, 1, 1
A study of Italian, German and French phonetics. Required of all voice majors. May be waived by demonstrated proficiency.	
MUED 261, 262 BRASS TECHNIQUES AND METHODS	1, 1
Class instruction in the performance and teaching of brass instruments. Prerequisite: Fundamental ability on at least one brass instrument and permission of the instructor. Offered alternate years.	
MUED 271, 272 WOODWIND TECHNIQUES AND METHODS	1, 1
Class instruction in the performance and teaching of woodwind instruments. Prerequisite: Fundamental ability on at least one woodwind instrument and permission of the instructor. Offered alternate years.	
MUED 281, 282 STRING TECHNIQUES AND METHODS	1, 1
Class instruction in the performance and teaching of string instruments. Prerequisite: Fundamental ability on at least one string instrument and permission of the instructor. Offered alternate years.	
MUED 291, 292 PERCUSSION TECHNIQUES AND METHODS	1, 1
Class instruction in the performance and teaching of percussion instruments. Offered alternate years.	
MUED 324 ORGAN PEDAGOGY AND LITERATURE	3
A study in the teaching of organ including a survey of materials, repertoire and techniques. Offered alternate years.	

MUSIC

MUED 334 PIANO PEDAGOGY AND LITERATURE 3
A study of the teaching of piano including a survey of materials, repertoire and techniques. Offered alternate years. By permission only.

MUED 344 ELEMENTARY SCHOOL MUSIC LITERATURE 2
A study of the literature for classroom presentation and children's voices in grades one to eight.

MUED 354 VOCAL TECHNIQUES AND METHODS 3
A study of vocal production and instruction including a survey of materials. Offered alternate years.

MUED 374 MINISTRY OF MUSIC 4
A study of music and its relationship to the pastoral and evangelical ministry of the church; representative service music and hymnody. Offered alternate years.

MUED 472 ELEMENTARY MUSIC METHODS 3
Objectives, procedures and materials in music education for kindergarten through grade six. Open to nonmusic majors who have prior musical experience, by permission only.

MUED 473 SECONDARY MUSIC METHODS 3
Objectives, procedures and materials in music education for grades seven through twelve.

MUSIC HISTORY AND LITERATURE (MUHL)

MUHL 124 INTRODUCTION TO MUSIC 4
Development of increased sensitivity to the aesthetic values of music through perception of its elements, recognition of its forms and an awareness of historical perspective. May not apply toward a music major.

MUHL 134, 135, 136 THE ART OF LISTENING 1, 1, 1
Designed to develop critical listening skills through study of the various elements of music as they are used in selected works from the standard repertoire.

MUHL 231, 232, 233 HISTORY OF MUSIC I 2, 2, 2
A study of music history from antiquity through the baroque period with special attention to musical styles as evidenced through the development of musical forms, instrumentation and performance practice.

MUHL 331, 332, 333 HISTORY OF MUSIC II 2, 2, 2
A continuation of History of Music with special emphasis on music of the classical period through music of the twentieth century.

MUSIC PERFORMANCE (MUPF)

MUPF 215 CHORAL UNION 1
A large choral group which performs major choral works in the church service and concerts on campus. Open to all students.

MUPF 235 THE COLLEGIANS 1
A choral group which performs both sacred and secular music including madrigals, folk songs, hymn arrangements and religious works of the masters suitable for chamber choirs. Membership is by invitation and/or audition.

MUPF 245 CHAMBER SINGERS 1
A select choral group which specializes in music of the Renaissance and other works suitable for chamber groups. Membership by audition only.

MUPF 255 CONCERT BAND 1
A symphonic band open to all students without audition. Local performances only.

MUSIC

MUPF 256 BAND (WIND ENSEMBLE)	1
A select touring concert band with membership by audition only. Participation in Concert Band, MUPF 255, required.	
MUPF 265 STRING ORCHESTRA	1
An organization which performs both on and off campus a cross-section of standard literature from the Baroque era to the present. Membership is by audition.	
MUPF 266 ORCHESTRA	1
An organization which performs representative orchestral literature from the Baroque era to the present. Membership by audition or invitation only.	
MUPF 275 WALLA WALLA SYMPHONY ORCHESTRA	1
A community symphonic orchestra open to members of the college orchestra. Membership by audition or invitation only.	
MUPF 285 ENSEMBLE	1
Vocal or instrumental duos, trios, quartets or larger groups under the direction of a music department staff member.	
MUPF 351, 352, 353 ADVANCED KEYBOARD SKILLS	1, 1, 1
Designed to develop certain practical skills which keyboard persons may be called upon to exhibit in professional life such as transposition, score reading, reading from a figured bass and simple improvisation. Required of keyboard majors. Prerequisite: Passing of piano proficiency examination.	
MUPF 361 BASIC CONDUCTING	2
A course specifically designed to lay the foundation for the development of the skill and the art of conducting musical ensembles of all kinds.	
MUPF 362 INSTRUMENTAL CONDUCTING	2
Instruction and experience with conducting live performances of representative works in band and orchestral literature. Prerequisite: MUPF 361.	
MUPF 363 CHORAL CONDUCTING	2
Instruction and experience with conducting live performances of representative works in choral literature. Prerequisite: MUPF 361.	
MUPF 364 INSTRUMENTAL CONDUCTING TECHNIQUES AND MATERIALS	2
Advanced techniques, rehearsal procedures, repertoire, program building and administration.	
MUPF 365 CHORAL CONDUCTING TECHNIQUES AND MATERIALS	2
Advanced techniques, rehearsal procedures, repertoire, program building and administration.	
MUPF 366 CONDUCTING PRACTICUM	1, 2
Actual conducting activities and projects as approved by staff member in consultation with music faculty. Can be repeated for additional credit.	
MUPF 487 SENIOR RECITAL	1
Preparation of materials for recital in consultation with music staff member.	

MUSIC PERFORMANCE—Applied Music

One to four hours of applied music may be earned each quarter. Nine 30-minute lessons per quarter and daily practice amounting to five clock hours a week will yield one quarter hour of credit. May be repeated for additional credit.

MUPF 117 CLASS INSTRUCTION	1
Class instruction in general or special areas of interest.	

MUPF 127 APPLIED MUSIC

1-2

Lower division study in instrument or voice. This course does not satisfy credit requirements for major or minor performance studies.

MUPF 227 APPLIED MUSIC

1-4

Lower division study in instrument or voice. This course satisfies credit requirement for major and minor performance studies. Prerequisite: Approval by music faculty through examination.

MUPF 327 APPLIED MUSIC

1-2

Upper division study in instrument or voice. This course does not satisfy credit requirements for major or minor performance studies. Prerequisite: Four quarter hours of MUPF 127 or permission of instructor.

MUPF 427 APPLIED MUSIC

1-4

Upper division study in instrument or voice. This course satisfies credit requirements for major and minor performance studies. Prerequisite: MUPF 227 and approval of music faculty through examination.





NURSING

W. Huff, Dean; R. Abrams, W. Anderson, C. Brown, J. Chance, E. Downing, J. Hunter, A. Lindt, A. Loftus, V. Meyer, R. Mitchell, C. Olson, S. Rawson, J. Riter, R. Schneider, F. Troutman, L. Whitchurch.

PHILOSOPHY, PURPOSE AND OBJECTIVES

The School of Nursing offers a baccalaureate program in nursing plus a program for registered nurses completing a baccalaureate degree. The purpose of the School of Nursing is to prepare professional practitioners to participate in delivery of health care and to provide a foundation for graduate study. In cooperation with the biblical commission to "Go ye into all the world, and preach the gospel . . ." Mark 16:51, it is the goal of the faculty to prepare nurses who will commit themselves to Jesus Christ and minister to those in need.

A graduate of this program will be able to function in the following roles:

Care Provider: implements the nursing process for promotion of an optimum level of wellness for individuals, families and communities;

Change Agent: validates the need for and facilitates desirable change in individuals, families and communities;

Coordinator-Communicator: communicates effectively for the promotion of cooperative action among individuals and groups concerned with health;

Leader-Administrator: utilizes principles of leadership and management for achieving goal-directed behavior within the operational structure of health care systems;

Professional: develops a personal philosophy and through collaborative efforts contributes to the health profession by practicing responsibility and accountability for the growth of self and others.

Researcher: demonstrates an attitude of scientific inquiry in developing and applying nursing theory;

Teacher: facilitates health-related learning by individuals and groups through the use of appropriate information and effective methodology.

COOPERATING INSTITUTIONS

Extended campus facilities are located in Portland, Oregon. Teachers' offices, classrooms, library and residence facilities are housed on the campus of the Portland Adventist Medical Center.

In order to achieve the educational objectives of the program, observation and laboratory practice is selected according to planned experiences. The School of Nursing has agreements with many health agencies and institutions which provide facilities for instruction of students. In the Walla Walla area this includes the Walla Walla General Hospital. Agencies used by agreement in the Portland area include the Portland Adventist Medical Center, Bess Kaiser Medical Center, Clackamas County Health Department, Multnomah

NURSING

County Health Department, Washington County Health Department and several public and parochial elementary and secondary schools. Other agencies may be used for observation and the elective quarter.

ACCREDITATION AND LICENSURE

The school of nursing holds agency membership in the Department of Baccalaureate and Higher Degree Programs of the National League for Nursing and is accredited by the Board of Review of that body. It is approved by the Washington State Board of Professional Nursing and is registered with the Board of Regents of the Department of Education of the General Conference of Seventh-day Adventists.

Upon successful completion of the four-year baccalaureate program, graduates are eligible for admission to the examination for licensure as registered nurses.

PROGRAM INFORMATION

The dean of the school of nursing maintains offices in College Place, Washington, and in Portland, Oregon. Students who need special information or assistance with program planning may correspond with the dean at 10345 Southeast Market, Portland, OR 97216.

Admission: The nursing program is open to freshman students by a diploma of graduation from an accredited high school or academy; transfer students from other accredited colleges or universities; and Registered Nurse students.

Applicants in all categories listed above must send their applications for admission to the Director, Admissions and Records, Walla Walla College, College Place, WA 99324.

Curriculum: The nursing program contains approximately equal quarter hours of general studies and professional courses and may be completed in 12 quarters. If summer sessions are utilized for nonnursing classes, the program may be accelerated. Students who wish to have certain quarters free for work, study, travel or relaxation, or who may wish to work on requirements for a minor, may plan an extended program. Students must plan their individual academic programs in consultation with the nursing advisers. Five to six quarters are spent on the Portland campus.

Students must maintain a cumulative grade-point average of 2.00 (C) or better to remain in the nursing program. Those students who take a W or receive a grade lower than a C in any nursing course will be permitted to repeat the course. If a second W or grade lower than a C is received in the same nursing course, the student must present a formal petition to the nursing faculty for consideration to continue in the nursing program. Preference for continuation is given to students whose grade-point average is 2.25 or above. Any high school deficiencies must be completed by the beginning of the sophomore year or the student may not proceed in the nursing courses.

Students are not permitted to be concurrently enrolled at Walla Walla College and another college or university. Exception must be approved by the dean and the Academic Standards Committee.

Registered Nurse Students. Graduates from approved diploma and associate degree programs may be admitted to the nursing program. The same high school prerequisites and general studies or equivalent courses are required of registered nurse applicants that are required of basic students. Nursing credit from diploma programs is nontransferable. Registered nurses from both associate degree and diploma programs are required to take NRSG 327 prior to Level IV Nursing. The registered nurse from diploma and associate degree programs may establish credit by validating examinations in NRSG 321, 322, 323. If satisfactory grades are earned, full credit is given. Any deficiencies indicated by the examinations must be made up prior to Level IV Nursing. The student may choose to have recorded Satisfactory/No Credit (S/NC) or the letter grade in the validating examinations. The program for registered nurses may be taken on a full-time or part-time basis (4 credits of nursing per quarter).

Credit for nursing courses carrying numbers above 400 may not be established by validating examinations. The program for registered nurses may be taken on a full-time or part-time basis (4 credits of nursing per quarter).

Transportation. Students are responsible for their own transportation to agencies and institutions used for educational experience. Because public transportation is not always available, the student needs access to a car during the sophomore and junior years. A valid driver's license and use of an automobile are mandatory during the senior year in which the student has community health nursing experiences. Transportation costs will vary from quarter to quarter.

MAJOR IN NURSING (Bachelor of Science)

A student majoring in nursing must complete 103 quarter hours in the major, the required cognates and the general studies program for the baccalaureate degree as outlined in this bulletin.

Major Requirements:

The following nursing courses are offered each quarter of the regular academic year with the exception of NRSG 327 (12 quarter hours) which is offered autumn quarter only and NRSG 331 which is offered winter and spring quarters only.

†NRSG 221, 222, 223	Level II Nursing	12
NRSG 321, 322, 323	Level III Nursing	39
*NRSG 327	Bridge Course for Registered Nurse Students	4, 12
NRSG 331	Introduction to Community Health and Epidemiology	4
NRSG 421, 422, 423	Level IV Nursing	36

†Must be successfully completed before transfer to the Portland Campus.

**For registered nurse students only.*

NURSING

Required Cognates: A grade C or better is required.

*BIOL 201, 202	Anatomy and Physiology	8
†BIOL 222	Microbiology	5
*CHEM 101, 102	Introductory Chemistry I	8
†FDNT 220	Human Nutrition	4
*PSYC 130	General Psychology	4
*SOCI 204	General Sociology	4
†SOCI 224	Human Development and the Family	4

†Prerequisite or corequisite to NRSG 221.

*Prerequisite to NRSG 221.

Note: College mathematics requirement prerequisite to NRSG 223.

NURSING (NRSG)

NRSG 221, 222, 223 LEVEL II NURSING

4, 4, 4

These courses include a study of human basic needs. Balanced interrelationships of these needs are emphasized as the student looks at whole persons throughout the life span. The nursing process (assessment, planning, implementation and evaluation) is practised for enhancement of the health status of individuals, families and communities. Students begin their roles as nurses in a variety of professional nursing settings. Prerequisites: BIOL 201, 202; CHEM 101, 102; PYCH 130; SOCI 204. Corequisites to NRSG 221: BIOL 222; SOCI 224; FDNT 220.

NRSG 321, 322, 323 LEVEL III NURSING

13, 13, 13

Opportunity is provided for guided practice in planning, giving and evaluating nursing care of the ill person in a variety of settings including hospital and community. A study of the interacting psychosocial, biological, spiritual and cultural factors which adversely affect the health of the individual from conception to death. Learning experiences are organized to include care of expanding and contracting families. The interaction of family members and behavior manifest in times of physical and emotional crisis provide a basis for planning interventions by the health-team approach. Emphasis is placed on identifying and developing the nurse's role. Must be taken in sequence. Prerequisite: NRSG 221, 222, 223.

NRSG 327 BRIDGE COURSE FOR REGISTERED NURSE STUDENTS

4, 12

A course designed to assist the Registered Nurse student in the transition of learning from an associate degree or diploma program to the baccalaureate approach to nursing. This course contains both theory and laboratory experience in concepts essential in the preparation for Level IV Nursing. Prerequisites: Licensure as a Registered Nurse, completion of validating examinations and any deficiencies indicated by these examinations. Foreign students not yet licensed will be counseled on an individual basis.

NRSG 331 INTRODUCTION TO COMMUNITY HEALTH AND EPIDEMIOLOGY 4

A study of the historical background and general organization and structure of community health. Includes study of selected communicable diseases to assist the student in understanding the cause, prevention and control of disease. Includes an introduction to the use of statistics. WS

NRSG 421, 422, 423 LEVEL IV NURSING

*4, 12; 4, 12; 4, 12

Emphasis is placed on professional management and adaptation. This level involves the synchronization of nursing behaviors to assist the patient/client to adapt and manage his health care needs. This is accomplished by creating a collaborative climate of stability and continuity to reach an optimum level of wellness through application of the nursing roles.

NRSG 421 NURSING MANAGEMENT— An exploration is made of the principles of management in the health care system and their relationship to the science of administration and the art of leadership. The contemporary leader role, as well as the emerging patterns of leadership in nursing are discussed. Practical applications

of the management principles are carried out in a variety of health care settings. Prerequisites: NRSG 321, 322, 323.

NRSG 422 COMMUNITY HEALTH— Application of knowledge of health principles, methods and nursing skills for meeting the needs of individuals, family units and groups in the community. Emphasis is on how communities meet their health needs including the promotion of wellness. Experiences are obtained in a variety of health care settings. Prerequisites: NRSG 321, 322, 323; NRSG 331.

NRSG 423 ELECTIVE— The student chooses an area of nursing where he/she will have guided in-depth study and practice. Principles, methods and practice in research related to nursing are included. Prerequisites: NRSG 321, 322, 323; NRSG 422 if student chooses a community health elective; NRSG 421 if student chooses a management elective.

NRSG 454 CARE OF THE HIGH-RISK NEONATE

4

This course is designed to develop nursing assessment and skills in caring for the high-risk neonate. Includes pathophysiology, current concepts and theories for treatment, assessment, and care of the neonate. Clinical experience includes examination and assessment of the neonate, umbilical artery catheterization and tracheal intubation. Prerequisites: Licensure as a Registered Nurse, Level IV standing, or permission of the instructor.

NRSG 455 PEDIATRIC INTENSIVE CARE

8

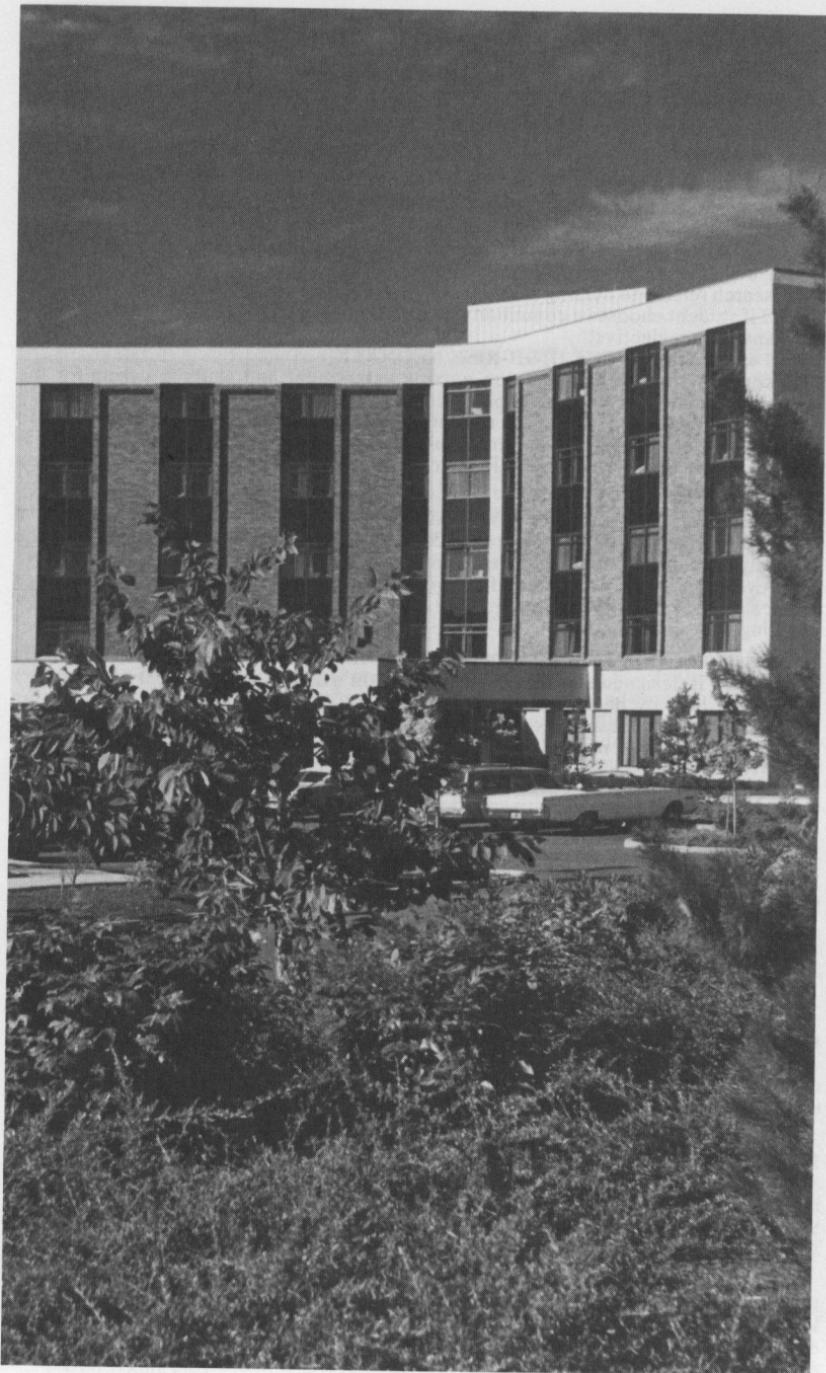
A course designed to develop nursing skills and techniques of intensive care of the critically ill pediatric patient. Covers almost all systems and emphasizes normal growth and development and body image relative to illness. Includes battered child and legal implications for ICU nurse. Prerequisite: Licensure as a Registered Nurse or Level IV standing.

NRSG 459 ACCOUNTABILITY IN NURSING ADMINISTRATION

4

This course is designed to increase the participant's ability to implement a philosophy of nursing, identify needs, set goals and priorities, develop strategies for managing personnel and other resources, evaluate patient care and develop a climate conducive to innovation. Both a project and pre- and poststatement discussing the participant's perceived accountability will be required. Prerequisite: Licensure as a Registered Nurse or Level IV standing with consent of instructor.

*Four-credit option available only to part-time registered nurse students.



OFFICE ADMINISTRATION

L. Loewen, Chairman; N. Cleveland, V. Mabley.

The baccalaureate degree programs aim to train the student for an executive secretarial career and for the teaching profession. Administrative preparation on the collegiate level is integrated with a broad cultural education. The department also seeks to equip students with knowledge and skills necessary for stenographers and general office workers.

A student interested in the teaching of secretarial skills should complete the business education major in addition to the certificate requirements as outlined in the Education and Psychology section of this bulletin. A student planning to do graduate work should complete GBUS 263 or PSYC 350.

The department offers an Associate of Science degree with areas of specialization in office secretary, medical secretary, legal secretary and secretarial accounting. The program is designed to be completed in two years. It aims to prepare the student for the responsibilities of a secretarial career as compared with the more limited training of the stenographer, which depends upon the basic skills of typewriting and shorthand. While these skills are emphasized, the advanced students in this two-year program are given the opportunity for specialization in the business and professional areas of the secretarial field. If, after successful completion of this two-year program, students wish to continue for the Bachelor of Science degree with a major in office administration or business education, they may do so without loss of credit.

The two-year secretarial certificate program is designed for the student who is interested in obtaining basic secretarial skills and early job employment. After successful completion of this two-year program, the student may continue toward the Bachelor of Science degree with a major in office administration or business education.

A two-year clerical certificate program is offered which has the same requirements as the two-year secretarial certificate program except that the student may substitute elective courses in place of the shorthand requirement.

MAJOR IN OFFICE ADMINISTRATION (Bachelor of Science)

A student majoring in office administration must complete 51 quarter hours in the major, the required cognates, and the general studies program for the baccalaureate degree as outlined in this bulletin.

Major Requirements:

OFAD 221, 222	Advanced Typewriting	4
OFAD 223	Professional Typewriting	2
OFAD 224	Mag Card Keyboarding	1
OFAD 232	IBM Key Punch	1
OFAD 234	Machine Transcription	2
OFAD 236	Business Machines	2

OFFICE ADMINISTRATION

OFAD 241, 242, 243	Advanced Shorthand and Transcription	9
OFAD 251, 252	Secretarial Procedures	8
OFAD 362	Business Communications	4
OFAD 370	Applied Office Administration	1
OFAD 459	The Administrative Secretary	4
OFAD 466	The Contemporary Secretary in Business	3
OFAD 496	Office Administration Seminar	1
	Office Administration Electives (must be upper division)	9
		51

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.

Required Cognates:

ACCT 121, 122, 123 or ACCT 125, 126	Principles of Accounting } Principles of Accounting	10
CPTR 131	Data Processing	4
ECON 241, 242	Principles of Economics	6
GBUS 361	Business Law	3
MGMT 171	Principles of Management	4

Students preparing for medical and secretarial work should complete the following:

BIOL 201, 202	Anatomy and Physiology	8
BIOL 222	Microbiology	5
OFAD 456	Medical Office Procedures	4
OFAD 457	Medical Terminology	5

MAJOR IN BUSINESS EDUCATION (Bachelor of Science)

A student majoring in business education must complete 56 quarter hours in the major, the required cognates, the education certification requirements, and the general studies program for the baccalaureate degree as outlined in this bulletin.

Major Requirements:

OFAD 221, 222	Advanced Typewriting	4
OFAD 223	Professional Typewriting	2
OFAD 224	Mag Card Keyboarding	1
OFAD 232	IBM Key Punch	1
OFAD 234	Machine Transcription	2
OFAD 236	Business Machines	2
OFAD 241, 242, 243	Advanced Shorthand and Transcription	9
OFAD 251, 252	Secretarial Procedures	8
OFAD 362	Business Communications	4
OFAD 459	The Administrative Secretary	4
OFAD 472	Methods of Teaching Business Education Subjects	4
	Office Administration Electives (must be upper division; eight may be taken from the Business Department.)	15

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.

OFFICE ADMINISTRATION

Required Cognates:

ACCT 121, 122, 123 or ACCT 125, 126	Principles of Accounting	10
CPTR 131	Principles of Accounting	
ECON 241, 242, 243	Data Processing	4
GBUS 361, 362, 363	Principles of Economics	9
	Business Law	9

TWO-YEAR SECRETARIAL PROGRAM (Associate of Science)

A student specializing in this program must complete 25 quarter hours in the core, one area of concentration, the required cognates for that area and the general studies program for the associate degree as outlined in this bulletin.

Core Requirements:

OFAD 161	Mathematics of Business	2
OFAD 221, 222	Advanced Typewriting	4
OFAD 224	Mag Card Keyboarding	1
OFAD 232	IBM Key Punch	1
OFAD 236	Business Machines	2
OFAD 264	Traditions and Practices of Business	3
OFAD 362	Business Communications	4
OFAD 370	Applied Office Administration	1
OFAD 459	The Administrative Secretary	4
OFAD 466	The Contemporary Secretary in Business	3
		25

Area Requirements: Legal Secretary

GBUS 361, 362, 363	Business Law	9
OFAD 223	Professional Typewriting (Legal)	2
OFAD 234	Machine Transcription	1
OFAD 241, 242, 243	Advanced Shorthand and Transcription	9
OFAD 251	Secretarial Procedures	4
OFAD 454	The Legal Secretary	4
	Office Administration Electives	4
	Electives	4

Electives must be chosen in consultation with and approved by the academic Adviser assigned by the department chairman.

Required Cognates: Legal Secretary

ACCT 121	Principles of Accounting	4
CPTR 131	Data Processing	4
FINA 101	Personal Finance	2

Area Requirements: Medical Secretary

OFAD 223	Professional Typewriting (Medical)	2
OFAD 234	Machine Transcription	1
OFAD 241, 242, 243	Advanced Shorthand and Transcription	9
OFAD 456	Medical Office Procedures	4
OFAD 457	Medical Terminology	5
	Office Administration Electives	4
	Electives	4

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.

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OFFICE ADMINISTRATION

Required Cognates: Medical Secretary

ACCT 121	Principles of Accounting	4
BIOL 201, 202	Anatomy and Physiology	8
CPTR 131	Data Processing	4
FINA 101	Personal Finance	2

Area Requirements: Office Secretary

OFAD 223	Professional Typewriting (Executive)	2
OFAD 234	Machine Transcription	1
OFAD 241, 242, 243	Advanced Shorthand and Transcription	9
OFAD 251, 252	Secretarial Procedures	8
	Office Administration Electives	4
	Electives	5

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.

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Required Cognates: Office Secretary

ACCT 121	Principles of Accounting	4
CPTR 131	Data Processing	4
FINA 101	Personal Finance	2

Area Requirements: Secretarial Accounting

ACCT 121, 122, 123 or ACCT 125, 126	Principles of Accounting	10
OFAD 223	Professional Typewriting (Statistical)	2
OFAD 234	Machine Transcription	2
OFAD 251, 252	Secretarial Procedures	8
	Office Administration Electives	4
	Electives	7

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.

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Required Cognates: Secretarial Accounting

CPTR 131	Data Processing	4
FINA 101	Personal Finance	2

SECRETARIAL PROGRAM (Two-year Certificate)

A student completing the secretarial certificate program must complete 86 quarter hours as listed below plus the general studies requirements for the certificate program as outlined in this bulletin.

Secretarial Certificate Requirements:

FINA 101	Personal Finance	2
OFAD 141, 142, 143	Shorthand Theory	9
OFAD 161	Mathematics of Business	2
OFAD 221, 222	Advanced Typewriting	4
OFAD 223	Professional Typewriting	2
OFAD 224	Mag Card Keyboarding	1
OFAD 232	IBM Key Punch	1
OFAD 234	Machine Transcription	1

OFFICE ADMINISTRATION

OFAD 236	Business Machines	2
OFAD 241, 242, 243	Advanced Shorthand and Transcription	9
OFAD 251, 252	Secretarial Procedures	8
OFAD 264	Traditions and Practices of Business	3
OFAD 370	Applied Office Administration	1
	Office Administration Electives	4
	Electives	<u>37</u>

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.

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CLERICAL PROGRAM (Two-year Certificate)

A student completing the clerical certificate program must complete the same requirements as listed for the secretarial certificate except that electives may replace the OFAD 141, 142, 143 and OFAD 241, 242, 243 requirements. Approval of the academic adviser assigned by the department chairman required.

MINOR IN OFFICE ADMINISTRATION

A student minoring in office administration must complete 30 quarter hours:

OFAD 221, 222	Advanced Typewriting	4
OFAD 223	Professional Typewriting	2
OFAD 224	Mag Card Keyboarding	1
OFAD 232	IBM Key Punch	1
OFAD 234	Machine Transcription	2
OFAD 236	Business Machines	2
OFAD 251, 252	Secretarial Procedures	8
OFAD 362	Business Communications	4
	Electives	<u>6</u>

Approval of office administration adviser required.

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OFFICE ADMINISTRATION (OFAD)

OFAD 111, 112, 113 BEGINNING TYPEWRITING 2, 2, 2

Introduction to touch typewriting with emphasis on basic theory, speed, accuracy. The first quarter (111) of this course will be offered each quarter and may be taken for personal-use typewriting. OFAD 111, 112, and 113 are not open to challenge examination. Does not apply toward a major or minor for the Bachelor of Science degree or as an elective for the Associate of Science degree.

OFAD 141, 142, 143 SHORTHAND THEORY 3, 3, 3

The principles of Gregg shorthand are taught with emphasis on correct writing and transcribing of shorthand notes. One hour laboratory per week.

OFAD 161 MATHEMATICS OF BUSINESS 2

Includes the study of payroll mathematics, interest, negotiable instruments, markup, discounts, depreciation, sinking funds, insurance and installment buying.

OFAD 208 CONCEPTS IN OFFICE MACHINES 2

This laboratory course is designed to give students who are not office administration majors experience with the most frequently used office machines, duplicating processes, and voicescription equipment. The basic rules for filing will also be covered. Prerequisite: OFAD 111.

OFFICE ADMINISTRATION

OFAD 221, 222 ADVANCED TYPEWRITING	2
A continuation of the study of touch typewriting with emphasis on increase of speed, accuracy and skill in the production of business papers. The course work is arranged to provide for individual differences due to the background of the student in typewriting.	
OFAD 223 PROFESSIONAL TYPEWRITING	2
Emphasis is on professional office projects in medical, legal, technical and executive areas. Prerequisites: OFAD 221, 222.	
OFAD 224 MAG CARD KEYBOARDING	1
Gives students basic knowledge and skill in magnetic keyboarding. Supervised experience on the IBM Mag Card/A Typewriter qualifies students for positions in word processing. Permission of the instructor required.	
OFAD 232 IBM KEY PUNCH	1
Gives basic knowledge and skill in punch card operation. Supervised experience on the IBM 029 Printing Card Punch is provided. Permission from the instructor required.	
OFAD 234 MACHINE TRANSCRIPTION	1-2
Laboratory practice in transcribing letters and reports from machine dictation. Emphasis is placed on progressively higher transcription rates with mailability of copy on increasingly difficult and technical materials.	
OFAD 236 BUSINESS MACHINES	2
This laboratory course is designed to develop acquaintance and proficiency with the most frequently used office machines and provides the basic skills used in fundamental calculations. Laboratory experience is also given in the use of office duplicating equipment.	
OFAD 241, 242, 243 ADVANCED SHORTHAND AND TRANSCRIPTION	3, 3, 3
A review of the principles of Gregg shorthand and emphasis on speed in taking and transcribing business dictation. The criteria for this course is mailability of all business correspondence.	
OFAD 251, 252 SECRETARIAL PROCEDURES	4, 4
A preparation for the activities and procedures common to most stenographic jobs, including business English, records management, receptionist duties and office ethics.	
OFAD 264 TRADITIONS AND PRACTICES OF BUSINESS	3
Covers business law topics that have been recommended by the United States Office of Education for secretaries, stenographers and related office workers. Special emphasis is given to contracts and negotiable instruments. This course is for those students seeking the associate degree.	
OFAD 325 WORD PROCESSING	2
Theory of the word-processing concept coupled with an applied experience. Prerequisite: OFAD 224.	
OFAD 354 THE DENOMINATIONAL SECRETARY	2
A course which deals with denominational vocabulary, reporting techniques and the work of the denominational secretary. Special emphasis is placed on an understanding of the Seventh-day Adventist denominational organization and activities.	
OFAD 362 BUSINESS COMMUNICATIONS	4
A behavioral science approach to the principles basic to effective communication with emphasis on the business writer as a communication strategist. Report writing is also stressed.	
OFAD 370 APPLIED OFFICE ADMINISTRATION	1-3
Supervised work experience in an office for actual on-the-job training. A minimum of 30 hours of satisfactory work for each credit hour.	
OFAD 454 THE LEGAL SECRETARY	4
A course designed to acquaint students with legal terminology, preparation of legal documents, court procedures and management of the legal office.	

OFFICE ADMINISTRATION

OFAD 456 MEDICAL OFFICE PROCEDURES 4
Designed to acquaint students with the specialized duties of a medical office with emphasis given to the preparation of medical office records.

OFAD 457 MEDICAL TERMINOLOGY 5
A study of the development of the basic medical vocabulary. Practice is given in the transcription of medical reports from voicescription machines. One laboratory per week. Prerequisite: BIOL 201, 202 or equivalent substitution with consent of department chairman.

OFAD 459 THE ADMINISTRATIVE SECRETARY 4
The project method of training is used in this course. Emphasis is given to the organization and planning of work, setting priorities, making decisions, analyzing problems and providing solutions.

OFAD 466 THE CONTEMPORARY SECRETARY IN BUSINESS 3
Considers the present and future problems facing the professional secretary. Emphasis is given to psychological principles that influence the behavior of people toward one another so the secretary can cope skillfully, efficiently and confidently with the fast-paced, ever-changing social and business framework in which we live.

OFAD 472 METHODS OF TEACHING BUSINESS EDUCATION SUBJECTS 4
A survey of the objectives, methods and techniques of teaching business education subjects in the secondary school. Observation, demonstration and class presentation are required.

OFAD 496 OFFICE ADMINISTRATION SEMINAR 1-3
For office administration majors for discussion, research, special problems, analysis of new trends in the field and study of the major areas in office administration. One to three hours per quarter; maximum, three.





PHYSICS

C. Barnett, Chairman; T. Anderson, G. Johnson, G. Schoepflin.

The department offers a Bachelor of Arts degree and a Bachelor of Science degree with a major in physics, and jointly with the department of biology, a Bachelor of Science degree with a major in biophysics. The physics major who is preparing for secondary teaching will normally choose the Bachelor of Arts degree including the certification requirements as outlined in the education and psychology section of this bulletin. The Bachelor of Science degree is designed to prepare the student for graduate study and a career in applied or basic research and college teaching. The interdisciplinary major in biophysics should best fill the needs of the student who plans a career in medicine, or who plans on research and advanced study into the physics of living systems. For entrance, 30 semester periods of secondary mathematics chosen from algebra, plane and solid geometry and trigonometry are required.

MAJOR IN PHYSICS (Bachelor of Arts)

A student majoring in physics must complete 45 quarter hours in the major, the required cognates, and the general studies program for the baccalaureate degree as outlined in this bulletin. The aptitude and the physics sections of the GRE are required.

Major Requirements:

PHYS 115, 116	Introduction to Experimentation	2
PHYS 251, 252, 253	Principles of Physics*	9
PHYS 254, 255, 256	Principles of Physics Laboratory	3
PHYS 311	Modern Physics	3
PHYS 312	Physical Electronics	3
PHYS 313	Thermodynamics	4
PHYS 314	Modern Physics Laboratory	1
PHYS 315	Physical Electronics Laboratory	1
PHYS 316	Optics Laboratory	1
PHYS 317, 318, 319	Physics Seminar I	3
PHYS 321, 322	Optics	6
PHYS 362, 363	Theoretical Mechanics	
PHYS 401, 402	Electricity and Magnetism	6-9
PHYS 411, 412, 413	Atomic and Nuclear Physics	
PHYS 417, 418, 419	Physics Seminar II	3
		45-48

Required Cognates:

CHEM 141, 142, 143	General Chemistry	12
CPTR 125 or CPTR 134	Principles of BASIC	2-3
	Introduction to Computing	

*Students who have completed PHYS 211, 212, 213, may meet the PHYS 251, 252, 253 requirement by passing a departmental examination.

PHYSICS

MATH 181, 281	Analytic Geometry and Calculus I, II	8
MATH 282, 283	Analytic Geometry and Calculus III, IV	8
MATH 311	Probability and Statistics	4
	Modern Language: Intro/Elem	8

MAJOR IN PHYSICS (Bachelor of Science)

A student majoring in physics must complete 65 quarter hours in the major, the required cognates, and the general studies program for the baccalaureate degree as outlined in this bulletin. The aptitude and the physics sections of the GRE are required.

Major Requirements:

PHYS 115, 116	Introduction to Experimentation	2
PHYS 251, 252, 253	Principles of Physics*	9
PHYS 254, 255, 256	Principles of Physics Laboratory	3
PHYS 311	Modern Physics	3
PHYS 312	Physical Electronics	3
PHYS 313	Thermodynamics	4
PHYS 314	Modern Physics Laboratory	1
PHYS 315	Physical Electronics Laboratory	1
PHYS 316	Optics Laboratory	1
PHYS 317, 318, 319	Physics Seminar I	3
PHYS 321, 322	Optics	6
PHYS 362, 363	Theoretical Mechanics	6
PHYS 401, 402	Electricity and Magnetism	8
PHYS 411, 412, 413	Atomic and Nuclear Physics	9
PHYS 414, 415, 416	Experimental Physics	3
PHYS 417, 418, 419	Physics Seminar II	<u>3</u>
		65

Required Cognates:

CHEM 141, 142, 143	General Chemistry	12
CPTR 125 or CPTR 134	Principles of BASIC } Introduction to Computing }	2-3
ENGR 224	Circuit Analysis I	4
ENGR 324 or ENGR 354	Instrumentation } Digital Logic Circuits }	3
MATH 181, 281	Analytic Geometry and Calculus I, II	8
MATH 282, 283	Analytic Geometry and Calculus III, IV	8
MATH 289	Linear Algebra and Its Applications or equivalent	3
MATH 311	Probability and Statistics	4
MATH 312	Ordinary Differential Equations	4
MATH 341 or MATH 423	Numerical Analysis I Intro. Theory of Complex Variables }	4

*Students who have completed PHYS 211, 212, 213, may meet the PHYS 251, 252, 253 requirement by passing a departmental examination.

MAJOR IN BIOPHYSICS (Bachelor of Science)

A student majoring in biophysics must complete 33 quarter hours in biology and 38 quarter hours in physics, the required cognates and the general studies program for the baccalaureate degree as outlined in this bulletin. GRE in physics and biology is required. One summer term at the Marine Station is required. Specific course requirements are outlined in the Interdisciplinary section of this bulletin.

MINOR IN PHYSICS

A student minoring in physics must complete 27 quarter hours:

Electives (3 must be upper division)	27
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Approval of physics adviser required.

PHYSICS (PHYS)**PHYS 115, 116 INTRODUCTION TO EXPERIMENTATION**

1, 1

Introduction to the principles and practice of hypothesis testing including physical measurement, experiment design and data analysis. Emphasis is placed on the use of the computer for data acquisition, graphical presentation and analysis of data and simple simulation. Prerequisite: CPTR 125 or CPTR 131 or CPTR 134. WS

PHYS 201, 202 INTRODUCTION TO PHYSICS I, II

3, 3

An introductory course in physics emphasizing concepts and models applied to physical phenomena and with less emphasis than the other introductory courses on detailed mathematical description and problem solving. The course will stress an investigative approach through the associated laboratory course as well as through group investigative demonstrations in class and some homework with a discovery character. Topics covered during the first quarter will include mechanics, properties of solids, liquids and gases, heat and electricity. Those covered during the second quarter include sound, electric and magnetic fields, light, relativity, atoms and nuclei. While not required, four quarter hours of college mathematics are strongly recommended. This course with the required laboratory may be used to satisfy the minimum general studies requirement for a sequence in science. Prerequisite: none. Corequisite: PHYS 214, 215. WS

PHYS 211, 212, 213 GENERAL PHYSICS

3, 3, 3

An introductory course in mechanics, heat, sound, light, electricity, atomic and nuclear physics, elementary particles, quantum mechanics and special relativity, designed primarily for the nonphysics major to acquaint him with the ideas and methods of physics for possible application to problems in other areas of human endeavor. Prerequisite: MATH 121, 122 or equivalent. PHYS 211 prerequisite for PHYS 212 or PHYS 213. Corequisite: PHYS 214, 215, 216. AWS

PHYS 214, 215, 216 GENERAL PHYSICS LABORATORY

1, 1, 1

Laboratory work integrated with PHYS 211, 212, 213. AWS

GEOL 231, 232 EARTH SCIENCE

4, 4

An introductory study of the earth, its composition and structure, and the processes and forces in operation. Topics include the unifying model of plate tectonics. Concepts are presented in the context of their historical development as an aid to understanding the basis of the science of geology. Three class hours per week and one laboratory session or field trip per week. Does not apply on major or minor. GEOL 231 prerequisite for GEOL 232.

PHYS 241, 242 GENERAL ASTRONOMY

4, 4

Introduction to modern astronomy with emphasis on the place of astronomy in man's cultural and scientific thought and experience: planets, moons, comets, meteors, the solar system as a unit; the sun, stars, galaxies and the sidereal universe. Laboratory or night observation once a week. This course will meet the basic science requirement for the baccalaureate degree. AW

PHYSICS

PHYS 251, 252, 253 PRINCIPLES OF PHYSICS	3, 3, 3
An introductory course in mechanics, relativity, electromagnetism and wave motion, designed to provide the science and engineering major with an intuitive and a mathematical understanding of fundamental physical concepts. Must be taken in sequence. Prerequisites: MATH 181, MATH 281. Corequisites: PHYS 254, 255, 256; MATH 282, 283. AWS	
PHYS 254, 255, 256 PRINCIPLES OF PHYSICS LABORATORY	1, 1, 1
Experimental exploration and study of the fundamental concepts of physics. AWS	
PHYS 251, 252, 253 or equivalent and MATH 181, MATH 281, 282, 283 are prerequisites for all courses numbered PHYS 300 or above except PHYS 352; PHYS 353; PHYS 472.	
PHYS 311 MODERN PHYSICS	3
Basic principles of quantum theory, atomic and nuclear structure. Corequisites: PHYS 314; MATH 311. A	
PHYS 312 PHYSICAL ELECTRONICS	3
Physical principles of solid state, gaseous and vacuum electronic devices. Prerequisite: PHYS 313. Corequisite: PHYS 315. S	
PHYS 313 THERMODYNAMICS	4
An introduction to the physical theories of equilibrium thermostatics and irreversible thermodynamics based on elementary statistical mechanics. Prerequisites: PHYS 311; MATH 311. W	
PHYS 314 MODERN PHYSICS LABORATORY	1
Experimental study of the characteristics of alpha, beta and gamma radiation, interaction of radiation with matter, neutron activation. Corequisite: PHYS 311. A	
PHYS 315 PHYSICAL ELECTRONICS LABORATORY	1
Experiments in crystal and semiconductor physics, properties of ionized gases, measurement of fundamental physical constants. Corequisite: PHYS 314. S	
PHYS 316 OPTICS LABORATORY	1
Experimental study of geometrical and physical optics. W	
PHYS 317, 318, 319 PHYSICS SEMINAR I	1, 1, 1
Contemporary and classical topics in physics presented for discussion and study with emphasis placed on underlying principles and the interrelation of physical concepts. Major topics will not be repeated more often than biyearly. Regular use will be made of the current literature of physics. AWS	
PHYS 321, 322 OPTICS	3, 3
Classical theory of radiation and optics based on Maxwell's equations: reflection, refraction, dispersion, diffraction, interference, coherence, polarization, scattering, polychromatic waves. Corequisite: PHYS 316. AW	
PHYS 352, 353 RADIOISOTOPE TECHNIQUES	2, 2
Laboratory work accompanied by lectures appropriate to the techniques studied in the laboratory: radiation detection, instrumentation, radiological safety, interaction of radiation with matter, ionization chambers, proportional counters, Geiger counters, scintillation counters, spectrometers, monitoring and survey instruments, activation analysis, selected biological and chemical studies. Prerequisite: PHYS 211, 212, 213 or CHEM 141, 142, 143. WS	
PHYS 362, 363 THEORETICAL MECHANICS	3, 3
Statics and dynamics of particles, fluids and rigid bodies, harmonic and orbital motion, Lagrangian and Hamiltonian mechanics. WS	
PHYS 401, 402 ELECTRICITY AND MAGNETISM	4, 4
Electric and magnetic field theory, polarization, magnetization, solutions to the equations of Laplace and Poisson, Maxwell's equations, applications to plane waves, and dipole radiation. AW	

PHYSICS

PHYS 411, 412, 413 ATOMIC AND NUCLEAR PHYSICS 3, 3, 3

Experimental and theoretical foundations of modern atomic and nuclear physics: special relativity, elementary quantum mechanics, atomic structure and spectra, nuclear structure, nuclear reactions, fundamental particles. Prerequisites: PHYS 311; PHYS 321. Corequisite: PHYS 414, 415, 416. AWS

PHYS 414, 415, 416 EXPERIMENTAL PHYSICS 1, 1, 1

Experimental investigations in classical and modern physics. AWS

PHYS 417, 418, 419 PHYSICS SEMINAR II 1, 1, 1

Contemporary and classical topics in physics presented for discussion and study, with emphasis placed on underlying principles and interrelation of physical concepts. Major topics will not be repeated more often than biyearly. Regular use will be made of the current literature of physics. AWS

PHYS 472 METHODS OF TEACHING PHYSICAL SCIENCE 3

Materials, techniques and methods of teaching the physical sciences on the secondary level. Observation, demonstration and class presentation are required. Special attention is given to newer methods of teaching science to the secondary student.





PREPROFESSIONAL PROGRAMS

The College offers courses which are prerequisite for admission to professional or technical schools. Students wishing to secure admission to such schools should familiarize themselves with the admission requirements of the school of their choice. Most preprofessional curriculums require two units of high school mathematics (algebra and geometry). Preprofessional courses of study are offered for the professions hereinafter listed.

All programs should be planned in consultation with and approved by the assigned academic adviser.

ARCHITECTURE

F. Bennett, Academic Adviser

Professional schools of architecture usually require a minimum of two or three years of preprofessional study prior to admission. Final acceptance for professional studies is determined competitively and the level of expected preprofessional achievement varies considerably among schools.

The following typical two-year program will satisfy the basic entrance requirements of many professional schools of architecture. However, admission requirements vary between programs and students should reconcile their preprofessional study plans with the requirements of the particular institutions to which they intend to apply.

ART 161, 162, 163	Design	9
ART 184, 185	Introduction to Drawing	4
ART 231, 232	Architectural Rendering	4
ART 251	Introduction to Art	4
ART 324, 325, 326	History of Art	6
CPTR 134	Introduction to Computing	3
ENGL 121, 122	College Writing	8
ENGR 121, 122, 123	Introduction to Engineering	6
HIST 121, 122	History of Western Civilization	8
MATH 121, 122	Fundamentals of Mathematics I, II	8
MATH 181	Analytic Geometry and Calculus I	4
MATH 281	*Analytic Geometry and Calculus II	4
PEAC	Electives	3
PHYS 211, 212, 213	General Physics	9
PHYS 214, 215, 216	General Physics Laboratory	3
PSYC 130	*General Psychology	4
RELB, RELH, RELT	Electives	8
SPCH 101	Fundamentals of Speech Communication	4

Suggested courses; other courses may also be appropriate.

CHIROPRACTIC

R. Rittenhouse, Academic Adviser

Two years of college preparation are generally required, including one year of biology and at least one year of chemistry. The student should obtain a bulletin from each chiropractic college to which he wishes to apply for information on entrance requirements. State requirements also vary, and such information is available from the chiropractic college. Of the dozen approved schools in the United States, Western States Chiropractic College in Portland, Oregon, is the only one in the Northwest.

DENTISTRY

J. Galusha, Academic Adviser

The minimum requirement for admission to the study of dentistry is 96 quarter hours. However, most dental schools expect candidates for admission to have completed a bachelor's degree in any area of the student's choice. The following courses are basic:

BIOL 101, 102, 103	General Biology (or Zoology)	12
CHEM 141, 142, 143	General Chemistry	12
CHEM 321, 322, 323	Organic Chemistry	12
ENGL 121, 122	College Writing	8
MATH 121, 122	Fundamentals of Mathematics I, II	8 or equivalent
MGMT 171	Principles of Management	4
PHYS 211, 212, 213	General Physics	9
PHYS 214, 215, 216	General Physics Laboratory	3
	Religion	one course per year

INDS 241, 242, 243; ACCT 121, 122, 123, FDNT 220, some calculus and two psychology courses are strongly recommended by Loma Linda University.

DENTAL ASSISTANT

A. Grable, Academic Adviser

The minimum requirement for admission to the study of dental assistantship is 48 quarter hours from a liberal arts college. A 2.5 grade-point average is recommended. The following courses are to be included for the Associate of Science degree from Loma Linda University:

ACCT 121, 122 or ACCT 125	*Principles of Accounting	5-7
BIOL 101	General Biology	
CHEM 101, 102	*Introductory Chemistry	8
ENGL 121, 122	College Writing	8
OFAD 121, 122, 123	*Beginning Typewriting	6
PSYC 130	General Psychology	4
SOCI 204	General Sociology	4

PREPROFESSIONAL PROGRAMS

SPCH 101	Fundamentals of Speech Communication	4
	Religion	4-6

*Or secondary school credit with a grade of C or better. At least one of these areas should be taken on the secondary level to be able to complete the program in one year.

DENTAL HYGIENE

A. Grable, Academic Adviser

Students planning for careers in dental hygiene must complete 96 quarter hours with a cumulative grade-point average of 3.0 or above before seeking admission to the various dental hygiene programs. Some schools require that electives include a foreign language. Other schools require the advanced First Aid Certificate; check with adviser.

Loma Linda University

Experience has indicated that a minimum average of 3.10 is needed to compete for admission to the program at Loma Linda University. The following courses are required in preparation for advanced studies there:

BIOL 101	General Biology	4
BIOL 201, 202	Anatomy and Physiology	8
BIOL 222	Microbiology	5
CHEM 101, 102	Introductory Chemistry	8
ENGL 121, 122	College Writing	8
PSYC 130	General Psychology	4
SPCH 101	Fundamentals of Speech Communication	4
SOCI 204	General Sociology	4
	History or Economics	8
	Literature, Fine Arts, Philosophy and/ or Foreign Language (choose at least two)	12
	Physical Activity courses	3
	Religion	8

The Bachelor of Science degree is awarded by Loma Linda University.

DIETETICS

J. Bishop, Academic Adviser

Students pursuing careers in therapeutic or administrative dietetics must meet requirements as specified by the American Dietetics Association (ADA). The first two years or 96 quarter hours are to be completed on the Walla Walla College campus. The remaining two years are to be completed in a Coordinated Undergraduate Program approved by ADA. Consult with the academic adviser for a complete course outline. The degree is *not* awarded by Walla Walla College.

PREPROFESSIONAL PROGRAMS

LAW

W. Messer, Academic Adviser

There is no specific curriculum for prelaw students. Courses designed to develop skills in oral and written communication and the ability to reason and think analytically are strongly recommended.

Most law schools require the completion of a bachelor's degree for admission. Admission requirements also include a satisfactory grade-point average and score on the Law School Admission Test (LSAT). Law schools vary in the levels of achievement required for admission. Students planning to study law should consult with the prelaw adviser to make sure the students' proposed schedule of courses will meet requirements of the law school which they plan to attend.

MEDICINE

R. Rittenhouse, Academic Adviser

Most medical schools require completion of a bachelor's degree with a grade-point average of 3.5 or above, computed separately for science and nonscience courses. The following courses are normally required by Loma Linda University:

BIOL 101, 102, 103	General Biology	12
CHEM 141, 142, 143	General Chemistry	12
CHEM 321, 322, 323	Organic Chemistry	12
ENGL 121, 122	College Writing	8
PHYS 211, 212, 213	General Physics	9
PHYS 214, 215, 216	General Physics Laboratory	3
or		
PHYS 251, 252, 253	Principles of Physics	9
PHYS 254, 255, 256	Principles of Physics Laboratory	3
Religion		16
Calculus strongly recommended		

If applying to a medical school other than Loma Linda University, it is recommended the following courses also be included:

BIOL 266	Developmental Biology	4
CHEM 264, 265, 266	Analytical Chemistry	10
CHEM 351, 352, 353	Physical Chemistry	12
	Modern Language	

MEDICAL TECHNOLOGY

R. Rittenhouse, Academic Adviser

Students wishing to become medical technologists may complete the first three years at the College and transfer to approved hospitals for the fourth

year. Upon completion of the fourth year, the student will receive a Bachelor of Science degree.

Specific course requirements are listed in the Interdisciplinary section of this bulletin.

NURSING

W. Huff, W. Anderson, Academic Advisers

For details about courses, etc., in nursing, please see the Nursing section of this bulletin. Candidates who plan to enter other schools should write to the director of the nursing school of their choice and ask for specific requirements.

OCCUPATIONAL THERAPY

J. Turner, Academic Adviser

Students who are preparing for the Bachelor of Science degree in occupational therapy should plan to complete 96 quarter hours before entering the professional training. The following curriculum is recommended:

BIOL 201, 202	Anatomy and Physiology	8
BIOL 222	Microbiology	5
ENGL 121, 122	College Writing	8
PSYC 130	General Psychology	4
SOCI 424	Human Development and the Family	4
SPCH 101	Fundamentals of Speech Communication	4
	Anthropology or Sociology	4
	Select an additional behavioral science course.	
	Chemistry, Mathematics or Physics	12
	Select at least one science sequence. Science must include laboratory.	
	Humanities	12
	Some courses in ceramics, woodworking and general crafts are recommended. Select one course from: fine arts, foreign language, literature, philosophy. (History of Civilization may be counted either in humanities or social sciences.)	
	Religion	12
	Students must have an average of two quarter hours of religion for every quarter of attendance at a Seventh-day Adventist college up to 12 hours.	
	Electives	
	To meet the minimum of 96 quarter hours. Courses in applied art and behavior science are recommended.	

The Allied Health Professional Admissions test is required of students entering Loma Linda University.

PREPROFESSIONAL PROGRAMS

OPTOMETRY

T. Anderson, Academic Adviser

Two years of college preparation are the minimum requirement for admission to most optometry schools, and this is generally followed by four years of training for the Doctor of Optometry degree. In some cases the Bachelor of Science degree may also be awarded by the optometry school.

The preprofessional curriculum should include as a minimum the following courses:

BIOL 101, 102, 103	General Biology	12
CHEM 141, 142, 143	General Chemistry	12
ENGL 121, 122	College Writing	8
MATH 121, 122	*Fundamentals of Mathematics I, II	8
MATH 181	Analytic Geometry and Calculus I	4
PHYS 211, 212, 213	General Physics	9
PHYS 214, 215, 216	General Physics Laboratory	3
PSYC 130	General Psychology	4

*Fundamentals of Mathematics should be taken the first year.

It is important that the student obtain a catalog from each college of optometry he may wish to enter, since these schools differ widely in their recommendations of other courses for the preoptometry program. Other commonly required courses include:

CHEM 321, 322, 323	Organic Chemistry	12
PSYC 225	Psychological Experiments	2

Competition for admission to some optometry schools is enough that the student would do well to complete a third year of college (and advanced courses in chemistry and biology) unless he achieves a very strong academic record.

OSTEOPATHY

R. Rittenhouse, Academic Adviser

Schools of osteopathic medicine usually require a degree from an accredited college. The course requirements are essentially the same as for medical schools. (See the medical requirements listed previously in this section of the bulletin.)

PHARMACY

R. Wade, Academic Adviser

At least two years of general college work are required. Students should consult with the college of pharmacy of their choice about course requirements. The following courses should be included:

PREPROFESSIONAL PROGRAMS

BIOL 101, 102, 103	General Biology (or Zoology)	12
BIOL 201, 202	Anatomy and Physiology	8
BIOL 360	Survey of the Plant Kingdom	4
BIOL 465	Bacteriology	5
CHEM 141, 142, 143	General Chemistry	12
CHEM 264, 265	Analytical Chemistry	7
CHEM 321, 322, 323	Organic Chemistry	12
ENGL 121, 122	College Writing	8
HIST 221, 222	History of the United States	8
MATH 121, 122	Fundamentals of Mathematics I, II	8
PHYS 211, 212, 213	General Physics	9
PHYS 214, 215, 216	General Physics Laboratory	3
PSYC 130	General Psychology	4
	Health Science	2
	Physical Activity courses	2

All pharmaceutical colleges require three years in residency beyond the two years of prepharmacy; some require four years.

PHYSICAL THERAPY

J. Turner, Academic Adviser

The minimum requirement is the completion of 96 quarter hours. The following courses must be completed:

BIOL 101, 102, 103	General Biology	8-12
or		
BIOL 201, 202	Anatomy and Physiology	
BIOL 222	Microbiology	5
ENGL 121, 122	College Writing	8
	Chemistry (a complete course with laboratory)	8-12
	Humanities	12
	Select from at least two fields: fine arts (3 quarter hours of applied music or arts may be included), language, literature, philosophy or speech (highly recommended).	
	Physics	6
	(A course with laboratory is required, in addition, of students not having had high school physics).	
	Religion	12
	Social Studies	12
	To include child or adolescent psychology, general psychology, (minimum 4 quarter hours). Additional courses may be selected from economics, history, political science or sociology.	
	Electives	18-21
	To meet the minimum of 96 quarter hours. Courses in art and behavioral sciences are recommended.	

PREPROFESSIONAL PROGRAMS

PUBLIC HEALTH

G. Schneider, Academic Adviser

Loma Linda University offers a Master of Public Health (M.P.H.) as a professional degree that can be completed in three to six quarters. Major areas of study include biostatistics, environmental health, epidemiology, health administration, health education, nutrition, preventive care and tropical health.

The Master of Science in Public Health (M.S.P.H.) degree is offered in health education, biostatistics and parasitology and can usually be completed in four quarters.

Research and thesis programs leading to the Master of Science (M.S.) degree are offered through the graduate school by the department of biostatistics and nutrition.

Specific information about prerequisites and programs leading to the above-mentioned degrees is available in the School of Health bulletin, Loma Linda University.

RADIOLOGICAL TECHNOLOGY

W. Napier, Academic Adviser

Forty-five quarter hours are required for admission to most schools of radiological technology. College courses should be chosen to remove high school deficiencies in mathematics and science, if such exist. Courses such as anatomy and physiology, chemistry, general psychology, general physics and mathematics should be taken, and, whenever possible, typing. Inquiry should be made of the school to be attended for specific entrance requirements.

RESPIRATORY THERAPY

W. Napier, Academic Adviser

The minimum requirement for admission to the study of respiratory therapy is 48 quarter hours. The following courses are to be included for the Associate of Science degree from Loma Linda University:

BIOL 101, 102, 103	General Biology	8-12
or		
BIOL 201, 202	Anatomy and Physiology	5
BIOL 222	Microbiology	8
ENGL 121, 122	College Writing	8
MATH 100	Intermediate Algebra	4
PHYS 201, 202	Introduction to Physics I, II	6
PSYC 130	General Psychology	4
or		
SOCI 204	General Sociology	

Chemistry (a complete course with laboratory)	8-12
Religion	6
Students must have an average of two quarter hours of religion for every quarter of attendance at a Seventh-day Adventist college up to 6 hours.	
Electives	
To meet the minimum of 48 quarter hours. (Speech is highly recommended.)	

VETERINARY SCIENCE

J. Galusha, Academic Adviser

There are approximately 18 colleges of veterinary science in the United States. Since the basic requirements are not exactly the same, the student should confer with the college of his choice. The following will meet the requirements for Washington State University for students who are residents of Washington, Oregon and Idaho.

Requirements:

BIOL 101, 102, 103	General Biology	12
CHEM 141, 142, 143	General Chemistry	12
CHEM 321, 322, 323	Organic Chemistry	12
CHEM 431	Biochemistry	4
ENGL 121, 122	College Writing	8
MATH 121, 122	Fundamentals of Mathematics I, II	8
PHYS 211, 212, 213	General Physics	9
PHYS 214, 215, 216	General Physics Laboratory	3
SPCH 101	Fundamentals of Speech Communication	4
	Humanities and Social Studies	15-20
AS307X	Nutrition, Animal (Correspondence course at Washington State University)	3

Nonacademic Requirements:

Graduate Record Examination Test (General Aptitude)

Veterinary Medical Exposure 300-500 hours

Applicants must record a minimum of 300 hours of contact with a graduate veterinarian by June of the year in which admission may be granted. One hundred hours of animal experience may be substituted as a portion of the 300-hour minimum requirement.

Recommended Courses:

See preveterinary adviser for additional courses recommended by Washington State University Curriculum Committee.



RELIGION

S. Kubo, Dean; J. Brunt, E. Bursey, J. Dybdahl, G. Greenwalt, P. Grove, L. Knapp, G. Mattison, L. Veverka, A. Thompson, G. Winslow.

The principal purposes of the School of Theology are to provide undergraduate education for students seeking to enter the ministry and to offer courses in religion as desired by students in various other curricula of the College.

Candidates for the ministry are selected on the basis of scholarship, spiritual qualities, cultural refinement, social sympathies and skills. Ministerial students are admitted to candidacy for a Bachelor of Arts degree with a major in theology upon the approval of the theology faculty at the beginning of the junior year. Those approved will then work to meet seminary entrance requirements by completing a theology major. Two additional years of graduate study at the Theological Seminary of Andrews University should be anticipated for ministerial internship.

Those who expect a recommendation to the seminary and/or those who plan to be pastors, evangelists, Bible workers, or Bible teachers should take a theology major. The religion major is available to those who are not planning on the ministry, and for those anticipating additional graduate training in such fields as medicine, dentistry and law.

All majors must successfully complete a senior comprehensive examination. Theology majors must also pass a Greek proficiency examination typically given near the end of each winter quarter. Successful completion of this examination may permit the waiving of REL 223. Those planning to attend the seminary should make sure that they obtain the necessary undergraduate subjects required for entrance. Students who plan to teach religion in academies must aim for teacher certification as outlined in the Education section of this bulletin. Students should consult the dean of the school of theology about courses required as early as possible in their college career.

The Biblical languages major is intended for those students who wish to gain facility in use of the basic tools for Biblical study, especially those anticipating graduate work in this and related areas.

MAJOR IN BIBLICAL LANGUAGES (Bachelor of Arts)

A student majoring in Biblical languages must complete 45 quarter hours in the major, the required cognates, and the general studies program for the baccalaureate degree as outlined in this bulletin.

Major Requirements:

RELL 121, 122, 123	Greek I	12
RELL 221, 222, 223	Greek II	9
RELL 441	Introduction to Biblical Hebrew	3
RELL 442, 443	Hebrew I	6
	Electives (12 must be upper division)	15
Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.		45

RELIGION**Required Cognates:**

RELB 223	Exegesis of Romans (Greek)	3
RELH 405	Biblical Archaeology	2
RELH 406	History of the English Bible	2
RELH 455	Development of the Christian Church	3
RELT 404	A Scientific Approach to Biblical Interpretation	2

MAJOR IN RELIGION (Bachelor of Arts)

A student majoring in religion must complete 50 quarter hours in the major (27 quarter hours must be upper division), the required cognates, and the general studies program for the baccalaureate degree as outlined in this bulletin.

Major Requirements:

RELB	Biblical Studies	20
	At least 6 quarter hours must be in Old Testament studies (RELB 111; 301; 302; 303; 304, 305, 306; 312), and at least 6 hours in New Testament studies (RELB 104, 105; 106; [or 141, 142, 143]; 216; 313; 434, 435, 436; 464, 465, 466).	
RELG 495	Colloquium	0
	Required each quarter of juniors and seniors while in residence.	
RELG 496	Seminar in Religion	2
RELH 402 or RELH 403	Modern Denominations World Religions	3
RELT 230	Discipleship and Mission	4
RELT 246	Christian Ethics Electives	4
		<u>17</u>

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.

50

Required Cognates:

RELG/ENGL 224	Research Writing in Religion	3
	Foreign Language	12

MAJOR IN THEOLOGY (Bachelor of Arts)

A student majoring in theology must complete 60 quarter hours in the major, the required cognates, and the general studies program for the baccalaureate degree as outlined in this bulletin.

Major Requirements:

RELB 141, 142, 143	Biblical Exegesis	9
RELB 223	Exegesis of Romans (Greek)	3
RELB 301	Old Testament History	3
RELG 495	Colloquium	0
	Required each quarter of juniors and seniors while in residence.	
RELG 496	Seminar in Religion	4
RELH 455	Development of the Christian Church	3
RELP 150	Ministerial Orientation	0
RELP 241, 242, 243	Personal Ministry	4

RELIGION

RELT 316	Inspiration and Ellen White	}	2
or			
RELH 317	Denominational History		
RELT 456, 457	Systematic Theology I, II		6
	Electives (16 must be upper division)		<u>26</u>
			60

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman and must include at least one other RELP course; one course from the following: RELB 302, 303, 304, 305, 306, 312; and one course from the following: RELB 313, 434, 435, 436, 464, 465.

Required Cognates:

ENGL 224	Research Writing in Religion	3
HIST 465	The Renaissance and Reformation	4
PHIL 407	Philosophy of Science	4
RELL 121, 122, 123	Greek I	12
RELL 221, 222, 223	Greek II	9
RELL 441	Introduction to Biblical Hebrew	3
SPCH 101	Fundamentals of Speech Communication	4
SPCH 381, 382, 383	Pulpit Address	6

MINOR IN BIBLICAL LANGUAGES

A student minoring in Biblical languages must complete 30 quarter hours:
Electives (6 must be upper division) 30

Approval of Biblical languages adviser required. Recommended electives outside the minor are RELB 223; RELH 405, 406, 455; RELT 404.

MINOR IN RELIGION

A student minoring in religion must complete 30 quarter hours:
Electives (9 must be upper division) 30

Approval of religion adviser required.

BIBLICAL STUDIES (RELB)

RELB 101, 102, 103 BIBLE SURVEY	2, 2, 2
An introductory course designed to provide the tools necessary for an understanding of the Bible. Portions of both the Old and New Testaments are studied in order that the student may gain insight into the major divisions of the Scripture story. Students having had Bible courses on the secondary or college level should not register for this course.	
RELB 104 THE MINISTRY OF JESUS	4
A survey of Christ's life in its historical setting as a basis for determining Christian action.	
RELB 105, 106 THE MESSAGES OF JESUS	2, 2
A study of the Sermon on the Mount and Jesus' parables as they relate to the needs of the Christian.	

RELIGION

RELB 111 MESSAGES OF THE OLD TESTAMENT	4
A survey of the basic themes of the Old Testament.	
RELB 141, 142, 143 BIBLICAL EXEGESIS	3, 3, 3
An introductory course which inductively leads the student into a study of the God-man, the nature of His kingdom and the teachings of Christ concerning Himself, His law and the way of salvation. The concepts of Matthew and John are studied so that the theology of Christ is seen against the background of His earthly life. Open only to departmental majors. Must be taken in sequence.	
RELB 216 MESSAGES OF PAUL	4
A survey of the basic themes of Paul's letters.	
RELB 223 EXEGESIS OF ROMANS (GREEK)	3
An exegetical study of the letter of Paul to the Romans based on the Greek text. Prerequisite: RELB 221, 222, 223 and/or the successful completion of the Greek proficiency examination.	
RELB 281, 282, 283 THE NEW TESTAMENT AND ITS ENVIRONMENT (HONORS)	2, 2, 2
See the honors programs listed under the Interdisciplinary section of this bulletin.	
RELB 301 OLD TESTAMENT HISTORY	3
A study of the historical framework in which the religion of Israel developed. Attention is paid to dominant events and trends in God's saving relationship to His covenant people.	
RELB 302 PENTATEUCH	3
An exegetical examination of significant passages in the first section of the Hebrew Canon. Attention is given to the historical setting, authorship, time, circumstance of writing and other literary questions.	
RELB 303 WRITINGS	3
An introduction to the third section of the Hebrew Canon. Attention is given to authorship, the time and circumstance of writing and other literary questions.	
RELB 304, 305, 306 HEBREW PROPHETS	3, 3, 3
A study of the second part of the second section of the Hebrew Canon from the viewpoint that these things "were written for our admonition upon whom the ends of the world are come." Attention is given to the historical setting of the prophecies, with careful exegetical study of the text, emphasizing the fundamentals of the gospel as contained therein.	
RELB 312 DANIEL	3
An advanced course on the historical setting and significance of the book. The prophetic features of the book are studied in the light of both secular and church history to provide the student with a clearer insight into contemporary religious conditions.	
RELB 313 REVELATION	3
An advanced course on the historical setting and significance of the book. The prophetic features of the book are studied in the light of both secular and church history to provide the student with a clearer insight into contemporary religious conditions.	
RELB 434, 435, 436 GOSPELS	3, 3, 3
An exegetical examination of each gospel within its historical context to determine the particular message of each and the literary devices employed to convey this message and its relevance for today.	
RELB 464, 465, 466 NEW TESTAMENT EPISTLES	3, 3, 3
An exegetical study of the writings of Paul and the General Epistles of the New Testament within their historical context. This course is intended for any student who wishes to make a thorough study of this literature. <i>Students who have taken RELB 216 should not register for this course without special permission. Theology students should not register for RELB 466 (Romans).</i>	

GENERAL (RELG)

RELG 224 RESEARCH WRITING IN RELIGION (or ENGL 224) 3
 See the English section of this bulletin for description.

RELG 495 COLLOQUIUM 0
 A departmental seminar offered each quarter in which current theological and religious topics are discussed by staff and/or visiting lecturers. Required of all upper-division departmental majors each quarter.

RELG 496 SEMINAR IN RELIGION 2; 6
 These seminars involve intensive individual study, written reports and group discussion on assigned Biblical, missiological, historical, professional, contemporary theological and ethical issues. Open only to departmental majors. The winter seminar is required for theology majors. Prerequisite: ENGL 224 or RELG 224.

RELIGIOUS HISTORY (RElh)

RElh 249 RELIGION IN A SOCIAL CONTEXT (HONORS) [or SOCI 249] 4
 See the honors program listed under the Interdisciplinary section of this bulletin.

RElh 317 DENOMINATIONAL HISTORY 2
 A study of the rise and development of the Seventh-day Adventist denomination.

RElh 402 MODERN DENOMINATIONS 3
 This course deals with the cardinal teachings of a number of the prominent denominations of the world. Comparisons are made of the teachings relating to God, salvation, sin and the future.

RElh 403 WORLD RELIGIONS 3
 A short study of the greater religions of mankind, such as Hinduism, Buddhism, Confucianism, Shintoism, Islam and Christianity. Consideration is given to the historical setting out of which these religions arose, their founders, their basic teachings and rituals, their conceptions of God and man, as well as their influence on cultural development.

RElh 405 BIBLICAL ARCHAEOLOGY 2
 An introduction to the science of archaeology with particular attention to those discoveries which bear on the interpretation of the Biblical text.

RElh 406 HISTORY OF THE ENGLISH BIBLE 2
 A survey of the history of the Bible from the earliest manuscripts through the science of textual criticism to a comparison of the numerous English versions currently available.

RElh 455 DEVELOPMENT OF THE CHRISTIAN CHURCH 3
 A course on the rise of Christianity with emphasis on the development of theological concepts.

BIBLICAL LANGUAGES (RELL)

RELL 121, 122, 123 GREEK I 4, 4, 4
 An introductory study of the elements of New Testament Greek with experience in translation. This course emphasizes the development of the ability to read the original language, and at the same time aims to create an interest in the New Testament. The First Epistle of John is translated as well as selected chapters in the Gospel of John.

RELL 221, 222, 223 GREEK II 3, 3, 3
 Continued reading in the Greek New Testament with emphasis upon principles of interpretative translation. The book of Revelation and selections from the Gospels are used in developing a facility in translation.

RELIGION

RELL 341, 342, 343 DOCTRINAL EPISTLES OF PAUL	2, 2, 2
An exegetical study of the great doctrinal epistles of Paul. Selections from the letters of the Thessalonians, Corinthians, Romans and Galatians are especially studied as examples of the apostle's theological writings.	
RELL 344, 345, 346 LATER EPISTLES OF PAUL	2, 2, 2
An exegetical study of examples of Paul's later letters, especially the so-called prison epistles. The epistles of Paul to the Ephesians, Philippians and Colossians are studied as well as Hebrews.	
RELL 441 INTRODUCTION TO BIBLICAL HEBREW	3
An introduction to the basic elements of Biblical Hebrew. Designed to enable the student to use the language as a tool in Biblical studies and to provide a basis for further study in Hebrew.	
RELL 442, 443 HEBREW I	3, 3
A concentrated study of Hebrew grammar. Emphasis is given to the mastery of the regular verb, use of the lexicon, and the reading of narrative prose from the Pentateuch and the Prophets. RELL 441 is prerequisite to RELL 442 or RELL 443.	
RELL 451, 452, 453 HEBREW READING	2, 2, 2
Directed reading in the prophetic sections of the Hebrew Bible. Material from Isaiah and either Jonah or Hosea is selected for translation. Some experience in the translating from the Dead Sea Scrolls is provided in the spring quarter.	
RELL 461, 462 TEXTUAL CRITICISM OF THE NEW TESTAMENT	2, 2
A study of materials, methods and history of New Testament textual criticism, with practical exercise using microfilms and facsimiles of manuscripts. Must be taken in sequence.	
RELL 463 TRANSLATION PROBLEMS	2
A study of the methods, resources and history of the art of Bible translation. A critical evaluation will be made of the important contemporary translations and of some of the more important translation problems.	

MISSIONS (RELM)

RELM 233 INTRODUCTION TO CROSS-CULTURAL MINISTRY	3
A study of the major issues involved in communicating Christianity in other cultures with the aim of preparing the student for actual field work. This prerequisite for student missionaries is also open to other interested students.	

PROFESSIONAL (RELP)

RELP 150 MINISTERIAL ORIENTATION	0
A ministerial orientation seminar offered the autumn quarter by the theology staff and visiting lecturers which includes the many facets of the ministerial profession. Required of all freshman and transfer theology majors.	
RELP 241, 242, 243 PERSONAL MINISTRY	2, 1, 1
Designed to develop and demonstrate skills in personal ministry; including individual or small group evangelism and pastoral visitation. Theory and practice are blended together to aid in successfully applying the art as well as teaching it to others. Open only to theology majors. Prerequisite: RELB 141, 142, 143.	
RELP 370 HOSPITAL MINISTERIAL TRAINING	2 or 6
This course is offered as a seminar at the Portland Adventist Medical Center or the Walla Walla General Hospital. Besides a balanced program of clinical experience, there will be films, discussion, lectures by physicians, chaplains and other resource personnel. Registration by permission only; class limited to five students. (Two quarter hours, Walla Walla General Hospital; six quarter hours, Portland Adventist Medical Center.)	

RELP 381 CHURCH ADMINISTRATION 3

Study of church organization, election and duties of church officers, church boards, business meetings and finances, with opportunity for observation and participation in these phases of church activity. Careful study is given to principles of Christian worship and the special services of the church.

RELP 447 PASTORAL EVANGELISM 3

A survey of evangelistic methods used by Seventh-day Adventist pastors. Emphasis will be placed on health evangelism, Sabbath School outreach, cottage meetings, small-scale public evangelism and other soulwinning programs commonly used in the local church. Students will be encouraged to develop unique evangelistic approaches.

**RELP 472 METHODS OF TEACHING BIBLE
IN THE SECONDARY SCHOOL** 3

An examination of current teaching practices in the secondary school in the area of religion with emphasis on objectives, content, organization, and materials and resources available. Observations in the schools along with microteaching giving opportunity to demonstrate competency is required. Will not apply on a major or minor in theology or religion.

RELP 481 PASTORAL COUNSELING 3

The basic principles of counseling studied from the perspective of the pastor.

RELP 482 INTRODUCTION TO PASTORAL CARE 3

The nature and function of pastoral care from a theological perspective. Practical applications of theological insights will be made to the vocation of the pastor.

RELP 483 ADVANCED PASTORAL CARE 3

A focus on the role of the pastor in relationship to his ministry to families. Specific areas to be studied will include the pastor as premarital counselor, as marriage and family counselor, and as marriage and family life enrichment leader. Prerequisite: RELP 482 or permission of the instructor.

RELP 490 FIELD EVANGELISM 1-3; 3

Experience in evangelistic techniques is obtained by giving Bible studies and/or holding meetings. One to three hours any quarter; maximum, three.

THEOLOGY (RELT)**RELT 112 THEOLOGY OF CHRISTIAN WITNESSING** 3

A study of the theology and methodology of the individual Christian witness in a contemporary world.

RELT 201 THE CHRISTIAN WAY OF SALVATION 4

A systematic study of the Christian way of life including such topics as conversion, righteousness by faith, Christian growth and witnessing.

RELT 202 BASIC CHRISTIAN BELIEFS 4

A study of the Christian teachings about God and human beings. Topics such as the trustworthiness of the Bible, creation and the controversy between good and evil will be explored. Special attention will be given to the distinctive Seventh-day Adventist beliefs.

RELT 204 CONTEMPORARY ISSUES IN ADVENTIST THOUGHT 4

A study of current ideas and issues in Adventist theology designed for those who have an adequate background in Adventist doctrine.

RELT 230 DISCIPLESHIP AND MISSION 4

A course designed to explore the relationship of the individual to the church. Attention is given to the development of study skills with analysis of a member's responsibility to the church community. Specific areas to be covered include: methods of Bible study, the use of tools for Bible study, organization of the church, the role of the layman in the administration of the church, the mission of the church. Designed primarily for the nonministerial student.

RELIGION

RELT 246 CHRISTIAN ETHICS

4

A study of moral decision-making from the perspective of Christian theology. The moral implications of Christian faith for contemporary issues will be examined.

RELT 312 BIOETHICS

3-4

A study of contemporary moral issues in biology and medicine in the light of Christian ethics. Topics such as abortion, euthanasia, eugenics, human experimentation and the distribution of scarce life-saving resources will be discussed.

RELT 314 ESCHATOLOGY

3

A study of the final events of this earth's history as outlined in the great lines of Bible prophecy and the writings of Ellen G. White. Emphasis is placed upon the important issues in the great controversy between good and evil and the final establishment of God's everlasting kingdom upon the earth.

RELT 315 INSPIRATION AND THE BIBLE WRITERS

2

A study of inspiration and revelation as given by God to meet the needs of man and their function through the centuries.

RELT 316 INSPIRATION AND ELLEN G. WHITE

2

A study of the life and ministry of Ellen G. White in the framework of inspiration in modern times.

RELT 404 A SCIENTIFIC APPROACH TO BIBLICAL INTERPRETATION

2

The doctrines of inspiration and revelation are considered in preparation for a survey of the history of the canon and the critical disciplines employed by scholars to arrive at a better understanding of the text.

RELT 408 DOCTRINE OF THE SANCTUARY

3

A study of the Hebrew tabernacle and its services with special emphasis on its significance for Christian faith in the twentieth century.

RELT 412 PHILOSOPHY OF RELIGION (or PHIL 412)

4

An investigation of religious thought and practice from a philosophical perspective. Attention will be given to such topics as the arguments for the existence of God, the relationship of faith and reason, the use of religious language, and the problem of evil.

RELT 417, 418, 419 CHRISTIAN DYNAMICS

3, 3, 2

An analytical study and practical application of the dynamics of Christian behavior. An advanced course designed to guide the student in understanding and experiencing the moving physical, mental, spiritual and social forces that produce constructive thought, healthy motivation and positive action in the religious life.

RELT 456, 457 SYSTEMATIC THEOLOGY I, II

3, 3

A systematic study of the major teachings of the Christian religion and the Seventh-day Adventist Church in particular, with emphasis on the Bible as the authority for truth. The student will be asked to organize his concepts of Bible doctrines and to give adequate scriptural support for his positions. Designed for theology majors, or registration by permission of instructor.

SOCIOLOGY AND SOCIAL WORK

W. Hepker, Chairman; B. Gardner, D. Snarr,

(D. Snarr, Social Work Program Director; , Field Work Coordinator; P. Mitchell, E. Cochran, Field Placement Liaison Personnel)

The department of sociology and social work offers a Bachelor of Social Work degree and a Bachelor of Arts degree with a major in sociology. Minors are available in both social work and sociology.

The degree in social work is designed to prepare the student for beginning professional social work practice; to prepare students for other professions and services, particularly within the Seventh-day Adventist Church; and to prepare students for graduate professional social work education. Supervised field experience in selected social work agencies or related services is an integral part of the program. The program is accredited by the Council on Social Work Education.

Sociology broadens the student's perspective of the overall organization and function of society. A sociologist is concerned with the scientific study of social phenomena arising out of group relationships. A major in sociology is useful as preprofessional preparation for advanced research and teaching in sociology, community planning, public administration, law and medical professions, and other fields concerned with plural relationships.

SOCIAL WORK (Bachelor of Social Work)

A student majoring in social work must complete 192 quarter hours which includes the general studies required for a Bachelor of Science degree, general electives and major requirements as listed below:

Major Requirements:

Social Work

SOWK 264	Introduction to Social Work	3
SOWK 266	Social Welfare as a Social Institution	3
SOWK 350	Field Placement Orientation	0
SOWK 371	Social Work Practice with Individuals	4
SOWK 372	Social Work Practice with Small Groups	4
SOWK 373	Social Work Practice with Marriage/Family	3
SOWK 375	Social Work in Community Services	3
SOWK 465	Policy, Planning and Administration	3
SOWK 490	Field Work	14
SOWK 495	Colloquium (required of all Social Work juniors and seniors while in residence)	0
SOWK 496	Integrative Seminar	2

Sociology

SOCI 204	General Sociology	4
SOCI 236	Racial and Ethnic Relations	3
SOCI 345	Sociology of Communities	3
SOCI 424	Human Development and the Family	4
SOCI 451, 452, 453	Methods of Social Research I, II, III	4

SOCIOLOGY AND SOCIAL WORK

Psychology

PSYC 130	General Psychology	4
	Psychology electives	3

Electives

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.

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Required Cognates:

BIOL 101 or BIOL 201 or FDNT 220	General Biology	4
	Anatomy and Physiology	
	Human Nutrition	
MATH 106 or PSYC 350	Applied Statistics	4
PLSC 224 or HIST 448	Elementary Statistics	
	American Government	4
	Twentieth Century America	

MAJOR IN SOCIOLOGY (Bachelor of Arts)

A student majoring in sociology must complete 45 quarter hours in the major, the required cognates, and the general studies program for the baccalaureate degree as outlined in this bulletin.

Major Requirements:

SOCI 204	General Sociology	4
SOCI 451, 452, 453	Methods of Social Research I, II, III	4
SOCI 454	History of Social Thought	4
SOCI 455	Sociological Theory	3
	Electives	30

Electives must be chosen in consultation with and approved by the academic adviser assigned by the department chairman.

45

Required Cognates:

MATH 106 or PSYC 350	Applied Statistics	4
	Elementary Statistics	
	Modern Language	

12

MINOR IN SOCIAL WORK

A student minoring in social work must complete 30 quarter hours:

SOCI 204	General Sociology	4
SOCI 424	Human Development and the Family	4
SOWK 264	Introduction to Social Work	3
SOWK 266	Social Welfare as a Social Institution	3
	Electives	16

30

Approval of social work adviser required.

MINOR IN SOCIOLOGY

A student minoring in sociology must complete 30 quarter hours:

SOCI 204	General Sociology	4
	Electives (3 must be upper division)	<u>26</u>
		30

Approval of sociology adviser required.

ANTHROPOLOGY (ANTH)**ANTH 255 CULTURAL ANTHROPOLOGY**

3

A study of the origin and nature of culture, the uniformities and variations in man's cultural development as seen in preliterate societies, with special emphasis upon the value of the cultural concept. Prerequisite: SOCI 204.

CORRECTIONS, LAW ENFORCEMENT AND CRIMINAL JUSTICE (CORR)**CORR 285 INTRODUCTION TO LAW ENFORCEMENT AND CRIMINAL JUSTICE**

3

Philosophy and history of law enforcement; overview of crime and police problems; agencies involved in administration of criminal justice; processes of justice from detection of crime to parole of offender; evaluation of modern police services; survey of professional career opportunities and qualifications required. Observations and field trips arranged.

CORR 385 CRIMINOLOGY

2

A study of the historical background of crime and factors of deviant social behavior; a survey of criminological theories to analyze contributing factors and evaluate remedial measures now in common use. Visits to agencies and institutions arranged.

CORR 387 JUVENILE DELINQUENCY

2

A study of factors in delinquency, juvenile courts, detention and probation; an investigation and comparison of programs of treatment and prevention. Field trips arranged.

CORR 485 LAW AND SOCIETY

2

A study of the development and organization of the American legal system. Attention is given to the work of lawyers, legislators and police, and their relationship with the courts and criminal justice system. Selected topics are considered which relate the law to social change, social institutions, and morality and justice.

CORR 487 PERSPECTIVES ON THE TREATMENT OF OFFENDERS

3

A study of the treatment given juvenile and adult offenders from the arrest, through the court process and the incarceration, to the release. Field trips and guest speakers help the student evaluate the effectiveness of the criminal justice system.

SOCIAL WORK (SOWK)**SOWK 264 INTRODUCTION TO SOCIAL WORK**

3

The profession of social work in the United States; history, principles, methods and values of the social worker; settings for social work practice. Community service and field trips arranged.

SOWK 266 SOCIAL WELFARE AS A SOCIAL INSTITUTION

3

Historical development of U.S. social welfare system, examination of current social welfare institutions in terms of political, social and value systems and in terms of needs they attempt to fulfill. Recommended prerequisite: SOWK 264.

SOWK 271 ASSERTIVENESS THEORY AND PRACTICE

2

Focuses on concepts of rational and behavioral techniques with emphasis on self-awareness, intervention and assertiveness through cognitive and experiential learning.

SOCIOLOGY AND SOCIAL WORK

SOWK 350 FIELD PLACEMENT ORIENTATION	0
A field placement orientation seminar intended to make students aware of agency possibilities, application and evaluation procedures, contracts and the field instruction learning process. Required of all juniors.	
SOWK 371 SOCIAL WORK PRACTICE WITH INDIVIDUALS	4
An introduction to social work methods provided through a survey of basic intervention skills and basic interviewing techniques. The Christian value system as it relates to social work practice is explored. Students participate in field experiences and videotaped interviews. Prerequisite: SOWK 264 or approval of instructor.	
SOWK 372 SOCIAL WORK PRACTICE WITH SMALL GROUPS	4
Students learn group process skills to build a basic foundation for group intervention methods. Students will participate in and observe small groups. Prerequisite: SOWK 371.	
SOWK 373 SOCIAL WORK PRACTICE WITH MARRIAGE AND FAMILY	3
Basic intervention skills are expanded by experiencing family and marriage dynamics through role playing. Students will be exposed to various types of family practice intervention methods by audiovisual aids. Prerequisites: SOWK 371; SOWK 372.	
SOWK 375 SOCIAL WORK IN COMMUNITY SERVICES	3
The social work method known as community organization is explored for its value in meeting the needs of large groups of persons such as churches, schools and neighborhoods. Skills are emphasized. Recommended prerequisite or corequisite: SOCI 345.	
SOWK 464 CHILD WELFARE	3
Historical and contemporary aspects of problems affecting children and the welfare services assigned to deal with these problems.	
SOWK 465 POLICY, PLANNING AND ADMINISTRATION	3
A discussion of social policy, ideology, social policy formulation and analysis, social planning and administrative theory. Recommended prerequisite: SOWK 375.	
SOWK 466 COMPARATIVE THEORIES OF SOCIAL WORK PRACTICE	3
An in-depth study of selected models of social work practice with individuals, families and groups. Social work students will become skilled in the use of at least one of these models. Prerequisites: SOWK 264; SOWK 266; SOWK 371; SOWK 372; SOWK 373 or approval of instructor.	
SOWK 471 SOCIAL WORK AND HUMAN SEXUALITY	3
To provide the student with a Christian perspective of human sexuality which forms a basis for appropriate intervention with sexual problems. Prerequisite: SOWK 371; SOWK 372; SOWK 373 or permission of the instructor.	
SOWK 490 FIELD WORK	2-14
Training under a professional social worker in a public or private welfare or correction agency. Credit is earned at the rate of one quarter hour for three hours of field work per week approved by the supervisor and instructor. Written reports and evaluations are included. Placement may be taken in one quarter (block placement) or concurrently with course work over two or three consecutive quarters. Applications for placement must be submitted to the Placement Coordinator at least one quarter prior to the placement itself. Instruction is offered at various locations in such fields as medical social work, school social work, secondary school residence counseling, criminal justice, child and protective services and community organization. Prerequisites: SOCI 204; SOWK 264; SOWK 266; SOWK 350 and permission of the instructor. Corequisites or prerequisites: SOWK 371; SOWK 372; SOWK 373. Twelve quarter hours are required for a social work major.	
SOWK 495 COLLOQUIUM	0
A lecture series designed to expose students to contemporary practitioners in the field of social work and to assist them in their professional development. Required of all social work juniors and seniors while in residence.	

SOWK 496 INTEGRATIVE SEMINAR 2
 These seminars involve student presentation of field placement agency narratives and case studies. The focus will be upon integration of practice and theory. Prerequisite: Completion of or concurrent enrollment in SOWK 490.

SOCIOLOGY (SOCI)

SOCI 204 GENERAL SOCIOLOGY 4
 A course dealing with the fundamentals of group behavior, social conditions and dynamics. Attention is also given to such phases as culture, groups, population trends, religions, institutions, social problems, theories and objectives.

SOCI 224/424 HUMAN DEVELOPMENT AND THE FAMILY 4
 A developmental approach to the study of the individual as seen in the context of the family. The interrelation of biological, psychological and sociocultural systems and their effect on human development and behavior will be explored. The complete life cycle of the growth of an individual is studied and current theories concerning each stage of the family life cycle will be examined as they apply to the modern American family as well as families of other cultures. Prerequisites: SOCI 204; PSYC 130.

SOCI 225 MARRIAGE AND FAMILY LIFE 2
 A course designed to help a student make the physical, economic and psychological adjustments necessary for happy marriage and parenthood; Christian philosophy and principles will be stressed; staff members and guest speakers will lecture and lead discussions.

SOCI 234 CURRENT SOCIAL PROBLEMS 3
 The study of theoretical perspectives of social problems of particular concern in contemporary society.

SOCI 236 RACIAL AND ETHNIC RELATIONS 3
 The history, present status and problems of racial, religious and ethnic minorities in the United States and other countries.

SOCI 249 RELIGION IN A SOCIAL CONTEXT (HONORS) [or RELH 249] 4
 See the honors program listed under the Interdisciplinary section of this bulletin.

SOCI 325 THE SOCIAL PSYCHOLOGY OF FAMILY LIFE 3
 The social-psychological aspects of family life with special reference to the processes of family interaction in the development and maintenance of personal relationships.

SOCI 337 POPULATION 2
 Principles of demography and analysis of population problems.

SOCI 345 SOCIOLOGY OF COMMUNITIES 3
 The study of the social structure and interaction patterns of communities. The history of community development with special emphasis on urbanization and its effects on society.

SOCI 435 SOCIAL GERONTOLOGY 3
 A study of problems concerning the social role of the aged in society.

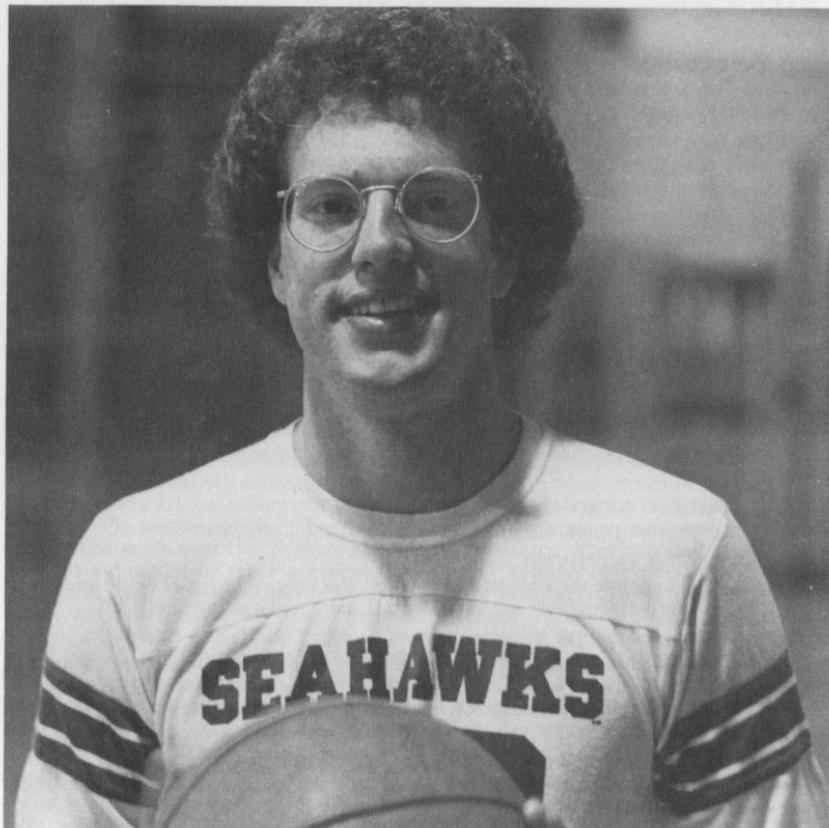
SOCI 437 DEATH AND DYING 3
 This course will examine the complex, intriguing and poignant area of death and dying from four distinct perspectives; cultural, social, personal and professional.

SOCI 444 SOCIOLOGY OF EDUCATION 3
 Analysis of factors influencing the structure and function of the educational institution. Sociological factors related to the role of the school as a social system, with emphasis on peer groups and teenage subcultures, leadership types, power groups and the school as a selecting and sorting agency; sociometric devices.

SOCI 447 SOCIOLOGY OF HEALTH AND ILLNESS 3
 The study of social relations and culture as factors affecting health and illness, its prevention and treatment.

SOCIOLOGY AND SOCIAL WORK

SOCI 449 SOCIOLOGY OF RELIGION	2
A sociological approach to organized religion, emphasizing the interaction between the church and its social setting. Varieties and sources of collective religious behavior with examination and classification of religious movements and reforms.	
SOCI 451 METHODS OF SOCIAL RESEARCH I	2
A study of the major methods of social research, instrumentation, measurement, sampling, data processing and appropriate statistical techniques.	
SOCI 452 METHODS OF SOCIAL RESEARCH II	1
Provides experience in the selection and formulation of a research problem, a survey of relevant literature, and construction and implementation of a research design.	
SOCI 453 METHODS OF SOCIAL RESEARCH III	1
Analysis and description of data, methods of writing and presenting the research paper.	
SOCI 454 HISTORY OF SOCIAL THOUGHT	4
A survey of Western social thought from antiquity to the twentieth century. Reading in primary sources emphasizes the social writings of such individuals as Hammurabi, Plato, Augustine, Locke, Malthus, Marx, Weber and Durkheim.	
SOCI 455 SOCIOLOGICAL THEORY	3
A survey of modern theories with emphasis on theory construction in preparation for developing research designs.	



FINANCIAL INFORMATION

Walla Walla College desires that the financial arrangements and transactions be as considerate as possible for both students and parents. Several plans are available which should make it possible, as far as finances are concerned, for almost everyone who desires to attend Walla Walla College to realize this aim.

BOARD ACTIONS

Actions voted by the College Board, Faculty, or Finance Committee at any time shall have equal force or, if necessary, supersede statements published in this bulletin.

TUITION

1-12 quarter hours	\$ 108 (per quarter hour)
13-16 quarter hours	1,375 (per quarter)
above 16	96 (additional per quarter hour)

Residence hall students will be charged a minimum of \$1,296 per quarter tuition except seniors in their final quarter who need less than 12 quarter hours to graduate.

STUDENT ASSOCIATION FEE

A fee of \$15 per quarter is charged students registered for six or more quarter hours which provides membership in the student association.

RESIDENCE HALL EXPENSES

Where there is dual occupancy, the room rental charge for each student per quarter is:

Conard Hall	\$275
Foreman Hall	290
Sittner Hall	275
Whitman Lodge; Hallmark	275-310
Portland Campus	290

There is a \$5 fee per quarter for having a refrigerator in a student's room.

When rooms are available, single occupancy is permitted at an extra charge of \$60 per quarter.

Room Reservations. Each student resident in one of the college residence halls will be required to make a \$50 room deposit which will be credited to the account when the student permanently discontinues dormitory residence, less any room charges turned in by the dean for delayed departure, uncleaned rooms or room damage. This deposit will secure continuous room reservation on a year-by-year basis as long as the student desires dormitory residence.

A refund will be made until *August 1* each year upon receipt of a written cancellation of room reservation, but no refund is made thereafter.

BOARD

The cafeteria plan is followed in the college dining hall. Actual charges for food are billed to the student's statement each month. Students on the Portland campus receive the food discount given to employees of the Medical Center.

PAYMENTS REQUIRED TO REGISTER

An advanced payment of \$1,120 plus any balance due from a previous quarter shall be paid at time of registration. Part-time students shall pay the full tuition charge in advance if less than \$1,120.

FAMILY DISCOUNTS

A ten percent discount will be allowed on tuition for each student when three or more unmarried students from one family are enrolled for a minimum of 12 hours each at Walla Walla College during the same quarter.

Discounts will be forfeited if student status is terminated prior to the end of the period for which the discount was given.

BOOKS AND SCHOOL SUPPLIES

Textbooks, school supplies and other materials needed for schoolwork may be obtained at the College Store. Parents should allow the student \$90 to \$120 extra for such purchases each quarter.

STATEMENTS

Statements will be issued each month giving an account for the previous month. Tuition and room rent for the quarter will be charged in advance at the beginning of each quarter. Actual food service charges are billed at the close of each month. Village students may obtain their statements from the cashier in the accounting office.

It is expected that statements will be paid within ten days from time of mailing. The College operates on a cash basis and is dependent upon prompt payment of accounts.

REMITTANCES

Checks, drafts and money orders should be made payable to Walla Walla College and should be sent to:

Accounting Office
Walla Walla College
College Place, WA 99324

SPECIAL FEES

Application (not refundable)	\$10.00
Audit Credit	Regular Tuition
Aviation (as announced)	
Challenge Examination	\$35.00 per quarter hour
Class added	1.00
Class dropped	1.00
Classes having numerous or extended field trips	
will be given notice of special fees	
to cover expenses	
Degree, Bachelor's and Associate	7.50
Degree, <i>in absentia</i> , Bachelor's and Associate	17.50
Degree, Master's	25.00
Degree, <i>in absentia</i> , Master's	35.00
ID Card Replacement	3.00
Junior Class Membership	1.00
plus any additional amount as voted by the class	
Late Registration	15.00
Nursing	
Materials and supplies per quarter	7.00
Nursing Lab Level II, III, IV	3.00 per quarter hour
Physical Fitness Testing	15.00
Returned Checks	5.00
Special Examination	5.00
Transcript, first copy	free
Transcript, additional copies each	2.00
Tutoring by members of the faculty, triple tuition is charged for individual tutoring.	
Validating Examination —per quarter hour	2.00
Waiver Examination	5.00

MUSIC FEES

Music lessons can be taken for or without credit. The lesson fee is \$76.50 per quarter for nine half-hour lessons or \$135 for nine hour lessons. When credit is desired, tuition is also charged. Music majors who are currently enrolled or have taken MUCT 121-123 and are taking a full load (12 quarter hours) are eligible for a music fee scholarship equal to the lesson fees charged. The music fee scholarship program does not apply to lessons taken off campus.

Credit is given for lessons on the following basis: A minimum of nine 30-minute lessons per quarter and daily practice amounting to five clock hours a week will yield one hour of credit. It is the responsibility of the student to meet the appointed time for lessons. The teacher is obligated to provide opportunity for makeup lessons only in the event of illness or emergency.

Excused absences may be made up at the discretion of the teacher if previous

arrangements have been made. Lessons falling on holidays or vacations are not made up unless this results in the student's receiving fewer than nine lessons.

Music fee refunds are calculated on the same basis as tuition refunds (the date the drop slip is submitted to the Admissions and Records Office) unless the student is taking lessons on a noncredit basis. Drops of noncredit lessons must be registered at the music office. No refunds will be granted after the fourth week of the quarter.

Private lessons for elementary and secondary students, as arranged through the college, will be paid on the following basis:

From Music Faculty	\$76.50
From Student teachers	\$49.50

These fees are for nine 30-minute lessons. It is the responsibility of the student to meet the appointed time for lessons. The teacher is obligated to provide opportunity for makeup lessons only in the event of illness or emergency. Lessons falling on holidays or vacations are not made up unless this results in the student's receiving fewer than nine lessons.

Other Music Fees:

Practice Room (per quarter for students desiring practice only)	\$12
Organ (per quarter for students desiring practice only)	\$25
Band or Orchestral Instruments (per quarter for students desiring lessons and not possessing their own instruments)	\$20

PHYSICAL EDUCATION FEES

Backpacking	\$25
Canoeing	30
Camping and Survival	30
Cycling	10
Cycling Touring	30
Golf, Beginning	35
Golf, Advanced	55
Golf, Pro-Act	55
*Horsemanship	50
*Ice Skating	45
Kayaking and Rafting I	35
Lapidary	20
Mountaineering (Snow and Ice)	30
Orienteering	15
Rock Climbing	25
Roller Skating	20
Sailing	35
SCUBA Diving	

*Ski Instructor	65
*Skiing (Spout Springs)	60
*Skiing (Bluewood)	60
Skiing (Cross Country)	25

*nonrefundable

PERSONAL PROPERTY LOSS

The College cannot accept responsibility for any loss or damage to the personal property of any student.

AUTOMOBILE PARKING FEE

Residence hall students bringing automobiles with them to the College Place campus will be charged a fee of \$6 per quarter for parking privileges. Covered parking is available at additional cost. The College does not carry parking lot insurance which will cover damage to the vehicle, or theft, or loss of any sort while parking in the lot. If such insurance is desired, comprehensive coverage can be secured by the owner at a more reasonable rate than can be provided by the College.

REFUNDS

A student withdrawing from classes during the quarter will receive the following refunds: (General fee not refundable)

*Tuition: 100% through the fourth day of classes after regularly scheduled registration
 75% second week
 50% third and fourth weeks
 No tuition is refunded after the fourth week

*Students dropping all classes during this period will be charged a processing fee of \$50 or 5% of tuition, whichever is less.

Room Rent: 80% during first two weeks of quarter
 50% between third through fifth weeks
 30% between sixth through eighth weeks

The beginning of the quarter will be considered to be the first day of class instruction.

When a student withdraws during a quarter, no refund will be made until 30 days after the close of the month in which he withdrew. STUDENTS WHO LEAVE SCHOOL WITHOUT COMPLETING WITHDRAWAL PROCEDURES WILL BE CHARGED UNTIL PROPER ARRANGEMENTS ARE MADE. (Also see *Room Reservations*.)

INSURANCE—MEDICAL, ACCIDENT AND HOSPITALIZATION

Student medical, accident and hospital insurance may be purchased at registration by students enrolling for six or more quarter hours. Students not wanting coverage are required to sign a waiver declining participation. De-

pendency coverage is available for married students. The premium is charged on the student's first statement of account after his initial enrollment. No changes or refunds are allowed once the information has been sent to the insurance company (two weeks after the first day of classes). Information describing cost, coverage and claim procedures will be supplied each student at registration. Inquiries should be directed to the student health center.

STUDENT HEALTH CENTER

The clinical facilities and 12 beds of the health center are available for students requiring treatment or minor hospitalization. Prescriptions and other medicines are available at special prices. A reasonable charge is made for hospitalization in excess of three days per quarter. The three days allowed per quarter are not cumulative. In case of serious illness or surgery, the Walla Walla General Hospital provides complete service to students. Financial arrangements must be made directly with the hospital.

Students on the Portland campus receive routine health services through the Employee Health Department of Portland Adventist Medical Center. Major illnesses may be treated through the emergency room or through hospitalization. In case of hospitalization, the student must make financial arrangements with the Medical Center.

RELEASE OF TRANSCRIPTS OR DEGREES

By action of the Board of Trustees of the College, a diploma or transcript of credit (official or unofficial) may not be released until the student's account is paid in full.

To expedite the release of transcripts, diplomas and other legal documents, the student should send a *money order* or *certified check* to cover the balance of his account when requesting transcripts, etc.

PAST DUE ACCOUNTS

A finance charge computed at a periodic rate of one percent per month is assessed against a past due account. This is an annual percentage rate of 12 percent.

INQUIRIES

Inquiries concerning financial agreements for registration, payments on account and student employment opportunities should be directed to the director of student accounts and employment and those concerning financial aid should be directed to the director of financial aid. Inquiries concerning the academic or instructional program or admission should be directed to the office of admissions and records.

FINANCIAL AIDS

FINANCIAL AID POLICY. Walla Walla College assumes that a student and his parents have the primary obligation of paying for his education. Parents are expected to provide, as they are able, the basic essentials of life, whether the student lives in the community or on campus.

For families unable to meet the full costs of attending Walla Walla College, financial aid is available in the form of student employment, grants, long-term loans and scholarships. Grants and scholarships are *gift aid* and do not have to be repaid. Interest rates for long-term loans are extremely low, and repayment does not begin until after a student leaves college.

A freshman requesting aid is expected to earn at least \$990 during the school year.

Eligibility for aid is based on individual financial need and is evaluated by submitting an Application for Financial Aid to Walla Walla College, and a Financial Aid Form (FAF) to College Scholarship Service (CSS). CSS will provide the college with a need analysis for determining the amount of aid to be awarded. In most cases, a student will be offered a package of financial aid including several forms of assistance.

Financial Aid Forms are available from secondary school counselors and the WWC Financial Aid Office. First consideration for awards will be given to those students with greatest financial need who have complete materials (1) results of FAF from CSS (2) WWC Financial Aid Application in the WWC Financial Aid Office by April 15.

SATISFACTORY ACADEMIC PROGRESS. The amount of financial aid awarded to a student is subject to cancellation or revision if the student fails to maintain satisfactory academic progress. Students are expected to register for and complete a minimum of 12 hours per quarter (unless permission to register for less is approved by the Financial Aid Committee) with at least a 2.0 GPA. Students who fail to meet this standard will be placed on probation the next quarter with possible changes in aid. Students who are on probation for two consecutive quarters are not making satisfactory progress and may not receive further aid until they demonstrate that they can complete a minimum of 12 hours with at least a 2.0 GPA. Once this is demonstrated, they will be classified as making satisfactory progress and will be eligible to receive aid.

STUDENT EMPLOYMENT. Walla Walla College has year-round campus work opportunities, including work in Harris of Pendleton, College Place Plant, located near the campus, to help students earn a portion of their school expenses. These opportunities, while not unlimited, are many, and take care of most students who need part-time employment. Students needing employment should seek their assignment through the office of student accounts and employment. Full-time students of average academic ability will find 12-15 hours a week an adequate work program. Students planning to work in the industrial departments such as the press, bindery, laundry, dairy and farm should plan to work a 15-20 hour week. *The responsibility of taking advantage of campus work opportunities rests with the student.*

SCHOLARSHIPS, ASSISTANTSHIPS AND GRANTS

MAXIMUM SCHOLARSHIP:

\$400 per year
Nonrenewable

\$300-\$500 per year
Nonrenewable

Variable

Variable

Variable

ENTERING FRESHMAN ACHIEVEMENT AWARD. The College awards a \$400 nonrenewable scholarship to any entering freshman who has placed scholastically in the upper five percent of his graduating class. To validate this award, evidence of class standing must be submitted to the director of financial aid.

NATIONAL MERIT SCHOLARSHIPS. The College will award scholarships to entering freshmen of the North Pacific Union Conference of Seventh-day Adventists who have placed in the National Merit Scholarship competition as follows:

Finalist	\$500
Semifinalist	\$400
Commended Student	\$300

These scholarships are nontransferable and nonrenewable.

FORUM SCHOLARSHIP. The Walla Walla College chapter of the Adventist Forum makes available several scholarships. Candidates must be of minority ethnic groups. Preference will be given to students from the North Pacific Union Conference. For additional information, contact the Adventist Forum Scholarship Fund Coordinator, Walla Walla College, College Place, WA 99324.

PUBLISHING HOUSE SCHOLARSHIPS. Students may earn a portion of their school expenses by selling denominational literature during the summer. These scholarships apply to room, board, tuition and other direct school expenses. For details regarding this scholarship plan, write to the Publishing Secretary of the North Pacific Union Conference, P.O. Box 16677, Portland, OR 97216.

YOUTH SERVICE OPPORTUNITIES. The College, in cooperation with the youth department of the North Pacific Union and the local conferences, makes available variable scholarships for students participating in the Youth Services Opportunities program during the summer. Service opportunities are in the areas of youth camp work, vacation Bible schools, door-to-door visitations, etc. For additional information and application forms, write: Youth Department, P.O. Box 16677, Portland, OR 97216.

**MAXIMUM
ASSISTANCE:**

GRADUATE ASSISTANTSHIPS. A few assistantships are available for graduate students in biology and education. Candidates applying for these assistantships should write to the respective department chairmen.

**MAXIMUM
GRANT:**

\$1,500 per year
Renewable

SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT. These grants are made available by the United States Department of Health, Education and Welfare. To qualify, a student must be enrolled as at least a half-time undergraduate student and have *exceptional* financial need as evidenced by submission of a Financial Aid Form (FAF) and a WWC application for financial aid. Applications and FAFs are available through the college financial aid office.

\$100 per year
Nonrenewable

W.C.P.T. FINANCIAL GRANT FOR EDUCATION. The Washington Congress of Parents and Teachers provides two grants per year for entering freshmen. Applicants must have graduated from a high school located in the state of Washington. The College will give first consideration to the financial need of applicants rather than high academic achievement in making these awards.

Applications are available through the college financial aid office. The cut-off date for submitting applications to the College is April 1.

\$510
Renewable

WASHINGTON STATE NEED GRANT. The State of Washington has made available a grant program for **state residents** only. Qualifications are state residency and financial need. Residency of dependent students follows that of the parents. A student must have been domiciled in the state for one full year prior to the commencement of the first day of the quarter for which aid is requested.

\$750

Application forms consist of a WWC financial aid application and a Financial Aid Form (FAF) and may be obtained from the college financial aid office.

NPUC EMPLOYMENT GRANT. The North Pacific Union Conference of Seventh-day Adventists and Walla Walla College jointly provide funds for this grant. Applicants must be baptized Seventh-day Adventists having home church membership in the North Pacific Union Conference. Grants are awarded on the basis of need as evidenced by submission of a Financial Aid Form (FAF) and an application for financial aid. Grant awards must be matched by student earnings from a school-term work program. Matching earnings may be earned on or off cam-

pus from October through and including May. Students wishing to work off campus and receive matching employment grant credit must first make special arrangements with the financial aid office.

\$750
Renewable

LAW ENFORCEMENT EDUCATION GRANT. The United States Department of Justice makes available a limited number of educational grants for students who are full-time employees of law enforcement agencies. These grants may amount to as much as \$250 per quarter. *Financial need is not a criterion in approving this aid.*

Applications are available from the college financial aid office.

\$1,800
Renewable

BASIC EDUCATIONAL OPPORTUNITY GRANT. This program is made available by the United States Department of Health, Education and Welfare (DHEW). To qualify students must be enrolled at least half time (6 hours or more) and have need according to a formula established by DHEW. Applications may be obtained from high school or academy counselors or the College financial aid office.

Variable
Renewable

B.I.A. GRANTS. Students having at least one-fourth American Indian or Eskimo blood may obtain considerable grant assistance from the Bureau of Indian Affairs. For applications and additional information, write to Bureau of Indian Affairs, 1425 NE Irving Street, Portland, OR 97208.

DEFERRED PAYMENT PLANS

THE INSURED TUITION PAYMENT PLAN. This program provides for dividing the entire four-year educational expenses into equal monthly payments. An extended repayment plan is available.

It includes insurance on the parent for death or total disability. The insurance is designed so that its value is always adequate to pay the remaining planned educational expense.

The earlier the plan is begun, the smaller will be the monthly payments and the longer the term of insurance coverage.

Additional information may be obtained from the director of student accounts and employment, Walla Walla College, or Richard C. Knight, Insurance Agency, Inc., Insured Tuition Payment Plan, 6 St. James Avenue, Boston, Massachusetts 02116.

LONG-TERM LOANS

An increasing number of students are financing their education through the use of loan funds. Several of these funds are available, making it possible for the great majority of students to continue school without interruption due to lack of finances.

**MAXIMUM
LOAN:**

\$2,500 per year
Renewable

ALASKA STATE LOAN. Alaskan students may borrow up to \$2,500 per year for collegiate expenses through this program. Up to 40 percent of this loan may be forgiven if the student returns to Alaska after graduation.

Applications may be obtained from the Department of Education, Student Loan Office, Pouch F, Juneau, AK 99801.

\$2,500 per year
Renewable

CALIFORNIA, IDAHO, NEVADA, and UTAH. These states have their own student loan programs and forms should be obtained from local banks or colleges.

\$2,500 per year
Renewable

FEDERALLY INSURED LOAN. Many banks are offering Federally Insured Loans to college students. These are long-term, low-interest loans that need not be repaid until the student completes his course of study. Consult the loan officer of your bank for additional information.

Applications are available through the college financial aid office.

\$5,000
Aggregate for
Undergraduate
Students

NATIONAL DIRECT STUDENT LOAN. The National Direct Student Loan is made available through the United States Department of Health, Education and Welfare and Walla Walla College. To qualify, the students must have financial need as evidenced by submission of a WWC application for financial aid and a Financial Aid Form (FAF). Priority in awarding this aid is given to students with the greatest financial need. Repayments begin after the applicant's student status terminates.

\$2,500 per year
Renewable

Applications and FAFs are available through the college financial aid office.

NURSING STUDENT LOAN. Nursing Student Loans are made available through the United States Department of Health, Education and Welfare and Walla Walla College.

To qualify, a student must have financial need as evidenced by submission of a WWC application for financial aid and a Financial Aid Form (FAF). Priority in awarding this aid is given to students with the greatest financial need. Repayments begin after the applicant's full-time nursing student status terminates.

Applications and FAFs are available through the college financial aid office.

\$1,500 per year
Renewable

OREGON STATE STUDENT LOAN. Under this plan Oregon State residents may borrow from their hometown bank if they are accepted for enrollment or are enrolled in good standing and carrying at least a half-time course of study.

Applications are available in the student finance office.

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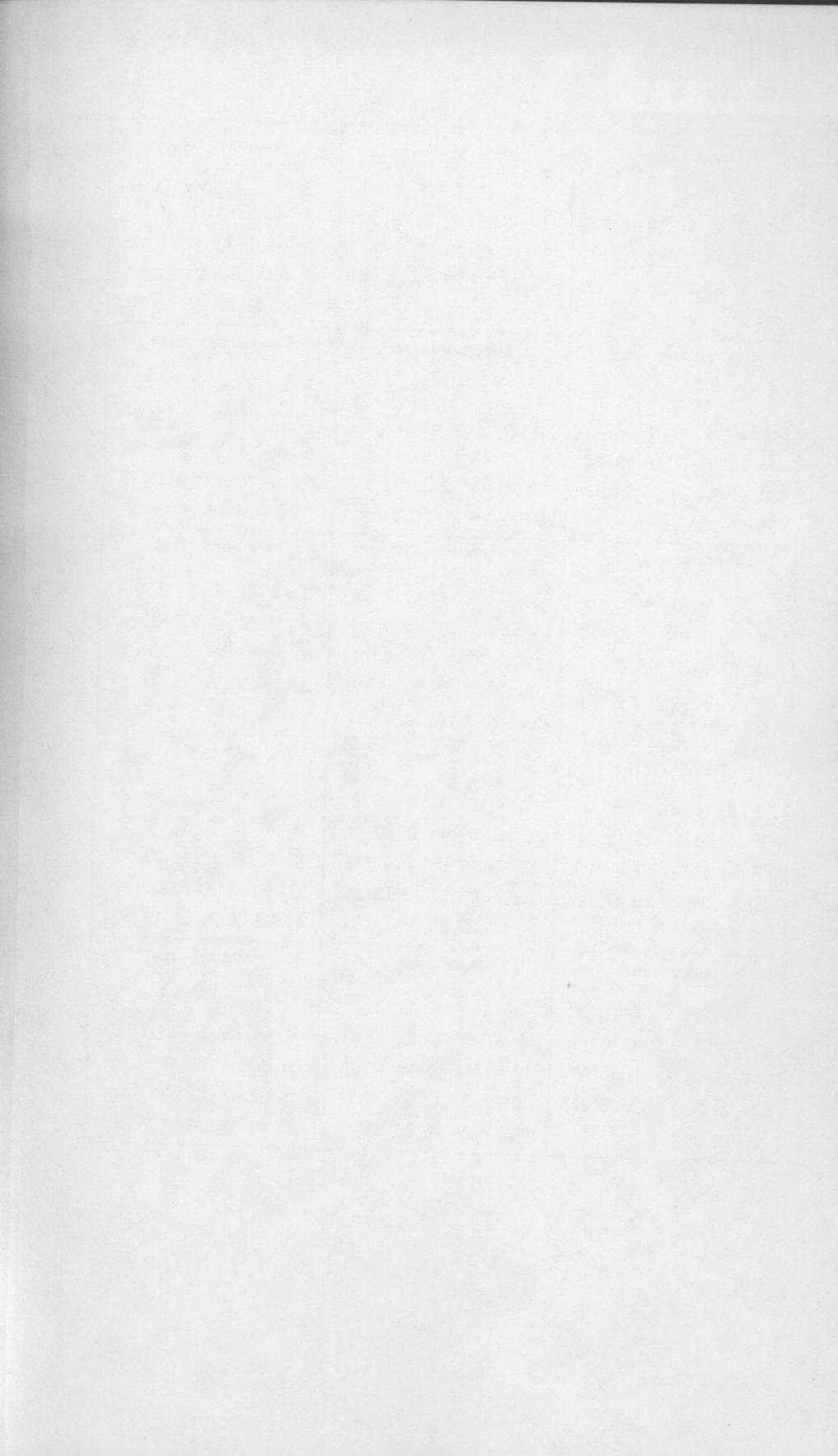
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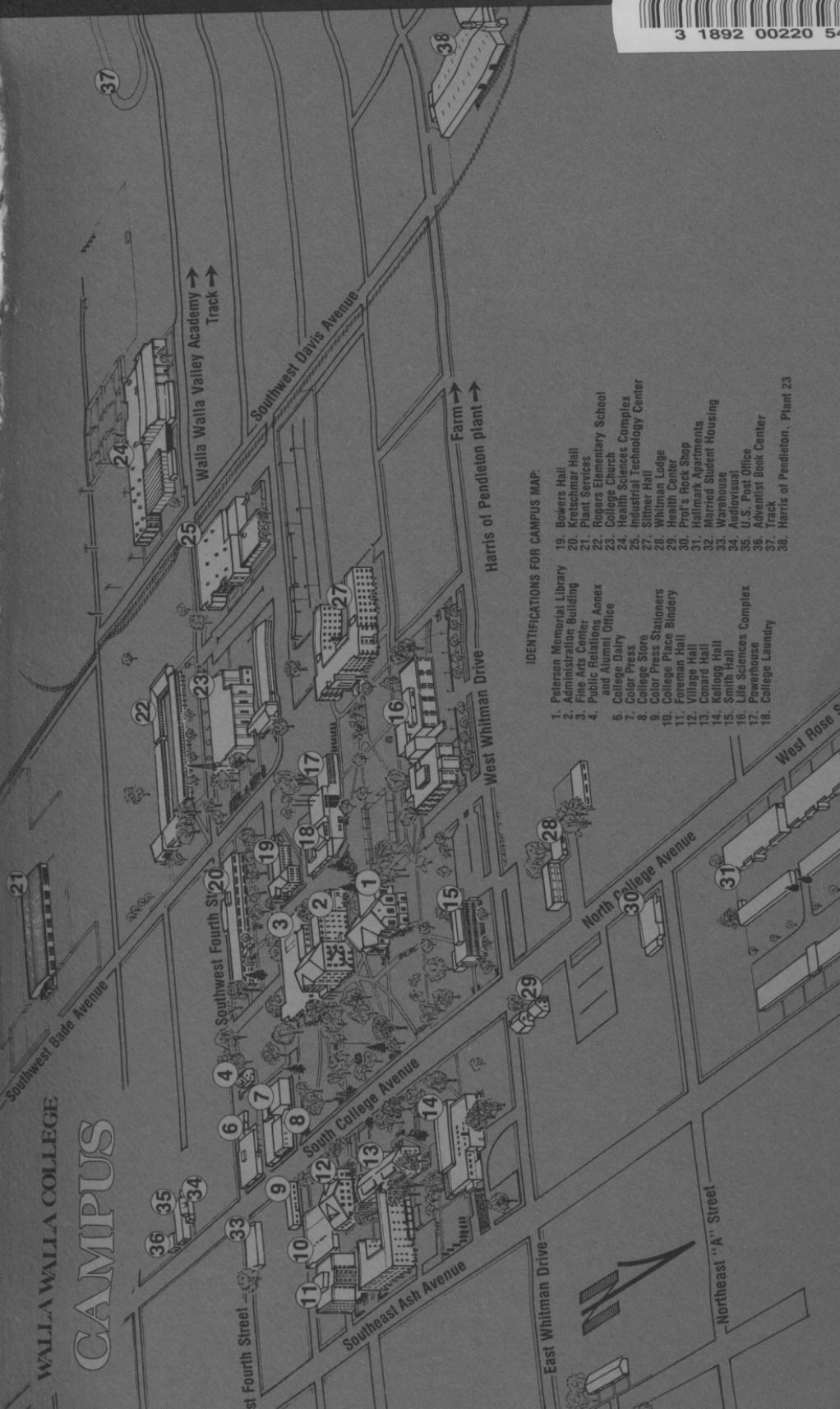
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WALLA WALLA COLLEGE CAMPUS



IDENTIFICATIONS FOR CAMPUS MAP:

1. Peterson Memorial Library
2. Administration Building
3. Fine Arts Center
4. Public Relations Annex
5. and Alumni Office
6. College Dairy
7. Color Press
8. College Store
9. Color Press Stationers
10. College Place Laundry
11. Freeman Hall
12. Village Hall
13. Conard Hall
14. Kellogg Hall
15. Smith Hall
16. Life Sciences Complex
17. Powerhouse
18. College Laundry
19. Bowers Hall
20. Kreischmar Hall
21. Plant Services
22. Rogers Elementary School
23. College Church
24. Health Sciences Complex
25. Industrial Technology Center
26. Slitter Hall
27. Whitman Lodge
28. Health Center
29. Pro's Rock Shop
30. Hallmark Apartments
31. Married Student Housing
32. Warehouse
33. Warehouse
34. Audiovisual
35. U.S. Post Office
36. Adventist Book Center
37. Track
38. Harris of Pendleton, Plant 23

Walla Walla College
LETIN (USPS 664-940)
College Place, WA 99324

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