

WALLA WALLA
COLLEGE
1974-75

BULLETIN

The following majors are based on broad studies in humanities, basic science, mathematics, social science and the Christian heritage:

- Applied Biology—Agriculture
- Art
- Biblical Languages
- Biology
- Biophysics
- Business Administration
- Business Education
- Chemistry
- Communication Media
- Dental Hygiene
- Elementary Education
- Engineering
- English
- Foods and Nutrition
- French
- German
- History
- Home Economics
- Industrial Education and Technology
- Journalism
- Mathematics
- Medical Technology
- Medical Technology and Clinical Chemistry
- Music Education
- Music Performance
- Music Theory
- Nursing
- Office Administration
- Physical Education
- Physics
- Psychology
- Religion
- Social Welfare
- Sociology
- Spanish
- Speech Communication
- Speech Pathology and Audiology
- Theology

Associate programs are available in the following areas:

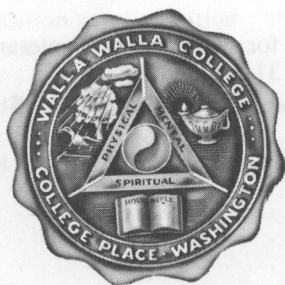
- Automotive Technology
- Dietetic Technician (emphasis in nutrition care)
- Early Childhood Education
- Electronics Technology
- Graphics Technology
- Maintenance Technology
- Medical Secretarial
- Secretarial
- Secretarial Accounting

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BULLETIN

1974-75



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WALLA WALLA COLLEGE LIBRARY

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Association of Seventh-day Adventist Colleges and Secondary Schools
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Engineers' Council for Professional Development, Inc.
National Association of Schools of Music
Department of Baccalaureate and Higher Degree Programs of the National League for Nursing

is a member of

Association of American Colleges
Council of Member Agencies, Department of Baccalaureate and Higher Degree Programs of the National League for Nursing
American Association of Colleges for Teacher Education
National Association of Summer Sessions
American Council on Education National Commission on Accreditation

is approved by

U.S. Government for the training of veterans under the U.S. Code, Title 38, Chapters 31, 34 and 35
The Attorney General of the United States for nonimmigrant students
Washington State for training in Vocational Rehabilitation

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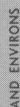
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AND ENVIRONS



WALLA WALLA COLLEGE BULLETIN

ACADEMIC CALENDAR, 1974-75

FOR INFORMATION —

Concerning application blanks, bulletins, academic and general information, student handbooks, viewbooks, etc., write to:

Mr. J. D. Victor Fitch, *Director*
Admissions and Records

Concerning financial arrangements and work opportunities, write to:

Mr. Richard Beck, *Director*
Student Finance

Concerning room reservations and dormitory information, write to:

Mr. M. E. Loewen, *Dean of Men*
Sittner Hall

or

Mrs. Betty Howard, *Dean of Women*
Conard Hall

Concerning matters of student affairs—off-campus housing, automobile registration, policies, etc., write to:

Mr. Donald D. Lake
Vice President for Student Affairs

WALLA WALLA COLLEGE
College Place, WA 99324

Phone: 509/527-2615

<div>June</div> <div><div>SMTWTFS</div><div>1</div><div>2345678</div><div>9101112131415</div><div>16171819202122</div><div>23242526272829</div><div>30</div></div>	<div>1974</div> <div>July</div> <div><div>SMTWTFS</div><div>123456</div><div>78910111213</div><div>14151617181920</div><div>21222324252627</div><div>28293031</div></div>	<div>August</div> <div><div>SMTWTFS</div><div>123</div><div>45678910</div><div>11121314151617</div><div>18192021222324</div><div>25262728293031</div></div>
<div>September</div> <div><div>SMTWTFS</div><div>1234567</div><div>891011121314</div><div>15161718192021</div><div>22232425262728</div><div>2930</div></div>	<div>October</div> <div><div>SMTWTFS</div><div>12345</div><div>6789101112</div><div>13141516171819</div><div>20212223242526</div><div>2728293031</div></div>	<div>November</div> <div><div>SMTWTFS</div><div>12</div><div>3456789</div><div>10111213141516</div><div>17181920212223</div><div>24252627282930</div></div>
<div>December</div> <div><div>SMTWTFS</div><div>1234567</div><div>891011121314</div><div>15161718192021</div><div>22232425262728</div><div>293031</div></div>	<div>1975</div> <div>January</div> <div><div>SMTWTFS</div><div>1234</div><div>567891011</div><div>12131415161718</div><div>19202122232425</div><div>262728293031</div></div>	<div>February</div> <div><div>SMTWTFS</div><div>1</div><div>2345678</div><div>9101112131415</div><div>16171819202122</div><div>232425262728</div></div>
<div>March</div> <div><div>SMTWTFS</div><div>1</div><div>2345678</div><div>9101112131415</div><div>16171819202122</div><div>23242526272829</div><div>3031</div></div>	<div>April</div> <div><div>SMTWTFS</div><div>12345</div><div>6789101112</div><div>13141516171819</div><div>20212223242526</div><div>27282930</div></div>	<div>May</div> <div><div>SMTWTFS</div><div>123</div><div>45678910</div><div>11121314151617</div><div>18192021222324</div><div>25262728293031</div></div>
<div>June</div> <div><div>SMTWTFS</div><div>1234567</div><div>891011121314</div><div>15161718192021</div><div>22232425262728</div><div>2930</div></div>	<div>July</div> <div><div>SMTWTFS</div><div>12345</div><div>6789101112</div><div>13141516171819</div><div>20212223242526</div><div>2728293031</div></div>	<div>August</div> <div><div>SMTWTFS</div><div>12</div><div>3456789</div><div>10111213141516</div><div>17181920212223</div><div>24252627282930</div><div>31</div></div>

WALLA WALLA COLLEGE BULLETIN

ACADEMIC CALENDAR, 1974-75

AUTUMN QUARTER

September 18-22..... Freshman Orientation and Freshman Registration
September 20 and 22..... Registration
September 23, Monday, 7:30 a.m..... Instruction Begins
November 27, 12:30 p.m. - December 2, 10:00 p.m.... Thanksgiving Recess
November 24 - November 27..... Registration for Winter Quarter
December 12, 1:30 p.m. Quarter Ends
December 13 - January 6, 10:00 p.m. Christmas Recess

WINTER QUARTER

January 6..... Registration of New Students
January 7, Tuesday, 7:30 a.m. Instruction Begins
March 2 - March 7..... Registration for Spring Quarter
March 20, 1:30 p.m. Quarter Ends
March 21 - March 25, 10:00 p.m. Spring Recess

SPRING QUARTER

March 26 and 27..... Registration of New Students
March 26, Wednesday, 7:30 a.m. Instruction Begins
June 6..... Senior Consecration
June 7..... Baccalaureate
June 8..... Commencement

SUMMER QUARTER, 1975

June 15 - June 16 Summer Session Registration
June 17, Tuesday, 7:30 a.m. Instruction Begins
August 10 Commencement

BOARD OF TRUSTEES

E. R. Walde, *Chairman*
R. L. Reynolds, *Secretary*

F. M. Beavon
F. W. Bieber
M. J. Blair
W. D. Blehm
Margaret Brown
J. E. Chase
L. W. Crooker
L. C. Havstad
C. W. Jorgensen

D. M. MacIvor
B. F. McAdoo, Jr.
O. L. McComas
C. J. Nagele
Dorothy Patchett
L. L. Reile
R. C. Remboldt
M. C. Torkelsen
T. W. Walters

ADMINISTRATION

Robert L. Reynolds, Ph.D., *President*
R. Dale McCune, Ed.D., *Vice President for Academic Affairs*
Vernon H. Siver, B.A., *Vice President for Financial Affairs*
Donald D. Lake, M.A., *Vice President for Student Affairs*
Donald O. Eichner, Ph.D., *Vice President for Development and Public Relations*

Gordon S. Balharrie, B.Div., *Dean, School of Theology*
Charles V. Bell, Ph.D., *Dean, School of Engineering*
J. D. V. Fitch, M.Ed., *Director of Admissions and Records*
Lois Hellie, B.A., *Chief Accountant*
Betty Ann Howard, B.S., *Dean of Women*
Wynelle J. Huff, M.S., *Dean, School of Nursing*
Robert H. Kooreny, M.A., *Director of Development*
Maynard E. Loewen, B.A., *Dean of Men*
Elwood L. Mabley, M.S.L.S., *Director of the Library*
Gerald F. Miller, M.Div., *Chaplain*
Orpha Osborne, B.A., *Associate Director of Records*
Donald W. Rigby, Ph.D., *Dean of Graduate Studies*
N. Clifford Sorensen, Ed.D., *Director of Summer Session*

ASSOCIATES IN ADMINISTRATION

Kathryn Andrews, B.A., *Assistant Director of Records*
 Ronna Archbold, B.A., *Associate Dean of Women*
 Richard A. Beck, B.A., *Director of Student Finance*
 June Bishop, M.S., *Assistant Director of Food Service*
 Fay Blix, B.A., *Assistant Dean of Women*
 Gwendolyn Burt, B.A., *Assistant Dean of Women*
 Arthur Christensen, B.A., *Assistant Director of Student Finance*
 Shirley Cody, M.L.S., *Assistant Librarian and Assistant Director of Records*
 Lyle W. Cornforth, M.Ed., *Director of Counseling and Guidance*
 Charles E. Davis, B.S., *Director of Purchasing*
 Scott R. Duncan, B.S., *Director of Audiovisual Services*
 Melvin W. Gilliland, M.A., *Associate Librarian*
 Shirley Graves, M.S.L.S., *Assistant Librarian*
 Carolyn Hazelton, M.L.S., *Assistant Librarian*
 Olga Kaiser, M.A., *Assistant Dean of Women*
 Pauline Koorennny, M.A., *Freshman Advisement Coordinator*
 Esther Losey, B.S., *Associate Director of Health Service*
 J. D. Losey, M.D., *College Physician*
 Walter Meske, M.A., *Assistant Dean of Men*
 Annabelle Owens, *Associate Dean of Women*
 Taylor Ruhl, M.S.L.S., *Assistant Librarian*
 Clyde J. Sample, B.S., *Director of Food Service*
 Helen Sickler, M.S.L.S., *Assistant Librarian*
 Helen Spechko, R.N., *Director of Health Service*
 Joyce Wickward, *Assistant Accountant*

AUXILIARY ENTERPRISES, Managers

Vernon H. Siver, B.A., *General Manager*
 Michael Bogdanovich, *College Place Bindery*
 Lester Border, *Plant Services*
 Monte O. Cheney, B.A., *Grounds*
 William E. Koenig, M.S., *College Dairy and Farm*
 Earl C. Munroe, *Custodial Department*
 Edward S. Taylor, *College Laundry and Dry Cleaners*
 John D. Wohlers, B.A., *Color Press*
 Mrs. John D. Wohlers, *College Store*

INSTRUCTIONAL FACULTY*

Rosalee Abrams, *Instructor in Nursing* (1972)
B.S. 1972, Walla Walla College

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

Wanda Anderson, *Instructor in Nursing* (1968)
B.S. 1960, Walla Walla College

Gordon S. Balharrie, *Professor of Theology* (1954)
B.A. 1945, Columbia Union College
M.A. 1949; B.Div. 1960, Andrews University

Joseph N. Barnes, *Professor of Theology* (1961)
B.A. 1947, Union College
M.A. 1955; Ph.D. 1965, New York University

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

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

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

Christine Bigley, *Assistant Professor of Nursing* (1973)
B.S. 1963; M.S. 1965, University of California at San Francisco

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

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

Chester D. Blake, *Assistant Professor of Industrial
Education and Technology* (1966)
B.S. 1963, Walla Walla College
M.A. 1968, San Jose State College

John C. Brunt, *Assistant Professor of Theology* (1971)
B.A. 1964, Loma Linda University
M.A. 1966; B.Div. 1967, Andrews University

Ruth E. Burgeson, *Associate Professor of English* (1957)
B.A. 1951; M.A. 1957, Pacific Union College

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

*Dates in parentheses indicate the beginning year of employment at Walla Walla College.

- Sandra L. Camp, *Assistant Professor of Music* (1972)
B.Mus.Ed. 1957; M.A. 1966, Andrews University
- Lewis H. Canaday, *Associate Professor of Industrial Education and Technology* (1953)
B.S. 1953; M.A. 1959, Walla Walla College
Ed.M. 1961, Oregon State University
- Florence Carrigan, *Assistant Professor of Nursing* (1968)
B.S. 1953, Columbia Union College
M.Ed. 1968, Columbia University Teachers College
- George L. Caviness, *Professor of Modern Languages* (1971)
B.A. 1937, Pacific Union College
M.A. 1939, University of California at Berkeley
Ph.D. 1947, Ohio State University
- James R. Chambers, *Professor of Chemistry* (1961)
B.A. 1939, Columbia Union College
M.S. 1949, Case Western Reserve University
Ph.D. 1958, Texas A and M University
- 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
- Dale L. Clayton, *Associate Professor of Biology* (1969)
B.A. 1962, Andrews University
M.A. 1964, Loma Linda University
Ph.D. 1968, Michigan State University
- Jon A. Cole, *Associate Professor of Engineering* (1964)
B.S.C.E. 1961, Illinois Institute of Technology
M.S. 1964; Ph.D. 1970, University of Wisconsin
- Darrell J. Cowin, *Assistant Professor of Industrial Education and Technology* (1944)
- Edward F. Cross, *Professor of Engineering* (1947)
M.E. 1929, Stevens Institute of Technology
M.A. 1938, Columbia University
- Reinhard Czeratzki, *Assistant Professor of Modern Languages* (1967)
B.A. 1964, Atlantic Union College
M.A. 1967, Middlebury College
- Jack Dassenko, *Instructor in Agriculture* (1970)
B.S. 1950, Andrews University
M.S. 1951, University of Minnesota
- Lynda Lu Davis, *Instructor in Physical Education* (1973)
B.S. 1971, Pacific Union College

- C. 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, *Assistant Professor of Biology* (1971)
 B.A. 1962, Columbia Union College
 M.S. 1969; Ph.D. 1971, University of Maryland
- Edna M. Downing, *Assistant Professor of Nursing* (1970)
 B.S. 1965, Loma Linda University
 M.S. 1970, University of California at San Francisco
- Andrew Dressler III, *Assistant Professor of Business* (1965)
 B.A. 1965, Walla Walla College
 M.Acctg. 1967, University of Idaho
- Donald O. Eichner, *Associate Professor of Political Science* (1963)
 B.A. 1951, Walla Walla College
 M.A. 1958, Andrews University
 Ph.D. 1969, The American University
- *Richard K. Emmerson, *Assistant Professor of English* (1970)
 B.A. 1970, Columbia Union College
 M.A. 1971, Andrews University
- Helen Ward Evans, *Professor of English* (1955)
 B.A. 1949, Walla Walla College
 M.A. 1955; Ph.D. 1965, Stanford University
- Judith Ann Farnsworth, *Instructor in Nursing* (1971)
 B.S. 1969, Walla Walla College
 M.S. 1972, University of California at San Francisco
- Gerald I. Ferguson, *Associate Professor of Music* (1972)
 B.A. 1948, Walla Walla College
 M.A. 1951, Teachers College, Columbia University
- Ray W. Fowler, *Professor of Business* (1970)
 B.A. 1929, Union College
 M.A. 1941, University of Idaho
 Ph.D. 1951, University of Nebraska
- L. Donovan French, *Associate Professor of English* (1966)
 B.A. 1964, Walla Walla College
 M.A. 1969, Washington State University
- *Robert W. Gardner, *Assistant Professor of Sociology* (1971)
 B.A. 1969, Pacific Union College
 M.A. 1971, Loma Linda University
- Melvin W. Gilliland, *Assistant Professor of Library Science* (1966)
 B.A. 1949, Union College
 M.A. 1965, University of Denver
- Lorne E. Glaim, *Associate Professor of History* (1971)
 B.A. 1964, Walla Walla College
 M.A. 1966; Ph.D. 1973, Washington State University

*On leave

- Albert E. Grable, *Associate Professor of Biology* (1963)
 B.S. 1959, Loma Linda University
 M.S. 1962; Ph.D. 1964, University of Minnesota
- Shirley A. Graves, *Assistant 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
- Edna Holst Grove, *Associate Professor of Education* (1974)
 B.S. 1963, Walla Walla College
 M.Ed. 1964, Eastern Washington State College
- J. Paul Grove, *Professor of Theology* (1958)
 B.A. 1944, Columbia Union College
 M.A. 1956; B.Div. 1961, Andrews University
- Kenneth L. Gruesbeck, *Instructor in Industrial Education and Technology* (1964)
 B.A. 1952, Columbia Union College
- Gary M. Hamburgh, *Instructor in Physical 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
- Daniel S. Harris, *Associate Professor of Sociology* (1967)
 B.A. 1965; M.A. 1966, Loma Linda University
 Ed.D. 1974, University of Southern California
- Calvin V. Hartnell, *Instructor in Religion* (1964)
 B.Th. 1949, Walla Walla College
 M.A. 1962, Andrews University
- Carolyn Hazelton, *Instructor in Library Science* (1972)
 B.S. 1965, Walla Walla College
 M.L.S. 1971, University of Washington
- Rodney Heisler, *Associate 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, *Instructor in Spanish* (1973)
 B.A. 1971, Walla Walla College
- Dale B. Hepker, *Associate Professor of English* (1973)
 B.A. 1953, Union College
 M.A. 1963, University of Nebraska
- Wilma M. Hepker, *Associate Professor of Sociology* (1973)
 B.A. 1953, Union College
 M.A. 1966, University of Nebraska

- Roy A. Hingley, *Assistant Professor of Education and Psychology* (1970)
 B.Th. 1962, Canadian Union College
 B.Div. 1965; M.A. 1965, Andrews University
 M.A. 1968, Arizona State University
- Sherrick S. Hiscock, II, *Assistant Professor of Music* (1973)
 B.Mus.Ed. 1963, Florida State University
 M.Mus. 1970, University of Miami
- Wynelle Huff, *Associate Professor of Nursing* (1971)
 B.S. 1962, Union College
 M.S. 1964, University of California at San Francisco
- Robert J. Hunter, *Associate Professor of Music* (1966)
 A.B. 1959, Pacific Union College
 M.A. 1962, Andrews University
 Ed.D. 1973, University of the Pacific
- Gordon O. Johnson, *Assistant Professor of Physics* (1974)
 B.S. 1966, Walla Walla College
 M.S. 1967; Ph.D. 1972, California Institute of Technology
- 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
- Carl T. Jones, *Professor of Chemistry* (1953)
 B.A. 1933, Columbia Union College
 M.S. 1939, Catholic University of America
 Ph.D. 1959, Oregon State College
- Lenoa Jones, *Instructor in Nursing* (1972)
 B.S. 1972, Walla Walla College
 M.S. 1973, University of Washington
- Robert G. W. Kappel, *Associate Professor of Business* (1973)
 B.A. 1957, University of Washington
 M.B.A. 1971, University of Nebraska
- Miriam Anne Kelly, *Instructor in Nursing* (1973)
 B.S. 1968, University of Oregon
- Lucile Harper Knapp, *Associate Professor of Theology* (1961)
 B.A. 1947, Walla Walla College
 M.A. 1949, Andrews University
- Pauline Koorennny, *Assistant Professor of Education* (1972)
 B.A. 1946, Walla Walla College
 M.A. 1956, University of Colorado
- Ralph L. Koorennny, *Professor of Business* (1972)
 B.A. 1946, Walla Walla College
 M.A. 1948, Washington State University
 Ph.D. 1957, University of Colorado
- 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, *Associate Professor of Music* (1960)
 B.A. 1948, Walla Walla College
 M.A. 1954, Columbia Teachers College
 A.Mus.D. 1970, University of Arizona
- Jeanne Lewis, *Instructor in Education and Home Economics* (1973)
 B.A. 1965, Andrews University
 M.A. 1974, Montana State University
- Larry M. Lewis, *Associate Professor of Theology* (1967)
 B.A. 1956, Walla Walla College
 M.A. 1958; B.Div. 1965, Andrews University
- E. Harold Lickey, *Professor of Music* (1965)
 B.A. 1950, Union College
 M.Mus. 1958, Texas Christian University
 D.Mus. 1970, University of Indiana
- Anne Lindt, *Assistant Professor of Nursing* (1973)
 B.S. 1954; M.S. 1966, Loma Linda University
- Elwin L. Liske, *Assistant Professor of Industrial Education and 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, *Instructor in Nursing* (1969)
 B.S. 1955, Walla Walla College
 M.S. 1972, University of Oregon
- Norman C. Maberly, *Professor of Education and Psychology* (1966)
 B.Th. 1952, Walla Walla College
 M.A. 1954, Andrews University
 Ed.D. 1962, University of Southern California
- 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, *Instructor in 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
- D. Malcolm Maxwell, *Professor of Theology* (1965)
 B.A. 1956, Pacific Union College
 M.A. 1958, Andrews University
 Ph.D. 1968, Drew University

*On leave

- Lawrence R. McCloskey, *Assistant Professor of Biology* (1971)
 B.A. 1961, Atlantic Union College
 M.A. 1965; Ph.D. 1967, Duke University
- Clyde E. McCulley, *Assistant Professor of Art* (1970)
 B.F.A. 1967, University of Oklahoma
 M.F.A. 1968, University of Guanajuato, Mexico
- Oran E. McNiel, *Associate Professor of Engineering* (1964)
 B.S. 1961, Walla Walla College
 M.S.E.E. 1969; Degree of Engineer 1971, Stanford University
- Jacob G. Mehling, *Professor of Business* (1947)
 B.B.A. 1934, Walla Walla College
 M.A. 1947, University of Washington
- Bonnie Meyer, *Instructor in Nursing* (1972)
 B.S. 1969; M.S. 1972, Loma Linda University
- Verlene Meyer, *Instructor in Nursing* (1973)
 B.S. 1971, Walla Walla College
- Ronald Mitchell, *Instructor in Nursing* (1973)
 B.S. 1972, Walla Walla College
- Nathan Moore, *Associate Professor of English* (1967)
 B.A. 1963, Rockford College
 M.A. 1965, Carleton University
 Ph.D. 1972, University of British Columbia
- Robert L. Noel, *Associate Professor of Engineering* (1963)
 B.S. 1950; M.S. 1951, University of Wisconsin
- Harold T. Ochs, *Associate Professor of Education* (1969)
 B.A. 1950, Walla Walla College
 M.Ed. 1957, Eastern Washington State College
 Ed.D. 1972, University of Idaho
- Carolyn Olson, *Instructor in Nursing* (1970)
 B.S. 1961, Loma Linda University
 M.S. 1972, University of Oregon
- Harold H. Osterud, *Instructor in Community Health and Epidemiology* (1964)
 M.D. 1947, Medical College of Virginia
 M.P.H. 1951, University of North Carolina
- Alfred E. Perry, *Associate Professor of Biology* (1969)
 B.A. 1953; M.A. 1958, Walla Walla College
 Ph.D. 1965, Oklahoma State University
- Hollibert E. Phillips, *Associate Professor of Education and Psychology* (1970)
 B.A. 1960, University of London
 M.A. 1964, Andrews University
 Ed.D. 1970, Boston University
- Jean M. Prest, *Assistant Professor of Education* (1973)
 B.S. 1968, Atlantic Union College
- Ed E. Quiring, *Assistant Professor of Office Administration* (1966)
 B.A. 1964, Walla Walla College
 M.Ed. 1968, Oregon State University

- Karen Radke, *Assistant Professor of Nursing* (1973)
B.S. 1964, Loma Linda University
M.S. 1966, Boston University
- Sharon Rawson, *Instructor in Nursing* (1970)
B.S. 1956, Walla Walla College
- 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
- Taylor D. Ruhl, *Instructor in Library Science* (1974)
B.Mus.Ed. 1971; M.Mus. 1972, Pacific Union College
M.S.L.S. 1974, University of Southern California
- E. Gary Schneider, *Assistant Professor of Health Education* (1971)
B.A. 1959; M.A. 1960, Andrews University
M.P.H. 1971, Loma Linda University
- F. Ruth Schneider, *Instructor in Nursing* (1973)
B.S. 1973, Walla Walla College
- Carlos A. Schwantes, *Assistant Professor of History* (1969)
B.A. 1967, Andrews University
M.A. 1968, University of Michigan
- David L. Schwantes, *Instructor in Journalism* (1974)
B.A. 1973, Walla Walla College
- Mary Schwantes, *Assistant Professor of Home Economics* (1969)
B.S. 1968; M.S. 1972, Eastern Michigan University
- Dena Sherrard, *Instructor in Nursing* (1970)
B.S. 1969, Walla Walla College
- Helen H. Sickler, *Assistant Professor of Library Science* (1970)
B.A. 1955, Pacific Union College
M.S.L.S. 1962, University of Southern California
- Lois A. Smith, *Assistant Professor of Nursing* (1967)
B.S. 1965, Walla Walla College
M.S. 1967, Loma Linda University
- Kenneth G. Smith, *Assistant Professor of Speech Pathology and Audiology* (1973)
A.B. 1958, Atlantic Union College
A.M. 1960, Andrews University
Ph.D. 1973, Michigan State University
- Vernon W. Shafer, *Lecturer in Psychology* (1973)
B.Th. 1949, Walla Walla College
M.S. 1953, University of Southern California
Ph.D. 1958, Ohio State University

- Ward A. Soper, *Associate Professor of Mathematics* (1965)
B.A. 1961, Andrews University
M.A. 1962, University of Michigan
- N. Clifford Sorensen, *Associate Professor of Education* (1972)
B.S. 1958; M.A. 1963, Walla Walla College
Ed.D. 1973, University of Southern California
- Glenn E. Spring, *Associate 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, *Assistant Professor of English* (1970)
B.A. 1965, Pacific Union College
M.A. 1966, Loma Linda University
- Robert D. Sutton, *Assistant Professor of Engineering* (1974)
B.S. 1961; M.S. 1964; Ph.D. 1971, University of California at Berkeley
- Alden L. Thompson, *Assistant Professor of Theology* (1970)
B.A. 1965, Walla Walla College
M.A. 1966; B.Div. 1967, Andrews University
- Thomas M. Thompson, *Instructor in Mathematics* (1971)
B.A. 1968, Walla Walla College
M.A. 1971, University of Washington
- Laura Tomanka, *Instructor in Nursing* (1973)
B.S. 1972, Walla Walla College
- Calvin L. Trautwein, *Professor of Industrial Education and Technology* (1951)
B.A. 1945, Loma Linda University
B.S. 1950, Pacific Union College
Ed.M. 1955, Oregon State College
Ed.D. 1962, Colorado State College
- Fred Troutman, *Instructor in Nursing* (1974)
B.S. 1966, Walla Walla College
M.S. 1974, Loma Linda University
- Robert R. Tupper, *Instructor in Music* (1972)
B.Mus. 1969, Walla Walla College
M.Mus. 1970, University of Oklahoma
- Dale O. Wagner, *Associate 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
- Betty Wallace, *Instructor in Nursing* (1970)
B.S. 1967, Walla Walla College
M.S. 1970, University of Michigan
- John L. Waterbrook, *Assistant Professor of Physical Education* (1965)
B.S. 1966, Walla Walla College
M.S. 1969, University of Oregon
Ed.D. 1974, University of Northern Colorado

- Melvin K. West, *Professor of Music* (1959)
 A.B. 1952, Andrews University
 M.Mus. 1955, Redlands University
 Mus.A.D. 1959, Boston University
- Bonnie G. Widicker, *Instructor in English* (1972)
 B.A. 1970, Pacific Union College
 M.A. 1971, Andrews University
- *Gerald A. Winslow, *Assistant Professor of Theology* (1968)
 B.A. 1967, Walla Walla College
 M.A. 1968, Andrews University
- Engene S. Winter, *Professor of Physical Education* (1946)
 B.A. 1941, Walla Walla College
 M.S. 1948, State College of Washington
 Ph.D. 1963, University of Oregon
- Gary Alan Wiss, *Associate Professor of English* (1966)
 B.A. 1966, Walla Walla College
 M.A. 1969, 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
- Evelynne F. Wright, *Professor of Home Economics* (1945)
 B.A. 1941, Pacific Union College
 M.S. 1953, Oregon State College
- Charles V. Zuill, *Assistant Professor of Art* (1973)
 B.A. 1958, Atlantic Union College
 M.F.A. 1969, Rochester Institute of Technology

EMERITI

- Herbert J. Alcock, M.A., *Professor of Religion*
 Kenneth A. Aplington, M.A., *Professor of English*
 Irene T. Black, B.A., *Registrar*
 George W. Bowers, Ph.D., LL.D., *Professor of Chemistry*
 Fredrick R. Hanson, M.A., *Professor of Nursing*
 Frank E. Meckling, Ph.D., *Professor of History*
 Hans L. Rasmussen, Ed.D., *Academic Dean*
 Lilah Godfrey Schlotthauer, M.S., *Associate Professor of Mathematics*
 Cecil W. Shankel, M.A., *Professor of Chemistry*
 Walter I. Smith, Ed.D., LL.D., *Professor of Education*
 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*

*On leave

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-



FACULTY COMMITTEES

ACADEMIC STANDARDS, R. D. McCune, *Chairman*

G. S. Balharrie	P. W. Joice
J. D. V. Fitch	Orpha Osborne
R. Heisler	N. C. Sorensen
Wynelle Huff	

ADMINISTRATIVE COUNCIL, R. L. Reynolds, *Chairman*

G. S. Balharrie	R. J. Hunter
C. V. Bell	D. D. Lake
D. O. Eichner	M. E. Loewen
Helen Evans	D. M. Maxwell
J. D. V. Fitch	R. D. McCune
J. P. Grove	G. F. Miller
D. S. Harris	V. H. Siver
Betty Howard	N. C. Sorensen
Wynelle Huff	

ADMISSIONS, R. D. McCune, *Chairman*

J. D. V. Fitch	Lucile Knapp
R. A. Beck	D. D. Lake
J. R. Chambers	M. E. Loewen
R. A. Hingley	A. E. Perry
Betty Howard	

CURRICULUM, R. D. McCune, *Chairman*

C. C. Barnett	J. D. V. Fitch
J. A. Cole	L. M. Lewis
Helen Evans	D. W. Rigby

FACULTY GRANTS, J. D. V. Fitch, *Chairman*

T. L. Anderson	R. D. McCune
N. C. Maberly	C. A. Schwantes
L. R. McCloskey	V. H. Siver

FACULTY SENATE, R. L. Reynolds, *Chairman*

R. D. McCune	N. Moore
J. D. V. Fitch	Orpha Osborne
L. E. Glaim	V. H. Siver
R. Heisler	W. A. Soper
L. M. Lewis	All department chairmen
Anne Lindt	or their designates

GRADUATE COUNCIL, D. W. Rigby, *Chairman*

D. L. Clayton	E. L. Liske
L. G. Dickson	R. D. McCune
Helen Evans	Orpha Osborne
J. D. V. Fitch	N. C. Sorensen
G. B. Hare	D. O. Wagner

LIBRARY, R. D. McCune, *Chairman*

R. D. Blaich	E. L. Mabley
E. J. Bursey	O. E. McNiel
D. L. Clayton	G. A. Wiss
R. G. W. Kappel	*Melissa Hamilton
N. C. Maberly	*Ron Woodard

LYCEUM SOCIAL ACTIVITIES, D. O. Eichner, *Chairman*

G. S. Balharrie	*Jeff Landreth
L. D. French	*Gina Lindsey
M. K. West	*Alan Woods
C. V. Zuill	*ASWWC Social Vice President

MENTAL HEALTH, D. D. Lake, *Chairman*

L. W. Cornforth	Betty Wallace
Betty Howard	*Keith Corbett
M. E. Loewen	*Candy Graves
J. D. Losey	*Gary Jepson
G. F. Miller	*John Munce
E. G. Schneider	*Terry Utt
Helen Spechko	

PREPROFESSIONAL EVALUATION, R. D. McCune, *Chairman*

G. S. Balharrie	C. T. Jones
C. C. Barnett	D. D. Lake
G. B. Hare	M. E. Loewen
Betty Howard	D. W. Rigby

PREVIEW, D. O. Eichner, *Chairman*

G. S. Balharrie	E. G. Schneider
R. S. Duncan	*
R. J. Hunter	*

RANK AND TENURE, D. M. Maxwell, *Chairman*

C. D. Blake	Helen Evans
Ruth Burgeson	R. D. McCune
E. F. Cross	

*student members

RELIGIOUS INTERESTS, G. F. Miller, *Chairman*

G. S. Balharrie

G. L. Caviness

R. C. Gage

Betty Howard

D. D. Lake

M. E. Loewen

*Jay Spady

*Karen Ordelheide

*MV Leader

*Sittner Representative

*Spiritual Vice Presidents of EMS, AGA, CS, AD, ASWWC

Faculty Advisers for SS, MV, EMS, CS, AD, ASWWC

Religious Activities

Senior Sabbath School Superintendent

A church member representing the community

STUDENT AFFAIRS, D. D. Lake, *Chairman*

R. A. Beck

C. V. Bell

J. C. Brunt

Wilma Hepker

Betty Howard

M. E. Loewen

Orpha Osborne

H. E. Phillips

G. A. Winslow

*Gene Chellis

*Jeannine Crowell

*Fred Field

*Cindy Gingrich

*Kathy Hall

STUDENT FINANCE, R. A. Beck, *Chairman*

R. A. Hingley

Betty Howard

W. E. Koenig

Pauline Koorenny

M. E. Loewen

V. H. Siver

*Nancy Buck

*Robert Vixie

STUDENT GOVERNMENT, D. D. Lake, *Chairman*

C. L. Dickinson

J. D. V. Fitch

Betty Howard

E. L. Liske

M. E. Loewen

H. E. Phillips

T. M. Thompson

STUDENT GRANTS AND SCHOLARSHIPS, R. A. Beck, *Chairman*

D. D. Lake

R. D. McCune

Orpha Osborne

TEACHER EDUCATION COUNCIL, N. C. Sorensen, *Chairman*

R. D. McCune

Orpha Osborne

Chairmen of all departments offering a major or minor designed for students planning on elementary or secondary school teaching.

*student members

FACULTY ADVISERS

MAJORS. Degree candidates will consider the chairman of the department in which they major to be their faculty adviser in all matters relating to their academic program. Students planning to teach in either elementary or secondary schools should also counsel with the chairman of the department of education and psychology.

PREPROFESSIONAL PROGRAMS. Certain faculty members have been appointed to serve as advisers to students preparing for careers in various professional vocations. Some of these vocations are listed on pages 57-64 with the faculty adviser for that profession. Students interested in professions other than those specifically listed should feel free to inquire at the office of academic affairs.

COUNSELORS. As part of the college counseling program of helping each student to achieve his goals in college, members of the faculty serve as personal counselors to individual students. Freshman students are assigned a counselor upon arrival during freshman orientation days. Students above the freshman level usually choose to counsel with some teacher within the department of their major field of emphasis.

Mrs. Pauline Koorennny is coordinator of the freshman advisement program.

STUDENT ORGANIZATION ADVISERS

Aleph Gimel Ain	Betty Ann Howard
ASWWC Center	Ruth Burgeson, D. O. Wagner
ASWWC Graduate Manager	Donald D. Lake
ASWWC Nominating Committee	Donald D. Lake
ASWWC Religious Activities Committee	Donald D. Lake
ASWWC Social Activities Committee	Donnie Rigby
Aurora Duxes.....	R. K. Czeratzki
Chiquita Sola.....	Jeanne Lewis
<i>The Collegian</i>	Dave Schwantes
Cosmopolitan Club.....	Roy Hingley
Epsilon Mu Sigma.....	Gordon B. Hare
Missionary Volunteers.....	Gerald F. Miller
<i>The Mountain Ash</i>	L. H. Canaday
Residence Hall Advisory Council.....	M. E. Loewen
Peace Corps, Vista.....	D. S. Harris
Sabbath School.....	M. S. Lang
Student Missionary.....	Betty Ann Howard
Temperance.....	E. Gary Schneider

COLLEGE AIMS

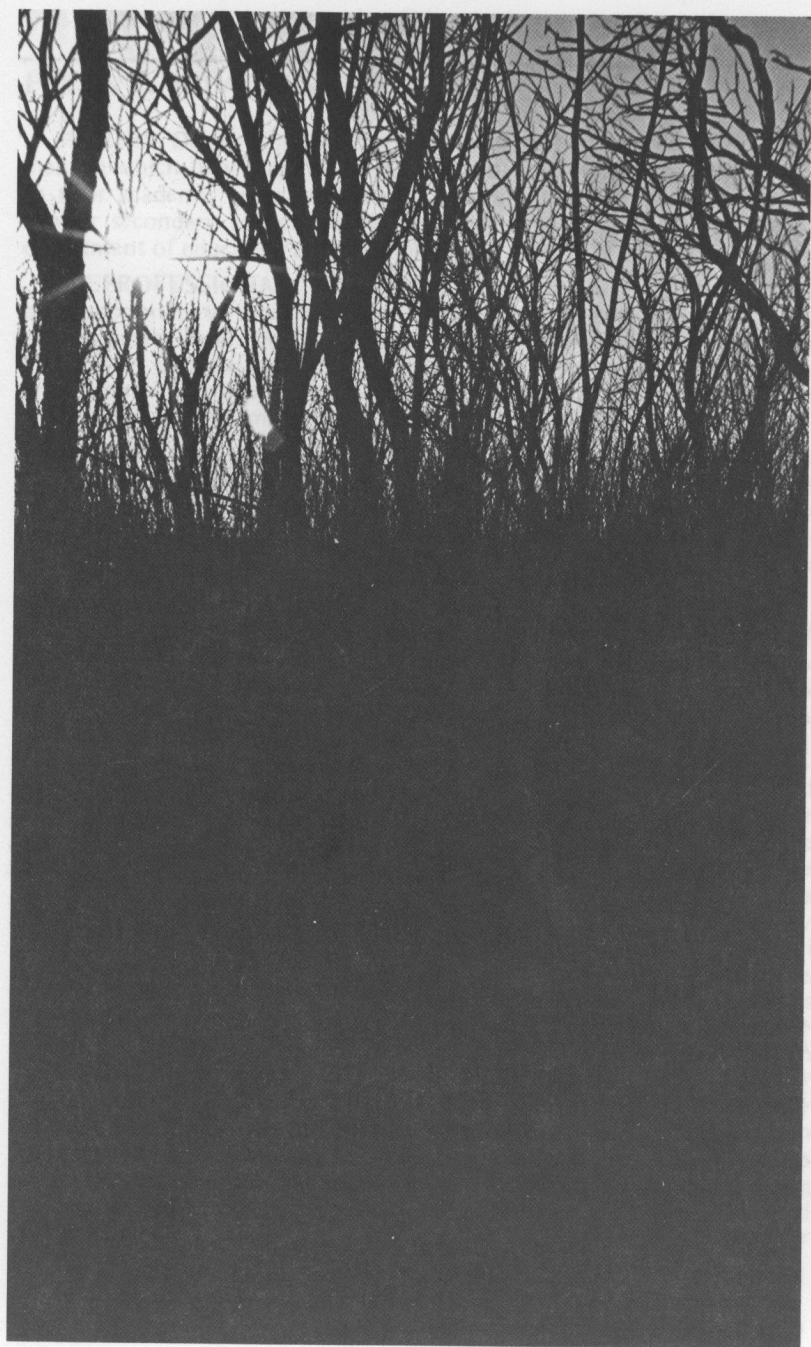
Walla Walla College is a Christian institution of higher learning operated by the Seventh-day Adventist Church. The College recognizes that true education "has to do with the whole being, and with the whole period of existence possible to man. It is the harmonious development of the physical, the mental, and the spiritual powers. It prepares the student for the joy of service in this world, and for the higher joy of wider service in the world to come." Mrs. E. G. White, *Education*, p. 13.

To achieve this broad aim of education, the College provides an environment in which the student may develop a personal fellowship with Christ. In common with other institutions of higher learning, the College has for its objective the greatest possible scholastic and intellectual attainment for each student. Recognizing the value of health, it encourages the students to respect their physical powers and accept the responsibility for healthful living.

As a liberal arts college, the institution stresses a thorough general education in the humanities, mathematics, science, social science and the Christian heritage, as well as competence and depth in a specified field. It is believed that such studies provide the best foundation for higher learning and for developing leaders with a world vision.

The College also serves students with interests and abilities in industrial and vocational skills. Instruction is, therefore, offered which develops both understanding and proficiency in a number of technical and industrial areas. The institution believes in the value and dignity of practical work.

While serving primarily the Seventh-day Adventist youth of the Pacific Northwest, the College accepts students from other states and countries who are qualified to do college work and who are willing to abide by the Christian principles enjoined on the campus.



GENERAL INFORMATION

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 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.

CAMPUS AND BUILDINGS

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.

ADMINISTRATION BUILDING. The Administration Building is a three-story structure located in the center of the campus. This building houses the administrative offices and a number of classrooms, laboratories and teacher offices.

BOWERS HALL. The department of chemistry is housed in Bowers Hall, a two-story brick building. The accommodations include two classrooms, five laboratories, two research laboratories, a library-seminar room, three offices, a stockroom and a photographic darkroom.

COLLEGE CHURCH. The College Church is a large, new, brick structure done in modern architecture. It seats 2,500 worshipers and 150 choir members. The Casavant-Freres organ is a three-manual, five-division instrument with almost 5,000 pipes. In addition to the church itself, there are a youth chapel and several large rooms for youth and children's Sabbath Schools.

COLUMBIA AUDITORIUM. Columbia Auditorium, a reinforced concrete gymnasium-auditorium with a seating capacity of over 2,000 persons, serves the college and College Place community as an auditorium-gymnasium. The large floor provides space for physical education activities, games and roller skating, while retaining the galleries for use of spectators.

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.

FINE ARTS CENTER. A new two-story reinforced concrete structure with brick and marblecrete exterior, completed in 1966, houses the departments of art and music. The building occupies the site of the old Johnson Memorial Conservatory. An auditorium seating 300 persons is a central feature of the building around which departmental offices, teaching studios, choral and instrumental rehearsal rooms, practice rooms, etc., are grouped. There are two classrooms, a reception room and foyers. A central feature of the main foyer is a large seven-piece mural depicting creation week, appropriately entitled, "In the beginning God."

The building is furnished with a three-manual, 36-rank Casavant organ with exposed pipework, a nine-foot Steinway concert grand piano, listening facilities and recording equipment, many pianos and other instruments.

The south front wing houses the department of art, where classroom and work area provide space and facilities for drawing, painting, design, printmaking and sculpture. A display area for art is provided by the Clyde and Mary Harris Art Gallery which was completed in January, 1974.

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, individual floor parlors and carpeting throughout the building.

GYMNASIUM. A new recreational-teaching facility built in connection with the Tausick Memorial Pool. The building accommodates three basketball courts, ten badminton, six volleyball and three tennis areas, in addition to two handball courts, plus gymnastics and storage areas. It was built jointly through the efforts of the alumni and the College. The building was completed in February 1971.

INDUSTRIAL EDUCATION AND TECHNOLOGY BUILDING. The department of industrial education and technology is housed in a one-story frame building in excellent condition containing 17,000 square feet of floor space. There are six offices, two classrooms and six shop-laboratories. Here the students receive both the theoretical instruction as well as the necessary practicum for the programs in automotive, depictics, electronics, graphics, industrial crafts, maintenance, metals and woods.

KELLOGG HALL. Kellogg Hall, a brick and steel structure, completed in 1958, contains the college food service. The building also houses the Student Association's offices, lounge, *Mountain Ash* office and the *Collegian* office.

KRETSCHMAR HALL. This building, completed in 1963, is a reinforced concrete and masonry structure of 30,000 square feet, housing the departments of engineering, physics and mathematics. In addition to classrooms, laboratories and staff offices, the building contains a departmental library, computer room, radioactive isotope storage vault and a science demonstration lecture hall seating 150 persons.

LIFE SCIENCES COMPLEX. Departments housed in the Life Sciences Complex completed in 1967 are biology, home economics and nursing.

Facilities for biology include staff and graduate student offices, classrooms and teaching laboratories. In addition, specialized facilities are research laboratories, controlled environmental rooms and chambers, radio-isotope laboratory, animal and greenhouse complexes, photographic darkroom, museum and a shop.

The department of home economics is housed in the east wing of the Life Sciences Complex. The accommodations include offices and classrooms, a dining room, lounge and laboratories for food preparation, advanced nutrition, experimental foods, animal studies, clothing construction, weaving and home furnishings.

Also, in the Life Sciences Complex are offices and classrooms serving the school of nursing.

MARINE BIOLOGICAL STATION. This facility occupies 40 acres of beach and timberland at Rosario Beach adjoining Deception Pass State Park, Anacortes, Washington. The physical plant includes four 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 and a periodical room contribute to the study and enjoyment of books. Microfilm and microcard readers 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 123,948 volumes. An average of 4,500 volumes is accessioned annually. There are about 925 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.

PORTLAND ADVENTIST HOSPITAL. In addition to the College Place campus, Walla Walla College also utilizes the large plant of Portland Adventist Hospital, located at Portland, Oregon, where the students in nursing obtain their clinical practice.

On the Portland Campus is a residence hall for unmarried students located across the street from the Portland Adventist Hospital. The nurses' home has a large parlor, sitting room, a modern kitchen and laundry facilities to provide for comfortable living in homelike surroundings. The nurses' home also contains classrooms and a library.

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.

SMITH HALL. The department of education and psychology is housed in a three-story building which was completed in 1965. It contains classrooms, laboratory, curriculum library, a lecture hall, an audio-visual and instructional materials center and offices for the department.

STUDENT HEALTH CENTER. A student health center with a full-time registered nurse as director is maintained on the campus. Clinical and hospital facilities, consultation rooms, treatment rooms and other necessary facilities are available for student use. Several physicians maintain regular office hours in the student health service.

TAUSICK MEMORIAL POOL. A new standard-sized swimming pool with a diving ell, completed in 1965, is in daily operation and serves as an instructional and recreational center for the college students.

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

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 purchasing.

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.

STUDENT ORGANIZATIONS

ASSOCIATED STUDENTS. The Associated Students is an organization whose membership consists of all faculty members and regularly enrolled students. The association has for its object the promotion of Walla Walla College ideals and activities. The two official publications of the associated students are *The Collegian*, the weekly newspaper of the College, and the *Mountain Ash*, the yearbook.

RESIDENCE CLUBS

- Dormitory women; Aleph Gimel Ain (AGA)
- Dormitory men; Residence Hall Advisory Council
- Single village women; Chiquita Sola (CS)
- Single village men; Aurora Duxes (AD)
- Married Students; Epsilon Mu Sigma (EMS)

DEPARTMENTAL CLUBS

- Amateur Radio Club
- Beta Mu (Home Economics)
- Biology Club
- Business Administration Club
- Chemistry Club
- Delta Rho Theta (Speech)
- Engineering Club
- Grammateis Club (Office Administration)
- Gymkhana Club (Physical Education)

Industrial Education and Technology Club
History Club
Mathematics Club
Music Guild
Pegasus Club (English)
Society of Physics Students
Sociology Club
Students National Education Association
Theology Club



GENERAL REGULATIONS

In all matters pertaining to personal conduct, 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. The College welcomes to its school family any individual, regardless of religious persuasion, race, color or sex, who wishes to obtain a quality education in an environment which is maintained in accord with these ideals. Those who do not, out of personal conviction, seek this type of educational environment are urged not to apply for admission. Any student whose activities interfere with the preservation of the College's unique character may be required to withdraw.

On registration each student is required to pledge willful support of all regulations set forth in this bulletin, the *Student Handbook*, or as officially announced during the school year. Applicants who are unfamiliar with the College should carefully read the *Student Handbook* before coming to the campus for registration.

RELIGIOUS ACTIVITIES

ASSEMBLY. Assemblies, held twice weekly, are regarded as a vital part of the total education program at Walla Walla College, and all undergraduate students are required to attend.

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.

CHURCH AND SABBATH SCHOOL. The Walla Walla College Church, with a membership of approximately 1,490, 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 VOLUNTEER SOCIETY. The Missionary Volunteer Society 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.

PRAYER BANDS. The prayer bands under student leadership encourage the prayer life of the students. These groups meet regularly and foster the spiritual life of the individuals who participate.



ACADEMIC INFORMATION

ADMISSION PROCEDURE

Formal application for admission to the College is required on a form supplied through the admissions and records office. A recent photograph and a \$10 fee must be included. The chief factors considered by the Admissions Committee are good character, scholastic achievement, financial support and good health. After the applicant's record of previous work and recommendations have been received by the College and approved by the Admissions Committee, prompt notification of acceptance is sent.

Applications should be made as early as possible prior to the quarter in which study is to commence. All records become the property of the College.

Transcripts, applications and other credentials submitted for admission will be destroyed after two years if the applicants do not enroll in the college.

LETTER OF ACCEPTANCE. Under no condition should an applicant consider himself accepted until he has received an official letter of acceptance. Applicants ought not to plan on residence or work on the campus until they have been formally accepted.

ROOM DEPOSIT. As soon after acceptance as possible, applicants should send a room deposit of \$50 to the accounting office. This will guarantee a room for the year. This fee is refundable any time until September 1 of each year. See section on Financial Information.

OFFICIAL TRANSCRIPT. While a student may receive acceptance on the basis of an unofficial or incomplete transcript, no one will be permitted to complete registration unless there is an official transcript in the records office.

COLLEGE ENTRANCE EXAMINATION. All entering freshmen and transfer students with fewer than 30 quarter credits must submit scores from either the Washington Pre-College Test (WPCT), the College Entrance Examination Board Admission Testing Program (ATP), the American College Test (ACT) or their equivalents. Students without these test scores must take the WPCT which is administered on the Walla Walla College campus each quarter prior to registration.

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.

ADMISSION TO THE COLLEGE

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

	Units
English	3
History	1
Science	1
Mathematics	1-3*

Number of units required for the following majors:

*One Unit: Algebra or Geometry

- Art
- Biblical Languages
- Business Education
- Communication Media
- English
- French
- German
- History
- Home Economics (algebra recommended)
- Industrial Education and Technology
- Journalism
- Office Administration
- Physical Education
- Psychology
- Religion
- Social Welfare
- Spanish

Speech Communication
 Speech Pathology and Audiology
 Theology
 Associate Degree Programs (except Dietetic Technician)
 Certificate Program in Office Administration

***Two Units:** Algebra I and one other mathematics to be chosen from Geometry, Algebra II, Plane Geometry, Solid Geometry, Trigonometry or their equivalent.

Biology
 Business Administration
 Chemistry
 Dental Hygiene
 Elementary Education
 Foods and Nutrition
 Mathematics (must be geometry)
 Medical Technology (must be geometry)
 Nursing
 Sociology
 Associate Degree Program Dietetic Technician

***Three Units:** Algebra, Plane Geometry, Solid Geometry, Trigonometry or their equivalent.

Biophysics
 Engineering
 Physics

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

	Units
Foreign Language	2
Social Studies	2
Science	1 additional

ENTRANCE REQUIREMENTS FOR THE CURRICULUMS. Certain major areas of study require specific subjects prior to admission into that curriculum.

Applicants who are deficient in subjects required for entrance to 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. Mature persons who have not completed secondary school or who are unable to furnish transcript of credits may be admitted to freshman standing through examination as required or administered by the Admissions Committee. Students so admitted are not granted regular admission until they demonstrate ability to maintain a satisfactory scholarship record.

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 they may become degree candidates.

TRANSIENT ADMISSION. Students who have been in residence at other institutions of higher learning and who are not candidates for a degree from this College may be classified as transients. The category includes those who wish to transfer limited credit to other institutions and those registering for certain adult education courses. The transient 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.

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.

TRANSFER STUDENTS

ACCREDITED. Applicants who have attended other institutions of higher education may be admitted to advanced standing by submitting complete official transcripts of all credits embodying a statement of honorable dismissal. Failure to indicate that work has been taken at other institutions at the time of application invalidates any admission.

NONACCREDITED. Students transferring from nonaccredited institutions are given conditional status with tentative credit for previous work as evaluated by the associate director of records. If the student maintains a C average or above on a full course load for one year, he may be given regular status with such credits for advanced standing as the transcript evaluation warrants. Failure to meet this standard will delay or prohibit graduation.

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

COMMUNITY COLLEGE. Students transferring from a community or two-year college may transfer a maximum of 96 quarter credits. Students may not transfer community or two-year college credit after 96 quarter credits have been completed either at a community college or at a senior college.

CREDIT BY EXAMINATION

Three types of credit by examination are available to students and prospective students of Walla Walla College.

CHALLENGE EXAMINATIONS are given by the various college departments. These tests are available for most classes offered within the college program and may be taken only by students who are enrolled at Walla Walla College.

Terms: Grades are issued as on normal test scores and all grades are recorded.

Cost: One-half regular tuition.

ADVANCED PLACEMENT PROGRAM (APP). Secondary school students who have had special preparation via advanced placement courses in English should plan to take the College Entrance Examination Board (CEEB) advanced placement examination in English.

This test is administered by CEEB 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 (3) or better on this test and accordingly, waives further College Writing requirements.

COLLEGE-LEVEL EXAMINATION PROGRAM (CLEP). The college-level general examinations are designed to measure knowledge acquired through nontraditional methods of study as well as a formal college curriculum. They are not based on the course or courses of any particular institution, but attempt to measure the basic core elements that are common at many different colleges and universities.

Walla Walla College is a limited test center for the college-level examinations and administers these tests on the third week of each month. Candidates for the CLEP examinations should consult the Counseling and Guidance Center.

NOTE: Only students in their first year of residence (freshmen and sophomores) may apply to take the CLEP examinations. It is, therefore, to the student's advantage to take the examinations before college registration.

General Examinations. The general examinations are composed of five separate multiple-choice tests, varying from 60 to 75 minutes in length, in English Composition, Humanities, Mathematics, Natural Sciences and Social Sciences-History.

A score of the *50th PERCENTILE OR ABOVE* is required to earn credit to be applied as follows:

English Composition	9 quarter credits (elective only)
Mathematics	9 quarter credits (elective only)
Humanities	6 quarter credits Arts and Ideas Non-Dept 207, 208, 209 3 quarter credits (elective only)
Natural Science	9 quarter credits (elective only)
Social Science-History	9 quarter credits (elective only)
Total Possible	<hr/> 45 quarter credits

Subject Examinations: A number of subject matter examinations are also offered within CLEP. Students obtaining the 50th PERCENTILE in the English Composition examination will receive credit toward the College Writing requirement in lieu of English 101 and 103, but must take English 103 to complete the College Writing sequence.

No other subject matter examinations are available for credit except as an academic department may authorize a test to be used in lieu of a departmental challenge examination.

Restrictions: The following restrictions apply to the use of CLEP general examinations:

1. Only regularly admitted and currently registered students will be awarded credit.
2. Students shall NOT be permitted to repeat any examination for credit.
3. No credit is to be awarded for any examination if there is evidence that the student has already earned credit in a course essentially duplicating the content of the examination in question.
4. All credit secured by examination shall be counted as extension courses and shall be included in the 96-quarter credit maximum that can be transferred from a community or two-year college.
5. Examination performance will be graded as pass-fail only and, therefore, cannot enter into the computation of the grade-point average.
6. The maximum amount of credit on the general examinations which may be applied to the 192 quarter credits required for the completion of the bachelor's degree is 45 quarter credits, whether it is recorded at Walla Walla College or elsewhere.
7. Credits may not be earned by examination to make up failures.

8. Transfer credit: credit received by examination may be transferred from other educational institutions provided it has been granted within the Walla Walla College credit-by-examination policy, i.e., any CLEP credit must have received at least a 50th percentile rating to be transferred.

Financial Considerations: CLEP fees are as follows:

General Examination: One test	\$15
General Examination: Two to five tests	\$25
Subject Examination: Each test	\$15

Walla Walla College charges a credit-by-examination fee of \$10 per quarter credit.

FOR FURTHER INFORMATION, WRITE TO:

Director, Admissions and Records
Walla Walla College
College Place, WA 99324

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 36 credits with a grade-point average of at least 2.00 are listed as sophomores.

JUNIOR. Students who have a minimum of 84 credits 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 credits 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.

GRADUATE. The College offers courses leading to the Master of Arts degree in education, the Master of Education degree, and the Master of Science degree in biology. For further information concerning graduate courses and degree requirements, see the Graduate Bulletin.

AUDITOR. A student may audit certain courses with permission of the instructor involved. No credit is allowed for an audited course. Students wishing to audit courses must register in the usual manner and are charged full tuition.

REGISTRATION

The regular academic year is divided into three periods or quarters. The summer session is regarded as the fourth quarter.

All students are required to register on designated days at the beginning of the academic year and prior to 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.

CHANGES IN REGISTRATION. Changes in registration may be made during the first week of instruction without charge. No changes involving other courses are permitted after this time without the permission of the instructor involved. A charge of \$1 for each course changed is made after the first week of instruction. Courses may not be added after the second week of any quarter.

WITHDRAWALS

INDIVIDUAL COURSES. Students withdrawing from individual courses must submit a Change of Registration voucher, signed by the instructor involved, to the records office. The final date for dropping a course is the Wednesday prior to test week.

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 Finance Officer
3. Vice President for Student Affairs
4. Director of Admissions and Records

Students withdrawing from all classes during the quarter will receive W's.

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.

STUDY LOAD

The normal load is 16 credits per quarter. Sophomores, juniors and seniors may request to register for 18 credits 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 credits. 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 credits per quarter, except seniors in their final quarter who need less than 12 credits to graduate.

The following study loads will satisfy the authorities indicated:

1. Immigration Authorities..... 12 quarter credits
2. Social Security 12 quarter credits
3. Veterans..... 12 quarter credits

DUAL REGISTRATION

Students registered at Walla Walla College are not permitted to enroll for courses in neighboring colleges without permission. Concurrent enrollment must have the approval of the vice president for academic affairs.

EXPLANATION OF CREDITS

A credit normally represents one class meeting a week or three hours of laboratory work a week for the duration of the quarter. Thus, a three-credit class would meet three times each week. For each "quarter credit" of school work 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.

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 and description should serve as a general guide to the student in selecting courses compatible with his own background and ability.

HYPHENATED NUMBERS. Course numbers connected with hyphens indicate courses which carry credit only when completed in their entirety. Uncompleted hyphenated courses do not carry credit toward completion of any course or degree unless by permission of the chairman of the department and the Academic Standards Committee.

LOWER-DIVISION. Course numbers 1 to 99 designate non-transferable courses carrying college credit but not applying toward a degree or teacher certification.

Course numbers 100 to 299 designate college courses which assume a limited background.

UPPER-DIVISION. Course numbers 300 to 499 designate courses which require one or more college prerequisites, presume a broad background, or necessitate an advanced level of study.

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

ADMISSION TO UPPER-DIVISION AND GRADUATE COURSES. 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 credits and completed basic degree requirements. However, a sophomore who has completed 48 credits may register for upper-division courses

with the permission of his department chairman and the instructor of the course.

Seniors whose programs for graduation have been approved and who otherwise meet the admission requirements of the Graduate Division may be permitted to take graduate courses if their programs will allow it.

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

GRADING SYSTEM

The quality of student effort is measured by a system of grades and by computed grade-point averages. Each grade is assigned a numerical value in points. A report of grades earned is made to both students and parents at the end of each quarter. The following system of grades and point values is used:

A—exceptional	4 grade points per credit
B—above average	3
C—average	2
D—below average	1
F—failure	0

Other symbols used are as follows:

- S—satisfactory
- U—unsatisfactory
- W—withdrawal
- Au—audit
- I—incomplete

The I (incomplete) is given in case of incomplete work due to justifiable causes and must be made up three weeks before the close of the following quarter; otherwise the instructor records an F grade. This regulation also applies to students who discontinue college.

Permission to receive an incomplete must be obtained from the instructor. A student with an incomplete should adjust his course load the following quarter so that the work may be completed without jeopardizing scholarship in other classes.

GRADE-POINT AVERAGE. The grade-point average is computed by totaling the grade points for all courses and dividing by the total credits for which grades are received. Only the best grade of a repeated course will be calculated in the grade-point average. The symbols S, U, I, W and Au are disregarded in computing the grade-point average.

ERRORS AND CORRECTIONS. Grade cards are issued at the close of each quarter. Upon the receipt of a grade card, the student should carefully check it for correctness as to the courses recorded, credits and grades. Any corrections needed must be taken care of within one week.

REPEAT COURSES. Students may repeat only courses in which grades lower than a C have been received. 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 credits for which an F has been received must be completed in residence unless permission to do otherwise is granted by the Academic Standards Committee.

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 C (2.00) are automatically placed on scholastic probation, and they remain so classified until the overall grade-point average is again 2.00 or better.

HONOR ROLL. Students with a grade-point average of 3.50 or above, who are registered for at least 15 credits, are listed on the official honor roll issued each quarter.

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*.

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 credits 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. Correspondence deadline for June graduates is May 1; for August graduates, July 15.

Under certain conditions, students whose scholarship has fallen too low for continuation in the degree program may be readmitted after having completed and having earned satisfactory grades in approved correspondence courses.

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 records office.

EXTENSION COURSES

Extension courses are accepted provided the institution offering the courses accepts similar credits toward a degree on its own campus.

ASSOCIATE DEGREE, VOCATIONAL AND TECHNICAL PROGRAMS

In addition to the regular bachelor's degree program, an associate degree program is offered in the specialties of secretarial, secretarial accounting and medical secretarial; automotive technology, electronics technology, graphics and maintenance technology; dietetic technician with emphasis in nutrition care; and early childhood education.

Associate degree transfer students must be in residence three quarters and must complete a minimum of 36 credits.

Two-year certificate programs not leading to a degree are also offered in the areas mentioned above.

Further information may be obtained from the director of admissions and records.

CHALLENGE EXAMINATIONS AND WAIVERS

Request forms for credit by examination are available in the records office or through the department chairmen. Challenge examinations are permitted any time prior to the final quarter of college study. Courses in which a student has earned an F are not open to challenge examinations. (Also see page 39.)

Requests for any waiver of curricular requirements are to be filed with the Academic Standards Committee.

SPECIAL 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

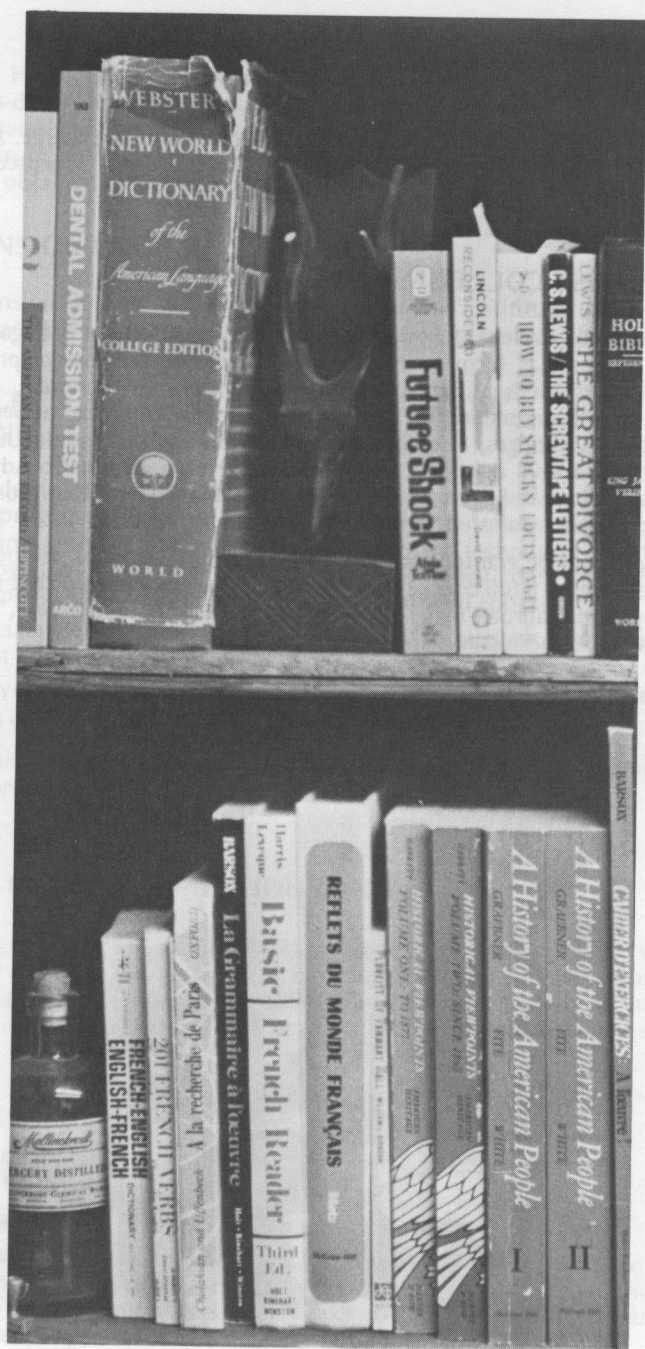
One transcript of a student's record is supplied without charge. A fee of \$1 per transcript is charged thereafter. Credits are not accepted or recorded after a student has ceased residence in the College.

ADVENTIST COLLEGES ABROAD

Walla Walla College, together with nine other Adventist colleges in the United States, has formed an organization for the purpose of providing opportunities for qualified students to study abroad. Presently, arrangements have been made for students to study a full year at *Seminaire Adventiste*, Collonges, France; *Seminar Marienhöhe*, Darmstadt, Germany; *Colegio Adventista del Plata*, Entre Rios, Argentina; *Seminario Adventista Español*, Valencia, Spain; *South China Adventist College*, Kowloon, Hong Kong; and at *Bogenhofen Seminary* near Braunau, Austria.

Credits will be granted for these studies so that a student will be able to complete almost a full college year abroad. It is recommended that students desiring a year abroad make these plans for the sophomore year. Write to the director of admissions and records for information.





DEGREE REQUIREMENTS

The College offers courses of study leading to the following degrees:

- Associate of Arts (A.A.)
- 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.)
- Master of Arts (M.A.)
- Master of Education (M.Ed.)
- Master of Science (M.S.)

Candidates for degrees 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 both majors, including the basic requirements.

GRADUATE DEGREES

The College offers courses of study leading toward the Master of Arts, Master of Education and Master of Science degrees. Master's degree programs are offered in the department of biology and in the department of education and psychology. Students desiring information concerning graduate degree requirements should consult the Graduate Bulletin.

GENERAL DEGREE REQUIREMENTS

All candidates for baccalaureate degrees must complete a minimum of 192 credits including 60 credits in courses numbered 300 or above, and have a cumulative grade-point average of 2.00 (C) or above.

MAJOR AND MINOR STUDY. A minimum of 45 credits in a major and 27 credits in a minor or completion of the prescribed requirements of certain curriculums is required. **A student may not apply the same courses toward the requirements of both his major and minor.** The following degrees and majors do not require a minor: the Bachelor of Music, Bachelor of Science in Business Administration, the Bachelor of Science in Engineering; the Bachelor of Science with majors in biophysics, business education, dental hygiene, nursing and the biomedical electronics technology concentration.

The major should be chosen no later than the end of the sophomore year. The selection of a minor and appropriate electives should be made in counsel with the major professor or faculty adviser.

A grade lower than C (2.00) in a course may not apply on a major or minor except in engineering (see the section "Engineering"). At least 21 credits in the major and 3 credits in the minor must be in courses numbered 300 or above. The maximum allowed on a major for the Bachelor of Arts degree is 60 credits unless the excess is beyond the 192 credits required for the degree, except for the music major which is 66 quarter credits.

Majors are available in the following areas:

Applied Music	Mathematics
Art	Medical Technology
Biblical Languages	Medical Technology and Clinical Chemistry (double major)
Biology	Music Education
Biophysics	Music Performance
Business Administration	Music Theory
Business Education	Nursing
Chemistry	Office Administration
Communication Media	Physical Education
Dental Hygiene	Physics
Elementary Education	Psychology
Engineering	Religion
English	Social Welfare
Foods and Nutrition	Sociology
French	Spanish
German	Speech Communication
History	Speech Pathology and Audiology
Home Economics	Theology
Industrial Education and Technology	
Journalism	

Minors are available in the following areas:

Applied Biology— Agriculture	Industrial Education and Technology
Art	Journalism
Biblical Languages	Library Science
Biology	Mathematics
Business	Music
Chemistry	Office Administration
Education	Physical Education
Economics	Physics
English	Political Science
French	Psychology
German	Religion
Health Education	Sociology
History	Spanish
Home Economics	Speech Communication

COMPREHENSIVE EXAMINATION. Satisfactory completion of the Undergraduate Record Examinations—aptitude, areas and field test—is required before a degree may be conferred. Departments will provide comparable examinations when a field test is not available. Students who do not satisfactorily complete the examination in the major field may not attempt another examination until one quarter has elapsed. Industrial education and technology majors will submit an appropriate project and/or report approved by the department chairman.

RESIDENCE. Transfer students must be in residence three consecutive quarters and complete a minimum of 36 credits, including 9 upper-division credits in the major and 3 upper-division in the minor.

Other degree candidates must be in residence the last three quarters preceding their graduation.

CANDIDACY FOR DEGREE. Degree candidates must file a copy of the proposed schedule of courses for the senior year and a formal application for a degree with the associate 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 associate director of records.

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.

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.

BACHELOR OF ARTS DEGREE: BASIC REQUIREMENTS

Candidates for the Bachelor of Arts degree must meet certain general education requirements which are to provide a basic understanding of those areas of knowledge common to the liberal arts. The pattern of courses required depends upon the secondary school background and the major chosen. The areas and the specific requirements are as follows:

HUMANITIES

Credits

English 101-102-103 or 104-105.

9

Fine Arts, Literature, Speech. Students must complete a sequence in two of the following areas, as indicated:

12

Fine Arts: (6)

201, 202, 203 Introduction to Music

207, 208, 209 Arts and Ideas (see Nondepartmental)

231, 232, 233 Survey of Art

Literature: (6)

224, 225, 226 American Literature

244, 245, 246 English Literature

251, 252, 253 World Literature

***Speech: (4)**

101-102 Fundamentals of Speech

*If the speech sequence is selected, the remaining two credits needed to make a total of 12 credits for the fine arts-literature-speech block, may be taken from:

Fine arts listed above

Literature listed above

Any other speech course

Art 222, Introduction to Art

Language. The number of credits required depends upon the amount of language completed in secondary school and the major chosen.

Majors in the following must complete 9-24 credits:

9-24

Chemistry

Communication Media

English

History

Journalism

Language

Mathematics

Music

Physics

Religion

Sociology

Speech Communication

Theology

Students who have completed two years of one language in the secondary school will complete nine credits of the same language in college. Those who have had no language in the secondary school will complete both the first and second year of the same language in college. Music majors must complete French or German. Majors in chemistry should choose French or German. Majors in theology must choose

Greek for their language requirement. Majors in religion may choose Greek or a modern language.

Majors in the following must complete 0-12 credits: 0-12

Art

Business Administration

Home Economics

No language is required of students who have had two units of one language in secondary school. Those who have had no language previously must complete 12 credits.

NATURAL SCIENCE AND MATHEMATICS 12

Completion of a basic course in one of the following areas: astronomy, biological science, chemistry, physics or mathematics.

SOCIAL SCIENCE

Education, Psychology. Philosophy of Christian Education (2 credits) and General Psychology (4 credits) are required. 6

History. Completion of either History 101, 102, 103 or 201, 202, 203. 9

Religion. Students who submit two or more units of secondary Bible will complete 18 credits in college. Students who have completed less than two units of secondary Bible and those transferring from non-Seventh-day Adventist colleges will take 2 credits each quarter in college. It is recommended that students with fewer than two units of religion complete 101, 102, 103—Bible Survey. 18-24

To satisfy the 18-24 basic religion requirements, at least 9 credits must be selected from the courses listed under Biblical Studies. The remaining credits may be selected from courses listed under Biblical Studies, Christian Philosophy or Archaeology and Religious History. See Theology.

PHYSICAL EDUCATION

Physical Education. Physical education is required of all students under 30 years of age. The courses needed to fulfill this requirement are listed as **service courses** in the department of health, physical education and recreation. Veterans who have completed basic training are exempt from physical education upon presentation of their discharge papers to the associate director of records. 3

BACHELOR OF SCIENCE DEGREE: BASIC REQUIREMENTS

Candidates for the Bachelor of Science degree are required to complete certain general education requirements and usually a greater concentration of courses in their major and cognate areas. The general education requirements are as follows:

HUMANITIES

English 101-102-103 or 104-105.

Credits

9

Fine Arts, Literature, Speech. Students must complete a sequence in two of the following areas, as indicated:

12

Fine Arts: (6)

201, 202, 203 Introduction to Music

207, 208, 209 Arts and Ideas (see Nondepartmental)

231, 232, 233 Survey of Art

Literature: (6)

224, 225, 226 American Literature

244, 245, 246 English Literature

251, 252, 253 World Literature

***Speech:** (4)

101-102 Fundamentals of Speech

*If the speech sequence is selected, the remaining two credits needed to make a total of 12 credits for the fine arts-literature-speech block, may be taken from:

Fine arts listed above

Literature listed above

Any other speech course

Art 222, Introduction to Art

NATURAL SCIENCE AND MATHEMATICS

Completion of a basic course in one of the following areas: astronomy, biological science, chemistry, physics or mathematics.

12

SOCIAL SCIENCE

Education, Psychology. Philosophy of Christian Education (2 credits) and General Psychology (4 credits) are required.

6

History. Completion of either History 101, 102, 103 or 201, 202, 203 is required.

9

Religion. Students who submit two or more units of secondary Bible will complete 18 credits in college. Students who have completed less than two units of secondary Bible and those transferring from non-Seventh-day Adventist colleges will take 2 credits each quarter in college. It is recommended that students with fewer than two units of religion complete 101, 102, 103—Bible Survey.

18-24

To satisfy the 18-24 basic religion requirements, at least 9 credits must be selected from the courses listed under Biblical Studies. The remaining credits may be selected from courses listed under Biblical Studies, Christian Philosophy or Archaeology and Religious History. See Theology.

PHYSICAL EDUCATION

Physical Education. Physical education is required of all students under 30 years of age. The courses needed to fulfill this requirement are listed as service courses in the department of health, physical education and recreation. Veterans who have completed basic training are exempt from physical education upon presentation of their discharge papers to the associate director of records.

3

BACHELOR OF MUSIC DEGREE

Students wishing to receive the Bachelor of Music degree must follow the curriculum as outlined under the department of music. The physical education and religion requirements are the same as for other baccalaureate degrees.

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION DEGREE

Students wishing to receive the Bachelor of Science in Business Administration degree must follow the curriculum as outlined under the department of business.

BACHELOR OF SCIENCE IN ENGINEERING DEGREE

Students wishing to receive the Bachelor of Science in Engineering degree must follow the curriculum outlined under the school of engineering.

SECOND BACHELOR'S DEGREE

Two different degrees may be conferred at the same time if the candidate has met the requirements of both degrees, and has completed a total of 237 credits. The College does not grant two degrees of the same kind to any one person, such as two B.A.'s or two M.A.'s. Students may, however, earn a second degree after one degree has been conferred, either by Walla Walla College or any other baccalaureate-degree-granting institution, by completing an additional 45 quarter credits, meeting the basic degree requirements of both degrees, and the requirements of a second major and a second minor if required for the desired degree.

MUSIC CREDIT ALLOWED ON DEGREES

Students who are not majoring or minoring in music may use 9 credits of applied music, including 3 credits in ensemble, in meeting bachelor degree requirements. A maximum of 8 additional credits in applied music (including music ensembles) may also be counted, but 1 credit of music classwork must be completed for each additional credit of applied music.

GRADUATION

Degrees are conferred twice each year, June and August. Candidates for degrees are required to be present for graduation. The president may grant permission for graduation *in absentia* when all requirements have been met and circumstances warrant this. A fee is required for graduation *in absentia*.



PREPROFESSIONAL COURSES OF STUDY

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 2 units of high school mathematics (algebra and geometry). Preprofessional courses of study are offered for the professions hereinafter listed.

DENTAL

Adviser: Mr. Chinn

The minimum requirement for admission to the study of dentistry is 96 quarter credits. However, most dental schools expect candidates for admission to have completed a bachelor's degree. The following courses are basic:

College Writing	9
Religion	6 per year
Mathematics	8
General Biology or Zoology	12
General Chemistry	12
General Physics	12
Organic Chemistry	12
Survey of Industrial Operations	4
Sufficient electives to complete 96 credits.	

DENTAL ASSISTANT

Adviser: Mr. Grable

The minimum requirement for admission to the study of dental assistantship is 48 credits from a liberal arts college. The following courses are to be included for the Associate of Science degree from Loma Linda University:

*Accounting or Bookkeeping	6
*Beginning Typewriting	6
Biology	4-12
College Writing	9
General Psychology	4
*Introductory Chemistry	9
Religion	6
Sociology	3
Speech	4
*U.S. History	9

*Or secondary school credit with a grade of C or better. At least three of these areas should be taken on the secondary level to be able to complete the program in one year.

DENTAL HYGIENE

Adviser: Mr. Grable

Students planning for careers in dental hygiene must complete 96 credits with a cumulative grade-point average near 3.0 or above before seeking admission to the various four-year dental hygiene programs. Some schools require that electives include a foreign language. Other schools require the advanced First Aid Certificate; check with adviser.

Dental Hygiene Curriculum—Cooperative Program, Walla Walla College and University of Oregon

A minimum grade-point average of 3.00 is required for competition at the University of Oregon. Oregon residence is required.

Freshman Year (on Walla Walla College Campus)

College Writing	3	3	3
Religion	2	2	2
General Biology	4	4	4
Introductory Chemistry	3	3	3
General Psychology	2	2	
Philosophy of Christian Education		2	
Fundamentals of Speech			4
Physical Education	1	1	1
	15	17	17

Sophomore and Junior Years (University of Oregon Dental School)

Courses as required.

Senior Year (on Walla Walla College Campus)

Religion	4	4	4
Fine Arts or Literature	2	2	2
History	3	3	3
Electives (Non-science)	7	7	7
	16	16	16

The Bachelor of Science degree is awarded by Walla Walla College. *Because of coming changes in the University of Oregon curriculum, this major at Walla Walla College may be phased out soon.*

One school year of residency beyond the freshman year must be taken on the WWC campus.

Loma Linda University

Experience has indicated that a minimum average of 3.00 is needed to compete for admission to the program at Loma Linda University. The following credits are required in preparation for advanced studies there:

College Writing	9
Speech	4
General Biology	12
Microbiology	5
Introductory Chemistry	9
Religion	12
History	9
General Psychology	4
General Sociology	3
Physical Education	3
Electives to be chosen in counsel with adviser	26

The Bachelor of Science degree is awarded by Loma Linda University.

LAW

Adviser: Mr. Joice

There is no specific curriculum for pre-law students. The student should secure a broad liberal arts preparation. Courses which are designed to develop skills in both oral and written communication and ability to reason and think analytically are strongly recommended. Some of the courses generally considered desirable for pre-law students include:

- Business 111, 112, 113—Principles of Accounting
- Business 221, 222, 223—Principles of Economics
- Business 341, 342, 343—Business Law
- Communications 101-102—Fundamentals of Speech Communication
- Communications 341—Logic
- Communications 443—Persuasive Speaking
- English 280—Advanced Writing
- English 401—Expository Prose
- Political Science 203—American Government
- Political Science 401—Constitutional History

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 pre-law adviser to make sure the student's proposed schedule of courses will meet the requirements of the law school which they plan to attend.

MEDICAL

Adviser: Mr. Jones

Most medical schools require completion of a bachelor's degree with a grade-point average of 3.0 or above, computed separately for science and nonscience courses. The following courses are normally required:

English	9
General Biology	12
General Chemistry	12
Organic Chemistry	9-12
Physics	12
Religion	18

Calculus strongly recommended.

If applying to a medical school other than Loma Linda University, it is recommended the following courses also be included:

Developmental Biology
Quantitative Analysis
Physical Chemistry
Foreign Language

MEDICAL TECHNOLOGY

Adviser: Mr. Chambers

Students wishing to become medical technologists may complete the first three years at the College and transfer to the Portland Adventist Hospital or other approved hospitals for the fourth year. Students should make application to the Portland Adventist Hospital during the summer following the second year, or as soon thereafter as possible. Candidates who plan to go to hospitals other than the Portland Adventist Hospital must submit their request to the Academic Standards Committee for approval if they wish to obtain a degree from Walla Walla College. Upon completion of the fourth year, the student may receive a Bachelor of Science degree. The following courses must be completed:

First Year		Second Year	
Chemistry 161-162-163	12	Chemistry 244	4
Education 110	2	Biological Sciences	
Education 121, 122	4	101, 102, 103	12
English 101-102-103	9	History 101, 102, 103 or	
Mathematics 121, 122 or 181	8	201, 202, 203	9
Physical Education	3	Physics 211, 212, 213 and	
Religion	6	214, 215, 216	12
Electives	4	Religion	6
		Fine Arts, Literature, Speech	6
Third Year		Fourth Year	
Biological Sciences		The clinical year is 12 months at the Portland Adventist Hospital or at another approved hospital during which time there is no tuition charge.	
222 or 465	5		
Biological Sciences 202, 203 or			
392, 393	8-10		
Chemistry 321-322-323	12		
Chemistry 406	4		
Fine Arts, Literature, Speech	6		
Religion (UD)	6		
Electives (UD)	6-11		

Students majoring in medical technology must meet all degree and general educational requirements. During the pre-clinical experience the student must complete 144 credits, including 30 upper-division credits.

Students wishing a double major in medical technology and clinical chemistry should refer to the chemistry section of the bulletin.

NURSING

Advisers: Miss Huff, Mrs. Lindt

For details about courses, etc., in nursing, please see Nursing, School of. 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

Adviser: Mr. Schneider

Students who are preparing for the Bachelor of Science degree in occupational therapy should plan to complete 96 quarter credits before entering the professional training. The following curriculum is recommended:

Biological Sciences	12
Chemistry or Physics or Mathematics	12
College Writing	9
Social Science	12
To include sociology, psychology; additional courses may be selected from economics, history or political science.	
Humanities	12
To include speech and one or more of the following: fine arts (3 credits of applied music may be included), humanities, language, literature and philosophy.	
Religion	12
Electives	24
To meet the minimum of 96 credits. Courses in art and behavioral sciences are recommended.	

More than 30 institutions of higher learning accredited by the Council on Medical Education and Hospitals of the American Medical Association offer training in occupational therapy. Loma Linda University is generally chosen by Walla Walla College students.

OPTOMETRY

Adviser: Mr. Anderson

Two years of college preparation are the minimum required 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:

College Writing	9
*Fundamentals of Mathematics	8
Analytic Geometry and Calculus	4
General Biology	12
General Chemistry	12
General Physics	12
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 pre-optometry program. Other commonly required courses include:

Organic Chemistry	12
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.

PHARMACY

Adviser: Mr. Jones

At least two years of general college work are required. Students should consult with the college of pharmacy of their choice about courses required. The following should be included:

Bacteriology	5
Botany	3
College Writing	9
General Physics	12
Health Science	2
General Chemistry	12
Mathematics	8
Organic Chemistry	10
Physical Education	2
Physiology	5
Psychology	6
Quantitative Chemistry	5
U.S. History	9
Zoology	9

All pharmaceutical colleges require three years in residency beyond the two years of pre-pharmacy; some require four years.

PHYSICAL THERAPY

Adviser: Mr. Schneider

The minimum requirement is the completion of 96 credits. The student should consult the adviser for pre-physical therapy. The credit hour requirements in the areas indicated below must be met.

College Writing	9
Humanities	12

Select from at least two fields: fine arts (3 quarter credits of applied music or arts may be included), language, literature, philosophy or speech (highly recommended).

Natural Sciences and Mathematics

General Biology	12
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Chemistry	9-12
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(a complete course with laboratory).

Physics	6
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(a course with laboratory is required, in addition, of students not having had high school physics).

Social Science	12
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To include child or adolescent psychology, general psychology, (minimum 4 credits). Additional courses may be selected from economics, history, political science or sociology.

Religion	12
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Electives	18-21
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To meet the minimum of 96 credits. Courses in art and behavioral sciences are recommended.

PUBLIC HEALTH

Adviser: Mr. Schneider

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 departments 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.

VETERINARY SCIENCE

Adviser: Mr. Rigby

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 generally meet the requirements:

Biology	17-25
General Biology	12
*Microbiology or Bacteriology	5
Electives	8
Chemistry	24-28
General Chemistry	12
Organic Chemistry	12
*Biochemistry	4
Physics	12
General Physics	12
Mathematics	8-12
Fundamentals of Mathematics	8
*Calculus I	4
College Writing	6-9
Humanities and Social Sciences	15-20
Physical Education	0-4

*Not required by certain schools.

X-RAY TECHNOLOGY

Adviser: Mr. Schneider

Forty-five credits are required for admission to most schools of X-ray 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.



DEPARTMENTS OF INSTRUCTION

This section contains a list of all courses offered by the College. The departments are arranged in alphabetical order.

Courses numbered 100-199 are normally taken by freshmen; those from 200-299 are normally taken by sophomores; those from 300-499 by juniors and seniors; and those 500 and above by graduate students.

The description of courses in each department includes the number of the course used in the college records, the title of the course, the number of credits given, and a brief description of the course content.

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

Two or three numbers connected with hyphens indicate courses which must be completed in their entirety. Only upon permission of the chairman of the department and the Academic Standards Committee may credit be obtained for a single quarter of study in a hyphenated course.

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 is probably the more reliable guide 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.

ART

K. Mackintosh, Chairman; C. McCulley, C. Zuill.

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 either the Fine Arts or Commercial Arts options. The Commercial Arts option is designed to develop skills in working with the printed word and visual communication. The Fine Arts option will prepare the student as an artist or as a teacher.

BACHELOR OF ARTS DEGREE—MAJOR REQUIREMENTS:

Major: Art

Core Requirements:

*Design	161-162-163	9
*Drawing	181-182-183	6
Introduction to Painting	191, 192, 193	6
*Introduction to Art	222	3
*Survey of Art	231, 232, 233	6
Introduction to Printmaking	281, 282, 283	6
History of Modern Art	401	3
		<hr/> 39

Option A — Fine Arts:

Sculpture	261 or 262 or 263	2
Fine Arts Design	301, 302, 303	9
Commercial Art	204, 205, 206	10
Advanced Drawing	307-308, 309	
Printmaking	311, 312, 313	
Painting	331, 332, 333	
Advanced Sculpture	361-362-363	
Filmmaking	371-372-373	
		<hr/> 21

OR

Option B — Commercial Art:

Commercial Art	204, 205, 206	6
Advertising Design	314, 315, 316	9
Advanced Drawing	307-308	6
Printmaking	311, 312, 313	
Filmmaking	371-372-373	
		<hr/> 21

* See Minor Requirements on the following page.

Required Cognates:

Arts and Ideas	Nondept. 207, 208, 209	6
Principles of Photography (option B)	IE&T 161	2
Applied Photography (option B)	IE&T 362	3
Contemporary Philosophy (option A)	Theo. 423	2
Biblical Archaeology (option A)	Theo. 445	2

ART—MINOR REQUIREMENTS:

To meet the minor requirements, the student will choose at least 33 credits from the core requirements as listed on the previous page; asterisked (*) courses are required.

161-162-163 DESIGN 3-3-3

An intensified study of the basic elements of design aiming to develop cognizance of visual organization.

181-182-183 DRAWING 2-2-2

An experience in the use of line with representational and nonfigurative approaches through application to still life and portraiture.

191, 192, 193 INTRODUCTION TO PAINTING 2, 2, 2

A first course in painting through various uses of acrylics.

****204, 205, 206 COMMERCIAL ART 2, 2, 2**

An introduction to the various processes and media of commercial art, with emphasis on layout, new directions and craftsmanship.

222 INTRODUCTION TO ART 3

The class is designed for the liberal arts students who wish to better understand and appreciate the visual arts of painting, sculpture, printmaking and the minor arts.

231, 232, 233 SURVEY OF ART 2, 2, 2

The study of the great periods in history of art, their causes and developments; the relation between art and society and the implication of aesthetic understanding in each period.

261, 262, 263 SCULPTURE 2, 2, 2

The study and application of three-dimensional forms in space using varied media such as plaster, plasticene and paper.

281, 282, 283 INTRODUCTION TO PRINTMAKING 2, 2, 2

A beginning course in the art of printmaking, relief method of printmaking—linoleum cut, woodcut and wood engraving.

301, 302, 303 FINE ARTS DESIGN 3, 3, 3

Application of the basic principles and elements of design to be used in the fine arts field. Prerequisite: 161-162-163.

**Not offered 1974-75.

ART

305 ART IN THE ELEMENTARY SCHOOL 3

Principles of design and exploration of materials appropriate for primary and intermediate grade children. Methods for the intelligent use of art materials for the child of elementary school age.

307-308, 309 ADVANCED DRAWING 2-2, 2

A utilization of the basic principles of drawing with various experimental approaches. Prerequisite: 181-182-183.

310 ART OF THE RENAISSANCE 3

The study of the art of Italy from the fourteenth century through the sixteenth century and its influence on the art of Northern Europe. Prerequisite: 231, 232, 233.

311, 312, 313 PRINTMAKING 2, 2, 2

An advanced course in the various processes of intaglio printing, dry-point, engraving, etching and lithography. Open to majors and minors only. Prerequisites: 161-162-163 and 281, 282, 283.

***314, 315, 316 ADVERTISING DESIGN 3, 3, 3**

Application of the basic principles and elements of design to be used in the commercial field of art. Prerequisite: 161-162-163.

331, 332, 333 PAINTING 2, 2, 2

To develop the aesthetic enjoyment and understanding in the application of paint, whether the media be oil, casein or tempera. Prerequisites: 181-182-183 or equivalent.

***361-362-363 ADVANCED SCULPTURE 2-2-2**

Application of basic three-dimensional design principles, using metal, fiber glass, emphasizing experimentation in direction, media and techniques. Prerequisite: 261, 262, 263.

***371-372-373 FILMMAKING 2-2-2**

A course in filmmaking, with emphasis on the creative rather than the technical aspects. A course primarily concerned with the creative use of the movie camera as it relates to composition, thematic organization and experimental directions.

400 TOPICS IN ART 1-3; 3

The study of advanced topics through class activities. One to three credits per quarter; maximum, three credits.

401 HISTORY OF MODERN ART 3

The origins and development of the modern period in the fine arts and their relationship to contemporary society. Prerequisite: 231, 232, 233.

*Not offered 1974-75.

477, 478, 479 INDEPENDENT STUDY IN ART**1-2; 3**

Individual student projects chosen and carried out under the direction of the department chairman. Open to majors and minors only. One to two credits any quarter; maximum, three credits.



BIOLOGICAL SCIENCES

D. Rigby, Chairman; D. Clayton, J. Dassenko, L. Dickson, A. Grable, L. McCloskey, A. Perry.

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 Applied Biology—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 Biological Station at Rosario Beach adjoining Deception Pass State Park, Anacortes, Washington. For further information, see the bulletin of the Marine Biological Station.

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

BACHELOR OF SCIENCE DEGREE—MAJOR REQUIREMENTS:

Major: Biology

General Biology	101, 102, 103	12
Genetics	261	4
Developmental Biology	266	4
Biostatistics	350	4
Research Methods I, II, III	351, 352, 453	4
Cell Physiology	392	4
General Ecology	446	4
Philosophy of Origins and Speciation	483	3
Colloquium	495	0

Required each quarter of juniors and seniors while in residence.

Electives, upper-division in biology	17
One course in zoology and one in botany required	56

Required Cognates:

Fundamentals of Mathematics	Math. 121, 122	8
Analytical Geometry & Calculus I	Math. 181	4
General Chemistry	Chem. 161-162-163	12
Elementary Organic Chemistry	Chem. 321-322-323	12
General Physics	Phys. 211, 212, 213	9
General Physics Laboratory	Phys. 214, 215, 216	3

One summer term at the Marine Biological Station

BIOLOGICAL SCIENCES

Candidates for this degree who plan on graduate work in biology should counsel with a departmental adviser concerning the need of a foreign language.

Major: Biophysics

The requirements for the curriculum of biophysics are listed in the department of physics.

BIOLOGY—MINOR REQUIREMENTS:

A minimum of 27 credits including 8 upper-division credits. Course 101, 102, 103 is required. Four credits must be in botany.

APPLIED BIOLOGY - AGRICULTURE—MINOR REQUIREMENTS:

This minor is designed to provide the student with a practical knowledge of a science relating to the basic needs of mankind.

The student should prepare to have at least 30 credits of the following courses:

Fruit Growing	262	2
Home Gardening	263	3
Horticulture	266	3
Introduction to Soils	361	3
Farm Management	362	3
Animal Husbandry	363	3
Electives		13
(to be chosen in consultation with agriculture adviser)		
Floriculture and Landscaping	267	30
Crop Production	364	
Genetics	Bio. 261	
Developmental Biology	Bio. 266	
Survey of Plant Kingdom	Bio. 360	
Cell Physiology	Bio. 392	
Animal Physiology	Bio. 393	
Plant Physiology	Bio. 401	
General Entomology	Bio. 405	
Plant Anatomy	Bio. 412	
Systematic Botany	Bio. 426	
General Ecology	Bio. 446	
Parasitology	Bio. 447	

Required Cognates:

General Biology	Bio. 101, 102, 103	12
Introductory Chemistry	Chem. 101-102-103	9

BIOLOGY

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. One laboratory per week.

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202, 203 ANATOMY, PHYSIOLOGY

5, 5

A survey of human anatomy and physiology is given. Health principles will be integrated in this course. One laboratory per week. Will not apply on biology major or minor.

222 MICROBIOLOGY

5

The nature of bacteria and disease-producing organisms with their habits and methods of reproduction and the relation of these organisms to disease in the human body are studied. One laboratory per week. Will not apply on biology major.

261 GENETICS

4

A study of the principles of inheritance in plants and animals. One laboratory per week. Prerequisites: 101, 102, 103.

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: 101, 102, 103.

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

350 BIOSTATISTICS

4

Practice and theory of statistical methods in quantitative biology.

351 RESEARCH METHODS I

1

Discussion of the methods of science, the types of biological literature, sources of biological information and methods of information retrieval. First quarter of a three-quarter sequence required of all majors.

352 RESEARCH METHODS II

1

Methods of selection of a research problem, experimental design and the forms for presentation of data in the scientific paper are discussed. Second quarter of a three-quarter sequence required of all majors.

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.

389 NATURAL HISTORY OF VERTEBRATES

4

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

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.

393 ANIMAL PHYSIOLOGY 4

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

400 TOPICS IN BIOLOGY 1-3; 6

The study of advanced topics through class activities. One to three credits per quarter; maximum, six credits.

401 PLANT PHYSIOLOGY 4

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

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.

405 GENERAL ENTOMOLOGY 4

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

407 PHILOSOPHY OF SCIENCE 3

A study of the scientific method as it relates to primary origins and present-day distributions of living things. Evidences from archeology, the physical and biological sciences are examined. Does not apply on a biology major.

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: 360. One laboratory per week.

420 COMPARATIVE ANATOMY 5

A study of the comparative anatomy of chordates with emphasis on the vertebrates. Dissection of the shark, mudpuppy, turtle, pigeon and cat are made in the laboratory. Two laboratories per week.

424 HERPETOLOGY 4

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

426 SYSTEMATIC BOTANY 4

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.

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- 429 LIMNOLOGY** 4
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.
- 441 MICROTECHNIQUE** 3
A course designed to cover the important methods of making microscope slides. Two laboratories per week.
- 444 MAMMALOLOGY** 4
A systematic study of mammals with emphasis on natural history and ecology. Two laboratories per week.
- 446 GENERAL ECOLOGY** 4
A course designed to cover the basic principles of plant and animal ecology. Field trips to nearby areas illustrating these principles are part of the laboratory work. Two laboratories per week.
- 447 PARASITOLOGY** 5
A systematic study of the morphology, life cycle and host-parasite relationships of protozoan, helminth and arthropod parasites. Two laboratories per week.
- 449 VERTEBRATE HISTOLOGY** 4
The microscopic anatomy of vertebrate cells, tissues and organs including reference to their functions. Two laboratories per week.
- 451 INVERTEBRATE ZOOLOGY** 5
A study of the biology of the invertebrates with emphasis on their ecology, morphology and physiology. Two laboratories per week.
- 453 RESEARCH METHODS III** 2
Methods of writing the scientific paper, oral presentation of the paper and a discussion of the organization of the biological sciences for the communication of results of scientific research are included. Third quarter of a three-quarter sequence required of all majors.
- 462 ICHTHYOLOGY** 4
A systematic study of the fishes found in Puget Sound, with a survey of the fishes of other waters. (WWC Marine Biological Station)
- 463 MARINE BOTANY** 4
A systematic study of plants found in Puget Sound, with a survey of marine plants from other areas. (WWC Marine Biological Station)
- 464 ANIMAL BEHAVIOR** 4
A comparative study of the behavior of animals with emphasis on an

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experimental analysis of behavior. A research project will be required. (WWC Marine Biological Station)

465 BACTERIOLOGY 5

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.

467 BIOLOGICAL OCEANOGRAPHY 4

A study of physical, chemical and geological effects on marine organisms. (WWC Marine Biological Station)

468 COMPARATIVE PHYSIOLOGY 4

A comparative study of the physiology and life processes of animals with emphasis on invertebrates. Prerequisite: 392. (WWC Marine Biological Station)

470 BIOPHYSICS 4

An introductory course emphasizing the physical aspects of living organisms studied by the experimental and conceptual methods of physics with application to marine life. (WWC Marine Biological Station)

472 METHODS OF TEACHING BIOLOGY 3

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.

474 MARINE INVERTEBRATES 4

A study of the biology of selected groups of marine invertebrates. (WWC Marine Biological Station)

477, 478, 479 INDEPENDENT STUDY IN BIOLOGICAL SCIENCE 1-3; 1-4

Directed 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 showing competence in and extent of his study. Open only to majors and minors. Permission from the chairman of the department required. One to three credits any quarter; maximum, three credits on the College Place campus. Students may register for up to four credits for research projects done at the WWC Marine Biological Station.

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.

BIOLOGICAL SCIENCES

- 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 on the rate of one hour credit for each week spent working in the field.
- 495 COLLOQUIUM** 0
A departmental seminar offered each quarter in which current areas of research are presented by the staff and visiting lecturers. Required of all juniors, seniors and graduate students. No credit.
- 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 credits per quarter; maximum, eight credits.
- 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: 261.
- 506 MORPHOLOGY OF PLANTS** 4
An advanced study of the type forms of the divisions of the plant kingdom. One laboratory per week. Prerequisite: 360 or permission of the instructor.
- 508 PHYSIOLOGY OF THE ALGAE** 4
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. (WWC Marine Biological Station)
- 510 GRADUATE SEMINAR** 1; 5
Presentation of topics and discussion of current research in specific areas of biology. One credit any quarter; three credits required; maximum, five credits.
- 511 BIOSYSTEMATICS** 4
A study of the process of speciation and its relationship to currently used taxonomic methods and rules of nomenclature.
- 514 SYMBIOSIS** 4
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: Coursework in one group of animals or plants or microbes or parasitology. Chemistry

BIOLOGICAL SCIENCES

courses through organic are highly recommended. Two laboratories per week.

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: 405. Two laboratories per week.

521 PRINCIPLES OF ECONOMIC ENTOMOLOGY 3

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

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: 392, 393.

Reading Courses—A maximum of six credits may be selected from Reading Courses.

525 READINGS IN PHYSIOLOGY 2; 4

Analysis of classical and current literature in the field by means of reports and conferences with staff. Two credits; maximum, four credits.

526 READINGS IN INVERTEBRATE ZOOLOGY 2; 4

Analysis of classical and current literature in the field by means of reports and conferences with staff. Two credits; maximum, four credits.

527 READINGS IN ENTOMOLOGY 2; 4

Analysis of classical and current literature in the field by means of reports and conferences with staff. Two credits; maximum, four credits.

528 READINGS IN ECOLOGY 2; 4

Analysis of classical and current literature in the field by means of reports and conferences with staff. Two credits; maximum, four credits.

529 READINGS IN SYMBIOSIS 2; 4

Analysis of classical and current literature in the field by means of reports and conferences with staff. Two credits; maximum, four credits.

530 READINGS IN BIOSYSTEMATICS 2; 4

Analysis of classical and current literature in the field by means of reports and conferences with staff. Two credits; maximum, four credits.

545 THESIS 8

Preparation of the master's dissertation after successfully carrying out original study with a suitable topic to be selected after consultation with the major professor.

BIOLOGICAL SCIENCES

AGRICULTURE

- 262 FRUIT GROWING** 2
Varieties of fruit, propagation, managing soil in orchards, fertilization, pest control, harvesting.
- 263 HOME GARDENING** 3
Planning home gardens, preparing soil for planting, growing transplants, transplanting, fertilizing, irrigation, planting for different seasons. One laboratory per week.
- 266 HORTICULTURE** 3
This course treats plant growth and development, propagation, fertilizers, transplanting and horticulture crops. One three-hour laboratory per week.
- 267 FLORICULTURE AND LANDSCAPING** 3
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 three-hour laboratory per week.
- 361 INTRODUCTION TO SOILS** 3
Types of soil, plant food; irrigation, soil testing; conservation; pollution. Prerequisites: Chemistry 101-102-103. One laboratory per week.
- 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.
- 363 ANIMAL HUSBANDRY** 2
Breeds of livestock, nutrition and feeding, sanitation, judging, management and economics of beef and dairying, breeding, genetics.
- 364 CROP PRODUCTION** 3
Grain production, forage production, pasture management, fertilizers, weed control, marketing. Field trips and farm visitations are included. Prerequisite: Biology 101, 102, 103.

All courses under agriculture offered alternate years.

BUSINESS

P. Joice, Chairman; R. Fowler, R. Kappel, R. Koorennny, J. Mehling.

The courses and programs offered by the department are designed to prepare students for business-related 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.

The department offers a Bachelor of Science in Business Administration degree (BSBA) with opportunity to concentrate in several areas of business. 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. Minors are also available in either business or economics.

Transfer students must complete a minimum of twenty-five percent of the business department major or minor requirements in residence at Walla Walla College.

Pre-law students are encouraged to complete the Bachelor of Arts degree program. This provides for broad preparation in the liberal arts. Students may obtain majors in the humanities or business. Additional information and some suggested course electives are listed on page 59.

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

In cooperation with the department of education and psychology, a graduate program is offered leading to the Master of Education degree. For further information, see the Graduate Bulletin.

BUSINESS

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION DEGREE—REQUIREMENTS:

Core Requirements:

Principles of Accounting	111, 112, 113 or 115, 116	9
Introduction to Information Science	153	4
Principles of Management	163	4
Principles of Economics	221, 222, 223	9
Managerial Cost Accounting	311	4
Business Law	341, 342, 343	9
Marketing	371	4
Business Finance	331	4
Business Statistics	444	4
Seminar	449	2
		<hr/> 53

Major Requirements:

In addition to the core requirements, 20 hours in either accounting, economics, management or marketing.	20
Business Electives	23

Required Cognates:

Typing	Of.Adm. 123 or equivalent	0-4
Business Machines	Of.Adm. 262, 263	4
Business Communications	Of. Adm. 352	} 3
or		
Advanced Writing	Eng. 280	

General Education Requirements:

Humanities: 21

College Writing	Eng. 101-102-103
Fundamentals of Speech Communication	Comm. 101-102
Speech Electives	2 credits
Fine Arts, Literature or Speech	6 credits

Mathematics: 12

Fundamentals of Mathematics I, II (recommended)	
	Math. 121, 122

Social Science: 33

Philosophy of Christian Education	Educ. 110
General Psychology	Psych. 121, 122
Religion	(16-24 credits
	or 2 credits for each quarter
	in residence, whichever is less)
American Government (recommended)	Pol. Sc. 203

Physical Education:

Service Courses	3
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BUSINESS

Nonbusiness Electives:

16-21

May be selected from course offerings from any department other than business in consultation with departmental adviser. — 192

BACHELOR OF ARTS DEGREE—MAJOR REQUIREMENTS:

Major: Business Administration

Principles of Accounting	111, 112, 113 or 115, 116	9
Principles of Economics	221, 222, 223	9
Business Law	341, 342, 343	9
Seminar	449	2
Business Electives (10 upper-division) (as approved by department chairman)		<u>25</u>
		54

BUSINESS—MINOR REQUIREMENTS:

Principles of Accounting	111, 112, 113 or 115, 116	9
Principles of Economics	221, 222, 223	9
Business Electives* (4 upper-division) (as approved by department chairman)		<u>12</u>
		30

ECONOMICS—MINOR REQUIREMENTS:

Principles of Economics	221, 222, 223	9
Price Theory	321	4
Aggregate Economic Analysis	322	4
Electives (3 upper-division) (as approved by department chairman)		<u>13</u>
		30

ACCOUNTING

111, 112, 113 PRINCIPLES OF ACCOUNTING 3, 3, 3

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.

115, 116 PRINCIPLES OF ACCOUNTING 5, 4

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.

211, 212, 213 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: 113 or 116.

BUSINESS

311 MANAGERIAL COST ACCOUNTING 4

Standards and budgets for control; volume-profit relationships; discretionary and committed costs; application of overhead and analysis of variances; accounting systems for accumulating costs; responsibility centers; long-range planning; cost analysis for problem solving; capital budgeting; quantitative techniques applied to cost accounting. Prerequisite: 113 or 116.

315 FEDERAL INCOME TAX 4

A study of tax regulations and accounting records necessary to facilitate proper tax accounting and reporting for individuals, partnerships and corporations.

411 ADVANCED ACCOUNTING 4

Special accounting problems relating to partnership accounting, preparation of financial statements for consolidations and combinations involving branch offices and subsidiaries; accounting for trusts and estates. Prerequisite: 213.

412 CPA REVIEW 4

A comprehensive review of problems covering accounting principles, procedures and presentations as found in the practice section of the CPA examination. Prerequisites: 311; 315 and 411.

413 ACCOUNTING THEORY 4

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: 213; 411 and 412 recommended.

414 FUND ACCOUNTING 4

A study of the application of fund accounting principles to various governmental entities, school, hospital and church accounting systems. Prerequisite: 113 or 116. Offered alternate years.

419 AUDITING PROCEDURES 4

Public accounting practice including such topics as ethics, auditing standards and techniques, internal control, advisory services, computer system techniques, audit working papers and legal liability. Prerequisite: Eight hours of accounting beyond 213. Offered alternate years.

ECONOMICS

221, 222, 223 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.

BUSINESS

321 PRICE THEORY 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: 223. Offered alternate years.

322 AGGREGATE ECONOMIC ANALYSIS 4

Analysis of the determinants of the aggregate level of employment, output, and income of an economy. Prerequisite: 223. Offered alternate years.

323 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. Offered alternate years.

421 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: 223. Offered alternate years.

422 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: 223. Offered alternate years.

423 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: 223. Offered alternate years.

427 DEVELOPMENT OF ECONOMIC THOUGHT 4

A study of the history of economic doctrine, tracing the origins of contemporary economic theory. Prerequisites: 321 and 322. Offered alternate years.

429 BUSINESS CYCLES 4

A study of the business cycle including analysis of cycle theories, appraisal of proposals for controlling cycles, and forecasting techniques. Prerequisites: 321 and 322. Offered alternate years.

FINANCE

131 PERSONAL FINANCE 2

A course designed to provide an individual with the techniques to manage his personal finances more efficiently.

BUSINESS

331 BUSINESS FINANCE 4

A study of the fundamental principles of financial policy in the organization and management of corporate enterprises. Prerequisites: 113 and 223.

431 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. Offered alternate years.

432 CREDIT ADMINISTRATION 4

A study of loan and collection problems from the viewpoint of the credit administrator. Offered alternate years.

435 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: 113 and 223. Offered alternate years.

GENERAL BUSINESS

341, 342, 343 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.

344 PRINCIPLES OF INSURANCE 4

A study of insurance contracts, underwriting organizations and insurance representation and procedures. Offered alternate years.

346 REAL ESTATE 4

A survey course in the basic principles and problems of real estate management and appraisal.

400 TOPICS IN BUSINESS 1-3; 6

The study of advanced topics through class activities. One to three credits per quarter; maximum, six credits.

444 BUSINESS STATISTICS 4

Methods of collecting, analyzing and presenting statistical data; probability and sampling distributions, techniques of sampling, Bayesian and classical decision theory, hypothesis testing, correlation and regression, index numbers and time series analysis. Prerequisites: 12 hours of mathematics and 40 hours of business.

BUSINESS

449 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.

477, 478, 479 INDEPENDENT STUDY IN BUSINESS 1-3; 3

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 showing competence in and extent of his study. Open only to majors or minors. Permission from the department chairman required. One to three credits any quarter; maximum, three credits.

INFORMATION SCIENCE

153 INTRODUCTION TO INFORMATION SCIENCE 4

The essential characteristics, applications and design of a data processing system. A review of punched card data processing system, computer hardware development, computer arithmetic, ethical and legal considerations relating to the data bank. Prerequisite: Beginning typewriting or equivalent.

251 PROGRAMMING FOR BUSINESS I 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 one programming language; experience in the use of a computer. Prerequisite: 153.

252 PROGRAMMING FOR BUSINESS II 4

Programming of business problems in a language or languages not covered in Programming for Business I; emphasis on program writing, documentation, testing and debugging. Prerequisite: 153.

240 Off. Adm. IBM KEY PUNCH 1

See Department of Office Administration.

218 Engr. COMPUTER SCIENCE I 2

See School of Engineering.

220 Engr. COMPUTER SCIENCE II 2

See School of Engineering.

226 Engr. COMPUTER SCIENCE III 1

See School of Engineering.

424 Engr. ANALOG COMPUTER PROGRAMMING 1

See School of Engineering.

BUSINESS

MANAGEMENT

163 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.

261 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: 163.

361 JOB ANALYSIS 2

Techniques and practice in analyzing requirements of various types of work positions and writing descriptions needed by the personnel department. Recommended prerequisite: 163. Offered alternate years.

362 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 prerequisite: 163. Offered alternate years.

462 MANAGEMENT OF MEDICAL INSTITUTIONS 4

Management problems and procedures peculiar to hospitals, nursing homes and convalescent centers. Prerequisites: 113, 163, 223. Offered alternate years.

463 HUMAN RELATIONS IN MANAGEMENT 4

A survey of the human relations problems found in various types of organizations. Prerequisite: 163. Offered alternate years.

466 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: 163 and 40 hours of business core requirements. Offered alternate years.

467 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. Offered alternate years.

447 HEc. **INSTITUTIONAL FOOD PURCHASING** 3
See Department of Home Economics.

448 HEc. **INSTITUTION MANAGEMENT** 3
See Department of Home Economics.

MARKETING

371 **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: 113, 223.

372 **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: 371. Offered alternate years.

373 **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.

471 **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.

472 **PURCHASING** 4
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.

473 **RETAIL STORE OPERATION AND MANAGEMENT** 4
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: 371. Offered alternate years.

204, 205, 206 Art **COMMERCIAL ART** 2, 2, 2
See Department of Art.

BUSINESS

314, 315, 316 Art **ADVERTISING DESIGN**

3, 3, 3

See Department of Art.

BUSINESS TEACHER EDUCATION

Admission to these courses is granted by the department chairman to those students who have demonstrated by course completion or successful teaching experience they can profit from these advanced courses. These courses will be offered only during the *summer quarter*.

Students pursuing the Master of Education degree should select one or more courses to satisfy elective requirements from approved business courses or the following graduate courses as listed under the department of education and psychology:

526 — School Finance

527 — School Planning and Construction

539 — Supervision

550 — School Law

or

551 — Administration of the Secondary School

490 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.

491 WORKSHOP IN BUSINESS TEACHER 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.

492 BUSINESS EDUCATION CURRICULUM OF THE SECONDARY SCHOOL

2

Planning and procedures in curriculum development and revision. Analysis of various types of instructional aids, courses of study and text materials.

494 PRINCIPLES, PROBLEMS AND TRENDS IN BUSINESS EDUCATION

2

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

CHEMISTRY

C. Jones, Chairman; J. Chambers, C. Chinn

BACHELOR OF ARTS DEGREE—MAJOR REQUIREMENTS:

Major: Chemistry

General Chemistry	161-162-163	12
Elementary Quantitative Analysis	244, 245-246	10
Elementary Organic Chemistry	321-322-323	12
Physical Chemistry	351, 352, 353	12
Electives		<u>2</u>
		48

Required Cognates:

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

Any minor may be chosen for the Bachelor of Arts degree.

BACHELOR OF SCIENCE DEGREE—MAJOR REQUIREMENTS:

Major: Chemistry

General Chemistry	161-162-163	12
Elementary Quantitative Analysis	244, 245-246	10
Elementary Organic Chemistry	321-322-323	12
Physical Chemistry	351, 352, 353	12
Independent Study in Chemistry	477, 478, 479	1-3
Electives		<u>16</u>
		63-65

Required Cognates:

Computer Science I	Engr. 218	2
Analytic Geometry and Calculus I, II, III, IV	Math. 181, 281, 282, 283	16
General Physics	Phys. 211, 212, 213	} 12
General Physics Laboratory	Phys. 214, 215, 216	
or		
Principles of Physics	Phys. 251, 252, 253	
Principles of Physics Laboratory	Phys. 254, 255, 256	

Minors in both mathematics and physics are recommended for the Bachelor of Science degree.

CHEMISTRY

Major: Clinical Chemistry and Medical Technology (double major)

General Chemistry	161-162-163	12
Elementary Quantitative Analysis	244, 245-246	10
Elementary Organic Chemistry	321-322-323	12
Physical Chemistry	351, 352, 353	12
General Biology	Bio. 101, 102, 103	12
Microbiology	Bio. 222	5
or		
Bacteriology	Bio. 465	8-10
Anatomy, Physiology	Bio. 202, 203	
or		
Cell Physiology and	Bio. 392	8-10
Animal Physiology	Bio. 393	
Fundamentals of Mathematics, I, II	Math. 121, 122	8
Analytic Geometry and Calculus I, II	Math. 181, 281	8
General Physics	Phys. 211, 212, 213	9
General Physics Laboratory	Phys. 214, 215, 216	3
Clinical Courses (12 months at an approved hospital)		48
		147-149

Candidates for this degree must meet all basic graduation requirements with the exception of language.

CHEMISTRY—MINOR REQUIREMENTS:

A minimum of 27 credits including three upper-division credits.

101-102-103 INTRODUCTORY CHEMISTRY I

3-3-3

An introductory course in chemistry covering the fields of inorganic, organic and biochemistry. Will meet basic science requirement but does not apply on a major or minor. Must be taken in sequence. Two lectures, one laboratory per week. AWS

161-162-163 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 non-metals. Must be taken in sequence. Prerequisite or corequisite: Mathematics 121, 122 or equivalent. Three lectures and one laboratory per week. AWS

244, 245-246 ELEMENTARY QUANTITATIVE ANALYSIS

4, 3-3

Fundamental principles and laboratory practices in both gravimetric and volumetric analysis are presented in 244. The remaining time is spent on ionic equilibrium and simple instrumental methods of analysis. Prerequisite: 163; 244 is prerequisite for 245-246; Mathematics 121. Three lectures, one laboratory per week autumn; two lectures, one laboratory per week winter and spring. AWS

271 INTRODUCTORY CHEMISTRY II 3

This course is a continuation of 101-102-103, emphasizing organic and biochemistry. Will not apply on major or minor. Three lectures per week. W

321-322-323 ELEMENTARY ORGANIC CHEMISTRY 4-4-4

A study of the preparation, reaction and constitution of the aliphatic and aromatic compounds of carbon. Prerequisite: 161-162-163. Three lectures and one laboratory per week. AWS

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. Prerequisites: 244, 245-246, Physics 211, 212, 213; 214, 215, 216 or 251, 252, 253; 254, 255, 256 and Mathematics 121, 122, 181, 281, or permission from the instructor. Three lectures, one laboratory per week. AWS

400 TOPICS IN CHEMISTRY 1-3; 6

The study of advanced topics through class activities. One to three credits per quarter; maximum, six credits.

406, 407 BIOCHEMISTRY 4, 3

A study of the chemistry of foods, digestion and body metabolism. Prerequisite: 321-322-323. The spring quarter, 406, consists of three lectures and one laboratory per week; it is prerequisite to the autumn course, 407, which is three lectures per week and no laboratory. Four credits, spring; three credits, autumn.

427, 428 ADVANCED ORGANIC CHEMISTRY 2, 2

A study of the current theories in the field of aliphatic and aromatic chemistry. Prerequisite: 321-322-323. AW

442, 443 ADVANCED INORGANIC CHEMISTRY 2, 2

A review of the modern theories of chemistry, including selected topics such as nuclear chemistry, coordination chemistry, synthetic inorganic chemistry and instrumentation. Prerequisite: 161-162-163. WS

461, 463 ADVANCED ANALYTICAL CHEMISTRY 3, 3

A study of instrumental methods of analysis. One lecture, two laboratory periods per week. Prerequisite: 246. AS

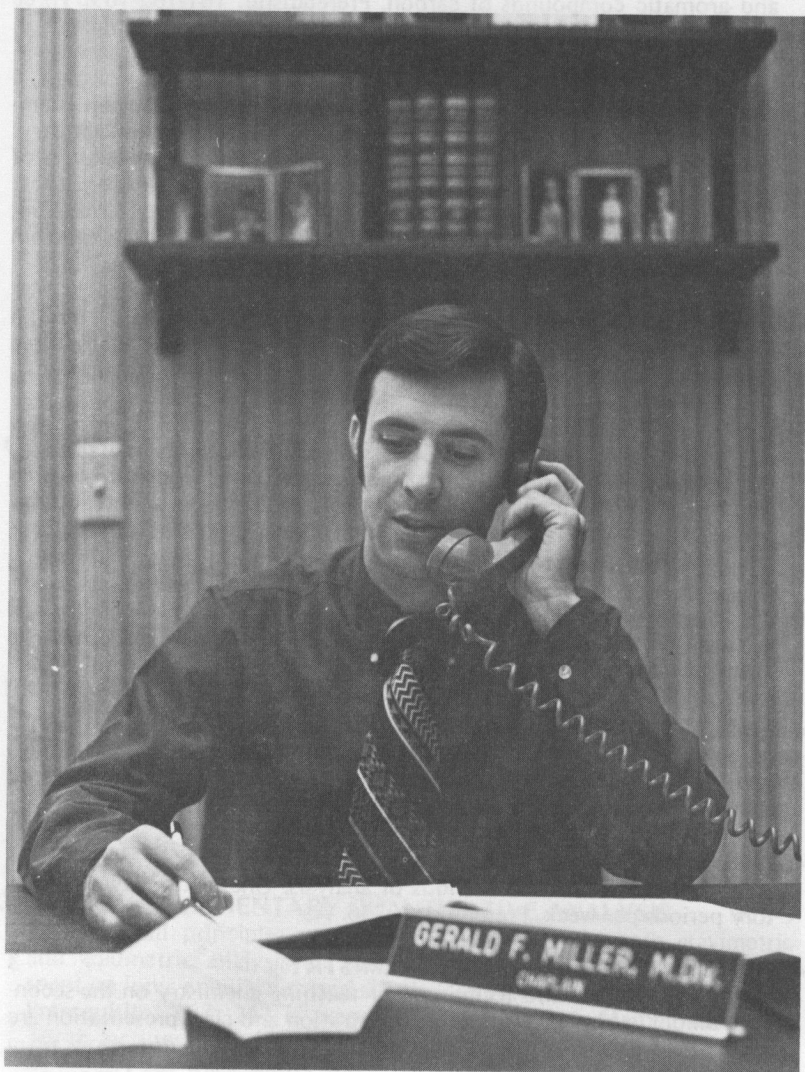
471 METHODS OF TEACHING CHEMISTRY 3

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. W

CHEMISTRY

477, 478, 479 INDEPENDENT STUDY IN CHEMISTRY 1-3; 3

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 showing competence in and extent of his study. Open only to majors and minors. Permission from the chairman of the department required. One to three credits any quarter; maximum, three credits.



COMMUNICATIONS

L. Dickinson, Chairman; K. Smith, Donnie Rigby, 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. Toward those ends the department offers four majors and minors in general speech communication and journalism.

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

The third major is speech pathology and audiology. It trains students toward the goal of becoming 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 more fully qualify the student to meet certification requirements held in most states and at the national professional level.

The fourth major is journalism. It 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.

BACHELOR OF ARTS DEGREE—MAJOR REQUIREMENTS:

Major: Speech Communication

Fundamentals of Speech Communication	101-102	4
Voice and Articulation	107	2
Survey of Speech Pathology and Audiology	210	3
Oral Interpretation	211	2
Speech and Hearing Science	291	3
Advanced Public Address	323	3
or		
Persuasive Speaking	443	
or		
Rhetoric and Public Address	453	31
Electives may include:		
Mass Communication Media	Jour. 326	48
Introduction to English Linguistics	Eng. 425	

COMMUNICATIONS

Major: Communication Media

Fundamentals of Speech Communication	101-102	4
Introduction to Graphic Arts	IE&T. 144, 145-146	6
Principles of Photography	IE&T. 161	2
Newswriting	Jour. 164, 165	8
Design	Art 161-162-163	} 6 or 9
or		
Commercial Art	Art 204, 205, 206	} 3
Broadcast Techniques and Announcing	231	
or		
Survey of Broadcasting	352	} 3
Mass Communication Media	Jour. 326	
Introduction to General Semantics	401	2
Persuasive Speaking	443	3
Seminar in Communication Media	497	2
Electives chosen from:	13-16	
	<hr/>	55

Broadcast Techniques and Announcing	231	}
Survey of Broadcasting	352	
Communication Theory	275	}
Advanced Writing	Eng. 280	
or		}
Creative Writing	Eng. 385, 386	
or		}
Magazine Article Writing	Jour. 341, 342	
Applied Photography	IE&T. 362	}
Public Relations	Jour. 363	
or		}
Public Relations	Bus. 471	
Instructional Aids—Production	Ed. 462	}
Filmmaking	Art 371-372-373	
Social Psychology	Psych. 444	}
or		
General Sociology	Soc. 204	}
Principles of Advertising	Bus. 372	

Major: Journalism

Professional Courses:

Newswriting	164, 165	8
Advanced Reporting and Editing	266	4
Electives in Journalism		24
Three courses must be chosen from the following:		
Principles of Advertising	Bus. 372	}
Public Relations	Bus. 471	
Broadcast Techniques and Announcing	Comm. 231	
or		
Survey of Broadcasting	Comm. 352	}
Communication Theory	Comm. 275	
Introduction to General Semantics	Comm. 401	}
Elementary Statistics	Psych. 350	
Advanced Writing	Eng. 280	

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Literary Analysis and Research (recommended only if literature is chosen as one of the two liberal arts areas)	Eng. 286
Creative Writing or	Eng. 386
Expository Prose	Eng. 401
Principles of Photography	IE&T 161

Liberal Arts Courses:

Courses beyond basic degree requirements chosen from two of the following areas, with approximately equal hours in each; must be chosen in consultation with departmental adviser:

18

54 Total

***Art**

Business
History
Literature
Mathematics

***Music**

Psychology
Science
Sociology
Theology

Others in consultation with journalism adviser

*not applied art or music

Required Cognates:

Introduction to Graphic Arts	IE&T 144, 145-146	6
Demonstrate proficiency in typing		

BACHELOR OF SCIENCE DEGREE—MAJOR REQUIREMENTS:

Major: Speech Pathology and Audiology

Fundamentals of Speech Communication	101-102	4
Voice and Articulation	107	2
Survey of Speech Pathology and Audiology	210	3
Phonetics	274	3
Speech and Hearing Science	291	3
Oral Language Development and Disorders	299	3
Basic Audiology	384	3
Nonorganic Voice and Articulation Problems	385	4
Organic Speech Pathologies	386	4
Stuttering: Theories and Therapies	387	3
Speech Reading and Auditory Training	388	3
Directed Clinical Observation	390	2
Beginning Clinical Practicum	393	2
Introduction to General Semantics	401	2
Advanced Clinical Practicum	410	3
Advanced Audiology	441	3
Diagnosis in Speech Pathology	461	3

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COMMUNICATIONS

Required Cognates:

General Biology	Bio. 101, 102, 103	12
Anatomy and Physiology	Bio. 202, 203	10
General Sociology	Soc. 204, 205	6
Elementary Statistics	Psych. 350	3
Psychological Testing	Psych. 430	3
Child Psychology	Psych. 435	3
Psychology of Personality	Psych. 446	3

SPEECH COMMUNICATION—MINOR REQUIREMENTS:

A minimum of 27 credits including 101-102 and 9 upper-division credits. Approval of the department chairman required.

JOURNALISM—MINOR REQUIREMENTS:

A minimum of 27 credits, including 3 upper-division, chosen in counsel with journalism adviser.

SPEECH COMMUNICATION

101-102 FUNDAMENTALS OF SPEECH COMMUNICATION 2-2

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.

107 VOICE AND ARTICULATION 2

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 and to develop clear and correct pronunciation, enunciation and articulation.

207 SMALL GROUP COMMUNICATION 2

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

211 ORAL INTERPRETATION 2

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.

231 BROADCAST 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.

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- 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. One to three credits.
- 275 COMMUNICATION THEORY** 2
An examination of contemporary thought on the nature and process of communication.
- 323 ADVANCED PUBLIC ADDRESS** 3
A course stressing the practical application of speech to the student's major field of interest. It includes the study of speeches for social and business occasions with practice in the classroom. Prerequisite: 101-102.
- 341 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.
- 342 DEBATE** 2
The structure and presentation of evidence and forms of logic in debating the national collegiate debate topic. Prerequisite: 341.
- 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.
- 363 HISTORY OF DRAMATIC ARTS** 3
The study of the history and development of the theater from the Greek to the 20th century.
- 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.
- 381, 382 PULPIT ADDRESS** 3, 3
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.
- 400 TOPICS IN SPEECH COMMUNICATION** 1-3; 6
The study of advanced topics through class activities. One to three credits per quarter; maximum, six credits.
- 401 INTRODUCTION TO GENERAL SEMANTICS** 2
A course stressing the use of language to influence human behavior;

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language in problem solving and as a means of resolving conflicts. Prerequisites; 101-102 or equivalent or permission of instructor.

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: 101-102.

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: 101-102.

472 METHODS OF TEACHING SPEECH COMMUNICATION 3

The basic principles and practices of teaching speech on the elementary 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.

477, 478, 479 INDEPENDENT STUDY IN SPEECH COMMUNICATION 1-3; 3

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 showing competence in and extent of his study. Permission from the chairman of the department required. One to three credits any quarter; maximum, three credits.

497 SEMINAR IN COMMUNICATION MEDIA 2

Studies of selected topics and review of current literature in communication media. Individual research projects included.

SPEECH PATHOLOGY AND AUDIOLOGY

210 SURVEY OF SPEECH PATHOLOGY AND AUDIOLOGY 3

A survey of communication disorders common to the elementary school setting; major emphasis will be given to the etiologies, symptomatologies, and the recognition of speech, language, voice and hearing disorders.

274 PHONETICS 3

The theory, history, development and application of the international phonetic alphabet, its application to speech correction and to adequate pronunciation.

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- 291 SPEECH AND HEARING SCIENCE** 3
A comprehensive study of the anatomy, physiology and neuroanatomy of the speech and hearing mechanisms. Prerequisite: Biology 202, 203.
- 299 ORAL LANGUAGE DEVELOPMENT** 3
Intensive study of normal and delayed language development as affected by pre-speech activities and conditions, early speech development and learning theory. Knowledge of phonetic alphabet recommended.
- 384 BASIC AUDIOLOGY** 3
A study of the history of audiology, rehabilitation of the acoustically handicapped, and basic clinical techniques used in air, bone and speech audiometry. Prerequisite: 210.
- 385 NONORGANIC VOICE AND ARTICULATION PROBLEMS** 4
A study of functional etiologies, symptomatologies and treatment of defective articulation and functional voice problems; emphasis will be placed on the treatment of articulation disorders to help the student develop a large repertoire of therapeutic techniques. Prerequisite: 210.
- 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: 385.
- 387 STUTTERING: THEORIES AND THERAPIES** 3
A study of the theories of stuttering and an evaluation of therapeutic techniques employed. Case histories are studied in detail. Prerequisite: 385, 386.
- 388 SPEECH READING AND AUDITORY TRAINING** 3
Basic principles of establishing communication by observation of visible aspects of speech; methods of teaching lip reading to the acoustically handicapped; recognition and discrimination of speech sounds and speech skills.
- 390 DIRECTED CLINICAL OBSERVATION** 2
A course designed to provide the student opportunity to observe and evaluate speech, voice, language and hearing therapy in progress in various therapy environments.
- 393 BEGINNING CLINICAL PRACTICUM** 2
A clinical experience for the beginning student clinician who will evaluate and treat primarily articulation disorders in the speech and hearing clinic. Prerequisite: 386, 387.

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- 410 ADVANCED CLINICAL PRACTICUM** 1-3; 6
A course designed to give the more advanced student clinician experience in the diagnosis, treatment and staffing of multiple-handicapped speech, voice, language and/or hearing disorders. Prerequisite: 393, or permission from the instructor. One to three credits any quarter; maximum, six credits.
- 441 ADVANCED AUDIOLOGY** 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: 384.
- 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. Prerequisite: 393.
- 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: 386.
- 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: 385.

JOURNALISM

- 164, 165 NEWS WRITING** 4, 4
A practical course in gathering news and writing news stories. Short field trips are made to enrich the student's understanding of public affairs and print and broadcast media. Two lectures and one laboratory per week.
- 264 ADVANCED REPORTING AND NEWS EDITING** 4
A course in reporting public affairs, selecting, preparing and displaying news. One class period per week, with three-hour laboratory in which students will edit copy, do sample make-up and headlines. Prerequisite: 164, 165.
- 326 MASS COMMUNICATION MEDIA** 3
A consideration of print and broadcast media, with emphasis on ethics, controls and effects.

COMMUNICATIONS

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.

352, 353 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 make-up. Each student will do a term project consisting of planning a new magazine, with prospectus and dummy copy. Prerequisite: 341, 342.

363 PUBLIC RELATIONS 3

A course in the principles, practices and problems of effective public relations. Emphasis will be given to techniques of press relations, radio and television as they are used in successful public relations programs for organizations or institutions such as schools, hospitals and churches.

382 EDITORIAL WRITING 2

The writing of editorials, interpretive articles and critical reviews, with a study of these types as found in today's newspaper.

385 RELIGIOUS WRITING 4

A course intended to help students who want to write about religion, directly or indirectly. Underscoring a conviction that good religious writing is needed now more than ever, it treats both the problems and methods of the craft. Students will do several types of writing; publication will be encouraged.

400 TOPICS IN JOURNALISM 1-3; 6

The study of advanced topics through class activities. One to three credits per quarter; maximum, six credits.

412 NARRATIVE WRITING 3

A course in the writing of stories. Students will analyze short narratives in current periodicals to see how successful writers handle their material.

426 SCHOOL PUBLICATIONS 2

A course designed for prospective English teachers who will work with school publications staffs. A study of editorial and business aspects in such publications, with an examination of several school papers and yearbooks.

477, 478, 479 INDEPENDENT STUDY IN JOURNALISM 1-3; 3

Directed, independent study in an approved area. The student will be required to read widely on an assigned subject, follow regular

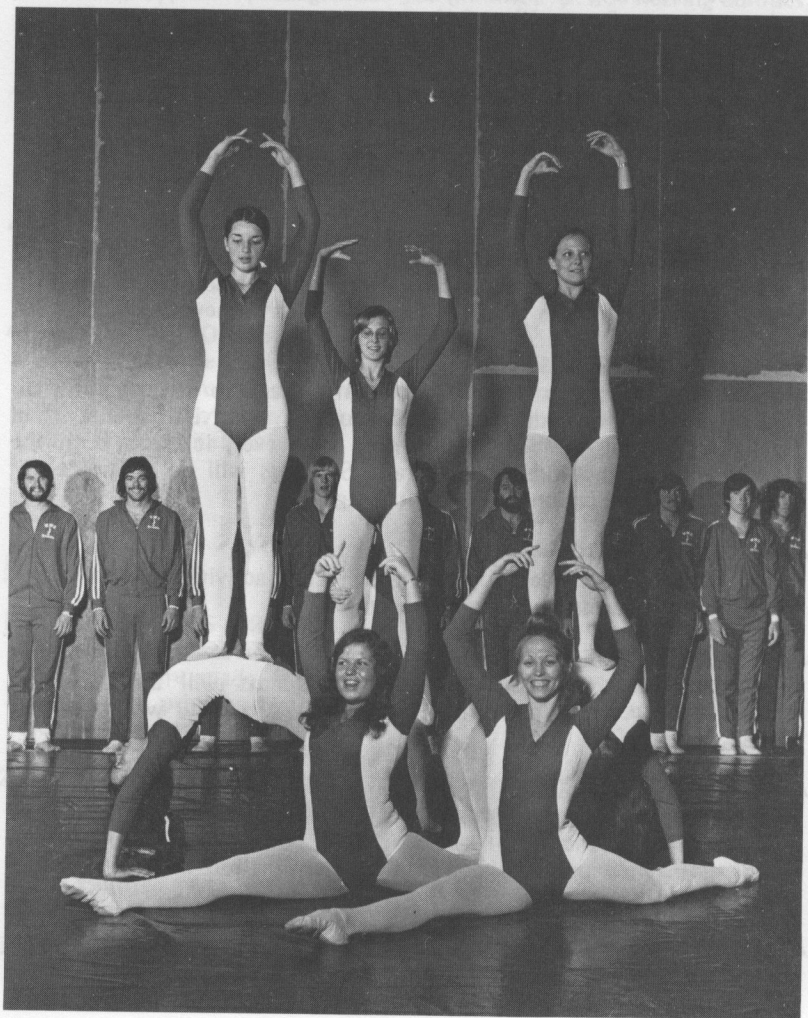
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research methods, and present a paper showing competence in and extent of his study. Open only to majors and minors. Instructor's approval required. One to three credits any quarter; maximum, three credits.

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.



EDUCATION AND PSYCHOLOGY

N. C. Sorensen, Chairman; Edna Grove, R. Hingley, Jeanne Lewis, N. Maberly, H. Ochs, H. Phillips, Jean Prest, V. Shafer, D. Wagner.

The department offers programs leading to a Bachelor of Science degree with a major in elementary education or psychology. 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.

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

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
Principal's

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 his chairman or designated adviser regarding specific requirements for the major he has chosen to pursue. Special attention should be given requirements within his major, minor or certification which present difficulties when pursued out of sequence.
- b. Schedule regular consultation with the department of education and psychology. This will facilitate the proper scheduling of professional education experiences.

The department of education and psychology publishes *Guidelines for Certification* which sets forth the current requirements for obtaining certification from the following agency and states: Seventh-day Adventist denomination, Alaska, California, Idaho, Montana, Oregon and Washington.

The elementary education major (45 hours) will normally qualify students for certification in the above-mentioned states. Specific differences may be accommodated with careful planning on the part of the student and his adviser.

Courses applying toward satisfying specific certification requirements require a grade of C or above.

Majors, minors and areas of concentration approved for provisional elementary certification appear below. For details regarding specific requirements, consult with the department chairman.

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Majors:

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

Minors:

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

*When the student contemplates the selection of any one of these minors, he should confer with the department of education for special programming.

**Teaching minor only (see appropriate department).

Areas of Concentration:

Biology	Mathematics
English	Music
Home Economics	Physical Education
Industrial Education and	Science
Technology	

Secondary certification will normally require a subject matter major plus the following education and psychology courses:

One course selected from:

Foundations of Education	Educ. 210
History of Education	Educ. 404
Systems of Thought	Educ. 493
*Philosophy of Education	Educ. 522
*Education in the Twentieth Century	Educ. 525
Sociology of Education	Soc. 431

One of the following courses:

Educational Psychology	Psych. 220
Psychology of Learning	Psych. 521

All of the following courses:

Educational Evaluation	Educ. 390
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*Available only to seniors with a grade-point average of at least 2.75.

EDUCATION AND PSYCHOLOGY

Directed Teaching—Secondary	Educ. 460
Microteaching Laboratory	Educ. 465
Adolescent Psychology	Psych. 440
Methods Course—as offered in either the major or minor area of study.	

SECONDARY METHODS COURSES

Secondary methods courses are listed under respective departments and are assigned 471-472 departmental numbers. Consult the appropriate department for further details.

BACHELOR OF SCIENCE DEGREE—MAJOR REQUIREMENTS:

Major: Elementary Education

In addition to the basic requirements for a Bachelor of Science degree as described on pages 54 and 55, a minimum of 45 hours from the department of education and psychology is required. The student should seek program approval from his departmental adviser. Courses must be selected as indicated from each of the following areas:

Foundations of Education	210	}	3
or			
Systems of Thought	493		
or		}	3
*Philosophy of Education	522		
or			
*Education in the Twentieth Century	525	}	3
Educational Psychology	Psych. 220		
or			
*Psychology of Learning	Psych. 521	}	3
Psychology of Exceptional Children	Psych. 431		
or			
Child Psychology	Psych. 435	}	3
Educational Evaluation	390		
Reading in the Elementary School	362		
Language Arts in the Elementary School	361	}	3
or			
Social Studies in the Elementary School	365		
Science in the Elementary School	369	}	3
or			
Mathematics in the Elementary School	373		
Microteaching Laboratory	465	}	12
Directed Teaching—Elementary	450		
Electives in education and/or psychology (as approved by department adviser)			9
			<hr/> 45

*Available only to seniors with a grade-point average of at least 2.75.

In addition to the above-listed professional education courses, the elementary major is required to pursue one of the following three options:

EDUCATION AND PSYCHOLOGY

- a. A second major from an approved content area
- b. An approved concentration with a minimum of 45 hours
- c. Two minors selected with departmental approval

See page 104 for listings of approved majors, concentrations and minors.

Elementary education majors must be prepared to take proficiency examinations as required by the College. For specific details, the student should consult with his adviser.

EDUCATION—MINOR REQUIREMENTS:

A minimum of 30 credits in professional education. Approval of the plan of study by the department of education and psychology is required. Usually included are those courses required for a provisional teaching certificate. However, completion of the minor does not necessarily satisfy certification requirements for all students.

EARLY CHILDHOOD EDUCATION

The Associate of Science degree with a concentration in early childhood education requires the completion of 96 credits. 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 other early education facilities.

ASSOCIATE OF SCIENCE DEGREE—REQUIREMENTS:

Concentration: Early Childhood Education

General Requirements:

College Writing	Eng. 101-102-103	9
Religion		8
Philosophy of Christian Education	Ed. 110	2
Fundamentals of Speech	Comm. 101-102	4
Physical Education (service courses)		2
Electives (from published bachelor's degree general requirements)		<u>8</u>
		33

Area Requirements:

Contemporary Health Issues	H&PE 110	2
General Psychology	Psych. 121, 122	4
General Sociology	Soc. 204, 205	6
Survey of Speech Pathology and Audiology	Comm. 210	3
Human Nutrition	HEC. 220	3
Laboratory Experiences in Preschool Education	Ed. 251	12
Early Childhood Education	Ed. 295	3
Social Psychology of Family Life	Soc. 311	2

EDUCATION AND PSYCHOLOGY

Parent Education for Preschool Teachers	Ed. 351	3
Library Materials for Children	Lib. 365	}
or		
Literature for Children and Adolescents	Eng. 412	3
Child Development	HEc. 382	3
Psychology of Exceptional Children	Psych. 431	3
Child Psychology	Psych. 435	3
Childhood Learning Disorders	Psych. 437	3
Electives (as approved by adviser)		<u>10</u>
		63

EDUCATION

- 105 INTRODUCTION TO TEACHING** 2
Designed to assist the individual who desires to explore teaching as a possible profession. Emphasis is upon providing the student with directed exposure to the educational process.
- 110 PHILOSOPHY OF CHRISTIAN EDUCATION** 2
A study of the ideals and principles of Christian education, especially as interpreted by the Seventh-day Adventist church.
- 150 TEACHER AIDE** 3
Designed to prepare the paraprofessional for classroom activities at either the elementary or secondary level.
- 210 FOUNDATIONS OF EDUCATION** 3
A study of social and philosophical foundations underlying the current organization and objectives of American education.
- 251 LABORATORY EXPERIENCES IN PRESCHOOL EDUCATION** 2; 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 credits each quarter; maximum 12 credits.
- 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.
- 305 Art ART IN THE ELEMENTARY SCHOOL** 3
See Department of Art.

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- 312 Music ELEMENTARY SCHOOL MUSIC LITERATURE** 2
See Department of Music.
- 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.
- 358 H&PE PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL** 3
See Department of Health, Physical Education and Recreation.
- 361 LANGUAGE ARTS IN THE ELEMENTARY SCHOOL** 3
Designed to prepare the student for teaching language arts in the elementary school. Includes objectives, planning, methods and materials necessary for instruction in spelling, creative writing, listening, speaking, manuscript and cursive writing.
- 362 READING IN THE ELEMENTARY SCHOOL** 3
An introduction to skills, methods and teaching aids used in the elementary school. Topics include readiness, board recognition, comprehension, study skills, reading rate and recent emphases and approaches to reading instruction.
- 365 SOCIAL STUDIES IN THE ELEMENTARY SCHOOL** 3
Examination and application of current media and practices used in teaching social sciences in the elementary school.
- 365 LS LIBRARY MATERIALS FOR CHILDREN** 3
See Library Science.
- 369 SCIENCE IN THE ELEMENTARY SCHOOL** 3
Procedures of teaching science in the elementary school. Emphasis on appropriate media and the development of the scientific attitude.
- 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.
- 390 EDUCATIONAL EVALUATION** 3
A practical introduction to principles and techniques of evaluating classroom activities in elementary and secondary schools.
- 400 TOPICS IN EDUCATION** 1-3; 6
The study of advanced topics through class activities. One to three credits per quarter; maximum, six credits.

EDUCATION AND PSYCHOLOGY

- 404 HISTORY OF EDUCATION** 3
A survey of the history of education.
- 412 Eng. LITERATURE FOR CHILDREN AND ADOLESCENTS** 3
See Department of English.
- 426 EDUCATIONAL GUIDANCE** 3
The philosophy, functions, organization, personnel and evaluation of the school guidance program.
- 431 H&PE ELEMENTARY SCHOOL HEALTH INSTRUCTION** 3
See Department of Health, Physical Education and Recreation.
- 431 Soc. SOCIOLOGY OF EDUCATION** 2
See Department of History, Political Science and Sociology.
- 439 IE&T INDUSTRIAL ARTS IN THE ELEMENTARY SCHOOL** 3
See Department of Industrial Education and Technology.
- 447 SCHOOL EXPLORATORY EXPERIENCE** 3
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—three to four weeks. (By permission, this may be applied toward the twelve-hour directed teaching requirements.)
- 450 DIRECTED TEACHING—Elementary** 12
Professional laboratory experiences for students preparing to teach on the elementary level. A weekly seminar will be conducted for students teaching in the Walla Walla area. 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. Prerequisites: 362, 465 and 365 or 369 or 373 or 361. Maximum: twelve credits.
- 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. Maximum: six credits.

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- 454 DIRECTED FIELD EXPERIENCE—**
Speech Pathology and Audiology 12
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. By permission of the Student Teaching Committee. Prerequisite: 465. Maximum: twelve credits.
- 460 DIRECTED TEACHING—Secondary** 12
Professional laboratory experience for students preparing to teach at the secondary school level. A weekly seminar will be conducted for students teaching in the Walla Walla area. 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. Prerequisite 465. Maximum: twelve credits.
- 461 METHODS OF AUDIOVISUAL EDUCATION** 2
A survey of the methods of instruction through the use of audiovisual aids.
- 462 INSTRUCTIONAL AIDS—PRODUCTION** 2
Experiences in the production of instructional aids.
- 465 MICROTEACHING LABORATORY** 3
Basic principles of instruction and fundamental teaching procedures which are applicable at any grade 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 on the appropriate teaching level.
- 474 WORKSHOP** 1-3; 6
Workshop in selected areas of educational concern. Designed for both experienced teachers and those preparing to enter the teaching profession. One to three credits; maximum, six credits.
- 477, 478, 479 INDEPENDENT STUDY IN EDUCATION** 1-3; 3
Directed study in an approved area. Permission from the chairman of the department and supervising instructor is required. One to three credits any quarter; maximum, three credits.
- 490 TEACHING HIGH SCHOOL READING** 3
Basic principles of reading instruction; methods, materials and organization of the developmental and corrective reading programs in high school.

EDUCATION AND PSYCHOLOGY

- 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.
- 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. (Ideally should precede or be taken concurrently with 522.)
- 495 EARLY CHILDHOOD EDUCATION** 3
A critical review of the experimental literature of the cultivation of intellectual abilities in the young child with implications for the curriculum in nursery school and kindergarten. Prerequisites: Psychology 220 and Psychology 435.
- 496 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.
- 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 credit; maximum, three credits.
- 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.
- 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.
- 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.
- 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.

EDUCATION AND PSYCHOLOGY

- 526 SCHOOL FINANCE** 3
A course designed for administrators, emphasizing origins and disbursement of school funds.
- 527 SCHOOL 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. Professional architects and engineers will be guest lecturers.
- 535 TEACHING OF REMEDIAL READING** 3
Diagnostic and remedial reading techniques, how to recognize reading difficulties and improve reading skills. Laboratory experience required.
- 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.
- 544 ADMINISTRATION OF THE ELEMENTARY SCHOOL** 3
Organization, supervision and administration of elementary schools.
- 550 SCHOOL LAW** 3
Utilizing the case study method, this course is designed to acquaint the student with the legal basis for public and parochial school operation in the United States.
- 551 ADMINISTRATION OF THE SECONDARY SCHOOL** 3
Problems and procedures in the organization and administration of secondary schools.
- 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.
- 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 a valid basis for evaluating existing or proposed activities; and to provide opportunity for intensive study of one activity.
- 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

EDUCATION AND PSYCHOLOGY

induction into school leadership. By permission of the department chairman.

561 METHODS OF RESEARCH 3

Procedures in the selection and evaluation of research projects and techniques in the analysis of research data.

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.

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 and requires written and/or oral reports and conferences with the staff. By permission of the department chairman. Maximum, four credits.

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 credits any quarter; maximum, six credits.

590 THESIS 8

PSYCHOLOGY

BACHELOR OF SCIENCE DEGREE—MAJOR REQUIREMENTS:

Major: Psychology

General Psychology	121, 122	4
Psychological Experiments	225	2
Systems and Theories in Psychology	230	3
Elementary Statistics	350	3
Experimental Problems	375	3
Psychological Testing	430	3
Child Psychology	435	3
or		
Adolescent Psychology	440	3
Social Psychology	444	
Child Psychology Laboratory	436	1
or		
Social Psychology Laboratory	445	3
Psychology of Personality	446	
Electives in psychology with advisement		24
		52

EDUCATION AND PSYCHOLOGY

Required Cognates:

Fundamentals of Mathematics	Math. 121, 122	8
General Biology	Bio. 101, 102, 103	12

PSYCHOLOGY—MINOR REQUIREMENTS

The psychology minor serves as a basis for further training for a variety of occupations including careers in school counseling, industrial guidance services and certain types of social work. It can be integrated, by advisement, with related areas of sociology and health for candidacy for certification as a school psychologist.

General Psychology	121, 122	4
Psychological Experiments	225	2
Systems and Theories in Psychology	230	3
Elementary Statistics	350	3
Psychological Testing	430	3
Child Psychology	435	3
or		
Adolescent Psychology	440	
Psychology of Personality	446	3
Electives with advisement		7
May include select courses in biology, sociology or other related fields to be chosen in counsel with the department chairman.		28

PSYCHOLOGY—PREPARATION FOR GRADUATE WORK:

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.

PSYCHOLOGY

Psychology 121, 122 is prerequisite to all other courses in Psychology.

121, 122 GENERAL PSYCHOLOGY 2, 2

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. Must be taken in sequence.

220 EDUCATIONAL PSYCHOLOGY 3

Application of psychological principles to the art of teaching.

EDUCATION AND PSYCHOLOGY

225 PSYCHOLOGICAL EXPERIMENTS 2

A laboratory course providing undergraduate students with elementary experience in designing and conducting experimental research in the field of psychology.

230 SYSTEMS AND THEORIES IN PSYCHOLOGY 3

Acquaints the student with the historical development of the various systems and theories in psychology.

350 ELEMENTARY STATISTICS 3

Descriptive techniques and other selected fundamental procedures for summarizing and interpreting data from tests and research in the various disciplines.

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: 350 or equivalent.

400 TOPICS IN PSYCHOLOGY 1-3; 6

The study of advanced topics through class activities. One to three credits per quarter; maximum, six credits.

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.

431 PSYCHOLOGY OF EXCEPTIONAL CHILDREN 3

Characteristics and problems of exceptional children with consideration of essential educational adaptation.

435 CHILD PSYCHOLOGY 3

Principles of growth as related to various phases of human development during the preadolescent years: physical, mental and emotional.

436 CHILD PSYCHOLOGY LABORATORY 1

Prerequisite or corequisite: 435.

437 CHILDHOOD LEARNING DISORDERS 3

An introduction to play therapy and psycho-educational 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: 435.

440 ADOLESCENT PSYCHOLOGY 3

Principles of growth as related to various phases of human development during the adolescent years—physical, mental and emotional.

EDUCATION AND PSYCHOLOGY

- 442 MOTIVATION** 3
A study of basic drives and causes of behavior in organisms with emphasis upon human behavior. This course includes a laboratory.
- 444 SOCIAL PSYCHOLOGY** 3
The dynamics of social interaction and interpersonal behavior with application to contemporary society.
- 445 SOCIAL PSYCHOLOGY LABORATORY** 1
Prerequisite: 444.
- 446 PSYCHOLOGY OF PERSONALITY** 3
Theories concerning personality development, assessment and adjustment will be considered.
- 449 MENTAL HEALTH** 3
Physiological and psychological factors related to emotional maturity. Individual mental health, classroom climate, patterns of acceptance and rejection.
- 474 WORKSHOP IN PSYCHOLOGY** 1-3; 6
A workshop designed to provide experiences in investigation and evaluation of contemporary problems and practices in psychology. One to three credits; maximum, six credits.
- 477, 478, 479 INDEPENDENT STUDY IN PSYCHOLOGY** 1-3; 3
Directed independent study in an approved area. Permission from the chairman of the department and supervising instructor is required. One to three credits any quarter; maximum, three credits.
- 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.
- 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: 350 or equivalent.
- 515 COUNSELING THEORIES AND TECHNIQUES** 3
A study and application of the theories and techniques for counseling. Professional relationships and ethics are considered.
- 518 GROUP COUNSELING** 2
Theories and techniques of counseling in group situations. Prerequisite: 515.

EDUCATION AND PSYCHOLOGY

521 PSYCHOLOGY OF LEARNING 3

The physiological and psychological bases for functional learning are discussed, and the experimental evidence supporting psychological hypotheses is reviewed.

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: 430 and permission of the instructor.

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: 532.

563 FIELD EXPERIENCE 3

Designed to provide a broad spectrum of experiences in actual field settings under supervised direction. Permission of the instructor required.

564 ABNORMAL PSYCHOLOGY 3

A study of behavioral disturbances, therapeutic measures and theories.

565 PRACTICUM IN COUNSELING 5

Professional experience in the counseling function. Prerequisites: 515, 534 and permission of the instructor.



ENGINEERING, SCHOOL OF

C. Bell, Chairman; F. Bennett, J. Cole, E. Cross, R. Heisler, G. Masden, O. McNiel, R. Noel, R. Sutton.

The College offers a curriculum leading to the degree of Bachelor of Science in Engineering, approved by the Engineers' Council for Professional Development. Its aim is to prepare students to enter the practice of professional engineering, and also to provide undergraduate instruction which will serve as an adequate foundation for graduate studies. Professional engineering is defined as the art and science of applying the principles of mathematics, science, economics, ethics and humanistic-social relationships to the problems of research, development, design and construction of devices, machines, structures and systems that will be of use to mankind.

The engineering course offerings are drawn from the fields of engineering science, civil engineering, electrical engineering and mechanical engineering. All engineering students 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 chairman of the department, the student may concentrate his efforts in the areas related to civil, electrical or mechanical engineering. Flexibility in this program may be obtained by limited substitutions, individually chosen in consultation with an adviser and departmentally approved, to form an integral engineering program. Should the student then wish to follow a specialized career in fields such as architectural engineering, aeronautical engineering, bio-engineering, electronics engineering, highway engineering, sanitary engineering or other such, he is prepared so to do through subsequent professional experience or graduate study.

Aside from the entrance requirements stated earlier in this bulletin, it is to be emphasized that entering freshmen should have a strong background in mathematics, physics and/or chemistry, history and English. Entrance deficiencies, if any, must be removed before the beginning of the sophomore year. On the other hand, advanced standing is permitted students who provide a transcript of successful studies at another approved college or university.

The North American Seventh-day Adventist colleges and universities are affiliated with Walla Walla College under a program that permits each to offer the first year or two years of engineering instruction, after which the student transfers to Walla Walla College to complete degree requirements. Each campus has an appointed engineering coordinator who will advise the student what program to follow in order to transfer without loss of time or credit, and without needing to make up any inordinate number of subjects.

Admission to engineering studies will be made only in September, except for certain advanced students. Satisfactory progress is contingent upon attendance for the full year and the maintenance of a C average

ENGINEERING

grade. Since there is no designated major or minor, the grade of D in any subject will be interpreted as follows: Such grade may 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 these conditions do not hold, the courses involved must be repeated.

In the senior year, the following non-course 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.

BACHELOR OF SCIENCE IN ENGINEERING DEGREE—REQUIREMENTS:

First Year		Second Year	
Religion	6	Religion	6
College Writing	9	Calculus	8
Precalculus/Calculus	13	Linear Algebra	3
General Chemistry	12	Introductory Physics	12
Engineering Core Courses	8	Engineering Core Courses	15
107-108, 109, 173		211, 212, 220, 228	
Physical Education	3	**Humanistic-Social Electives	9
	<u>51</u>		<u>53</u>
Third Year		Fourth Year	
Religion	3-6	Religion	2-3
Probability and Statistics	4	*Modern Physics	4
Ordinary Differential Equ.	4	Engineering Core Courses	10-14
Mathematics Elective	0-4	419-492-493, 414;	
Engineering Core Courses	18-23	324 and/or 325, and/or 326	
301, 302, 303;		†Engineering Electives	22-28
324 and/or 325, and/or 326		**Humanistic-Social Electives	2-6
†Engineering Electives	18-22		<u>48-50</u>
**Humanistic-Social Electives	0-3		
	<u>51-53</u>	GRAND TOTAL	205

Note that variations in credit hours result from choices of electives and areas of emphasis.

*Students desiring civil engineering careers may substitute Biology 101, 102, 103 with approval of adviser.

†Engineering elective sequences recommended for emphasis in:

Civil Engineering—

331; 335; 338; 352; 353; 368; 464, 465, 466; 467, 468, 469; 473.

Electrical Engineering—

322; 332; 355; 378, 379; 415; 421, 422, 423; 428; 431.

Mechanical Engineering—

327; 328; 332; 367, 368, 369; 431; 432; 449; 451; 452; 453; 456.

**Elective sequences in Humanistic-Social areas to be selected in conference with department chairman and/or assigned adviser. All students will include Educ. 110. Thereafter minimum requirements are 9 credits for civil emphasis, 12 credits for electrical and 16 credits for mechanical.

ENGINEERING

ENGINEERING CORE COURSES:

107-108, 109 INTRODUCTION TO ENGINEERING 2-2, 2

Engineering communications, with emphasis upon sketching, conventional engineering drafting practices, pictorial representation; principles of descriptive geometry; introduction to the design process and elements of professional engineering. AWS

211 STATICS 4

Two and three dimensional equilibrium employing vector algebra; friction; centroids and centers of gravity; moments of inertia. Corequisite: Mathematics 282. A

212 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: 211. Corequisite: Mathematics 283. W

218 COMPUTER SCIENCE I 2

An introduction to problem solving using the computer. Instruction emphasizes use of the BASIC language in a time-sharing interactive environment. Course covers computer characteristics, problem analysis, algorithm development, flow charting, coding, debugging and documentation. Prerequisite: Elementary concepts of algebra. A or W or S

220 COMPUTER SCIENCE II 2

A continuation of Computer Science I with emphasis on the FORTRAN language. Input-output and format statements, arrays, functions subroutines, algorithm development, debugging and documentation. Prerequisite: 218 or equivalent. A or S

228 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. Prerequisite: Mathematics 282; Physics 252. S

301 MECHANICS OF MATERIALS 5

Stresses, deformations and deflections of posts, shafts, beams, columns; combined stresses; elasticity; laboratory. Prerequisite: 211-212. A

312 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: 301. W

ENGINEERING

- 324 INSTRUMENTATION** 3
Theory and application of modern instrumentation. Validation of experimental data. Prerequisite: 228. A
- 325 FLUID MECHANICS** 4
Fluid statics; fluid dynamics; dimensional analysis; similitude; pipe flow; channel flow; impulse-momentum; measurements; applications. Prerequisite: 211, 212. A
- 326 ENGINEERING THERMODYNAMICS I** 4
Properties of gases and vapors; entropy; PV, TS, HS and HV planes; gas and vapor cycles; psychrometry; applications. Prerequisite: Physics 252; Mathematics 283. W
- 343 ENGINEERING ADMINISTRATION** 5
Business, economic and ethical aspects of engineering practice; contracts and specifications; professional engineer/public/owner/contractor relationships; elementary principles of engineering design, under individual or team organization. S
- 414 ENERGY CONVERSION I** 4
A study of transformers, three phase systems, characteristics of DC machines, induction motors, synchronous motors, single-phase motors; emphasis on performance, control and applications. Prerequisite: 228. W
- 491, 492, 493 SEMINAR I, II, III** 1, 1, 1
Design concepts and problems; team building; team design project from conception to model; optimization. Prerequisite: 301, 312, 343. AWS

ENGINEERING ELECTIVE COURSES:

- *226 COMPUTER SCIENCE III** 1
An extension of Computer Science II which either: (1) gives an in-depth programming experience through the development and documentation of a significant program; or (2) allows learning of selected fundamental concepts of programming on the assembly and machine language level. Prerequisite: 220; Permission of the instructor required. A or W
- 316 SURVEYING** 4
Use of basic surveying instruments, computational methods for traverses, routes and earthwork, mapping. Prerequisites: 107-108, 109. S

*Not offered 1974-75

ENGINEERING

- 322 CIRCUIT ANALYSIS II** 3
Network equations and theorems; Laplace transforms; impulse functions and convolution theorem; system functions and their frequency behavior. Prerequisite: 228. A
- 327 ENGINEERING THERMODYNAMICS II** 4
A continuation of 326, with applications to engineering processes and systems. Prerequisite: 326. S
- 331 HYDROLOGY** 3
Occurrence, measurement and storage of ground and surface waters; statistical models. Prerequisites: 335, 325, and Mathematics 311. W
- 332 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: 322 (or permission of instructor). Corequisite: Mathematics 312. W
- 335 SOIL MECHANICS** 3
Testing, classification and interpretation of soil tests; geology; fundamental principles of stress distribution and deformation characteristics of soils; flow of water through soils. Laboratory work required. Prerequisites: Chemistry 161-162-163; Corequisites: 301, 325. S
- 338 STRUCTURES I** 4
Graphical and algebraic analysis of determinate and indeterminate structures and their elements as applied to timber; basic design concepts of beams, girders, columns, trusses and connections. Prerequisites: 301, 312. S
- 352 THE ENVIRONMENT AND MAN** 3
Interdisciplinary consideration of current topics involving the interrelations between man and his environment. W
- 353 HYDROENVIRONMENTAL ENGINEERING I** 3
Analysis and design of water and wastewater handling and treatment systems. Physical, chemical and biological processes and their integration; water distribution; sewage and stormwater collection; receiving-water investigation. Prerequisites: 331, 352, 368 and Mathematics 312. S
- 355 DIGITAL LOGIC CIRCUITS** 3
Introduction to theory and application of digital logic circuits, logic functions; logic gates; flip-flops; counters; state machines; modern integrated logic families. S

**367, 368, 369 MECHANICAL ENGINEERING
LABORATORY I, II, III 1, 1, 1**

A laboratory to support and augment instruction in fluid mechanics, thermodynamics; fuels, lubricants, calorimetry; instrumentation; flow of compressible and incompressible fluids; elementary conductive heat transfer. Corequisite: 325, 326. AWS

378, 379 ENGINEERING ELECTRONICS I, II 5, 4

Characteristics and applications of solid-state electronic devices and circuits; terminal characteristics; large signal analysis; biasing; small signal analysis; low and high frequency models; AC and DC coupled; feedback amplifiers; oscillators. Laboratory work required. Must be taken in sequence. Prerequisite: 322. WS

415 ENERGY CONVERSION II 5

A continuation of 414 with particular emphasis on the fundamentals of electromechanical energy conversion and development of circuits and other models which allow analysis of the operation of electrical energy converting machines. Laboratory. Prerequisite 414. S

***421, 422, 423 ELECTROMAGNETIC FIELDS I, II, III 4, 3, 3**

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 line and wave-guides; dipole radiation. Must be taken in sequence. Prerequisites: Mathematics 312, Physics 253. AWS

***428 CIRCUIT ANALYSIS III 3**

Topics in linear and nonlinear network theory with emphasis on application. Prerequisites: 322, 355, 379, 414. S

431 SIGNALS AND SYSTEMS 4

Introduction to continuous and discrete signal and system analysis; Fourier series; convolution; Fourier transforms; discrete Fourier transforms; z-transforms. Prerequisites: 322, Mathematics 312. A

432 MECHANICAL DESIGN 3

Studies in design of mechanical systems and controls, particularly related to buildings and power generation. Prerequisites: 325, 326, 327, 367, 368, 369. W

449 HEAT TRANSFER 4

One and two dimensional steady-state and transient heat conduction; black body and gray body radiation; free and forced convection. Prerequisites: 325, 326, and Mathematics 312. A

*Not offered 1974-75

ENGINEERING

451-452-453 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. Prerequisites: 301, 312. AWS

*456 VIBRATIONS 4

Undamped and damped vibrations of single-degree-of-freedom systems; forced vibrations, transient response; many-degrees-of-freedom systems, normal modes. Prerequisites; 431. S

*464, 465, 466 HYDROENVIRONMENTAL ENGINEERING II, III, IV 4, 4, 4

A continuation of 353. Laboratory work required. AWS

467, 468, 469 STRUCTURES II, III, IV 5, 3, 4

Analysis and design of foundations (with laboratory autumn quarter); reinforced and prestressed concrete and steel determinate and indeterminate structures; industrial and multistory buildings, bridges, rigid frames, arches; elastic, plastic, limit and ultimate strength design procedures; general, matrix and introductory finite element analysis. Includes computation laboratory. Prerequisite: 363. AWS (Four credits; autumn, winter, spring; 1974-75 only)

473 TRANSPORTATION AND SYSTEMS 4

Use of soils and construction materials in the design of highways, waterway and airway terminals and railways; introduction to traffic engineering; analog computing concepts as applied to transportation and other civil engineering systems. Laboratory work. Prerequisites 335, 331, 465, 468. S

477, 478, 479 INDEPENDENT STUDY IN ENGINEERING 1-3; 3

Directed independent study in an approved area. The student will be required to read widely; follow regular research and/or design methods; present a paper and/or engineering design showing competence in arriving at an acceptable solution. For junior/senior engineering students only, by permission of the department chairman. One to three credits any quarter; maximum, three credits.

The following courses carry over from 1973-74 and will be taught only 1974-75, then deleted.

417, 418, 419 ENGINEERING ELECTRONICS II, III, IV 4, 2, 1

Continuation of 329; small-signal equivalent circuits, AC and DC coupled amplifiers, frequency response, RF amplifiers, band-pass ampli-

*Not offered 1974-75

ENGINEERING

fiers, broadband amplifiers; switching circuits, pulse and wave-shaping circuits; AM, FM and pulse modulation and demodulation systems. Laboratory work required. Must be taken in sequence. Prerequisite 329. AWS

434 SANITARY ENGINEERING PROCESS DESIGN 4

Analysis of water and wastes, with subsequent design of physical, chemical and biological treatment facilities for domestic and industrial use. Laboratory work required. Prerequisites: 352, 359, 367; Chemistry 161-162-163. A

435 SOIL MECHANICS AND FOUNDATIONS II 3

Advanced testing and analysis of soils; applications to analysis and design of foundations, substructures, highways. Laboratory work required. Prerequisites: 335, 338, 339. W



ENGLISH

Helen Evans, Chairman; Ruth Burgeson, R. Emmerson, L. French, D. Hepker, N. Moore, Carolyn Stevens, Bonnie Widicker, G. Wiss.

The primary objective of the department is to develop competence in the use of the English language and to inspire students with the best in the world's literature.

Major requirements for a Bachelor of Arts degree include the core curriculum and its cognates and one of the specialized areas and its cognates.

BACHELOR OF ARTS DEGREE—MAJOR REQUIREMENTS:

Major: English

Core Requirements:

American Literature	224, 225, 226	6
English Literature	244, 245, 246	6
Literary Analysis and Research	286	3
Modern English Grammars	371	3
Introduction to English Linguistics	425	} 3
or		
History of the English Language	426	
Seminar	491	3
Electives, upper-division literature		<u>22</u>
(Students choosing the secondary teaching area must include three hours of American literature.)		46

Required Cognate:

History of England	Hist. 377, 378, 379	6
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Specialized Areas:

In addition to the core requirements, the student must choose one of the following specialized areas:

Teaching in the Elementary School:

Literature for Children and Adolescents	412	3
Required Cognates:		
Methods of Teaching High School English	471	4
Writing courses beyond College Writing in English or Journalism		<u>6</u>
		13

Teaching in the Secondary School:

Literature for Children and Adolescents	412	3
Electives, upper-division literature		2
Required Cognates:		
Methods of Teaching High School English	471	4
Writing courses or Speech		<u>6</u>
(3 credits must be in writing)		15

ENGLISH

Graduate School and General Cultural Background:

Classical Backgrounds	361	3
Electives, upper-division literature		5
Required Cognates:		
Electives		6
(upper-division literature or writing courses beyond College Writing)		14

ENGLISH—MINOR REQUIREMENTS:

Minor: General

Emphasizes reading of literature to provide general cultural background and writing to develop creative and critical skills; will not qualify the student for teacher certification.

American Literature	224, 225, 226	} 6
or		
World Literature	251, 252, 253	} 6
English Literature	244, 245, 246	
Electives		15
(upper-division literature or writing courses beyond College Writing)		27

Minor: Teaching

Emphasizes the understanding and appreciation of literature and the methodology of teaching literature and writing; qualifies the student for teacher certification on the elementary or secondary level when professional requirements are met.

American Literature	224, 225, 226	6
English Literature	244, 245, 246	6
Modern English Grammars	371	3
Electives, upper-division literature		9
Literature for Children and Adolescents	412	3
Writing course beyond College Writing		3
		30

COMPOSITION

*99 ENGLISH COMPOSITION 3

An intensive one-quarter review of grammar and structure with weekly writing experience; designed for students who need review before taking 101. Meets three to five times per week, depending upon the student's background in English.

*See Transitional Curriculum listed under Nondepartmental.

ENGLISH

101-102-103 COLLEGE WRITING

3-3-3

Study and practice in the basic skills necessary for all college writing. In the first quarter, the basic modes of expository writing with emphasis on argument; in the second quarter, applied expository techniques with emphasis on analyses and reports; in the third quarter, research techniques and writing with emphasis on the term paper.

104-105 COLLEGE WRITING HONORS

3-3

An honors course designed for students who demonstrate superior ability in composition. Extensive reading and writing are required. Admission: superior score on qualifying tests set by the department. Students who complete 104 and 105 with a B or above will be granted three additional honors credits. Students who earn below a B in 104 will take 102 and 103. Students who earn below a B in 105 will take 103.

107, 108, 109 ENGLISH FOR THE FOREIGN STUDENT

3, 3, 3

A study of English grammar with extensive practice in written communication. Language laboratory (from three to six hours a week according to need) is required. When the student has reached a performance level adequate to enter College Writing 102, he may petition for a waiver of 101. Elective credit only.

280 ADVANCED WRITING

3

Additional work beyond College Writing in exposition as well as some narration; extensive reading for ideas and style. Prerequisite: 101-102-103 or 104-105.

286 LITERARY ANALYSIS AND RESEARCH

3

A composition course designed to prepare the literature student to write critical and research papers; emphasis on literary forms, analyses, bibliography sources and research methods. Prerequisite: 101-102-103 or equivalent.

371 MODERN ENGLISH GRAMMARS

3

The study of grammar and usage in current writing, with examination of traditional, structural and transformational points of view.

385, 386 CREATIVE WRITING

3, 3

Techniques of writing beyond those of mere correctness and clarity in creative forms; poetry (385), prose (386). Prerequisite: 101-102-103 or equivalent.

401 EXPOSITORY PROSE

2

Intensive work in analyzing and writing expository prose; emphasis on research methods, bibliography and idea development; designed to aid students in writing of research projects in their major fields. Prerequisite: 101-102-103 or equivalent.

LITERATURE**224, 225, 226 AMERICAN LITERATURE 2, 2, 2**

A chronological study of American literature with emphasis on major writers and movements from Puritanism to the present. Recommended it be taken in sequence.

244, 245, 246 ENGLISH LITERATURE 2, 2, 2

A chronological study of English literature with emphasis on the major writers and movements from Beowulf to the present. Recommended it be taken in sequence.

251, 252, 253 WORLD LITERATURE 2, 2, 2

A survey of representative literature from ancient Greece and Rome, England, France, Germany, Italy, the Orient, Russia, Scandinavia, Spain and the United States. Recommended it be taken in sequence.

Courses numbered 300 and above have as prerequisites the appropriate lower-division preparation. Registration only by permission of the department chairman.

350 DIRECTED READING 1-2; 3

A course designed for upper-division students who have completed a literature survey course and wish to continue broadening their knowledge of literature by extensive reading; admission only by departmental approval. Prerequisites: 224, 225, 226 or 244, 245, 246 or 251, 252, 253. One to two credits any quarter; maximum, three credits.

354, 355, 356 TWENTIETH CENTURY LITERATURE 2, 2, 2

Modern American and British literary achievements studied as a revelation of contemporary attitudes, ideals and conduct. Prerequisites: 224, 225, 226 and 244, 245, 246.

361 CLASSICAL BACKGROUNDS 3

A detailed study of selections from classical literature, including the works of Homer, Sophocles, Plato, Virgil, Horace, Dante, Petrarch and Boccaccio. Prerequisites: 224, 225, 226 or 244, 245, 246 or 251, 252, 253.

404, 405, 406 THE VICTORIAN PERIOD 3, 3, 3

An advanced study of the poetry and prose of the writers who molded and reflected characteristic opinion and ideals after the first third of the nineteenth century. Among the writers to be discussed are Tennyson, Newman, Mill and Dickens (autumn); the Brownings, Ruskin, the Rossettis and Thackeray (winter); and Matthew Arnold, Hopkins, George Eliot and Hardy (spring). Prerequisite: 244, 245, 246.

407, 408, 409 AMERICAN LITERARY MASTERS 3, 3, 3

An advanced study of selected American authors from the following

ENGLISH

literary periods: Romanticism (407), Realism (408), Naturalism and related early twentieth century movements (409). Prerequisite: 224, 225, 226.

412 LITERATURE FOR CHILDREN AND ADOLESCENTS 3

The philosophy of the selection and study of literature for kindergarten through grade twelve. Extensive reading of literature written for children and adolescents is required, with separate assignments for the elementary and the high school teacher.

421, 422, 423 THE ROMANTIC PERIOD 2, 2, 2

An analysis of the emergence of Romantic ideals and their manifestation in British literature beginning with the pre-Romantic movement to 1832. Emphasis the first quarter, Wordsworth and Coleridge; the second, Blake and Byron; the third, Shelley and Keats. Prerequisite: 244, 245, 246.

427, 428, 429 RESTORATION AND NEOCLASSIC LITERATURE 2, 2, 2

A study of the chief works of the important writers of the period, including Dryden, Swift, Defoe, Steele and Addison (autumn); Pope, Thomson and others (winter); and Johnson, Boswell, Goldsmith and others (spring). Prerequisite: 244, 245, 246.

441, 442, 443 OLD AND MIDDLE ENGLISH LITERATURE 2, 2, 2

An advanced study of English literature from the earliest remains to about 1500; Old English works studied in translation and Middle English, including Chaucer, largely in the originals. In the first quarter, Old English prose and poetry; in the second quarter, Chaucer; in the third quarter, medieval romance and drama. Prerequisite: 244, 245, 246.

453 AMERICAN LITERATURE BACKGROUNDS 3

A depth study of the ideologies and forms influencing and operating in the development of American literature; extensive work in both secondary and primary works to illuminate trends. Prerequisite: 224, 225, 226.

464, 465, 466 RENAISSANCE LITERATURE 3, 3, 3

A detailed study of the significant literature that reflects the essential temper of the Renaissance period. Autumn quarter includes early drama, the growth of lyricism, and the development of English prose; winter includes drama other than Shakespearean, the Cavalier and metaphysical poets, and the principal seventeenth-century prose writers; spring includes the work of Milton and Bunyan. Prerequisite: 244, 245, 246.

467 SHAKESPEARE 3

An intensive study of content and form in selected works of Shake-

speare, their relationship to their times, and their contribution to the development of drama and poetry in the Renaissance. Prerequisite: 244, 245, 246.

468 LITERATURE OF THE BIBLE 3

The study of both poetry and prose in the Old and New Testament, with a detailed analysis of the poem of Job. Prerequisite: 224, 225, 226 or 244, 245, 246 or 251, 252, 253.

491 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 the class members, group conferences and reports.

GENERAL

400 TOPICS IN ENGLISH 1-3; 6

The study of advanced topics through class activities. One to three credits per quarter; maximum, six credits.

425 INTRODUCTION TO ENGLISH LINGUISTICS 3

Detailed scientific analysis of the structure of Germanic and Romance languages, stressing those aspects of formative change which help to clarify current English usage.

426 HISTORY OF THE ENGLISH LANGUAGE 3

This course is designed to give the student a broad, comprehensive understanding of present-day English. It aims to present the historical development in such a way as to maintain a balance between the external and internal history of the language.

471 METHODS OF TEACHING HIGH SCHOOL ENGLISH 4

A study of objectives for and methods of teaching language, composition and literature in grades seven through twelve. Students prepare and present lessons in literature and composition, evaluate student-written themes, and collect and organize a file of teaching materials. Prerequisites: 371 and 412.

473 METHODS OF TEACHING MODERN GRAMMARS IN THE ELEMENTARY AND SECONDARY SCHOOLS 3

An intensive course integrating methodologies pertaining to the teaching of traditional, structural and transformational grammars. Prerequisite or corequisite: 371.

477, 478, 479 INDEPENDENT STUDY IN ENGLISH 1-3; 3

Directed study in either literature or language; a research-oriented approach presupposing considerable background; open only to majors and minors. One to three credits any quarter; maximum, three credits.

HEALTH, PHYSICAL EDUCATION AND RECREATION

E. Winter, Chairman; Lynda Lu Davis, G. Hamburgh, E. Schneider, J. Waterbrook.

The aim of the department is to promote those activities which stimulate habits of regular exercise and develop interests and skills which may be enjoyed throughout life.

GENERAL REQUIREMENTS OF ALL STUDENTS

All students are required to complete a total of 3 credits of physical education service courses offered in the department. This requirement should be met during the student's freshman and sophomore years.

BACHELOR OF SCIENCE DEGREE—MAJOR REQUIREMENTS:

Major: Physical Education

Core Requirements:

Introduction to PE	181	2
Professional Activities I	187, 188, 189	6
Officiating of Sports Activities	284, 285, 286	3
Intramural Activities	295	2
Professional Activities III	381, 382, 383	6
Foundations of PE	422	3
Administration of PE	451	3
Seminar	492, 493	2
		<hr/> 26

Concentration: Physical Education

Corrective and Adaptive PE	273	3
Professional Activities II	287, 288, 289	6
Kinesiology	351	4
Physiology of Exercise	363	4
Teaching Techniques of PE Activity	420	2
Tests and Measurements in PE	423	3
		<hr/> 20

Required Cognates:

Contemporary Health Issues	110	2
First Aid	283	2
Secondary School Health Instruction	432	3
Anatomy, Physiology	Bio. 202, 203	10
General Biology	Bio. 103	4
The above 14 hours will satisfy the general education science requirement.		
Introductory Chemistry I	Chem. 101-102-103	9
(Students presenting one unit secondary school chemistry with laboratory may be exempt from this requirement.)		
Human Nutrition	HEc. 220	3

A minor in health or biology is recommended.

HEALTH, PHYSICAL EDUCATION AND RECREATION

Concentration: Recreation and Outdoor Education

Aquatics	350	3
Arts and Crafts		6
To be selected from this and other departments in counsel with department chairman.		
Mountaineering	234-235	6
Practicum in Outdoor Education	272	
Camping, Survival and Wilderness Living	343	
Leadership in Camping and Outdoor Education	403	
Recreational Programs	342	3
Electives		2
		<hr/> 20

Required Cognates:

General Biology	Bio. 101, 102, 103	12
Ornithology	Bio. 403	8
General Entomology	Bio. 405	
Systematic Botany	Bio. 426	
Mammology	Bio. 444	
Astronomy	Phys. 241	6
Fine Arts (see p. 54)		
Adolescent Psychology	Psych. 440	6
Child Psychology	Psych. 435	
General Sociology	Soc. 204, 205	6
Fundamentals of Speech	Comm. 101-102	
Oral Interpretation	Comm. 211	
Play Direction	Comm. 365	

The above emphasis does not prepare the student for a teaching position. Should the student desire teaching certification, additional courses must be taken in counsel with the department chairman and as outlined in the publication, *Guidelines for Certification*.

A minor in biology, psychology or sociology is recommended.

PHYSICAL EDUCATION—MINOR REQUIREMENTS:

Introduction to PE	181	2-3
or		
Foundations of PE	422	
Professional Activities		12
Officiating of Sports Activities	284, 285, 286	3
Administration of PE	451	3
Electives in the elementary or secondary areas		7
(to be chosen in counsel with the department chairman)		<hr/> 27

HEALTH, PHYSICAL EDUCATION AND RECREATION

HEALTH

The courses in health are offered with the objective of preparing elementary and secondary school teachers, physical education instructors, health educators, nurses and social workers to cope competently with health problems in school and community and to teach health principles and practices effectively.

HEALTH—MINOR REQUIREMENTS:

Contemporary Health Issues	110	2
Community Health Education	266	3
Health Behavior Change (for those taking 437)	281	} 2
or		
School Safety	282	
First Aid	283	2
School Health Programs	351	3
Elementary School Health Instruction	431	} 3
or		
Secondary School Health Instruction	432	
or		
Field Training	437	
Electives		12
To be chosen in counsel with the department chairman.		27
Physiology	Bio. 203	
Human Nutrition	HEc. 220	
Marriage and Family Life	Soc. 230	
Social Welfare as a Social Institution	Soc. 321	
Child Psychology	Psych. 435	
Adolescent Psychology	Psych. 440	
Drugs and Society	H&PE 220	
Health Education in Church Programs	H&PE 352	
Physiology of Exercise	H&PE 363	
Independent Study	H&PE 477, 478, 479	

PHYSICAL EDUCATION

181 INTRODUCTION TO PHYSICAL EDUCATION 2

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.

187, 188, 189 PROFESSIONAL ACTIVITIES I 2, 2, 2

Methods, techniques and the skills involved in tumbling and gymnastics. Courses 187, 188 must be taken in sequence. The third quarter is Track and Field activities.

HEALTH, PHYSICAL EDUCATION AND RECREATION

- 230 WATER SAFETY INSTRUCTOR'S COURSE** 2
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: Life-saving.
- 232 SKI INSTRUCTOR'S COURSE** 2
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 ski classes and will also be eligible for employment as a ski instructor in succeeding years.
- 273 CORRECTIVE AND ADAPTIVE PHYSICAL EDUCATION** 3
A study of common abnormalities found in students which may be corrected or helped by proper exercise. Extent and limitations of the teacher's responsibility in this phase of education.
- 284, 285, 286 OFFICIATING OF SPORTS ACTIVITIES** 1, 1, 1
The basic science of officiating in a variety of activities covered in the service areas. Students will be required to act as officials in the intramural activities sponsored by the department.
- 287, 288, 289 PROFESSIONAL ACTIVITIES II** 2, 2, 2
Methods, techniques and the advanced skills involved in various activities of the physical education program. (Autumn: soccer—men and women, football—men, rhythmic activities—women; winter: basketball, recreational and low organizational games; spring: volleyball and softball.)
- 295 INTRAMURAL ACTIVITIES** 2
The mechanics of organizing the intramural activities in the school program.
- 351 KINESIOLOGY** 3
Study of joint and muscular mechanism action of muscles involved in fundamental movements. Effect of gravity and other forces on motion. Prerequisite: Biology 202, 203.
- 358 PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL** 3
This course deals with the planning of the curriculum in the elementary school and the organization of a balanced activities program. Participation in the elementary school physical education program is required.
- 363 PHYSIOLOGY OF EXERCISE** 4
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 per week. Prerequisite: Biology 202, 203.

HEALTH, PHYSICAL EDUCATION AND RECREATION

- 381, 382, 383 PROFESSIONAL ACTIVITIES III** 2, 2, 2
Methods, techniques and advanced skills involved in various activities of the physical education program. Autumn: aquatics; winter: badminton and archery; spring: tennis and golf. Prerequisite: student must demonstrate competency in activities to be presented.
- 400 TOPICS IN PHYSICAL EDUCATION** 1-3; 6
The study of advanced topics through class activities. One to three credits per quarter; maximum, six credits.
- 420 TEACHING TECHNIQUES OF PHYSICAL EDUCATION ACTIVITIES** 2
Techniques of conducting physical education classes in various activities. Laboratory experience in the intramural program as well as class situations will be required.
- 422 FOUNDATIONS OF PHYSICAL EDUCATION** 3
History and theory of physical education. A practical study of the reasons physical education should be included in the school program and the unique contribution it makes to education.
- 423 TESTS AND MEASUREMENTS IN PHYSICAL EDUCATION** 3
A study of various testing devices which may be used in physical education. Practical experience will be given by test administration and scoring.
- 440 COACHING OF TEAM GAMES** 2
A course to assist the prospective physical educator in managing team sports in physical education classes and intramural activities. Prerequisite: 287, 288, 289.
- 451 ADMINISTRATION OF PHYSICAL EDUCATION** 3
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.
- 472 METHODS OF TEACHING PHYSICAL EDUCATION** 3
A study of the methods and techniques of teaching physical education in both the elementary and secondary schools, indoors and outdoors, individual as well as group activities are stressed. The students are required to observe and demonstrate in classes pertinent to the level in which they plan to teach.

HEALTH, PHYSICAL EDUCATION AND RECREATION

477, 478, 479 INDEPENDENT STUDY IN HEALTH, PHYSICAL EDUCATION AND RECREATION 1-3; 3

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 showing competence in and extent of his study. Open only to majors and minors. Permission from the department chairman required. One to three credits any quarter; maximum, three credits.

492, 493 SEMINAR 1, 1

A study of the modern trends in physical education. Group discussion and presentation of current material in the field. Prerequisite: senior standing.

SERVICE COURSES IN PHYSICAL EDUCATION

A wide selection of activities is available for the student. Those unable to pass a basic swimming test will be encouraged to enroll in a swimming class in order to acquire this important skill. At least one quarter of gymnastics is strongly recommended.

201, 202, 203 INDIVIDUAL ACTIVITIES 1, 1, 1

Badminton, golf, horsemanship, tennis, skiing and a variety of other individual or dual activities.

204, 205, 206 TEAM SPORTS 1, 1, 1

Activities such as softball, basketball, flag football, soccer and volleyball.

207, 208, 209 WATER SPORTS 1, 1, 1

Activities from beginning swimming to advanced swimming, lifesaving, springboard diving and SCUBA diving. Students who register for SCUBA diving or who wish to participate in SCUBA diving must obtain a health certificate from the health center before participating in any of the activities.

211, 212, 213 TUMBLING, GYMNASTICS 1, 1, 1

Courses in tumbling, gymnastics, weight-lifting and body mechanics are available in this group.

HEALTH

110 CONTEMPORARY HEALTH ISSUES 2

A detailed study of current health issues and problems emphasizing modern preventive measures.

HEALTH, PHYSICAL EDUCATION AND RECREATION

- 220 DRUGS AND SOCIETY** 2
A study of the effects of drugs, including narcotics and alcohol, their relationship to social problems.
- 266 COMMUNITY HEALTH EDUCATION** 3
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.
- 281 HEALTH BEHAVIOR CHANGE** 2
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.
- 282 SCHOOL SAFETY** 2
Prevention of accidents found in various school situations with special emphasis on care of injuries associated with playground and gymnasium activities.
- 283 FIRST AID** 2
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.
- 351 SCHOOL HEALTH PROGRAM** 3
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.
- 352 HEALTH EDUCATION IN CHURCH PROGRAMS** 3
The planning, implementation and evaluation of church-sponsored health programs.
- 431 ELEMENTARY SCHOOL HEALTH INSTRUCTION** 3
Concepts of unit planning, methods, techniques, sources and evaluation of materials for use in elementary schools are studied. Students are required to read widely and collect material pertinent to the course.
- 432 SECONDARY SCHOOL HEALTH INSTRUCTION** 3
Concepts of unit planning, methods, techniques, sources and evaluation of instructional materials for secondary schools are studied. Students are required to read widely and collect material pertinent to the course.
- 437 FIELD TRAINING** 3
Supervised field experience in community and church health education. Prerequisite: 266 or 352.

HEALTH, PHYSICAL EDUCATION AND RECREATION

RECREATION AND OUTDOOR EDUCATION

234-235 MOUNTAINEERING AND WILDERNESS TRAVEL 1-1

A course for the individual interested in making the outdoor world his primary hobby. Basics in mountain climbing, survival and essentials of wilderness travel are covered. One class lecture per week and field trips will be arranged.

240 CERAMICS 2

This course is offered to help plan the leisure time activity of young people as well as to prepare for a hobby.

250 LAPIDARY 2

This course is offered to help plan the leisure time activity of young people as well as to prepare for a hobby.

272 PRACTICUM IN OUTDOOR EDUCATION 4

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.

342 RECREATIONAL PROGRAMS 3

A course intended to fill the need for leadership in planning a balanced recreational program in the church or community for all age groups.

343 CAMPING, SURVIVAL AND WILDERNESS LIVING 3

A course to help in the preparation of competent summer camp leaders. Two lectures per week and a four-day camping experience.

350 AQUATICS 3

A course to give an overview of the entire aquatics program. It will include such items as boating, sailing, canoeing, surfing, water-skiing, etc. Legislation concerning the use of our water resources for recreational purposes will also be included. One lecture per week—Sunday laboratory.

403 LEADERSHIP IN CAMPING AND OUTDOOR EDUCATION 2

A class for those interested in advanced work in this field. These students will act as laboratory instructors for those in course 343. Prerequisite: 343 and permission of instructor.

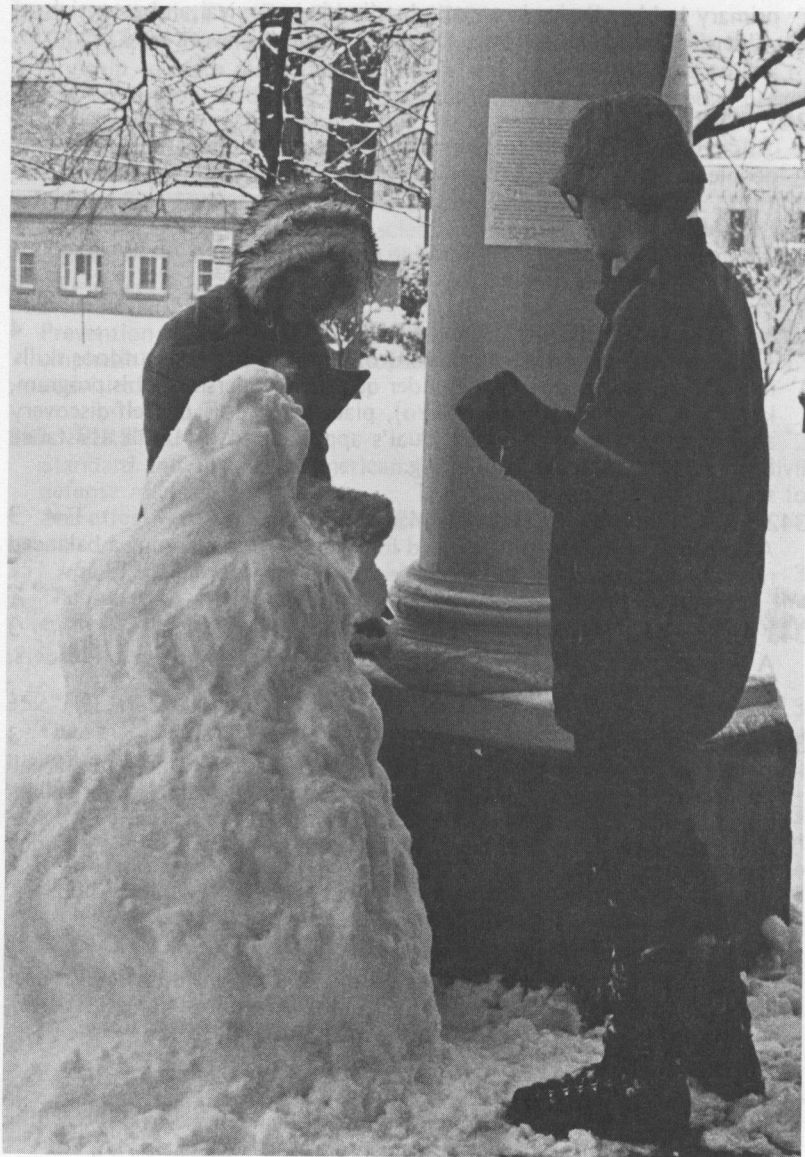
410 ADVANCED CERAMICS 2

An advanced course in ceramics with special emphasis on teaching methods, preparation of teaching aids, sources of material, cost, etc.

430 ADVANCED LAPIDARY

2

An advanced course in lapidary with special emphasis on teaching methods, preparation of teaching aids, sources of material, cost, etc.



HISTORY, POLITICAL SCIENCE AND SOCIOLOGY

R. Henderson, Chairman; R. Blach, R. Gardner, L. Glaim, D. Harris, Wilma Hepker, C. Schwantes.

The department offers majors in history, sociology and social welfare as well as minors in history, political science and sociology.

HISTORY

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 and of life; to train in skills of research and evaluation; to prepare students for teaching, graduate and professional schools, and government service.

BACHELOR OF ARTS DEGREE—MAJOR REQUIREMENTS:

Major: History

History of Western Civilization	101, 102, 103	9
History of the United States	201, 202, 203	9
Seminar	491-492	4
Electives		<u>32</u>
9 credits MUST be from the European area; and 9 credits from the American area; 9 credits MAY be selected from:		54
American Government	Pol. Sc. 203	
Comparative Governments	Pol. Sc. 303, 304	
State and Local Governments	Pol. Sc. 310	
Constitutional History	Pol. Sc. 401	
International Relations	Pol. Sc. 402	
American Diplomatic History	Pol. Sc. 414, 415, 416	
Western Political Thought	Pol. Sc. 424, 425	
American Political Thought	Pol. Sc. 426	
General Sociology	Soc. 204, 205	
Current Social Problems	Soc. 245	
Racial and Ethnic Relations	Soc. 254	
Cultural Anthropology	Soc. 263	
Population	Soc. 337	
Sociology of Communities	Soc. 351	
Criminology	Soc. 358	
Juvenile Delinquency	Soc. 359	
Principles of Economics	Bus. 221, 222, 223	
Economic History of the United States	Bus. 323	
Comparative Economic Systems	Bus. 422	
Economics of Foreign Trade	Bus. 423	
Development of Economic Thought	Bus. 427	

HISTORY—MINOR REQUIREMENTS:

History of Western Civilization	101, 102, 103	9
History of the United States	201, 202, 203	9
Electives (9 credits must be upper-division)		<u>12</u>
		30

HISTORY, POLITICAL SCIENCE AND SOCIOLOGY

HISTORY

101, 102, 103 HISTORY OF WESTERN CIVILIZATION 3, 3, 3

A survey of European history from antiquity emphasizing the period since the Renaissance.

201, 202, 203 HISTORY OF THE UNITED STATES 3, 3, 3

A survey of the colonial period, followed by a more detailed study of the national period.

EUROPEAN HISTORY

377, 378, 379 HISTORY OF ENGLAND 2, 2, 2

The development and expansion of the English nation from the earliest times to the present.

435, 436 HISTORY OF MODERN GERMANY 3, 3

A survey of German history since 1870. Diplomatic, political, socio-economic 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. Taught alternate years. Prerequisite: 101, 102, 103.

461 ANCIENT MEDITERRANEAN CIVILIZATIONS 3

A study of the major civilizations of antiquity to the decay of the Roman empire. Taught alternate years.

462 EARLY MIDDLE AGES 3

A survey of the religious, political, socioeconomic and intellectual developments in the European-Mediterranean world from the disintegration of the Roman empire to the 11th century. Taught alternate years.

463 THE LATE MIDDLE AGES 3

The general revival of the 11th century to the beginnings of the Italian Renaissance.

464 THE RENAISSANCE 3

The political, economic, intellectual and artistic transformation of Europe between the 14th and 16th centuries.

465 THE REFORMATION 3

Europe, 1500-1648. The era of the Protestant Reformation, Catholic reaction and reform, and religious wars.

467 THE CRUCIBLE OF REVOLUTION, 1789-1815 3

An examination of the French revolution and the Napoleonic imperium. Taught alternate years.

HISTORY, POLITICAL SCIENCE AND SOCIOLOGY

468 THE MODERN TRANSITION, 1815-1914 3

Europe against the backdrop of nineteenth century industrialization. Taught alternate years.

469 INTERWAR EUROPE, 1914-1945 3

Europe between the two world wars. Taught alternate years.

470 CONTEMPORARY EUROPE, 1945 TO THE PRESENT 3

Post-World War II political, economic and cultural developments.

474, 475, 476 HISTORY OF RUSSIA 3, 3, 3

Beginning with Kievan Russia, the course traces the emergence and expansion of the Muscovite state, Imperial Russia, social, intellectual and political developments leading up to the Russian Revolution, and the history of the Soviet Union to the present. Taught alternate years.

AMERICAN HISTORY

325 HISTORY OF CANADA 3

A survey of Canadian development from the beginnings of the French regime to the present. Taught alternate years.

387, 388, 389 HISTORY OF LATIN AMERICA 2, 2, 2

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. Taught alternate years.

424 THE AMERICAN FRONTIER 4

The exploration, settlement and development of the American west with consideration given to economic, social, cultural and political factors. Taught alternate years.

445 THE AMERICAN CIVIL WAR AND RECONSTRUCTION, 1850-1877 3

Development of the sectional crisis, war and its impact on American institutions, reconstruction and reunion. Taught alternate years. Prerequisite: 201, 202, 203.

446 HISTORY OF THE PACIFIC NORTHWEST 3

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. A study of the State Manual of Washington is included.

448 THE MAKING OF MODERN AMERICA SINCE 1877 3

A study of maturing America from 1877 to World War I. Special attention is given to the significance of industrialism, urbanization, the Progressive Movement. Prerequisite: 201, 202, 203.

HISTORY, POLITICAL SCIENCE AND SOCIOLOGY

449 RECENT AMERICA, 1919 TO THE PRESENT 3

A contemporary study with emphasis on the problems of prosperity, depression and the role of the United States in world affairs. Prerequisite: 201, 202, 203.

457, 458, 459 SOCIAL AND INTELLECTUAL HISTORY OF THE UNITED STATES 3, 3, 3

An analysis of the major social and intellectual trends in United States history, including Puritanism, the Enlightenment, Transcendentalism, Social Darwinism and Pragmatism. Prerequisite: 201, 202, 203.

GENERAL

358 WORLD GEOGRAPHY 3

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.

400 TOPICS IN HISTORY 1-3; 6

The study of advanced topics through class activities. One to three credits per quarter; maximum, six credits.

471 METHODS OF TEACHING SOCIAL SCIENCE 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, political science or sociology.

477, 478, 479 INDEPENDENT STUDY IN HISTORY 1-3; 3

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 showing competence in and extent of his study. Open only to majors and minors. Instructor's approval required. One to three credits any quarter; maximum, three credits.

491-492 SEMINAR 2-2

An orientation and research course in problems connected with historical materials and methods. Open to majors and minors.

POLITICAL SCIENCE

The objective of the courses in political science is 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.

HISTORY, POLITICAL SCIENCE AND SOCIOLOGY

POLITICAL SCIENCE—MINOR REQUIREMENTS:

American Government	203	3
Comparative Government	303, 304	6
Constitutional History	401	3
Electives		15
(3 credits must be in history; department chairman's approval required)		<hr/> 27

203 AMERICAN GOVERNMENT 3

Principles, organization and development of the American national government.

303, 304 COMPARATIVE GOVERNMENTS 3, 3

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.

310 STATE AND LOCAL GOVERNMENTS 3

Principles, organization and development of American state and local governments. Taught alternate years.

400 TOPICS IN POLITICAL SCIENCE 1-3; 6

The study of advanced topics through class activities. One to three credits per quarter; maximum, six credits.

401 CONSTITUTIONAL HISTORY 3

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.

402 INTERNATIONAL RELATIONS 3

Systematic analysis of the nature of international society, and of the motivating and conditioning factors which explain interaction among states and other international entities.

414, 415, 416 AMERICAN DIPLOMATIC HISTORY 2, 2, 2

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. Taught alternate years.

424, 425 WESTERN POLITICAL THOUGHT 3, 3

Political thought from classical Greece to the Renaissance and from the Enlightenment to the present. May apply in history as well as political science. Taught alternate years.

HISTORY, POLITICAL SCIENCE AND SOCIOLOGY

426 AMERICAN POLITICAL THOUGHT

3

The genesis and development of political thought in the United States. May apply in history as well as political science. Taught alternate years.

477, 478, 479 INDEPENDENT STUDY IN POLITICAL SCIENCE 1-3;3

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 showing competence in and extent of his study. Open only to minors. Instructor's approval required. One to three credits any quarter; maximum, three credits.

SOCIOLOGY

The objective of the study of sociology is to broaden 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 the group relationships of human beings. 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.

BACHELOR OF ARTS DEGREE—MAJOR REQUIREMENTS:

Major: Sociology

General Sociology	204, 205	6
Cultural Anthropology	263	3
Family in Society	310	2
Sociology of Communities	351	3
History of Sociological Thought	464	3
Sociological Theory	465	3
Methods of Social Research	466	3
Electives (10 must be upper-division)		22
13 credits MUST be chosen from the remaining sociology courses; 9 credits MAY be chosen from:		45

Principles of Economics	Bus. 221, 222, 223
Systems and Theories in Psychology	Psych. 230
Psychology of Exceptional Children	Psych. 431
Child Psychology	Psych. 435
Child Psychology Laboratory	Psych. 436
Childhood Learning Disorders	Psych. 437
Adolescent Psychology	Psych. 440
Motivation	Psych. 442
Psychology of Personality	Psych. 446
Mental Health	Psych. 449
The Making of Modern America	Hist. 448
Recent America, 1919 to the Present	Hist. 449
American Government	Pol. Sc. 403
Constitutional History	Pol. Sc. 401
Computer Science I	Engr. 218
Computer Science II	Engr. 220

HISTORY, POLITICAL SCIENCE AND SOCIOLOGY

Required Cognates:

Elementary Statistics	Psych. 350	3
Social Psychology	Psych. 444	3
Introduction to Philosophy	Rel. 421	2

SOCIOLOGY—MINOR REQUIREMENTS:

Introduction to Social Welfare	200	3
General Sociology	204, 205	6
Cultural Anthropology	263	3
Family in Society	310	2
Introduction to Philosophy	Rel. 421	2
Social Psychology	Psych. 444	3
Electives (3 credits must be upper-division)		<u>11</u>
		30

SOCIAL WELFARE

The major in social welfare is designed to prepare the student for positions in the fields of social welfare for which graduate education is not now required, to pursue graduate professional education in social work, and to use the major as preparation for other professions and services. Supervised field experience in selected social welfare agencies is an integral part of the program.

The student planning to go into the field of corrections, law enforcement and criminal justice is advised to select carefully the appropriate courses within the sociology or social welfare majors. Some financial aid may be available for those students who meet the requirements under the Law Enforcement Education Program (LEEP). Application for such aid must be presented to the student finance counselor at the beginning of the school year after the student has worked out his program of studies with his adviser in the department. At the student's request, the corrections emphasis will be indicated by a letter from the associate director of records accompanying the transcript.

BACHELOR OF SCIENCE DEGREE—MAJOR REQUIREMENTS:

Major: Social Welfare

Introduction to Social Welfare	200	3
General Sociology	204, 205	6
Cultural Anthropology	263	3
Family in Society	310	2
Social Welfare as a Social Institution	321	3
Sociology of Communities	351	3
Casework and Techniques in Interviewing	361	3
Counseling and Social Intervention	362	3
Field Work	370	6
History of Sociological Thought	464	3
Sociological Theory	465	3

HISTORY, POLITICAL SCIENCE AND SOCIOLOGY

Methods of Social Research	466	3
Electives (6 credits must be upper-division)		13
Principles of Economics	Bus. 221, 222, 223	54
Systems and Theories in Psychology	Psych. 230	
Psychology of Exceptional Children	Psych. 431	
Child Psychology	Psych. 435	
Child Psychology Laboratory	Psych. 436	
Childhood Learning Disorders	Psych. 437	
Adolescent Psychology	Psych. 440	
Motivation	Psych. 442	
Psychology of Personality	Psych. 446	
Mental Health	Psych. 449	
The Making of Modern America	Hist. 448	
Recent America, 1919 to the Present	Hist. 449	
Required Cognates:		
American Government	Pol. Sc. 203	3
Statistics	Psych. 350	3
Social Psychology	Psych. 444	3

SOCIOLOGY

- 204, 205 GENERAL SOCIOLOGY** 3, 3
 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. Must be taken in sequence.
- 230 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. Will not apply on a major or minor in history.
- 245 CURRENT SOCIAL PROBLEMS** 3
 The course deals with the dimensions of social problems as to role, status, stress, the ethical and intellectual implications of twentieth century material abundance with the consequent social pathologies and such problems as adolescence, courtship and family, present conditions of the underprivileged, race and community changes.
- 254 RACIAL AND ETHNIC RELATIONS** 3
 The history, present status and problems of racial, religious and ethnic minorities in the United States and other countries.
- 263 CULTURAL ANTHROPOLOGY** 3
 A study of the origin and nature of culture, the uniformities and varia-

HISTORY, POLITICAL SCIENCE AND SOCIOLOGY

tions in man's cultural development as seen in preliterate societies, with special emphasis upon the value of the cultural concept. Prerequisite: 204, 205.

310 THE FAMILY IN SOCIETY 2

A developmental approach to the study of the family. 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.

311 THE SOCIAL PSYCHOLOGY OF FAMILY LIFE 2

The social-psychological aspects of family life with special reference to the processes of family interaction in the development and maintenance of personal relationships.

337 POPULATION 2

Principles of demography and analysis of population problems. Prerequisite: 204, 205.

351 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.

400 TOPICS IN SOCIOLOGY 1-3; 6

The study of advanced topics through class activities. One to three credits per quarter; maximum, six credits.

431 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.

432 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. Prerequisite: 204, 205.

464 HISTORY OF SOCIOLOGICAL THOUGHT 3

History of sociological thought since earliest times including a study of early social writers and leading sociologists of the 19th and 20th centuries, including Comte, Malthus, Marx, Spencer, Durkheim, Weber and others.

465 SOCIOLOGICAL THEORY 3

A survey of modern theories with emphasis on theory construction in preparation for developing research designs.

HISTORY, POLITICAL SCIENCE AND SOCIOLOGY

466 METHODS OF SOCIAL RESEARCH

3

Application of sociological concepts and methodology to the investigation of social problems. Prerequisites: 204, 205; 465; Education 350; senior standing.

477, 478, 479 INDEPENDENT STUDY IN SOCIOLOGY

1-3; 3

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 showing competence in and extent of his study. Open only to majors and minors. Instructor's approval required. One to three credits any quarter; maximum, three credits.

SOCIAL WELFARE

200 INTRODUCTION TO SOCIAL WELFARE

3

The profession of social work in the United States; principles, methods and values of the social worker; settings for social work practice. Observations and field trips arranged.

321 SOCIAL WELFARE AS A SOCIAL INSTITUTION

3

Historical development of the current social welfare system, legal and political premises of social welfare, humanistic and democratic values of society and its implications for social welfare policy. Prerequisite: 200.

361 CASEWORK AND TECHNIQUES IN INTERVIEWING

3

An introductory course in the techniques of interviewing and in applying the knowledge of human behavior in helping clients to cope with the problems of social living. Case records from a variety of casework settings are used. (This course would be valuable to ministers, teachers, deans and doctors, as well as social workers.)

362 COUNSELING AND SOCIAL INTERVENTION

3

Various ways in which society may intervene in resolving undesirable social conditions and problems are analyzed. Theoretical foundations of intervention philosophy and processes are examined. Social group work, community organization, family counseling and crisis intervention are among the intervention techniques studied. (This course would be valuable to ministers, teachers, deans and doctors as well as social workers.)

370 FIELD WORK

2, 4, 6; 6

Training under a professional worker in a public or private welfare or correction agency. Credit is earned at the rate of one credit hour for three hours of field work per week approved by the supervisor and instructor. Written reports and evaluations are included. Prerequisites: 200; 204, 205; 321 and permission of the instructor. Corequisite: 361, 362. Only four credits may be applied to a sociology minor. Two, four or six credits; maximum, six credits.

HISTORY, POLITICAL SCIENCE AND SOCIOLOGY

447 SOCIOLOGY OF HEALTH AND ILLNESS 3

The study of social relations and culture as factors affecting health and illness, its prevention and treatment.

452 CHILD WELFARE 3

Historical and contemporary aspects of problems affecting children and the welfare services assigned to deal with these problems.

453 SOCIAL CONCEPTS OF GERONTOLOGY 3

Presentation of major concepts, findings and unresolved issues in the psychological and social determinants of aging. Such issues include similarities and differences among ethnic groups that can be identified in the patterns of aging; organization of social institutions in relation to the impact on these individuals.

CORRECTIONS, LAW ENFORCEMENT AND CRIMINAL JUSTICE

220 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.

358 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.

359 JUVENILE DELINQUENCY 2

A study of factors in delinquency, juvenile courts, detention and probation; an investigation and comparison of programs of treatment and prevention as well as the study of the role of volunteer service. Field trips arranged.

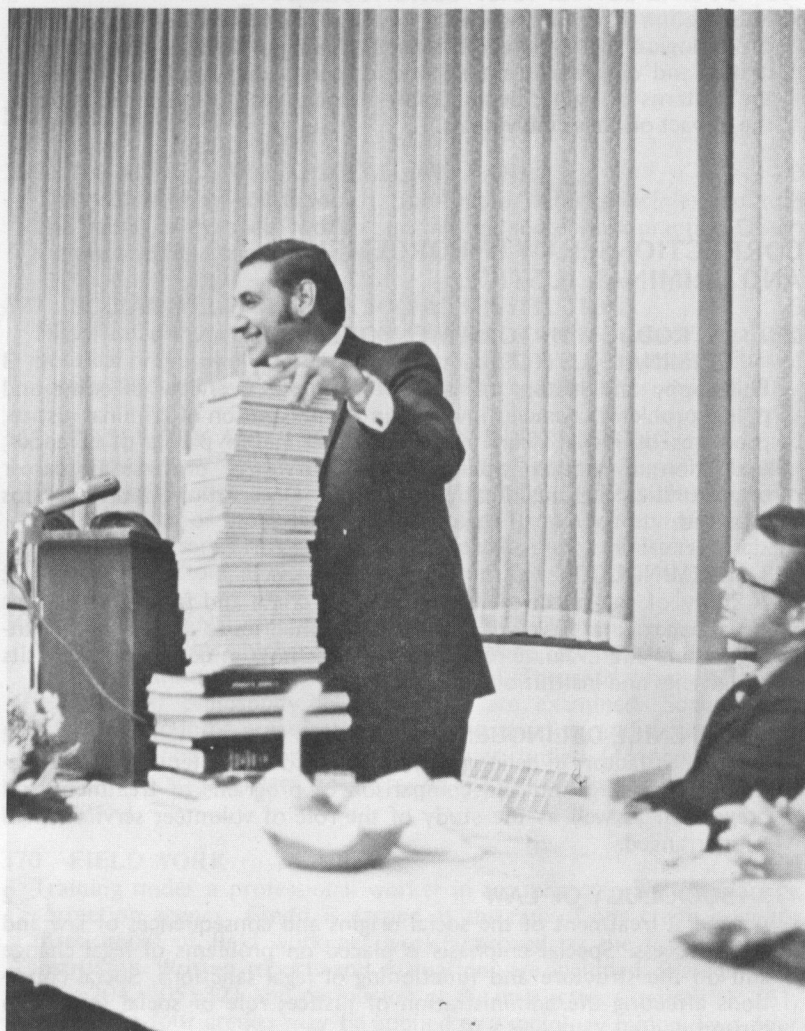
433 SOCIOLOGY OF LAW 2

A general treatment of the social origins and consequences of law and legal process. Special emphasis is placed on problems of legal change and on the structure and functioning of legal sanctions. Social conditions affecting the administration of justice; role of social science in jurisprudence.

**440 TREATMENT THEORIES AND PROGRAMS IN
CORRECTIONS**

3

This course includes an analysis of major treatment theories utilized by counseling and rehabilitation personnel in major penal institutions and in community-based correctional programs. Emphasis is given to the influences of the entire criminal justice system on theories of treatment, and preventive as well as rehabilitative programs. Both adult and juvenile treatment programs are considered.



HOME ECONOMICS

Evelynne Wright, Chairman; June Bishop, Jeanne Lewis, Mary Schwantes.

The major in home economics 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 is designed to prepare the student for health-science job opportunities, for graduate and professional schools.

BACHELOR OF ARTS DEGREE—MAJOR REQUIREMENTS:

Major: Home Economics

Introduction to Home Economics	100	2
Principles of Food Science	101, 102	6
Meal Management and Table Service	103	3
Social and Professional Ethics	210	2
Human Nutrition	220	3
Art in Everyday Living	222, 223	6
Clothing Selection and Construction	242, 243	6
Consumer Economics	301	4
Household Management	346	3
Child Development	382	3
Methods of Teaching Home Economics	471	3
Seminar	493	1
Electives, upper division		8
		<hr/> 50

Required Cognates:

Introductory Chemistry I	Chem. 101-102-103	9
(Students presenting one secondary unit of chemistry with laboratory may be exempt from this requirement.)		

HOME ECONOMICS—MINOR REQUIREMENTS:

(Choose one of the following areas of concentration)

Concentration: General

Introduction to Home Economics	100	2
Principles of Food Science	101, 102	6
Meal Management and Table Service	103	3
Human Nutrition	220	3
Art in Everyday Living	222	3
Clothing Selection and Construction	242	3
Consumer Economics	301	4
*Electives		6
		<hr/> 30

*To be chosen in counsel with department chairman.

HOME ECONOMICS SCIENCE AND SOCIOLOGY

Concentration: Foods and Nutrition

Principles of Food Science	101, 102	6
Meal Management and Table Service	103	3
Human Nutrition	220	3
Institution Food Preparation	286	3
Foods in Cultures of the World	412	3
Community Nutrition	437-438	3
*Electives		9
		<hr/> 30

Concentration: Interior Design

Art in Everyday Living	222, 223	6
Clothing Selection and Construction	242	3
Textiles	269	2
Consumer Economics	301	4
Interior Decoration	424, 425	6
*Electives		9
		<hr/> 30

*To be chosen in counsel with department chairman.

BACHELOR OF SCIENCE DEGREE—MAJOR REQUIREMENTS:

Major: Foods and Nutrition

Principles of Food Science	101, 102	6
Meal Management and Table Service	103	3
Household Equipment	201	3
Social and Professional Ethics	210	2
Human Nutrition	220	3
Institution Food Preparation	286	3
Consumer Economics	301	4
Child Development	382	3
Foods in Cultures of the World	412	3
Experimental Cookery	422	3
Community Nutrition	437-438	3
Advanced Nutrition	441-442	4
Diet in Disease	443	3
Institution Food Purchasing	447	3
Institution Management	448	3
Methods of Teaching Home Economics	471	3
Seminar	493	1
Electives		7
		<hr/> 60

Required Cognates:

Physiology	Bio. 203	5
Microbiology	Bio. 222	5

HOME ECONOMICS

Principles of Management	Bus. 163	4
General Chemistry	Chem. 161-162-163	12
Elementary Organic Chemistry	Chem. 321-322-323	12
Biochemistry	Chem. 406, 407	7

DIETETICS

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 credits are to be completed on the Walla Walla College campus. The remaining two years are to be completed in an undergraduate coordinated program approved by ADA.

DIETETIC TECHNICIAN WITH A CONCENTRATION IN NUTRITION CARE

The Associate of Science Degree with emphasis in nutrition care is designed to be completed in two years. The program 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 with a major in dietetics on the undergraduate coordinated program, or a major in foods and nutrition, credits earned in the two-year program may be applied toward the four-year program.

ASSOCIATE OF SCIENCE DEGREE—REQUIREMENTS:

Concentration: Nutrition Care

General Requirements:

College Writing	Eng. 101-102-103	9
Physical Education (service courses)		2
Religion		8

Area Requirements:

Principles of Food Science	101-102	6
Meal Management and Table Service	103	3
Orientation to Nutrition Care I	151	1
Orientation to Nutrition Care II	152	3
Nutrition Care Experience I	153	3
Human Nutrition	220	3
Nutrition Care Experience II	251	2
Nutrition Care Experience III	252	2
Nutrition Care Experience IV	253	2
Community Nutrition	437-438	3
Advanced Nutrition	441-442	4
Diet in Disease	443	3
Seminar	493	1

HOME ECONOMICS

Required Cognates:

Physiology	Bio. 203	5
Microbiology	Bio. 222	5
Principles of Management	Bus. 163	4
Economics	Bus. 221	3
Introductory Chemistry I	Chem. 101-102-103	9
General Psychology	Psych. 121-122	4
General Sociology	Soc. 204	3
Current Social Problems	Soc. 245	3
Fine Arts/Literature/Speech		8
		<hr/> 99

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. A

101, 102 PRINCIPLES OF FOOD SCIENCE 3, 3
Basic principles of food preparation, purchasing and selection, with emphasis on nutritional and economic values. Prerequisite: 101 or equivalent for 102. AW

103 MEAL MANAGEMENT AND TABLE SERVICE 3
Managerial aspects of planning, preparing and serving food for family meals and special occasions. Prerequisite: 101, 102 or equivalent. S

151 ORIENTATION TO NUTRITION CARE I 1
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. A

152 ORIENTATION TO NUTRITION CARE II 3
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. W

153 NUTRITION CARE EXPERIENCE I 3
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 audio-visual material in nutrition education situations. S

201 HOUSEHOLD EQUIPMENT 3
Selection, operation and care of household appliances, electricity in the home and kitchen planning. S

- 210 SOCIAL AND PROFESSIONAL ETHICS** 2
A course designed to develop an understanding of the current social code for both men and women and to provide experience in its application to college life, home and community living. Acceptable modes of interacting in social and professional situations are presented. W or S
- 220 HUMAN NUTRITION** 3
A study of the principles of nutrition and the diet essential for promoting a high degree of physical fitness. A valuable course for the general student, especially those preparing for the ministry, teaching or physical education. A W or S
- 222, 223 ART IN EVERYDAY LIVING** 3, 3
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. Must be taken in sequence. WS
- 230 Soc. MARRIAGE AND FAMILY LIFE** 2
See the Department of History, Political Science and Sociology.
- 241 CLOTHING FUNDAMENTALS** 3
A course presenting the fundamental processes of hand and machine sewing; construction and selection of simple garments. A
- 242, 243 CLOTHING SELECTION AND CONSTRUCTION** 3, 3
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 cotton, wool, rayon and other materials; consideration of fabrics to determine fundamental differences and to develop judgment in buying clothing; Prerequisite: 241 or equivalent. WS
- 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. A
- 252 NUTRITION CARE EXPERIENCE III** 2
Further experience in community nutrition education situations, such as: nutrition and weight control clinics, cooking classes, day-care centers. W
- 253 NUTRITION CARE EXPERIENCE IV** 2
Field and community experience in nutrition instruction of individuals and/or groups in institutional and home situations. S

HOME ECONOMICS

- 269 TEXTILES** 2
A study of fabrics to determine fundamental differences and to develop judgment in buying clothing and home-furnishing materials. S
- 286 INSTITUTION FOOD PREPARATION** 3
Instruction and laboratory experience in large quantity food preparation and food cost control. Check with instructor before registering for this class. W
- 301 CONSUMER ECONOMICS** 4
A study of the consumer in the current world, his responsibilities and protection. Field trips arranged. A
- 302 WEAVING AND HOME FURNISHINGS** 3
The study of the development of weaving, color harmonies and design as applied to fabrics. Construction of hand-woven materials; tailoring draperies, bedspreads and slip covers. Open to upper-division students only. W
- 346 HOUSEHOLD MANAGEMENT** 3
Fundamental concepts in the management of family resources, time, energy, income and the use of credit. A theory course supplemented with a practical problem in the community. W
- 382 CHILD DEVELOPMENT** 3
A study of the care and development of young children, with special reference to home education and nutrition. S
- 400 TOPICS IN HOME ECONOMICS** 1-3; 6
The study of advanced topics through class activities. One to three credits per quarter; maximum, six credits.
- 403 TEXTILE DESIGN** 3
Study of line, texture and color as applied to weaving. Emphasis on originality in construction and color combinations of hand-woven fabrics. Prerequisite: 302 or equivalent. S
- 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. A
- 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. Prerequisite: 101, 102, 103; and Chemistry 101-102-103 or 161-162-163 or equivalent. S

- 424, 425 INTERIOR DECORATION** 3, 3
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. AW
- 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 winter quarter. Prerequisite: 220 or permission of instructor. AW
- 441-442 ADVANCED NUTRITION** 2-2
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. Prerequisites: 101, 102, 103; 220 and Chemistry 101-102-103 or 161-162-163. WS
- 443 DIET IN DISEASE** 3
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. Prerequisites: 101, 102, 103; 220 or equivalent. S
- 447 INSTITUTION FOOD PURCHASING** 3
Marketing operations, buying procedures, food selection and care. Inspection of merchandise at markets and wholesalers. Check with instructor before registering for this course. A
- 448 INSTITUTION MANAGEMENT** 3
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: 286 or permission of instructor. S
- 461-462 TAILORING** 2-2
Principles involved in making suits and coats for women. Open only to those who show skill in construction of garments. Students should provide themselves with material for making coats the autumn quarter. Prerequisites: 241; 242, 243 or equivalent. AW
- 471 METHODS OF TEACHING HOME ECONOMICS** 3
The principles and practice of teaching home economics on the elementary and secondary levels, as well as adult education classes. Special

HOME ECONOMICS

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. A

477, 478, 479 INDEPENDENT STUDY IN HOME ECONOMICS 1-3; 3

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 showing competence in and extent of his study. Open only to majors and minors. Permission from the chairman of the department required. One to three credits any quarter; maximum, three credits.

486 ADVANCED INTERIOR DECORATION 3

Advanced study in interior decoration with advice, estimates and actual work on decorating problems. Should be taken the last quarter of the senior year. Prerequisite: 222, 223; 424, 425 or equivalent. S

493 SEMINAR 1

Studies of selected topics and reviews of current literature. Special investigation of problems. A or S



INDUSTRIAL EDUCATION AND TECHNOLOGY

C. Trautwein, Chairman; C. Blake, L. Canaday, D. Cowin, K. Gruesbeck, E. Liske.

The purpose of this department is twofold: to provide instruction and experiences for a college major and minor, with or without concentrations in fields of technology, and to prepare teachers of industrial arts. Specific courses are offered in the following areas:

Automotive	Industrial Crafts
Biomedical Electronics	Maintenance
Depictics	Metals
Electronics	Woods
Graphics	

Departmental permission must be received to enter any class having a laboratory. Each class meets at least once before its associated laboratory.

An Associate of Science degree may be earned with a concentration as shown in B 1, 3, 4 or 5. General requirements are listed on page 166. No minor is required.

A certificate may be earned with a concentration as shown in B 1, 3, 4 or 5. General requirements are listed on page 167. No minor is required.

BACHELOR OF SCIENCE DEGREE—MAJOR REQUIREMENTS:

The major for a Bachelor of Science degree may be earned as shown in A, B 1, 2, 3, 4 or 5, or C. A minor is to be selected from those listed in this bulletin on page 51. General requirements are found on pages 54-55. Concentration A is arranged to afford certification if provisional secondary certification requirements are met as outlined in the publication, *Guidelines for Certification*.

A. INDUSTRIAL ARTS TEACHER EDUCATION:

The course requirements listed below offer an opportunity for individual choices. Consult the department chairman for assistance in planning the program.

Technical Drawing	104, 105	6
Architectural Drawing	203	} 3
or		
Electrical and Electronic Drawing	209	
Analysis of Industry	107	1
Lettering	123	2
Wood Products and Processes	221-222-223	6

INDUSTRIAL EDUCATION AND TECHNOLOGY

Machine Tool Practice I	244, 245-246	}	6
or Welding	204, 205, 206		
Survey of Electronics	231-232	}	6
or Introduction to Graphic Arts	144, 145-146		
Industrial Crafts, electives	113; 247; 248; 249; 262	}	6
or Fundamentals of Automotive Technology	101, 102, 103		
Industrial Arts Design	264		3
Course Construction	387		3
Shop Administration and Planning	389		3
History and Philosophy of Industrial Education	447		3
Independent Study (in supervision)	477, 478 or 479		2
Senior Problem	488		1
Electives, upper division			<u>12</u>
Approval of department chairman required.			63

B. TECHNICS:

Completion of one of the following programs leads to a Bachelor of Science degree, an Associate of Science degree or a Certificate, except the Biomedical Electronics Technology program which leads only toward the Bachelor of Science degree.

1. Automotive Technology

Fundamentals of Automotive Technology	101, 102, 103	6
Analysis of Industry	107	1
Survey of Electronics	231-232	6
Small Gasoline Engines	236	2
Automatic Transmissions	301	3
Engine Repair and Maintenance	302	3
Engine Diagnosis and Tune-up	303	3
Automotive Service	314, 315	6
Air Conditioning	356	2
Shop Administration and Planning	389	3
Oil Hydraulics	399	3
Senior Problem	488	1
Electives chosen from:		<u>24</u>
Technical Drawing	104	63
Lettering	123	
Welding	204, 205, 206	
Machine Tool Practice I	244, 245-246	
Plastics	248	
Machine and Tool Maintenance	330	
Finishing Materials and Methods	345	
Industrial Materials	366	
Machine Tool Practice II	381, 382, 383	
Independent Study	477, 478, 479	
Industrial Practicum	484, 485, 486	

INDUSTRIAL EDUCATION AND TECHNOLOGY

For a Bachelor of Science degree, recommended minors may be chosen from:

Business
Chemistry
Economics
Mathematics
Physics
Speech

2. Biomedical Electronics Technology

Survey of Industrial Operations	241-242	4
Fundamentals of Electronics	271, 272, 273	12
Applied Electronics	291	4
Hospital Safety	311	2
Medical Electronics	331, 332, 333	9
Air Conditioning	356	2
Industrial Electronics	371, 372	8
TV Systems and Circuit Analysis	411, 412, 413	9
Directed Hospital Experience	432, 433	30
Applied Digital and Analog Systems	469	4
		<u>84</u>

Required Cognates:

*General Biology	Bio. 101, 102, 103	} 10-12
or		
*Anatomy, Physiology	Bio. 202, 203	} 8
*Fundamentals of Mathematics I and II	Math. 121, 122	
*General Physics	Phys. 211, 212, 213	9
*General Physics Laboratory	Phys. 214, 215, 216	3
Radioisotope Research Techniques	Phys. 352, 353	4
Computer Science I	Engr. 218	2
Digital Logic Circuits	Engr. 355	3
Animal Physiology	Bio. 393	} 4
or		
Biophysics	Bio. 470	} 6-8
Electives (chosen in counsel with department adviser)		

*Meets basic science requirement.

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No minor is required for a Bachelor of Science degree.

3. Electronics Technology

Technical Drawing	104	3
Analysis of Industry	107	1
Electrical and Electronic Drawing	209	3
Fundamentals of Electronics	271, 272, 273	12
Applied Electronics	291	4

INDUSTRIAL EDUCATION AND TECHNOLOGY

Broadcast Engineering Emphasis:

Radio Communications	352, 353	8
Broadcast Techniques and Announcing	Comm. 231	3
Survey of Broadcasting	Comm. 352	3

Industrial Electronics Emphasis:

Industrial Electronics	371, 372	8
Digital Logic Circuits	Engr. 355	3
Applied Digital and Analog Systems	469	4
TV Systems and Circuit Analysis	411, 412, 413	9
Industrial Practicum	484, 485, 486	2
Senior Problem	488	1
Electives chosen from:		13-14

(including 2 upper-division if Broadcast Engineering emphasis)		63
Fundamentals of Mathematics	Math. 121, 122	
Analytical Geometry and Calculus I	Math. 181	
General Physics	Phys. 211, 212, 213	
General Physics Laboratory	Phys. 214, 215, 216	
Computer Science I	Engr. 218	
Computer Science II	Engr. 220	
Digital Logic Circuits	Engr. 355	
Broadcast Techniques and Announcing	Comm. 231	
Machine and Tool Maintenance	330	
Radio Communications	352, 353	
Industrial Electronics	371, 372	
Shop Administration and Planning	389	
Oil Hydraulics	399	
Applied Digital and Analog Systems	469	
Independent Study	477, 478, 479	
or		
Industrial Practicum	484, 485, 486	

For a Bachelor of Science degree, recommended minors may be chosen from:

Business
Chemistry
Economics
Journalism
Mathematics
Physics
Speech

4. Graphics Technology

Analysis of Industry	107	1
Introduction to Graphic Arts	144, 145-146	6
Principles of Photography	161	2
Offset Lithography	237-238-239	9
Linotype Composition	284-285-286	6
Printing Layout and Design	298	3
Printing Management	305	3

INDUSTRIAL EDUCATION AND TECHNOLOGY

Advanced Letterpress Printing	321-322	6
Applied Photography	362	3
Shop Administration and Planning	389	3
Advanced Lithography	415-416	6
Senior Problem	488	1
Electives chosen from:		14
(including 2 upper-division)		<hr/> 63
Technical Drawing	104	
Bookbinding	113	
Lettering	123	
Survey of Electronics	231-232	
Survey of Industrial Operations	241-242	
Machine Tool Practice I	244, 245-246	
Plastics	248	
Silk Screen Printing	262	
Industrial Arts Design	264	
Machine and Tool Maintenance	330	
Industrial Materials	366	
Press Photography	370	
Independent Study	477, 478, 479	
or		
Industrial Practicum	484, 485, 486	

For a Bachelor of Science degree, recommended minors may be chosen from:

Business
Chemistry
English
Journalism
Mathematics

5. Maintenance Technology

Technical Drawing	104	3
Analysis of Industry	107	1
Welding	204, 205	4
Electrical and Electronic Drawing	209	3
Applied Maintenance	210	6
Wood Products and Processes	221-222-223	6
Survey of Electronics	231-232	6
Machine Tool Practice I	244, 245-246	6
Machine and Tool Maintenance	330	2
Finishing Materials and Methods	345	3
Shop Administration and Planning	389	3
Oil Hydraulics	399	3
Senior Problem	488	1
Electives chosen from:		16
(including 13 upper-division)		<hr/> 63
Fundamentals of Automotive Technology	101, 102, 103	
Technical Drawing	105	
Lettering	123	
Principles of Photography	161	
Architectural Drawing	203	

INDUSTRIAL EDUCATION AND TECHNOLOGY

Welding	206
Small Gasoline Engines	236
Art Metals	247
Plastics	248
Industrial Arts Design	264
Applied Electronics	291
Furniture Design and Construction	341-342-343
Applied Photography	362
Air Conditioning	356
Industrial Materials	366
Machine Tool Practice II	381, 382, 383
Industrial Practicum	484, 485, 486
Other upper-division courses with department approval.	

For a Bachelor of Science degree, recommended minors may be chosen from:

- Business
- Chemistry
- Mathematics
- Physics

C. GENERAL:

This program offers considerable latitude in selection of courses. A minimum of 63 credits is required (24 of which must be upper-division) and must include the following:

Technical Drawing	104, 105	6
Analysis of Industry	107	1
Senior Problem	488	1

ASSOCIATE OF SCIENCE DEGREE—REQUIREMENTS:

The concentration for an Associate of Science degree may be chosen from the same areas as the Bachelor of Science degree under Section B: Automotive, Electronics, Graphics or Maintenance. No minor is required.

In addition, the following courses must be completed:

General Requirements:

College Writing	Eng. 101-102-103	9
Religion		8
Physical Education (service courses)		2
Personal Finance	Bus. 131	2

Required Cognates:

Fundamentals of Science	Comm. 101-102	4
Survey of Mathematics	Math. 111, 112	8

CERTIFICATE PROGRAM—REQUIREMENTS:

A certificate candidate follows a chosen technical program as shown under Section B: Automotive, Electronics, Graphics or Maintenance, except that an approved elective is taken in place of Senior Problem,

INDUSTRIAL EDUCATION AND TECHNOLOGY

general graduation requirements are waived, and the following substituted:

Bible Survey	Theo. 101, 102, 103	} 6
Life and Teachings of Jesus	Theo. 104, 105, 106	
Fundamentals of Christian Belief	Theo. 201, 202, 203	
College Writing	Eng. 101	3
Fundamentals of Speech	Comm. 101	} 2
or		
Business Communications	Of. Adm. 351	

A total of 74 credits, including 63 credits from one option and the 11 credits shown above with a cumulative grade-point average of 1.3 is required. Only one certificate program may be followed at a given time. Certificate candidates are admitted with one of the following: high school or academy diploma or equivalent, or 18 years of age. One hundred and fifty clock hours of related work for each quarter of attendance after the first three quarters with a minimum of 450 hours must be completed before the certificate is awarded. A fascimile copy of the certificate will be provided to aid the student in securing employment. Consult the instructor in charge of the chosen area to work out a specific program involving the necessary electives.

Students entering this program without a high school diploma, who wish to transfer to a two- or four-year curriculum, must complete secondary school including entrance requirements for the program selected.

INDUSTRIAL EDUCATION AND TECHNOLOGY— MINOR REQUIREMENTS:

Minor: General

Students not planning to teach must complete a minimum of 30 credits including six upper-division credits. Depictics 104 and a choice of 105, 203 or 209 is required except when 17 credits of graphic arts are included.

Minor: Industrial Arts Teacher Education

For students planning to teach Industrial Arts, the requirements are as follows:

Technical Drawing	104, 105	6
Analysis of Industry	107	1
Wood Products and Processes	221-222-223	6
One basic "skills" course with laboratory		6
Course Construction	387	3
Shop Administration and Planning	389	3
Industrial Arts in the Elementary School (for elementary certification)	439	} 3
or		
Methods of Teaching Industrial Arts (for secondary certification)	472	
Independent Study	477, 478, 479	1
Elective		1
		30

INDUSTRIAL EDUCATION AND TECHNOLOGY

PROFESSIONAL

107 ANALYSIS OF INDUSTRY 1

A study of organization in industry, union-management relationships, vocational and industrial arts teaching patterns, the place of the Seventh-day Adventist in industry. Limited field trips will be included to both industry and schools.

264 INDUSTRIAL ARTS DESIGN 3

Basic principles of design as applied to the various industrial arts, including theory of color and study of major periods and styles of furniture.

387 COURSE CONSTRUCTION 3

The course deals with objectives, analysis and selection of content, course of study outline, lesson plans, standards of attainment. Required prior to directed teaching.

389 SHOP ADMINISTRATION AND PLANNING 3

Shop planning, supplies, personnel organization and guidance, and shop management. Recommended prior to directed teaching.

400 TOPICS IN INDUSTRIAL EDUCATION AND TECHNOLOGY 1-3; 6

The study of advanced topics through class activities. One to three credits per quarter; maximum, six credits.

439 INDUSTRIAL ARTS IN THE ELEMENTARY SCHOOL 3

A cross-sectional approach for teachers of elementary grades, to those industrial arts offerings that are most likely to occur, including operations involving art metals, leathers, plastics, simple graphics, elementary photography, beginning electronics and special woodwork. Taught alternate years.

447 HISTORY AND PHILOSOPHY OF INDUSTRIAL EDUCATION 3

Origin and growth of industrial education, emphasizing aims and objectives in the field of education.

472 METHODS OF TEACHING INDUSTRIAL ARTS 3

Methods and techniques in selection, presentation and testing content material in industrial subjects. Observation, demonstration and class presentation are required of the students as a part of this course. Required prior to directed teaching.

477, 478, 479 INDEPENDENT STUDY IN INDUSTRIAL EDUCATION AND TECHNOLOGY 1-6

Supervisory experience for prospective teachers or research problems for technologists and/or prospective teachers. Area to be selected in

INDUSTRIAL EDUCATION AND TECHNOLOGY

counsel with department chairman. Prerequisite: lower-division work in same area. Six credits maximum from this and/or Industrial Practicum.

AUTOMOTIVE

101, 102, 103 FUNDAMENTALS OF AUTOMOTIVE TECHNOLOGY

2, 2, 2

A study of the automobile with emphasis on construction details and service procedures. Live engines and dry units are used in the laboratory. Autumn: engine units; winter: fuel and electrical system units; spring: power train and chassis units. One lecture and one laboratory per week.

236 SMALL GASOLINE ENGINES

2

A study of construction details and operation of small two- and four-stroke cycle engines. Live engines are used to study mechanical features and service of fuel, lubrication, ignition and cooling systems. Typical engines used are Briggs-Stratton, Jacobsen, Wisconsin, etc. One class and one laboratory per week.

301 AUTOMATIC TRANSMISSIONS

3

Instruction in the operation of planetary gears, fluid drives and hydraulic controls as used in automatic transmissions. Dry units will be used in the laboratory to learn disassembly, reassembly and adjustments to typical automatic transmissions. Two lectures and one laboratory per week. Prerequisite: 103 or equivalent.

302 ENGINE REPAIR AND MAINTENANCE

3

A study of engine rebuilding operations through disassembly and reassembly. Machining operations such as cylinder reconditioning, valve train servicing, lubrication system servicing and cooling system servicing will be covered. Engine designs and valve timing will also be considered. Two lectures and one laboratory per week. Prerequisite: 101 or equivalent.

303 ENGINE DIAGNOSIS AND TUNE-UP

3

Instruction in engine tune-up and diagnosis using meters and the oscilloscope. Compression tests, battery testing, electrical system testing and fuel system checking will be emphasized using Sun and Allen test equipment. Two lectures and one laboratory per week. Prerequisites: knowledge of basic science and electricity and 101, 102 or equivalent.

314, 315 AUTOMOTIVE SERVICE

3, 3

Instruction in service operations as performed in service stations and repair garages. The automotive chassis including the power train, brake systems, suspension and wheel alignment, and general services are included. Two lectures and one laboratory per week.

INDUSTRIAL EDUCATION AND TECHNOLOGY

356 AIR CONDITIONING

2

Instruction in the principles of refrigeration and requirements of air conditioning for body comfort. The operation and servicing of the compressor, condenser, expansion valve, evaporator and system controls will be emphasized. System purging, evacuation and refrigerant replacement will be covered.

DEPICTICS

104, 105 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.

203 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 two three-hour laboratories per week.

209 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 three two-hour laboratories per week. Prerequisite: 104 or equivalent; and 231 or 271 recommended.

ELECTRONICS

231-232 SURVEY OF ELECTRONICS

3-3

An introduction to electricity and electronics. Includes study of electrical fundamentals, operation of electric motors and generators, vacuum tubes, transistors and basic electrical and electronic circuits. At the option of the student, laboratory projects may be altered to include preparation for the novice class amateur radio license examination. Students who plan to teach electronics are advised to take 271, 272, 273 in lieu of 231-232. Two lectures and one laboratory per week.

271, 272, 273 FUNDAMENTALS OF ELECTRONICS

4, 4, 4

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, solid-state devices and introduction to power supply, amplifier, oscillator and switching circuits. Must be taken in

INDUSTRIAL EDUCATION AND TECHNOLOGY

sequence; however, 231-232 may be substituted for 271. Three lectures and one laboratory per week.

291 APPLIED ELECTRONICS

4

Study and practice of the techniques used in the construction of electronic equipment, electronic circuit analysis, and logical troubleshooting. Two lectures and two laboratory sessions per week. Prerequisites: 231-232 or 271, 272, 273 or equivalent.

311 HOSPITAL SAFETY

2

Study of codes and regulations pertaining to hospital safety. Equipment and techniques involved in leakage current tests, conductivity testing in operating rooms, testing of pressure safety devices, radiation safety checks and the correct handling of explosive gases. Prerequisite: 271.

331, 332, 333 MEDICAL ELECTRONICS

3, 3, 3

The use, calibration and maintenance of electromechanical equipment used in the diagnostic and therapeutic phases of medicine and in the clinical laboratory. Areas of study include patient care and monitoring equipment, cardiovascular measurements, measurements of physical variables, biotelemetry and computer applications in medicine. Must be taken in sequence. Preferred corequisites: 371, 372; 469.

352, 353 RADIO COMMUNICATIONS

4, 4

A study of electronics, radio communications theory and Federal Communications Commission regulations, designed to help the student qualify for FCC licenses through radio-telephone first class with endorsement for radar. Study is given to testing and maintenance of studio and communications equipment. Three lectures and one laboratory per week. Prerequisite: 271, 272, 273 or equivalent, and 291 recommended.

371, 372 INDUSTRIAL ELECTRONICS

4, 4

A study of electronic devices, systems and circuits used in industry for the purpose of heating, measuring, and controlling. A sampling of the topics studied includes magnetic amplifiers, motor-control systems, and latest solid-state devices and circuitry. Three lectures and one laboratory per week. Prerequisite: 271, 272, 273 or equivalent.

411, 412, 413 TELEVISION SYSTEMS AND CIRCUIT ANALYSIS

3, 3, 3

A study of television transmission principles, the theory and operation of monochrome and color television receiver circuits, community antenna television systems and closed-circuit television systems. Special emphasis is given to the use of logical systems and circuit analysis techniques in troubleshooting. Must be taken in sequence. Two lectures and one laboratory per week. Prerequisite: 271, 272, 273 or equivalent.

INDUSTRIAL EDUCATION AND TECHNOLOGY

432, 433 DIRECTED HOSPITAL EXPERIENCE 15, 15

Full-time work experience with supplementary training in the biomedical electronics department of an approved hospital; taken only after completion of all course work required for the biomedical electronics program. Application must be made during the first two weeks of the quarter prior to the actual field experience. One laboratory per week.

469 APPLIED DIGITAL AND ANALOG SYSTEMS 4

Theory and application of digital and analog systems. Included in study will be computer circuitry, interface devices and physical systems control. Laboratory activity emphasizes construction and troubleshooting techniques. Three lectures and one laboratory per week. Prerequisites: 271, 272, 273 or equivalent and Engineering 355 or equivalent.

GRAPHICS

123 LETTERING 2

Basic principles of proportion and design applied to the formation of the letters of the alphabet for display purposes, with special emphasis on a wide variety of methods and materials. Three laboratory lectures per week.

144, 145-146 INTRODUCTION TO GRAPHIC ARTS 2, 2-2

Letterpress printing, straight and display composition, typographical design, imposition and simple presswork. Course 144 is prerequisite to 145 unless one Carnegie unit or equivalent is presented from secondary school. One lecture and one laboratory per week.

161 PRINCIPLES OF PHOTOGRAPHY 2

Basic principles involved in both color and black-and-white. Theory and practice of exposure, development, contact printing and enlarging. Study of various types of equipment.

237-238-239 OFFSET LITHOGRAPHY 3-3-3

Laboratory experience in offset photography, plate making, cold type composition and presswork. Two lectures and one laboratory per week. Prerequisites: 144, 145-146 or equivalent and 161 concurrent or equivalent.

284-285-286 LINOTYPE COMPOSITION 2-2-2

Care and operation of the linotype machine, study of the assembling, casting and distributing mechanisms, keyboard practice and composition of straight matter, tabular forms and display work. One lecture and one laboratory per week. Prerequisite: 144, 145-146 or equivalent.

INDUSTRIAL EDUCATION AND TECHNOLOGY

- 298 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: 144, (145-146 recommended).
- 305 PRINTING MANAGEMENT** 3
Operating management of a commercial printing plant, purchasing of equipment and supplies, inventory control, pricing, personnel and production supervision. Prerequisites: 144, 145-146 and 237-238-239 or equivalent.
- 321-322 ADVANCED LETTERPRESS PRINTING** 3-3
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. Prerequisite: 144, 145-146 or equivalent.
- 362 APPLIED PHOTOGRAPHY** 3
Composition, photochemistry, optics and advanced study of printing, enlarging and processing of chromatic and monochromatic mediums with manipulative experience. Camera required. Two lectures and one laboratory per week. Prerequisite: 161 or equivalent.
- 370 PRESS PHOTOGRAPHY** 1
Experience in commercial photography, embodying shooting, processing and finishing prints for publication. One laboratory per week. Prerequisite: 362 or equivalent.
- 415-416 ADVANCED LITHOGRAPHY** 3-3
Opportunity for advanced projects in lithographic printing with emphasis on duotones, posterization and process color work. Prerequisite: 237-238-239 or equivalent.

INDUSTRIAL CRAFTS

- 113 BOOKBINDING** 2
Practical basic course in the art and craft of bookbinding, designed to afford the student a comprehensive knowledge of the steps in the process of rebinding books and allied crafts. One lecture and one laboratory per week.
- 247 ART METALS** 2
Utilization of semi-precious metals to develop skills in metal spinning and craft work in copper, brass, aluminum and pewter with processes applied to projects of practical value and artistic merit. Taught alternate years. One lecture and one laboratory per week.

INDUSTRIAL EDUCATION AND TECHNOLOGY

248 PLASTICS 2

An introduction to a variety of operations in plastics involving technical information and experimentation in fundamental manufacturing processes. Taught alternate years. One lecture and one laboratory per week.

249 LEATHERS 2

Technical information and fundamental operation including tooling, carving, stamping, lacing, modeling, forming and finishing. Taught alternate years. One lecture and one laboratory per week.

262 SILK SCREEN PRINTING 2

Basic screen printing (mitography) including various methods of stencil preparation, types of materials used and preparation of equipment. One lecture and one laboratory per week.

METALS

204, 205, 206 WELDING 2, 2, 2

204—gas welding; 205—arc welding; 206—specialized welding including metallic inert gas (MIG) and tungsten inert gas (TIG). Sequence may be 204, 205, 206 or 205, 204, 206 or equivalent. Individualized study units and one laboratory per week.

241-242 SURVEY OF INDUSTRIAL OPERATIONS 2-2

Particularly for pre dental students and physics majors, but is open to industrial education majors and minors who have not taken or are taking credits in metals. Both laboratory experiences and class lectures are used to give a broad introduction to manufacturing operations with factors influencing design and production. One lecture and one laboratory per week.

244, 245-246 MACHINE TOOL PRACTICE I 2, 2-2

Theory and manipulation of basic machine tools, bench work, hand operations and machine operations combined with prescribed and student-selected projects. Course 244 is prerequisite to 245 unless one Carnegie unit or equivalent is presented from secondary school. Taught alternate years. One lecture and one laboratory per week.

381, 382, 383 MACHINE TOOL PRACTICE II 2, 2, 2

Advanced processes of turning and hand work together with operations involving milling, shaping, grinding, gear calculation and cutting, with assigned exercises, together with student-selected projects. Prerequisite: 244, 245-246 or equivalent. Taught alternate years. Two lectures and one laboratory per week.

INDUSTRIAL EDUCATION AND TECHNOLOGY

WOODS

221-222-223 WOOD PRODUCTS AND PROCESSES 2-2-2

An introduction to wood products and processes incorporating use 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.

224-225-226 MINIMALIC CARPENTRY 2-2-2

Application of carpentry fundamentals including actual construction in miniature from architect's plans; laboratory work in framing of rafters and selected architectural sections with full-size lumber. One lecture and one laboratory per week. Taught alternate years.

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: 221-222-223 and 264 or equivalent. Course 264 may be taken concurrently. Two lectures and one laboratory per week. Taught alternate years.

GENERAL

210 APPLIED MAINTENANCE 1-6

Practical, on-the-job experience for students of Maintenance Technology in the following areas: power plant, painting, carpentry, cabinet making, plumbing, heating, electrical, refrigeration, air conditioning, locksmithing, door hardware and motor pool. Selected in consultation with adviser. One laboratory per week per credit. One or two credits per quarter; maximum, six credits.

330 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 credits any quarter; maximum, two credits.

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.

366 INDUSTRIAL MATERIALS 3

Experimental research structured and arranged to involve materials and products of industry. Two lectures and one laboratory per week. Taught alternate years.

INDUSTRIAL EDUCATION AND TECHNOLOGY

399 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.

484, 485, 486 INDUSTRIAL PRACTICUM

1-6

Advanced laboratory work in a chosen area or teaching-aid construction. Select in counsel with departmental instructor involved. Six credits maximum from this and/or Independent Study in Industrial Education and Technology. One laboratory per week per credit. Prerequisite: lower division work in chosen area.

488 SENIOR PROBLEM

1

A student-selected, department-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 comprehensive requirement for the Associate or Bachelor's degree with an Industrial Education and Technology major. Approximately two quarters are required for completion. Register any quarter of senior year except the last.



LIBRARY SCIENCE

E. Mabley, Chairman; M. Gilliland, Shirley Graves, Carolyn Hazelton, T. Ruhl, Helen Sickler.

The department offers a minor designed to provide the knowledge basic to the organization and management of learning resource centers in elementary and secondary schools.

LIBRARY SCIENCE—MINOR REQUIREMENTS:

Use of Books and Libraries	100	2
General Reference Sources	271	3
Introductory Cataloging and Classification	286	3
Library Materials for Children	365	3
or		
Literature for Children and Adolescents	Eng. 412	3
School Library as a Materials Center	382	
or		3
Administration of School Libraries	483	
Selection of Library Materials	413	3
Electives		4

In addition to courses from the department, one of the following may be used as electives:

Literature for Children and Adolescents	Eng. 412
(strongly recommended for elementary teachers)	
Oral Interpretation	Comm. 211
Bookbinding	IE&T 113
Lettering	IE&T 123

Required Cognates:

Methods of Audiovisual Education	Ed. 461	2
Instructional Aids—Production	Ed. 462	2
†Elementary School Curriculum	Ed. 504	3
or		
†Secondary School Curriculum	Ed. 508	2
A Human Relations Course		
(as chosen in consultation with department chairman)		30

†Available to seniors only.

100 USE OF BOOKS AND LIBRARIES 2

Introduction to the Walla Walla College Library; a survey of general reference materials as well as reference sources in various subject fields. Designed primarily for the new student.

271 GENERAL REFERENCE SOURCES 3

Presentation of methods for locating information in the library and a survey of the most commonly used reference sources. Prerequisite: 100 or equivalent.

- 286 INTRODUCTORY CATALOGING AND CLASSIFICATION** 3
An introduction to principles, techniques and practices of cataloging and classifying materials for use in instructional materials centers. Laboratory required.
- 291 LIBRARIES AND SOCIETY** 3
Development of the principal types of libraries with discussion of their characteristics and functions; study of current issues and trends in librarianship.
- 353 STORYTELLING** 2
Consideration of the place of storytelling in the educational process; selection, preparation and presentation of diversified materials.
- 355 HISTORY OF BOOKS AND PRINTING** 3
Technical and aesthetic aspects of writing and printing from the time of cuneiform writing to the present day; discussion of book production and distribution.
- 365 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 of children's literature from numerous subject areas.
- 382 SCHOOL LIBRARY AS A MATERIALS CENTER** 3
Role of the library within the elementary and secondary school; services to the educational program; methods of organization and management.
- 384 ADVANCED CATALOGING AND CLASSIFICATION** 3
Advanced principles, techniques and practices of cataloging and classifying book and non-book materials. Prerequisite: 286. Laboratory required.
- 400 TOPICS IN LIBRARY SCIENCE** 1-3; 6
The study of advanced topics through class activities. One to three credits; maximum: six credits.
- 413 SELECTION OF LIBRARY MATERIALS** 3
Criteria for selecting library materials and appraisal of selection aids; library acquisition policies and methods of building and maintaining collections; survey of current publishing world.
- 461 REFERENCE MATERIALS IN THE SOCIAL SCIENCES** 3
Examination and evaluation of library resources in business and economics, education and psychology, history and geography, political science and sociology. Prerequisite: 271.

LIBRARY SCIENCE

- 464 REFERENCE MATERIALS IN THE HUMANITIES 3**
Examination and evaluation of library resources in the fine arts, literature, philosophy and religion. Prerequisite: 271.
- 467 REFERENCE MATERIALS IN THE SCIENCES 3**
Examination and evaluation of library resources in the natural sciences, physical sciences and technology. Prerequisite: 271.
- 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.
- 477, 478, 479 INDEPENDENT STUDY IN LIBRARY SCIENCE 1-3; 3**
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 showing competence in and extent of his study. Open only to minors. Permission from the chairman of the department required. One to three credits any quarter; maximum, three credits.
- 483 ADMINISTRATION OF SCHOOL LIBRARIES 3**
General principles of administration; application of techniques to the organization and management of the school library.
- 490 DIRECTED FIELD WORK 1-3; 3**
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 field work. One to three credits any quarter; maximum, three credits.
- 493 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

G. Hare, Chairman; M. Lang, W. Soper, T. Thompson.

The department of mathematics offers two majors leading to baccalaureate degrees. The mathematics entrance requirements for both majors 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 approximately one-half semester of trigonometry.

BACHELOR OF ARTS DEGREE—MAJOR REQUIREMENTS:

Major: Mathematics

Advanced Calculus	351, 352, 353	9
Modern Algebra	411, 412, 413	12
Electives		26
(Must be chosen from remaining mathematics courses in consultation with department chairman); may include:		47
Computer Science I	Engr. 218	
Computer Science II	Engr. 220	
Computer Science III	Engr. 226	

BACHELOR OF SCIENCE DEGREE—MAJOR REQUIREMENTS:

Major: Mathematics

Analytic Geometry and Calculus	181, 281, 282, 283	16
Advanced Calculus	351, 352, 353	9
Modern Algebra	411, 412, 413	12
Electives		18
(Must be chosen from upper-division mathematics courses in consultation with department chairman); may include:		55
Computer Science I	Engr. 218	
Computer Science II	Engr. 220	
Computer Science III	Engr. 226	

Required Cognates:

Principles of Physics	Phys. 251, 252, 253	9
Principles of Physics Lab.	Phys. 254, 255, 256	3
General Biology	Bio. 101, 102, 103	12
or		
General Chemistry	Chem. 161-162-163	

MATHEMATICS—MINOR REQUIREMENTS:

A minimum of 28 credits, including four upper-division credits, chosen in consultation with the department chairman.

****99 BASIC MATHEMATICS 3**

A one-quarter review of fundamental concepts of mathematics; designed for students who need review before taking 111. Meets three to five times per week depending upon the student's background in mathematics. A

111, 112, 113 SURVEY OF MATHEMATICS 4, 4, 4

A terminal course for nonscience students in which applied problems form a basis for introducing various topics. Algebra, geometry, trigonometry, analytic geometry, probability, statistics and elementary calculus are the major branches of mathematics studied. Must be taken in sequence. Will meet the basic requirement in mathematics for the baccalaureate degree, but will not apply on a major or a minor in mathematics. AWS

117 PRECALCULUS 5

College algebra and trigonometry, including topics such as inequalities functions, graphs, logarithms, inverses and complex numbers. A

121, 122 FUNDAMENTALS OF MATHEMATICS I, II 4, 4

An integrated course in college algebra and trigonometry including a study of the integers, rational numbers, 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, mathematical induction. 121 AW, 122 WS

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: 117, 122 or a satisfactory score on a departmental qualifying examination. The entire sequence available each quarter. AWS

293 LINEAR ALGEBRA AND ITS APPLICATIONS 3

Vector spaces, linear transformations, matrices and determinants. Emphasis will be on applications. S

***304, 305 INTRODUCTION TO THE THEORY OF NUMBERS 3, 3**

Congruences, continued fractions, Diophantine equations, quadratic residues. Permission of the instructor required. WS

311 PROBABILITY AND STATISTICS 4

Probability, discrete and continuous probability density functions, moments, sampling, correlation, regression and testing of hypotheses. Prerequisite: 283. A

*Taught alternate years.

**See Transitional Curriculum listed under Nondepartmental.

MATHEMATICS

312 ORDINARY DIFFERENTIAL EQUATIONS 4

Differential equations of first order, linear differential equations of order n , series solutions, applications. Prerequisite: 283. W

*313 PARTIAL DIFFERENTIAL EQUATIONS 4

Solutions of various types of partial differential equations with emphasis on solutions of boundary value problems. Prerequisite: 312. S

*342, 343 NUMERICAL ANALYSIS 3, 3

Iterative and recursive numerical techniques as they relate to computer oriented applications. Topics include matrices, numerical integration, linear programming, solutions of linear and nonlinear equations, polynomials and differential equations. Prerequisites: 312 and Engineering 218. WS

351, 352, 353 ADVANCED CALCULUS 3, 3, 3

Functions, continuity, differentiation, integration, infinite series, differential geometry and vector calculus. Prerequisite: 283. AWS

400 TOPICS IN MATHEMATICS 1-3; 6

The study of advanced topics through class activities. One to three credits per quarter; maximum, six credits.

411, 412, 413 MODERN ALGEBRA 4, 4, 4

Groups, rings, fields, modules, vector spaces, dual spaces, matrices, matrix algebra, similarity and linear transformations. Must be taken in sequence. Permission of the instructor required. AWS

*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: 283. S

471 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. A

477, 478, 479 INDEPENDENT STUDY IN MATHEMATICS 1-3; 3

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 showing competence in and extent of his study. Open only to majors and minors. Permission from the chairman of the department required. One to three credits any quarter; maximum three credits.

*Taught alternate years.

MODERN LANGUAGES

G. Caviness, Chairman; Solange Henderson, R. Czeratzki.

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.

In order to achieve these ends, foreign language majors are advised to participate in the Adventist Colleges Abroad program and spend at least one school year studying in the native country.

Majors and minors are offered in French, German and Spanish.

Majors planning to teach should confer with their departmental adviser and with the department of education and psychology in regard to certification and teaching credentials.

BACHELOR OF ARTS DEGREE—MAJOR REQUIREMENTS:

Major: French, German or Spanish

Intermediate French	201, 202, 203	} 9
or		
Intermediate German	211, 212, 213	
or		
Intermediate Spanish	221, 222, 223	} 36
Electives		
(must be upper-division language courses with at least one literature course taken in sequence)		45

Required Cognate:

Methods of Teaching Modern Languages	471	} 3
or		
Introduction to English Linguistics	Eng. 425	

It is recommended that the general education requirements include:

Arts and Ideas	Nondept. 207, 208, 209
History of Western Civilization	Hist. 101, 102, 103

FRENCH, GERMAN OR SPANISH—MINOR REQUIREMENTS:

A minimum of 24 credits beyond the elementary course, 15 of these must be on the upper-division level.

FRENCH

101-102-103 ELEMENTARY FRENCH

4-4-4

Introduction to the basic language skills of understanding, speaking, reading and writing of French, with stress on understanding and speaking. Minimum of three hours laboratory per week.

MODERN LANGUAGES

- 151, 152, 153 CONVERSATIONAL FRENCH** 2, 2, 2
Introduction and practice in the spoken language for travelers and others who are about to make personal contact with nationals of the language. Will meet the practical needs of tourists, missionaries and professional people in everyday conversation. Will not apply on a major or minor.
- 201, 202, 203 INTERMEDIATE FRENCH** 3, 3, 3
Development of the basic language skills leading to conversation and intensive reading and writing of French. Minimum of two hours laboratory per week. Must be taken in sequence.
- 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. The class is conducted in French. Prerequisite: 201, 202, 203.
- 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.
- 404, 405, 406 FRENCH DIRECTED READING** 1-3; 6
The work consists of assigned reading and reports. Prerequisite: 304, 305, 306. One to three credits any quarter; maximum, six credits.
- 408 ROMANTICISM AND REALISM** 4
Study of the period from 1800 to 1870. Special attention to writers such as Hugo, Vigny, Musset, Balzac and Flaubert.
- 419 THE SEVENTEENTH CENTURY** 4
Study of the major writers of the French Classical period. Particular attention will be paid to the works of Corneille, Racine, La Fontaine and La Bruyere.
- 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. Conducted entirely in French. Must be taken in sequence.
- 438 MODERN PERIOD OF FRENCH LITERATURE** 4
Study of the period extending from the turn of the century to Albert Camus. Intensive reading and discussion of the most representative works of this period.

GERMAN

- 111-112-113 ELEMENTARY GERMAN** 4-4-4
Development of listening comprehension, speaking, reading and writing skills. Minimum of three hours laboratory per week.
- 161, 162, 163 CONVERSATIONAL GERMAN** 2, 2, 2
Introduction and practice in the spoken language for travelers and others who are about to make personal contact with nationals of the language. Will meet the practical needs of tourists, missionaries and professional people in everyday conversation. Will not apply on a major or minor.
- 211, 212, 213 INTERMEDIATE GERMAN** 3, 3, 3
Continued development of basic language skills leading to conversation, intensive reading and composition. Minimum of two hours laboratory per week. Must be taken in sequence.
- 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. Conducted in German.
- 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. Conducted in German. Must be taken in sequence.
- 317, 318, 319 ADVANCED GERMAN** 3, 3, 3
Intensive practice in oral and written German. Reading, analysis and discussion of selected prose. Laboratory practice required. Conducted in German. Must be taken in sequence.
- 323 SCIENTIFIC GERMAN** 2
An introduction to the reading of technical German in various scientific fields.
- 403 MODERN GERMAN LITERATURE** 4
A study of German literature since Naturalism, focusing on works by Hauptmann, Th. Mann, Kafka, Brecht and others. Considerable attention will also be devoted to representative post-war writers. Conducted in German.
- 411, 412, 413 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: 311, 312, 313. One to three credits any quarter; maximum, six credits.

MODERN LANGUAGES

421 GERMAN CLASSICISM 4

A study of the classical periods in German literature as revealed in the works of Lessing, Goethe and Schiller. Conducted in German.

422 GERMAN ROMANTICISM 4

A study of writings, philosophies and literary theories of German romanticism from Friedrich Schlegel to Heinrich Heine. Conducted in German.

SPANISH

99 SPANISH REVIEW 2

Open to students needing additional review of Spanish to be registered for a parallel with 221, 222, 223. Credits received from this course will not count toward the 192 credits required for graduation.

121-122-123 ELEMENTARY SPANISH 4-4-4

Development of the basic skills of understanding, speaking, reading and writing of Spanish through a thorough internalization of the Spanish sounds and conceptual patterns. Minimum of three hours laboratory per week.

171, 172, 173 CONVERSATIONAL SPANISH 2, 2, 2

Introduction and practice in the spoken language for travelers and others who are about to make personal contact with nationals of the language. Will meet the practical needs of tourists, missionaries and professional people in everyday conversation. Will not apply on a major or minor.

221, 222, 223 INTERMEDIATE SPANISH 3, 3, 3

Continued emphasis on the development of understanding, speaking, reading and writing Spanish with stress being placed on reading and writing. This course is designed to prepare students to use Spanish as a means of communication as a cultural and research tool. Minimum of two hours laboratory per week. Must be taken in sequence.

324, 325, 326 SURVEY OF SPANISH LITERATURE 3, 3, 3

A survey of the history of Spanish literature; lectures, reports, outside reading; the main currents of the development of the various genres of Spanish literature with a study of representative works.

331, 332 HISPANIC CULTURE AND CIVILIZATION 2, 2

An overview of the development of the culture of the Spanish-speaking peoples from their peninsular origins to the American expansions. Analysis and interpretation of the Hispanic mind as revealed in art, folklore, literature and music.

MODERN LANGUAGES

- 341, 342, 343 ADVANCED SPANISH** 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. Laboratory required. Must be taken in sequence.
- 414, 415, 416 SPANISH DIRECTED READING** 1-3; 6
The work consists of assigned readings and reports. Prerequisite: 341, 342, 343. One to three credits any quarter; maximum, six credits.
- 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.
- 431, 432, 433 LATIN AMERICAN LITERATURE** 3, 3, 3
An introduction to Latin American literature with special emphasis on the South American and Mexican authors.

GENERAL

- 400 TOPICS IN MODERN LANGUAGES** 1-3; 6
The study of advanced topics through class activities. One to three credits per quarter; maximum, six credits.
- 471 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.
- 477, 478, 479 INDEPENDENT STUDY IN MODERN LANGUAGES** 1-3; 3
Directed, independent study in an approved area of French, German or Spanish. The student will be required to read widely on an assigned subject, follow regular research methods and present a paper showing competence in and extent of his study. Open only to majors and minors. Permission from the chairman of the department required. One to three credits any quarter; maximum, three credits.

MUSIC

M. West, Chairman; Sandra Camp, G. Ferguson, S. Hiscock, R. Hunter, L. Leno, H. Lickey, G. Spring.

The department offers instruction for those who wish to choose music as a career and for those who wish to develop a cultural appreciation of music. Two curriculums are offered in music: the Bachelor of Music with majors in Performance or Music Education, and the Bachelor of Arts with majors in Music Theory or Applied Music.

BACHELOR OF MUSIC

The Bachelor of Music degree is a professional degree with a choice of two majors: Performance and Music Education. Sincerity of purpose, application and aptitude must be demonstrated during the first year before full status as a major student is granted.

In fulfilling the musical organization requirement, voice majors must be in a choral group, string majors in the orchestra, and brass and woodwind majors in the band. Piano and organ majors may elect up to six credits of Ensemble as partial fulfillment of the organization requirement.

The department designates required attendance each quarter at a variety of musical functions—recitals (general, senior and faculty), and concerts (departmental, WWC lyceum, community concerts, etc.).

BACHELOR OF MUSIC DEGREE IN PERFORMANCE— REQUIREMENTS:

Major: Piano, Organ or Voice

General Requirements:

Religion (see page 53)		18-24
College Writing	Eng. 101-102-103	9
Language ¹		12
Arts and Ideas	Nondept. 207, 208, 209	6
Philosophy of Christian Education	Ed. 110	2
Physical Education (see page 53)		3
		<hr/> 50-56

Major Requirements:

The Art of Listening	103	3
Theory I	104, 105-106	9
Basic Musicianship—Aural I	111, 112-113	3
Basic Musicianship—Keyboard I	114, 115-116	3
Theory II	204-205-206	9
Basic Musicianship—Aural II	211-212-213	3
Basic Musicianship—Keyboard II	214-215-216	3
Form and Analysis	304, 305	6
History of Music	351, 352, 353	9

MUSIC

Conducting	387 and 388 or 389	4
Counterpoint	406	3
Orchestration	409	3
Composition I, II	411, 412, 413; 415	6
Musical Organization		12
Applied Performance Major		48
Independent Study in Music	477, 478, 479	3
Electives		9-15
Cognates ²		0-6
		<hr/> 136-148

¹ Voice majors who have had two units of French or German on the secondary level must take one year of French or German, whichever language the student has not had. If the student has not had French or German on the secondary level, he must take one year each of French and German. Each student must pass a language diction examination in German. French and Italian will be administered by the voice faculty. Those failing any or all sections of the examination will be required to register for the appropriate section(s) of Singer's Diction.

² Voice majors must take Vocal Techniques.

A recital during both the junior and senior years is required.

This curriculum does not result in denominational or state teaching certification.

BACHELOR OF MUSIC DEGREE IN MUSIC EDUCATION—REQUIREMENTS:

General Requirements:

Religion (see page 53)		18-24
College Writing	Eng. 101-102-103	9
History	(preferably Hist. 101, 102, 103)	9
Science or Mathematics (see page 53)		12
Arts and Ideas	Nondept. 207, 208, 209	6
Physical Education (see page 53)		3
		<hr/> 57-63

Core Requirements:

The Art of Listening	103	3
Theory I	104, 105-106	9
Basic Musicianship—Aural I	111, 112-113	3
Basic Musicianship—Keyboard I	114, 115-116	3
Theory II	204-205-206	9
Basic Musicianship—Aural II	211-212-213	3
Basic Musicianship—Keyboard II	214-215-216	3
History of Music	351, 352, 353	9
Orchestration	409	3
Organization		11
		<hr/> 56

MUSIC

Specialized Areas:

In addition to the general requirements and the core requirements, the student must choose one of the following specialized areas:

1. Elementary School Music

Elementary School Music Literature	312	2
Conducting	387, 388, 389	6
Form and Analysis	304 or 305	3
Philosophy of Music	471	2
Teaching Music in Elementary School	472	2
Major Performance		11
Minor Performance ¹		6
Selected Topics, Independent Study or Topics ²		2
*Electives		41-42
Cognates ³		3-4
		<hr/> 78-80

¹ To be chosen in consultation with the department chairman except for instrumental majors who will choose the four Instrumental Techniques courses (6 hours of which will fulfill this requirement with the remaining hours counting toward the cognates).

² At least one hour must be taken in the area of elementary vocal techniques.

³ Students whose major performance area is keyboard must take Keyboard Pedagogy and Literature. Students whose major performance area is instrumental will count their four additional credits of Instrumental Techniques toward this requirement.

2. Secondary School Music

Conducting ¹	387, 388 and/or 389	4-6
Form and Analysis	304, 305	6
Philosophy of Music and Music Education	471	2
Teaching Music in the Secondary School	472	2
Major Performance ²		22
Minor Performance ³		6
Voice ⁴		1
*Electives		33-41
Cognates ⁵		0-6
		<hr/> 72-88

¹ Students whose major performance is voice or instrumental elect both Instrumental and Choral Conducting while the keyboard students may elect either.

² Usually a student will take a total of 22 credits in *one* applied field. However, students who reach a high level of proficiency in less than 22 credits may be allowed to elect another applied field to complete the 22-credit requirement

*Students should consult the publication *Guidelines for Certification* for certification requirements.

with the approval of the music faculty. The music faculty may allow 4 credits of advanced study in conducting problems toward the fulfillment of the last 4 hours of the major performance requirement.

³ Students whose major performance area is organ will take piano and those whose major performance is piano will take organ. Students whose major performance is instrumental will take all the Instrumental Techniques courses (the additional hours beyond the 6 allowed in the minor performance will apply toward the cognates).

⁴ Not required of students whose major performance is voice.

⁵ Voice majors must either pass a diction examination in German, French and Italian, or take the appropriate section(s) of Singer's Diction. They must also take Vocal Techniques. Piano majors must take Keyboard Pedagogy and Literature.

A joint senior recital (or solo recital) is required of all candidates for this degree. With the counsel 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 musicianship in these areas.

BACHELOR OF ARTS

The Bachelor of Arts degree offers a choice of two majors: Music Theory and Applied Music. Sincerity of purpose, application and aptitude must be demonstrated during the first year before full status as a major student is granted. This curriculum is not intended to prepare the student for a career in music, but in some circumstances may precede graduate study in this field.

Participation in a musical organization is required for two years but without credit. Majors in Applied Music will enroll for the following organizations: choral group for voice majors, orchestra for string majors, band for brass and woodwind majors. Piano and organ majors may elect one year of Ensemble as partial fulfillment of the organization requirement.

The department designates required attendance each quarter at a variety of musical functions—recitals (general, senior and faculty) and concerts (departmental, WWC lyceum, community concerts, etc.).

BACHELOR OF ARTS DEGREE—MAJOR REQUIREMENTS:

Major: Music Theory

The Art of Listening	103	3
Theory I	104, 105-106	9
Basic Musicianship—Aural I	111, 112-113	3
Basic Musicianship—Keyboard I	114, 115-116	3
Theory II	204-205-206	9
Basic Musicianship—Aural II	211-212-213	3
*Basic Musicianship—Keyboard II	214-215-216	3

*Students whose major performance is keyboard will not register for Basic Musicianship—Keyboard II.

MUSIC

Form and Analysis	304, 305	6
History of Music	351, 352, 353	9
Counterpoint	406	3
Orchestration	409	3
Composition I	411, 412, 413	3
*Applied Music		9-12
		<hr/> 66

Required Cognate:

Arts and Ideas	Nondept. 207, 208, 209	6
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The music theory major will present a senior project for which approval must be obtained from the music faculty.

Major: Applied Music

The Art of Listening	103	3
Theory I	104, 105-106	9
Basic Musicianship—Aural I	111, 112-113	3
Basic Musicianship—Keyboard I	114, 115-116	3
Theory II	204-205-206	9
Basic Musicianship—Aural II	211-212-213	3
*Basic Musicianship—Keyboard II	214-215-216	3
Form and Analysis	304, 305	6
History of Music	351, 352, 353	9
*Applied Music		21
(12 hours must be in one field; the remainder is to be chosen in consultation with the Department chairman)		<hr/> 66

*Students whose major performance is keyboard will not register for Basic Musicianship—Keyboard II.

Required Cognates:

Arts and Ideas	Nondept. 207, 208, 209	6
Singer's Diction	221-222-223	3
(for voice majors who are unable to pass a diction examination in Italian, German and French)		

The applied music major will present a joint (or solo) senior recital.

MUSIC—MINOR REQUIREMENTS:

Minor: General

Theory I	104, 105-106	9
Basic Musicianship—Aural I	111	1
Basic Musicianship—Keyboard I	114	1
Introduction to Music	201, 202, 203	6
Applied Music		6
(in one field, with an examination by the music faculty at the end of the first and second years of private lessons)		
Electives		7
(3 credits must be upper division. No more than 3 credits of musical organizations may apply toward this requirement.)		<hr/> 30

MUSIC

Minor: Teaching

Theory I	104, 105-106	9
Basic Musicianship—Aural I	111	1
Basic Musicianship—Keyboard I	114	1
Introduction to Music	201, 202, 203	6
Basic Conducting	387	2
Applied Music		6
(in one field with an examination by the music faculty at the end of the first and second years of private lessons)		
Philosophy of Music and Music Education	471	2
Teaching of Music in the Elementary School	472	} 2
or		
Teaching of Music in the Secondary School	473	
Electives		1
		<hr/> 30

THEORY AND COMPOSITION

103 THE ART OF LISTENING 3

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.

104, 105-106 THEORY I 3, 3-3

Introduction to the elements of notation, rhythm, scales, key signatures and terms. Traditional harmonic concepts through secondary dominants will be taught during the winter and spring quarters. Corequisites: 111, 112-113 and 114, 115-116.

111, 112-113 BASIC MUSICIANSHIP—Aural I 1, 1-1

Intensive training in fundamental aural skills. Emphasis is on rhythmic, melodic and harmonic concepts. Corequisite: 104, 105-106.

114, 115-116 BASIC MUSICIANSHIP—Keyboard I 1, 1-1

Designed to develop basic skills including keyboard orientation, sight-reading, scales, chord progressions, harmonization of simple melodies and transposition. Corequisite: 111, 112-113.

204-205-206 THEORY II 3-3-3

A continuation of Theory I with emphasis on the melodic and harmonic developments of the late nineteenth and twentieth centuries. Prerequisites: 104, 105-106; 111, 112-113; 114, 115-116. Corequisites: 211-212-213; 214-215-216.

211-212-213 BASIC MUSICIANSHIP—Aural II 1-1-1

A continuation of 111, 112-113. Normally taken concurrently with Theory II. Prerequisite: 111, 112-113.

MUSIC

214-215-216 BASIC MUSICIANSHIP—Keyboard II

1-1-1

A continuation of 114, 115-116. Completion of this course replaces the piano proficiency examination. Prerequisite: 114, 115-116 or permission of the instructor.

304, 305 FORM AND ANALYSIS

3, 3

A detailed study of musical structure. Must be taken in sequence.

406 COUNTERPOINT

3

A continuation of 305 with concentration on the more intricate forms of contrapuntal writing such as motet, canon and fugue. Prerequisite: 304, 305.

409 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: 304, 305.

411, 412, 413 COMPOSITION I

1-2, 1-2, 1-2

A study of the art of composing in the smaller forms. Special emphasis is given to twentieth century techniques. Prerequisite: 204-205-206 and/or the permission of the instructor. One or two credits each quarter.

415 COMPOSITION II

1-3; 3

Advanced composition in the larger forms. Prerequisite: 411, 412, 413 and/or permission of instructor. One to three credits any quarter; maximum, three credits.

HISTORY AND LITERATURE

201, 202, 203 INTRODUCTION TO MUSIC

2, 2, 2

An introduction to the appreciation and enjoyment of music through a study of its basic literature with extensive listening. The course seeks to develop an awareness of the emotional, aesthetic and intellectual appeals of music. Students beginning with winter or spring quarter must obtain approval of the instructor. Credit is not allowed toward a major.

351, 352, 353 HISTORY OF MUSIC

3, 3, 3

A study of music history from Gregorian Chant to the present with special attention to musical styles as evidenced through the development of musical forms, instrumentation and performance practice. Open to music majors; others accepted with permission of the instructor.

MUSIC EDUCATION

- 221, 222, 223 SINGER'S DICTION** 1, 1, 1
A study of correct pronunciation of Italian, German and French, enabling singers to perform the extensive literature available in these languages. Required of all voice majors who are unable to pass a diction examination in Italian, German and French.
- 277, 278, 279 BRASS TECHNIQUES** 1, 1, 1
Class instruction in the playing and teaching of brass instruments.
- 281, 282, 283 WOODWIND TECHNIQUES** 1, 1, 1
Class instruction in the playing and teaching of woodwind instruments.
- 284, 285, 286 STRING TECHNIQUES** 1, 1, 1
Class instruction in the playing and teaching of stringed instruments.
- 287 PERCUSSION TECHNIQUES** 1
Class instruction in the playing and teaching of percussion instruments.
- 308 KEYBOARD PEDAGOGY AND LITERATURE** 3
A course conducted as an introduction to the teaching of piano including both the private and the class approaches. Combined with the problems of technique, sight reading, memorizing and interpretation will be a brief survey of literature as it applies to teaching situations.
- 312 ELEMENTARY SCHOOL MUSIC LITERATURE** 2
A study of the literature for classroom presentation and children's voices in grades one to eight.
- 382 VOCAL TECHNIQUES** 3
A study of the factors involved in correct voice production and artistic performance of vocal literature.
- 471 PHILOSOPHY OF MUSIC AND MUSIC EDUCATION** 2
The role of music in the life of the individual, society, the school and the church in the context of Seventh-day Adventist philosophy.
- 472 THE TEACHING OF MUSIC
IN THE ELEMENTARY SCHOOL** 2
Objectives, procedures and materials of music education for kindergarten level through grade six. Emphasis on classroom instruction for all students. Also open to nonmusic majors who have completed 471 and who have had musical experience satisfactory to the instructor.
- 473 THE TEACHING OF MUSIC
IN THE SECONDARY SCHOOL** 2
Objectives, procedures and materials of music education for grades seven through twelve. Emphasis on classroom instruction for all students.

MUSIC

GENERAL

208-209 MINISTRY OF MUSIC 2-2

A study of the purpose and use of music in religious services. Attention is given to the aesthetics of the church service and hymnology.

387 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.

388 INSTRUMENTAL CONDUCTING 2

Instruction and experience with conducting live performances of representative works of band and orchestral literature. Prerequisite: 387.

389 CHORAL CONDUCTING 2

Instruction and experience with conducting live performances of representative works of choral literature. Prerequisite: 387.

400 TOPICS IN MUSIC 1-3; 6

The study of advanced topics through class activities. One to three credits per quarter; maximum, six credits.

477, 478, 479 INDEPENDENT STUDY IN MUSIC 1-3; 3

Directed 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 showing competence in and extent of his study. Open only to majors and minors. Instructor's approval required. One to three credits any quarter; maximum, three credits.

481, 482, 483 SELECTED TOPICS IN MUSIC 1-3; 3

Directed independent study on selected advanced topics. All study is done under the supervision of the instructor and elected only after consultation with the chairman of the department. One to three credits any quarter; maximum, three credits.

VOCAL AND INSTRUMENTAL ENSEMBLES

224, 225, 226 CONCERT CHOIR 1, 1, 1

Organized to provide a large ensemble for the performance of a major choral work each quarter. Open to all students and community singers.

231, 232, 233 WIND ENSEMBLE 1, 1, 1

A select band chosen from the members of the Concert Band. Selected band literature as well as woodwind and brass choir literature is performed.

MUSIC

241, 242, 243 SCHOLA CANTORUM 1, 1, 1

A select ensemble for those with unusual vocal talent and musicianship. A challenging choice of specialized types of choral literature, both sacred and secular, is studied and performed. Regular appearances on and off campus are customary. Membership is by invitation and/or audition.

244, 245, 246 CHORALE 1, 1, 1

This eight-part choral organization performs regularly as the church choir, in addition to presenting concerts on and off campus. Standards of repertoire and performance are equal to those of the Schola Cantorum, but have a different musical objective. Great masterpieces of choral literature are performed each quarter. Membership is by audition.

247, 248, 249 CONCERT BAND 1, 1, 1

A select organization which serves the College by performing concerts each year both on and off campus. The repertoire encompasses music of a wide range of styles and periods and includes both original band works as well as appropriate transcriptions. Members are selected on the basis of talent, musicianship, technical development and the need for a balanced instrumentation. Membership is by audition.

251, 252, 253 STRING ORCHESTRA 1, 1, 1

An organization which rehearses and performs, both on and off campus, a cross-section of standard literature from the Baroque Era to the present. Membership is by audition.

254, 255, 256 WALLA WALLA SYMPHONY 1, 1, 1

A community symphonic orchestra which presents four subscription concerts per season. Membership is by audition.

257, 258, 259 ENSEMBLE 1, 1, 1

Any vocal or instrumental duo, trio, quartet or larger group may study music peculiar to their ensemble under the direction of one of the music department staff. Piano and organ majors may elect up to six credits of ensemble in lieu of belonging to one of the larger college organizations.

APPLIED MUSIC

One to four credits of applied music may be earned each quarter. One credit of applied music presupposes four to six hours of practice per week.

Not more than 9 credits in applied music (including 3 credits of Ensemble) may be earned toward graduation without an equal number of credits in music classwork.

MUSIC

Transfer students majoring in music must take a minimum of 6 credits in applied music at Walla Walla College.

107, 108, 109 APPLIED MUSIC 1, 1, 1
Beginning.

127, 128, 129 APPLIED MUSIC 1, 1, 1
Intermediate.

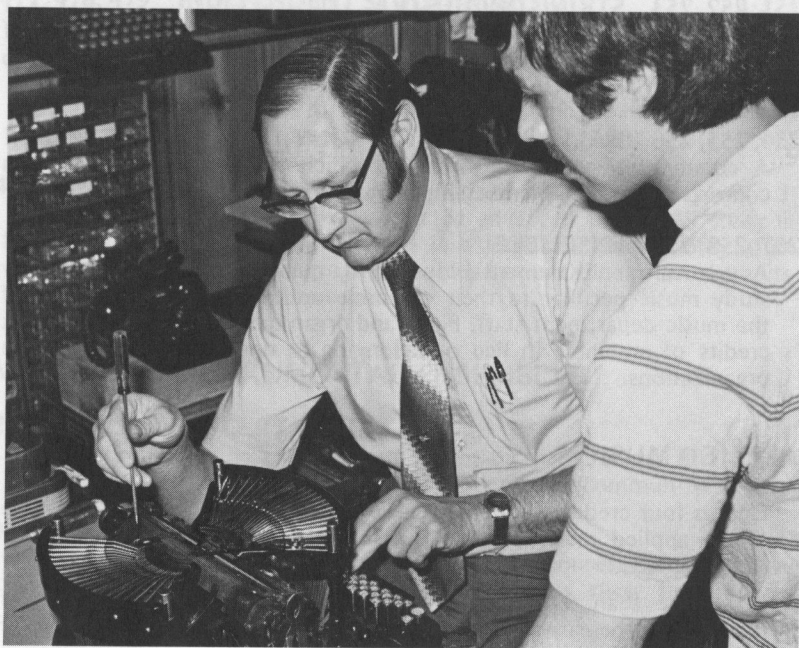
227, 228, 229 APPLIED MUSIC 1, 1, 1
Upper intermediate.

327, 328, 329 APPLIED MUSIC 1, 1, 1
Lower advanced.

427, 428, 429 APPLIED MUSIC 1, 1, 1
Advanced.

PIANO PROFICIENCY REQUIREMENT:

Successful completion of Basic Musicianship—Keyboard II (214-215-216) meets the piano proficiency requirement.



NONDEPARTMENTAL

AVIATION

211 AVIATION GROUND SCHOOL 3

A study of pre-flight facts, meteorology, the flight computer, navigation and Federal Aviation Regulations. The course is designed to enable the student to pass the FAA private pilot written examination.

250 AVIATION FLIGHT TRAINING 3

A course of coordinated flight and ground instruction designed to prepare the student to meet the requirements for the Federal Aviation Agency private pilot certificate. Training is now available on an approved-school basis. Prerequisite: 211 or equivalent.

GENERAL

90 DEVELOPMENTAL READING 2

This course is designed to help college students develop speed and comprehension in reading. The latest reading techniques are taught and some of the best equipment is available for classroom use. It is a highly recommended course, especially for students whose reading habits are poor. Proficiency in reading means improved study skills.

207, 208, 209 ARTS AND IDEAS 2, 2, 2

A course designed to survey and integrate the arts of architecture, sculpture, painting, literature and music, and to show their relation to the general trends of Western culture as an aesthetic outgrowth of the intellectual interests and economic conditions of the various periods of history.

233 MISSIONS ORIENTATION 2

An interdisciplinary course designed to acquaint the student missionary with cultural differences through conceptual orientation and exposure to the practical aspects of foreign service. Emphasis is also placed on the philosophy and purpose of missions.

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 courses in English (99 - English Composition), mathematics (99 - Basic Mathematics) and Developmental Reading, in addition to courses within the regular college curriculum.

NONDEPARTMENTAL

Students are registered for courses within this curriculum on the basis of test scores from their entrance examinations and/or high school grades. Credits received from the courses in this curriculum are non-transferable and will be in addition to the 192 credits required 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.



NURSING, SCHOOL OF

Wynelle Huff, Dean; Rosalee Abrams, Wanda Anderson, Christine Bigley, Florence Carrigan, Janice Chance, Edna Downing, Judy Farnsworth, Leona Jones, Miriam Kelly, Anne Lindt, Annette Lofftus, Bonnie Meyer, Verlene Meyer, Ronald Mitchell, Carolyn Olson, Harold Osterud, Karen Radke, Sharon Rawson, Joyce Riter, Ruth Schneider, Lois Smith, Laura Tomanka, Fred Troutman, Betty Wallace.

PHILOSOPHY AND OBJECTIVES

Walla Walla College School of Nursing, as part of a Seventh-day Adventist Church-sponsored educational system, builds its philosophy on the basic concept that the character of God is love and that the entire relationship of man-to-God and man-to-man should be one of unselfish love.

This gives rise to the concept of loving service which is seen as the motivating factor in the interaction between the Christian nurse and those in his/her care. This interacting service is directed to positive movement of the state of man toward an optimum level of wellness. This optimum level of wellness, which is reflected in his ability to function interdependently in his individual, familial and societal environment, is directly related to the extent to which his basic needs are met.

The Christian professional nurse possesses characteristics of compassion and concern which complements his/her abilities to promote, directly or indirectly, high-level wellness. A strong scientific foundation provides the basis for these abilities which include the application of descriptive, explanatory and predictive principles of the making of wise and independent judgments for the improvement of nursing services and adaptation to changing situations. Based on these judgments, the nurse makes decisions for action and accepts responsibility for the outcome of these actions.

A graduate of this program will be expected to:

Implement the nursing process of assessment, planning, intervention and evaluation; (This involves professional insights into the physical, mental, emotional, social and spiritual needs of persons of all ages and in all environments.)

Demonstrate the use of leadership skills in the coordination of nursing care; (This operates in the context of independent action and in cooperation with other members of the health team.)

Utilize significant communication in interpersonal relationships;

Communicate significantly in interpersonal relationships, and as a practicing professional;

Teach health concepts and health care to individuals, families and associated personnel;

Demonstrate professional growth.

COOPERATING INSTITUTIONS

Extended campus facilities are located in Portland, Oregon. Teachers' offices, classrooms and a library are housed in a facility of Portland Adventist Hospital.

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 off-campus facilities for instruction of students. In the Walla Walla area these include the Veteran's Administration Hospital, Walla Walla General Hospital, Smith Nursing Home, Whitman Manor Nursing Home, Walla Walla Family Planning Clinic, Walla Walla Mental Health Center, Blue Mountain Boys' Ranch and the Eastern Oregon Hospital and Training Center located in Pendleton, Oregon. Agencies used by agreement in the Portland area include the Portland Adventist Hospital, Woodland Park Hospital, Bess Kaiser Hospital, Crippled Children's Division, University of Oregon, Albina Child Care Center, Clackamas County Health Department, Clark-Skamania District Health Department, Multnomah County Health Department.

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 PLANNING

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 the following address:

6014 Southeast Yamhill
Portland, OR 97215

ADMISSION

The nursing program is open to the following:

Freshman students by a diploma of graduation from an accredited high school or academy;

Transfer students from other accredited colleges or universities;

Registered nurse students.

Applicants in all categories listed above must send their application for admission to:

Director, Admissions and Records
Walla Walla College
College Place, WA 99324

The general high school prerequisites for admission to Walla Walla College are listed on page 36; the special prerequisites for nursing include two units of mathematics (one must be algebra, the other a mathematics course higher than algebra). High school chemistry is highly recommended.

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 liberal arts courses or equivalent courses are required of registered nurse applicants that are required of basic students.

Registered nurses may establish credit by transfer of courses from other accredited colleges or universities, by validating examinations, or by taking courses as offered to basic students.

Validating examinations in nursing are given by the faculty of the school of nursing. If the student feels competent, he may establish credit by examination in the following nursing courses: 341, 342, 343. If a satisfactory grade is earned on the examination, full credit for the course is allowed. Unsatisfactory grades of D or F are recorded and the student is required to take these classes with the basic students.

Credit for nursing courses carrying numbers above 400 may not be established by validating examinations.

TRANSPORTATION

Students are responsible for their own transportation to agencies and institutions used for educational experience. Transportation costs will vary from quarter to quarter. 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.

CURRICULUM

The nursing program contains approximately equal portions of general education and professional courses and may be completed in twelve quarters. Four to six quarters are spent at the extended campus facility in Portland, Oregon.

If two summer sessions are utilized, 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 type of program.

NURSING

Students whose cumulative grade-point average falls below 2.00 (or C) on courses completed or who have received a grade lower than C in any nursing course will not be permitted to proceed with further coursework within the nursing major. 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.

Nursing majors must meet the requirements for a Bachelor of Science degree as listed in the section "Degree Requirements." (See page 54.)

Students are not permitted to be dually enrolled at Walla Walla College and another college or university in the Portland area. Exception to this must be approved by the dean and the Academic Standards Committee and will be granted only in most unusual circumstances.

In addition to the regular degree requirements of the College, the following courses are required:

BACHELOR OF SCIENCE DEGREE—MAJOR REQUIREMENTS:

Major: Nursing

Level II Nursing	221-222-223	12
Level III Nursing	341, 342, 343	39
Level IV Nursing	421, 422, 423	36
Introduction to Community Health and Epidemiology	322	4
*Anatomy, Physiology	Bio. 202, 203	10
*Microbiology	Bio. 222	5
*Introductory Chemistry I	Chem. 101-102-103	9
Human Nutrition	HEc. 220	3
General Sociology	Soc. 204, 205	6
**General Electives		11

*Meets basic science requirement

**D grades are acceptable for these credits.

Courses which must be completed before transfer to the Portland campus:

College Writing	Eng. 101-102-103	9
Fine Arts/Literature/Speech (two basic courses, see page 52)		12
Introductory Chemistry I	Chem. 101-102-103	9
Anatomy, Physiology	Bio. 202, 203	10
Microbiology	Bio. 222	5
General Psychology	Psych. 121, 122	4
General Sociology	Soc. 204, 205	6
History	Hist. 101, 102, 103 or 201, 202, 203	9
Religion		9
Physical Education		1
Human Nutrition	HEc. 220	3
Electives		11
Level II Nursing	221-222-223	12

NURSING

Courses taken on the Portland campus:

Level III Nursing	341, 342, 343	39
Level IV Nursing	421, 423	24
Level IV Nursing	422	12
(Students may arrange to take at College Place or other approved site)		
Introduction to Community Health and Epidemiology	322	4
Religion		9
Physical Education		2
Philosophy of Christian Education	Ed. 110	2

221-222-223 LEVEL II NURSING 4-4-4

A study of man in wellness with an emphasis placed on the inter-relatedness among the normal basic needs and the sequential stages of growth and development which affect the functioning of the whole person at an optimum level of health. Nursing process skills of assessment, diagnosis, objective development, planning, implementation and evaluation are practiced on individuals and groups which are functioning on a wellness level for various ages, so that the student may learn to differentiate normal from abnormal factors and to identify potentialities for enhancing healthful living capacities for themselves, other individuals, families and communities. Includes an introduction to various roles of the professional nurse. Prerequisites: Chemistry 101-102-103, Biological Sciences 202, 203; 222.

322 INTRODUCTION TO COMMUNITY HEALTH AND EPIDEMIOLOGY 4

A study of the historical background and general organization and structure of public 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.

341, 342, 343 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 psycho-social, biological, spiritual and cultural factors which adversely affect the health of the individual from conception to death. Learning experiences are organized to include observation and 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. Prerequisites: 221-222-223; Home Economics 220; Psychology 121, 122; Sociology 204, 205.

400 TOPICS IN NURSING 1-3; 6

The study of advanced topics through class activities. One to three credits per quarter; maximum, six credits.

NURSING

421 LEVEL IV NURSING

12

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 preventive measures and the promotion of wellness. Experiences are obtained from community service agencies including mental health facilities. Prerequisites: 322; 341, 342, 343.

422 LEVEL IV NURSING

12

The student chooses an area of nursing where he/she will have guided in-depth study and practice. Prerequisites: 341, 342, 343; 421 if student chooses community health elective.

423 LEVEL IV NURSING

12

An exploration of the health care systems tracing the development of the team concept as well as other emerging patterns of nursing organization. Principles of administration, management and teaching are considered as they relate to the role of the professional nurse. Study is given to present-day trends in nursing, professional organizations, patterns of nursing education, nursing legislation and opportunities in the field of nursing. Laboratory experience is provided in planning, organizing and implementing nursing for groups of health care consumers. Principles, methods and practice in research related to nursing are included. Prerequisite: 341, 342, 343.

477, 478, 479 INDEPENDENT STUDY IN NURSING

1-3

Directed, independent study in an approved area in clinical nursing. The student will be required to formulate study objectives and a plan of implementation which is mutually agreeable to student and faculty member. Evaluation of the study results is to be submitted in an agreed-upon written form. Permission of the department chairman required. One to three credits; maximum, three credits.

The following courses will be taught during the 1974-75 school year as listed in the 1972-74 bulletin to accommodate students who will be graduating under that bulletin:

257-258	Parent-Child Nursing II, III	5-5
267	Adult Nursing I	9
271	Parent-Child Nursing I	7
354-355	Adult Nursing II, III	7-7
363	Psychiatric Nursing	8
402	Public Health Nursing	11
409	Physiological Principles Applied to Nursing	3
411	Selected Problems in Nursing	6
424	Leadership in Nursing	8

OFFICE ADMINISTRATION

Lee Loewen, Chairman; Virginia Mabley, E. Quiring.

The 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.

BACHELOR OF SCIENCE DEGREE—MAJOR REQUIREMENTS:

Major: Office Administration

Secretarial Procedures	208	4
Advanced Typewriting	222, 223	4
Business Machines	262, 263	4
Advanced Shorthand and Transcription	287, 288, 289	9
Business Communications	351, 352	6
Advanced Secretarial Procedures	409	4
The Professional Secretary	418, 419	6
Independent Study	477, 478, or 479	1
Office Administration Seminar	491	1
Electives, upper-division		9
		<hr/> 48

Required Cognates:

Principles of Accounting	Bus. 111, 112	6
Principles of Economics	Bus. 221, 222	6

Students preparing for medical secretarial work should complete the following:

Medical Office Procedures	447	3
Medical Terminology	448	5
*Anatomy and Physiology	Bio. 202, 203	10
*Microbiology	Bio. 222	5

*This sequence will meet the basic science requirement for graduation.

Major: Business Education

*Secretarial Procedures	207, 208	8
Advanced Typewriting	221, 222, 223	6
*Advanced Shorthand and Transcription	287, 288, 289	9
Business Communications	351, 352	6
Advanced Secretarial Procedures	409	4
Methods of Teaching Shorthand and Typewriting	472	4
Methods of Teaching Bookkeeping	475	2
Electives, upper-division, chosen from:		15 or
Office Administration	(15)	<hr/> 53-56
Business and/or Economics	(15)	
Office Administration, Business Administration and/or Economics	(18)	

*Alternate courses in this area accepted with permission of department chairman.

OFFICE ADMINISTRATION

Required Cognates:

Principles of Accounting	Bus. 111, 112, 113	9
Introduction to Information Science	Bus. 153	4
Business Law	Bus. 341, 342	6
Principles of Economics	Bus. 221, 222, 223	9

The student must meet teacher certification requirements as outlined in the publication, *Guidelines for Certification*.

No minor is required for the Bachelor of Science degree.

The following courses do not apply toward a major or minor for the Bachelor of Science degree or as electives for the Associate of Arts degree:

Beginning Typewriting	121, 122, 123
Shorthand Theory	141, 142, 143

OFFICE ADMINISTRATION—MINOR REQUIREMENTS:

Advanced Typewriting	221, 222, 223	6
Business Machines	262, 263	4
*Advanced Shorthand and Transcription	287, 288, 289	9
Advanced Secretarial Procedures	409	4
Electives		7
		<hr/> 30

*This course or a proficiency in Voicescription.

SECRETARIAL, SECRETARIAL ACCOUNTING, MEDICAL SECRETARIAL

The Associate of Arts degree with concentrations in secretarial, secretarial accounting and medical secretarial is offered, requiring the completion of 96 credit hours including certain specified courses. The program is designed to be completed in two years.

The program 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 through the three courses of study described below.

If, after successful completion of this two-year program, the student wishes to continue for the Bachelor of Science degree with a major in office administration or business education, he may do so without loss of credit.

OFFICE ADMINISTRATION

ASSOCIATE OF ARTS DEGREE—REQUIREMENTS:

General Requirements:

College Writing	Eng. 101-102-103	9
Religion		8
Physical Education (service courses)		2
Personal Finance	Bus. 131	2
Electives (from published bachelor's degree general requirements)		<u>12</u>
		33

Concentration: Secretarial

Mathematics of Business	171	2
Secretarial Procedures	207, 208	8
Advanced Typewriting	221, 222, 223	6
Traditions and Practices of Business	235	4
IBM Key Punch	240	1
Business Machines	262, 263	4
Advanced Shorthand and Transcription	287, 288, 289	9
Business Communications	351, 352	6
Applied Office Administration	380	1
Electives from the Department		6
Electives (as approved by department chairman)		10
General Requirements (as listed above)		<u>33</u>
		90

Required Cognates:

Principles of Accounting	Bus. 111	3
Introduction to Information Science	Bus. 153	4

Concentration: Secretarial Accounting

Those wishing a secretarial accounting major will substitute 12 hours of accounting for Advanced Shorthand and Transcription in the secretarial program.

Concentration: Medical Secretarial

Mathematics of Business	171	2
Advanced Typewriting	221, 222, 223	6
Traditions and Practices of Business	235	4
IBM Key Punch	240	1
Business Machines	262, 263	4
Advanced Shorthand and Transcription	287, 288, 289	9
Business Communications	351, 352	6
Applied Office Administration (Clinical)	380	1
Medical Office Procedures	447	3
Medical Terminology	448	5
Electives from the Department		6
General Requirements (as listed above)		<u>33</u>
		80

OFFICE ADMINISTRATION

Required Cognates:

*Anatomy, Physiology	Bio. 202, 203	10
Principles of Accounting	Bus. 111	3
Introduction to Information Science	Bus. 153	4

*Students planning to continue at another institution for Medical Records Librarianship must also complete Biology 222.

TWO-YEAR CERTIFICATE—REQUIREMENTS:

This program constitutes the first two years of the four-year degree program. It is designed for the student who is interested in obtaining basic secretarial skills and early job employment.

If, after successful completion of this two-year program, the student wishes to continue for the Bachelor of Science degree with a major in office administration or business education, he may do so.

Shorthand Theory	141, 142, 143	9
Mathematics of Business	171	2
Secretarial Procedures	207	4
Advanced Typewriting	221, 222, 223	6
Traditions and Practices of Business	235	4
Business Machines	262, 263	4
Advanced Shorthand and Transcription	287, 288, 289	9
Applied Office Administration	380	1

Required Cognates:

College Writing	Eng. 101	3
Religion		6
Electives (in counsel with department chairman)		48
		<hr/> 96

121, 122, 123 BEGINNING TYPEWRITING 2, 2, 2

Introduction to touch typewriting with emphasis on basic theory, speed, accuracy. The first quarter (121) of this course will be offered each quarter and may be taken by anyone for personal-use typewriting. Does not apply toward a major or minor for the Bachelor of Science degree or as an elective for the Associate of Arts degree.

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. Does not apply toward a major or minor for the Bachelor of Science degree or as an elective for the Associate of Arts degree.

171 MATHEMATICS OF BUSINESS 2

Includes the study of payroll mathematics, interest, negotiable instruments, markup, discounts, depreciation, sinking funds, insurance and installment buying.

OFFICE ADMINISTRATION

- 207, 208 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.
- 221, 222, 223 ADVANCED TYPEWRITING** 2, 2, 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.
- 235 TRADITIONS AND PRACTICES OF BUSINESS** 4
The development of the basic traditions and concepts of law in business practices and a study of the impact of consumer decisions upon the American economy with emphasis on the application of economic principles to the solution of the problems of individuals and society in general.
- 240 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.
- 262, 263 BUSINESS MACHINES** 2, 2
Instruction and practice in the use of adding and calculating machines, duplicating machines and voicescription machines.
- 287, 288, 289 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.
- 351, 352 BUSINESS COMMUNICATIONS** 3, 3
A study of the principles basic to effective communication with application to specific problems related to business.
- 380 APPLIED OFFICE ADMINISTRATION** 1-3; 3
For qualified students to gain practical, on-the-job training experience in the following areas: advanced business machines, receptionist and PBX, clinical office practice. One to three credits any quarter; maximum, three credits.
- 400 TOPICS IN OFFICE ADMINISTRATION** 1-3; 6
The study of advanced topics through class activities. One to three credits per quarter; maximum, six credits.

OFFICE ADMINISTRATION

- 409 ADVANCED SECRETARIAL PROCEDURES** 4
A study of the duties and problems of the secretary in business, including the study of personality, office relations and data processing.
- 417, 418, 419 THE PROFESSIONAL SECRETARY** 3, 3, 3
Considers the present and future problems facing the professional secretary including human relations, supervisory responsibilities and office management. The material covered gives the student the necessary background for taking the CPS examination.
- 427 ADVANCED TRANSCRIPTION AND SPEED BUILDING** 4
A course designed to develop speed in shorthand writing with rapid and accurate transcription. Special attention is given to transcribing reports, theses and bibliographies.
- 447 MEDICAL OFFICE PROCEDURES** 3
Designed to acquaint students with the specialized duties of a medical office with emphasis given to the preparation of medical office records.
- 448 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: Biology 202, 203 or equivalent substitution with consent of department chairman.
- 463 Bus. HUMAN RELATIONS IN MANAGEMENT** 4
See Department of Business.
- 463 THE LEGAL SECRETARY** 2
A course designed to acquaint students with legal terminology, preparation of legal documents, court procedures and management of the legal office.
- 472 METHODS OF TEACHING SHORTHAND AND TYPEWRITING** 4
A survey of the objectives, methods and techniques of teaching shorthand and typing in the secondary school. Observation, demonstration and class presentation are required.
- 474 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.
- 475 METHODS OF TEACHING BOOKKEEPING** 2
Consideration of materials and methods in the teaching of bookkeeping in the secondary school. Observation, demonstration and class presentation are required.

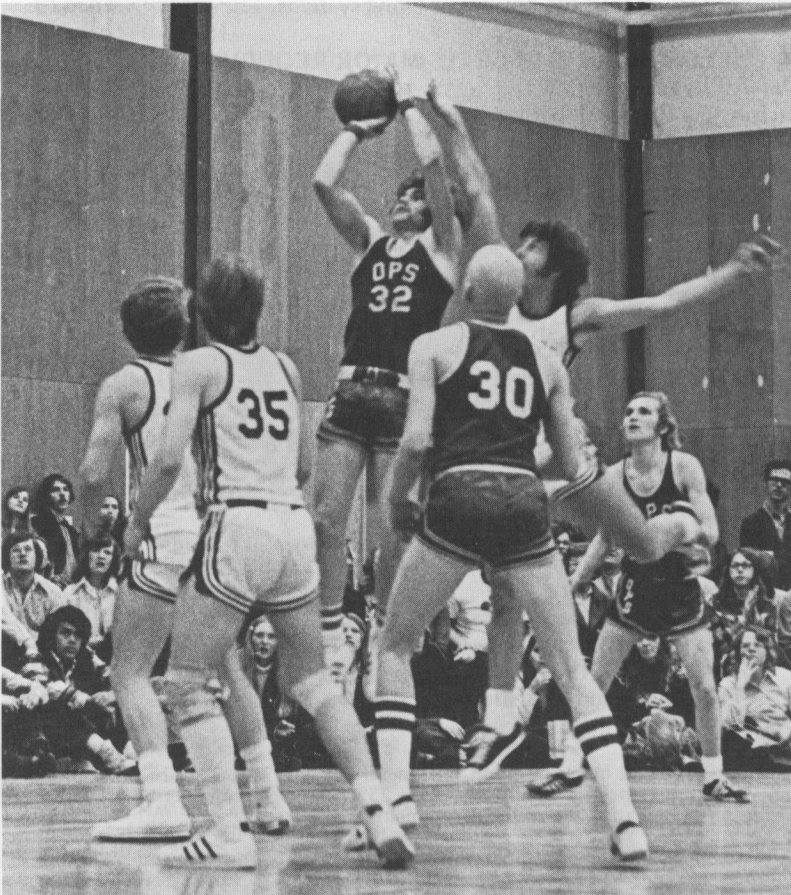
OFFICE ADMINISTRATION

477, 478, 479 INDEPENDENT STUDY IN OFFICE ADMINISTRATION 1-3; 3

Directed, independent study in an approved area of current business or office problems. The student will be required to read widely, follow regular research methods and present a paper showing competence in and extent of his study. Open only to upper-division students. One to three credits any quarter; maximum, three credits.

491 OFFICE ADMINISTRATION SEMINAR 1-3; 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 credits any quarter; maximum, three credits.



PHYSICS

C. Barnett, Chairman; T. Anderson, G. Johnson.

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 publication, *Guidelines for Certification*. 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.

BACHELOR OF ARTS DEGREE—MAJOR REQUIREMENTS:

Major: Physics

Introduction to Experimental Physics	115, 116	2
*Principles of Physics	251, 252, 253	9
Principles of Physics Laboratory	254, 255, 256	3
Introduction to Modern Physics	311, 314	4
Thermodynamics	313	4
Physical Electronics	312, 315	4
Optics Laboratory	316	1
Optics	321, 322	6
Physics Seminar I	317, 318, 319	3
Theoretical Mechanics	362, 363	6
Electricity and Magnetism	401, 402	
Atomic and Nuclear Physics	411, 412, 413	
Physics Seminar II	417, 418, 419	3
		<hr/> 45

Required Cognates:

General Chemistry	Chem. 161-162-163	12
Computer Science I	Engr. 218	2
†Survey of Industrial Operations	IE&T 241, 242	4
Analytic Geometry and		
Calculus I, II, III, IV	Math. 181, 281, 282, 283	16
Probability and Statistics	Math. 311	4

*Students having 9 hours of credit in General Physics, 211, 212, 213, may meet the Principles of Physics, 251, 252, 253, requirements by passing an examination set by the department of physics.

†Other courses involving manipulative skills may be substituted in consultation with the department chairman.

BACHELOR OF SCIENCE DEGREE—MAJOR REQUIREMENTS:**Major: Physics**

Introduction to Experimental Physics	115, 116	2
*Principles of Physics	251, 252, 253	9
Principles of Physics Laboratory	254, 255, 256	3
Introduction to Modern Physics	311, 314	4
Thermodynamics	313	4
Physical Electronics	312, 315	4
Optics Laboratory	316	1
Optics	321, 322	6
Physics Seminar I	317, 318, 319	3
Theoretical Mechanics	362, 363	6
Electricity and Magnetism	401, 402	8
Atomic and Nuclear Physics	411, 412, 413	9
Experimental Physics	414, 415, 416	3
Physics Seminar II	417, 418, 419	3
		<hr/> 65

Required Cognates:

General Chemistry	Chem. 161-162-163	12
Computer Science I	Engr. 218	2
Circuit Analysis I	Engr. 228	4
Instrumentation	Engr. 324	3
or		
Digital Logic Circuits	Engr. 355	4
†Survey of Industrial Operations	IE&T 241, 242	
Analytic Geometry and		
Calculus I, II, III, IV	Math. 181, 281, 282, 283	16
Linear Algebra	Math. 293	3
Probability and Statistics	Math. 311	4
Ordinary Differential Equations	Math. 312	4
Partial Differential Equations	Math. 313	4
or		
Intro. Theory of Complex Variables	Math. 423	

Major: Biophysics**Biology Requirements:**

General Biology	101, 102, 103	12
Genetics	261	4
or		
Developmental Biology	266	4
Cell Physiology	392	

*Students having 9 hours of credit in General Physics, 211, 212, 213, may meet the Principles of Physics, 251, 252, 253, requirements by passing an examination set by the department of physics.

†Other courses involving manipulative skills may be substituted in consultation with the department chairman.

PHYSICS

Animal Physiology	393	}	4
or			
Plant Physiology	401		
or		}	4
Comparative Physiology	468		
General Ecology	446		4
Research Methods I, II, III	351, 352, 453		4
			<hr/> 32

Physics Requirements:

Introduction to Experimental Physics	115, 116	2
Principles of Physics	251, 252, 253	9
Principles of Physics Laboratory	254, 255, 256	3
Introduction to Modern Physics	311, 314	4
Thermodynamics	313	4
Optics Laboratory	316	1
Optics	321, 322	6
Physics Seminar I	317, 318, 319	3
Physics Seminar II	417, 418, 419	3
		<hr/> 35

Required Cognates:

General Chemistry	Chem. 161-162-163	12
Elementary Organic Chemistry	Chem. 321-322-323	} 12
or		
Physical Chemistry	Chem. 351, 352, 353	
Computer Science I	Engr. 218	2
Instrumentation	Engr. 324	} 3
or		
Digital Logic Circuits	Engr. 355	
or		} 3
Biophysics	Bio. 470	
Analytic Geometry and		
Calculus I, I, III, IV	Math. 181, 281, 282, 283	16
Probability and Statistics	Math. 311	4
Ordinary Differential Equations	Math. 312	3

The minor requirements for this degree are met in the cognates listed above. One summer term at the Marine Biological Station is highly recommended.

PHYSICS—MINOR REQUIREMENTS:

A minimum of 27 credits chosen in counsel with the department chairman.

PHYSICS

115, 116 INTRODUCTION TO EXPERIMENTAL PHYSICS 1, 1

The principles and practice of physical measurements, experiment design and evaluation. Prerequisite: Engineering 218. WS

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 non-physics major to acquaint him with the ideas and methods of physics for possible application to problems in other areas of human endeavor. Prerequisites: Mathematics 111, 112, 113 or 121, 122. Physics 211 prerequisite for 212 or 213. Corequisite: 214, 215, 216. AWS

214, 215, 216 GENERAL PHYSICS LABORATORY 1, 1, 1

Laboratory work integrated with 211, 212, 213. AWS

241, 242, 243 GENERAL ASTRONOMY 4, 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. Taught alternate years. AWS

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. Prerequisite: Mathematics 181. Corequisite: 254, 255, 256; Mathematics 281, 282, 283. AWS

254, 255, 256 PRINCIPLES OF PHYSICS LABORATORY 1, 1, 1

Experimental exploration and study of the fundamental concepts of physics. AWS

Physics 251, 252, 253 or equivalent and Mathematics 181, 281, 282, 283 prerequisite for all courses numbered 300 or above except 350, 352, 353, 471.

311 INTRODUCTION TO MODERN PHYSICS 3

Basic principles of quantum theory, atomic and nuclear structure. Corequisite: 314, Mathematics 311. A

312 PHYSICAL ELECTRONICS 3

Physical principles of solid state, gaseous and vacuum electronic devices. Prerequisite: 313. Corequisite: 315. S

PHYSICS

- 313 THERMODYNAMICS** 4
An introduction to the physical theories of equilibrium thermostatics and irreversible thermodynamics based on elementary statistical mechanics. Prerequisite: 311, Mathematics 311. W
- 314 MODERN PHYSICS LABORATORY** 1
Experimental study of the characteristics of alpha, beta and gamma radiation, interaction of radiation with matter, neutron activation. A
- 315 PHYSICAL ELECTRONICS LABORATORY** 1
Experiments in crystal and semiconductor physics, properties of ionized gases, measurement of fundamental physical constants. S
- 316 OPTICS LABORATORY** 1
Experimental study of geometrical and physical optics. W
- 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
- 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. Prerequisite: 302. Corequisite: 316. AS
- 350 PHYSICS AND MODERN LIFE** 3
A study of the relations of physics to modern life in such areas as technology, economics, sociology, fine arts, philosophy and religion. One area is selected for emphasis. No prerequisites. S
- 352, 353 RADIOISOTOPE RESEARCH 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: 211, 212, 213, or Chemistry 161-162-163. Offered alternate years. WS
- 362, 363 THEORETICAL MECHANICS** 3, 3
Statics and dynamics of particles, fluids and rigid bodies, harmonic and orbital motion, Lagrangian and Hamiltonian mechanics. WS

400 TOPICS IN PHYSICS 1-3; 6

The study of advanced topics through class activities. One to three credits per quarter; maximum, six credits.

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

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. Prerequisite: 311, 321. Corequisite: 414, 415, 416. AWS

414, 415, 416 EXPERIMENTAL PHYSICS 1, 1, 1

Experimental investigations in classical and modern physics. AWS

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 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

471 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.

477, 478, 479 INDEPENDENT STUDY IN PHYSICS 1-3; 3

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 showing competence in and extent of his study. Open only to majors and minors. Permission from the chairman of the department required. One to three credits any quarter; maximum, three credits.

THEOLOGY, SCHOOL OF

G. Balharrie, Dean; J. Brunt, E. Bursey, J. Grove, C. Hartnell, Lucile Knapp
L. Lewis, M. Maxwell, 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 are recommended as prerequisite for the 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 planning on additional graduate training in such fields as medicine, dentistry and law.

All majors must successfully complete a senior comprehensive examination. 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 publication, *Guidelines for Certification*, and they should consult the dean of the school of theology about courses required as early as possible in their college career.

BACHELOR OF ARTS DEGREE—MAJOR REQUIREMENTS:

Major: Theology

Ministerial Orientation	150	0
Theology I	141, 142, 143	9
Theology II	221, 222, 223	9
Development of the Christian Church	371, 372	4
Seminar in Theology	412, 413	4
Electives (counsel with department adviser)		32
		<hr/> 58

Required Cognates:

Greek I	Bib.Lang. 101-102-103	15
Greek II	Bib.Lang. 221, 222, 223	9
History of Civilization	Hist. 101, 102, 103	9
Fundamentals of Speech	Comm. 101-102	4

THEOLOGY

Pulpit Address	Comm. 381, 382	6
Communication electives		2
Philosophy of Science	Bio. 407	3

Major: Religion

Orientation for Religion Majors	250	0
Seminar in Religion	411	2
Electives (counsel with department adviser)		48
		<hr/> 50

Major: Biblical Languages

Greek I	101-102-103	15
Greek II	221, 222, 223	9
Doctrinal Epistles of Paul	341, 342, 343	6-12
Later Epistles of Paul	344, 345, 346	
Pastoral and General Epistles	347, 348, 349	
Hebrew I	441, 442, 443	9
Hebrew Reading	451, 452, 453	0-6
Textual Criticism of the New Testament	461, 462	
Translation Problems	463	
Independent Study in Biblical Languages	477, 478, 479	<hr/> 45

Required Cognates:

A Scientific Approach to Biblical Interpretation	444	2
Biblical Archaeology	445	2
The History of the English Bible	446	2
Ancient Mediterranean Civilizations	Hist. 461	3
or		
Development of the Christian Church	Theo. 371	

RELIGION—MINOR REQUIREMENTS:

A minimum of 30 credits, at least 9 of which must be upper-division.

BIBLICAL LANGUAGES—MINOR REQUIREMENTS:

A minimum of 30 credits, at least 6 of which must be in upper-division language courses. Theology 371; 444, 445, 446 and History 461 are recommended.

BIBLICAL STUDIES

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.

THEOLOGY

- 104, 105, 106 LIFE AND TEACHINGS OF JESUS** 2, 2, 2
A study of the life of Christ, His teachings, His methods, and the principles of His kingdom as they apply to life in the world today. *Those having had Theology I should not register for this course without special permission.*
- 111 MESSAGE OF THE OLD TESTAMENT** 4
A survey of the basic themes of the Old Testament.
- 141, 142, 143 THEOLOGY I** 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 theology majors. Must be taken in sequence.
- 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.
- 201, 202, 203 FUNDAMENTALS OF CHRISTIAN BELIEF** 2, 2, 2
An introductory course in the evidences and principles of Christianity, consisting of a study of the basic concepts of religious faith and practice, and a survey of the fundamental doctrines as taught in the Bible.
- 211 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.
- 221, 222, 223 THEOLOGY II** 3, 3, 3
This course consists of a thorough study of the basic teachings of the Bible. Students will be required to organize their concepts of Bible doctrines and teach them to others, in groups and individually, in class and community. Lectures, discussion and seminar methods will be employed. Open only to theology majors. Those having had Fundamentals of Christian Belief should not register for this course without special permission.
- 250 ORIENTATION FOR RELIGION MAJORS** 0
A departmental course to orient the student to the field of religion. Emphasis will be given to the relationship between the student's college program and his chosen life work. Required of all religion majors.
- 257, 258, 259 THE PAULINE LETTERS** 2, 2, 2
An exegetical examination of each of Paul's letters within its historical

context to determine the particular message of each, the literary devices employed to convey this message and its relevance for today.

321 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.

322 THE 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.

351 PENTATEUCH 3

An exegetical examination of significant passages in Pentateuch. Attention is given to the historical setting, authorship, time, circumstance of writing and other literary questions.

352 WRITINGS 3

An exegetical examination of the historical and poetic books of the Bible. Attention is given to authorship, the time and circumstance of writing, and other literary questions.

353 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.

364, 365, 366 HEBREW PROPHETS 3, 3, 3

A study of the major and minor prophets 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. Course 364 prerequisite to 365 or 366.

384 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.

****411 SEMINAR IN RELIGION 2**

This seminar involves intensive individual study, written reports and group discussion on assigned Biblical topics and contemporary theological and ethical issues. Open only to religion majors.

**Does not meet the basic religion requirements.

THEOLOGY

****412, 413 SEMINAR IN THEOLOGY 2, 2**

These seminars involve intensive individual study, written reports and group discussion on assigned Biblical topics and contemporary theological and ethical issues. Open only to theology majors who are advanced to candidacy.

426 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.

464, 465, 466 NEW TESTAMENT EPISTLES 3, 3, 3

An exegetical study of the epistles of the New Testament, with attention being given in each case to the introductory matters. This course is intended for theology students although it is open to others with a mature background in Bible. If a student has taken 257, 258, 259, entrance to this course is only by permission of the instructor.

467, 468, 469 THE 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.

****477, 478, 479 INDEPENDENT STUDY IN RELIGION 1-3; 3**

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 showing competence in and extent of his study. Open only to majors and minors. Permission from the chairman of the department required. One to three credits any quarter; maximum, three credits.

CHRISTIAN PHILOSOPHY

330 CONTEMPORARY CHRISTIAN ETHICS 2

A study of Biblical ethics in relation to current ethical views on conduct and behavior.

341, 342 SPIRIT OF PROPHECY 2, 2

A study of inspiration and revelation as given by God to meet the needs of man and their function through the centuries. Emphasis in the second quarter will be placed on the gift of prophecy as seen in the ministry of Ellen White. Must be taken in sequence.

****Does not meet the basic religion requirements.**

343 DENOMINATIONAL HISTORY 2

A study of the rise and development of the Seventh-day Adventist denomination.

421 INTRODUCTION TO PHILOSOPHY 2

A course designed to acquaint the beginner with the vocabulary, methods and concerns of philosophy. Study is made of the living issues facing mankind and the efforts of philosophy to provide answers to these major human problems.

422 PHILOSOPHY OF RELIGION 2

A constructive study of religious feeling, thought and practice from a philosophical point of view. Attention is especially given to the fundamental reasoning underlying the Christian faith in general and the beliefs of Seventh-day Adventists in particular. Prerequisite: 421.

423 CONTEMPORARY PHILOSOPHY 2

A critical examination of the significant philosophical thinking of our time. The theories of naturalism, idealism, realism, pragmatism, logical empiricism, existentialism and other related movements will receive careful scrutiny. This comparative survey of twentieth-century systems is designed to assist the student in relating and communicating to the present civilization. Prerequisite: 421.

427, 428 CHRISTIAN DYNAMICS 3, 3

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. One lecture, one discussion, one laboratory period each week.

429 STUDIES IN CHRISTIAN DYNAMICS 2

A survey of research methods combined with individual, independent study carried out under the direction of the instructor. A representative paper will be required in which the student must show competence in study and research on an independent basis. Registration by permission of the instructor. Prerequisite: 427, 428.

ARCHAEOLOGY AND RELIGIOUS HISTORY**371, 372 THE DEVELOPMENT OF THE CHRISTIAN CHURCH 3, 3**

A course on the rise and development of Christianity from the apostolic age to modern times.

402 MODERN DENOMINATIONS 3

This course deals with the cardinal teachings of a number of the promi-

THEOLOGY

- nent religions of the world. Comparisons are made of the teachings relating to God, salvation, sin and the future.

403 WORLD RELIGIONS 3

A short study of the greater religions of mankind, such as Animism, 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.

444 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.

445 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.

446 THE 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.

APPLIED THEOLOGY

112 THEOLOGY OF CHRISTIAN WITNESSING 3

A study of the theology and methodology of the individual Christian witness in a contemporary world.

383 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.

393 CHURCH LEADERSHIP 3

A course for the nontheology student to acquaint him with the operation of the church so that, as an informed layman, he may participate effectively in its operation.

400 TOPICS IN THEOLOGY 1-3; 6

The study of advanced topics through class activities. One to three credits per quarter; maximum, six credits.

410 HOSPITAL MINISTERIAL TRAINING 2 or 6

This course is offered as a seminar at the Portland Adventist Hospital 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 credits, Walla Walla General Hospital; six credits, Portland Adventist Hospital.)

442 PERSONAL EVANGELISM 2

A course designed for students desiring to learn methods of individual religious instruction, the techniques of meeting objections, and the art of securing decisions. The preparation and giving of Bible studies will be featured. Special attention given to junior and youth evangelism.

447 PUBLIC EVANGELISM 3

Advanced study in the art of preaching with particular emphasis upon Bible exposition. Detailed attention will be given to the various phases of evangelistic work including advertising and the planning of public meetings. This course is definitely designed for young men who desire to make the gospel ministry their vocation. Admission to the class will be upon the recommendation of the professor. Prerequisite: Communications 381, 382.

460 FIELD EVANGELISM 1-3; 3

Experience in evangelistic techniques is obtained by giving Bible studies and/or holding meetings. One to three credits any quarter; maximum, three credits.

471 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.

472 PASTORAL COUNSELING 3

The basic principles of counseling studied from the perspective of the pastor.

473 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.

THEOLOGY

BIBLICAL LANGUAGES

101-102-103 GREEK I 5-5-5

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.

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.

341, 342, 343 DOCTRINAL EPISTLES OF PAUL 2, 2, 2

An exegetical study of the great doctrinal epistles of Paul. Selections from the letters to the Thessalonians, Corinthians, Romans and Galatians are especially studied as examples of the apostle's theological writings.

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, Philipians and Colossians are studied as typical of this period of the apostle's life.

347, 348, 349 PASTORAL AND GENERAL EPISTLES 2, 2, 2

An exegetical study of the Pastoral Epistles and the General or "Catholic" Epistles. Selections are studied from Paul's epistles to Timothy and Titus, and from the epistles of Peter, James and Jude.

441-442-443 HEBREW I 3-3-3

An introductory course in Biblical Hebrew. Emphasis is placed upon an intensive study of the grammar of this ancient language. The student is taught the ability to read from the Hebrew Bible and to use lexical materials. Taught alternate years.

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.

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.

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.

477, 478, 479 INDEPENDENT STUDY IN BIBLICAL LANGUAGES**1-3; 3**

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 showing competence in and extent of his study. Open only to majors and minors. Permission from the department chairman required. One to three credits any quarter; maximum, three credits.



THEODORE



THEODORE

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 credits	\$ 53 (per credit)
13-16 credits	686 (per quarter)
above 16	44 (additional per credit)

Residence hall students will be charged a minimum of \$636 per quarter tuition except seniors in their final quarter who need less than 12 credits to graduate.

GENERAL FEE. A general fee of \$25 per quarter is charged students registered for six or more credits which provides student association membership, dormitory or village club membership, health service, ID card and a lyceum ticket.

AUDITING. Regular tuition is charged for auditing classes.

CHALLENGE EXAMINATION CREDITS. One-half tuition is charged for credits received by challenge examinations.

CLEP EXAMINATION CREDITS. A tuition fee of \$10 per credit hour is charged for credits received from College Level Examination Program (CLEP).

TUTORING. Triple tuition is charged for individual tutoring.

PAYMENTS REQUIRED TO REGISTER. An advance payment of \$400 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 \$400.

FAMILY DISCOUNTS

A ten percent discount will be allowed on tuition for each child when three or more single children from one family are in attendance 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, stationery, gym suits and equipment and other materials needed for schoolwork may be obtained at the College Store at reasonable prices. **THESE ITEMS ARE TO BE PAID FOR IN CASH AT THE TIME OF PURCHASE.** Parents should allow the student \$50 to \$75 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 Fee (not refundable)	\$10.00
Aviation (as announced)	
Change of program, per subject	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
Late Registration	15.00
Special Examination	5.00
Transcript, first copy	free
Additional copies each	1.00
Validating Examination Fee—per quarter credit	2.00

MUSIC FEES

Music lessons are offered on either a credit or non-credit basis. Where credit is desired, regular tuition is charged, and in addition a music fee of \$25, except for those music majors who have enrolled for Music Theory II.

Students not desiring credit will be charged as follows:

Half-hour lesson	\$ 53.00
One-hour lesson	106.00
Private lessons from a student	44.00

Rentals:

Practice room	\$12.00
(per quarter for students desiring practice only)	
Organ	25.00
(per quarter for students desiring practice only)	
Band or orchestral instrument	10.00
(per quarter for students desiring lessons and not possessing their own instrument)	

PHYSICAL EDUCATION FEES

Aquatics	\$25.00
Archery	5.00
Canoeing	10.00
Ceramics	20.00
Fencing	5.00
Golf	10.00
Horsemanship	30.00
Lapidary	10.00
Mountaineering	10.00
Sailing	10.00
SCUBA Diving	10.00
Skating	13.50
Skiing (Spout Springs)	30.00
Skiing (Anthony Lakes)	35.00

RESIDENCE HALL EXPENSES

Where there is dual occupancy, the room rental charge for each student per quarter is:

Conard Hall	\$150
Foreman Hall	160
Sittner Hall	150
Whitman Lodge	150-175

The above charge includes laundry service up to \$4 per month.

When rooms are available, single occupancy is permitted at an extra charge of \$30 per quarter.

Dormitory students should *not* bring their own laundry bags, as special bags will be provided by the College. Name tapes are recommended on clothing sent to the College Laundry.

Telephone service is provided in dormitory rooms at a cost of \$10 per student occupant per quarter.

PERSONAL PROPERTY LOSS. The College cannot accept responsibility for any loss of or damage to the personal property of any student.

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.

AUTOMOBILE PARKING FEE. Residence hall students bringing automobiles with them will be charged a fee of \$5 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: 90% during first week of quarter
- 75% between first and third weeks
- 50% between third and sixth weeks
- No tuition is refunded after the sixth week

Room Rent: 80% during first two weeks of quarter
50% between third and fifth weeks
30% between sixth and 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—ACCIDENT AND HOSPITALIZATION

Student accident and hospital insurance is carried by the College under a blanket policy for all students enrolled for six or more quarter credits. The premium of \$40 is charged on the student's September statement of account and provides coverage for 12 months whether or not the student remains in school for the full period of coverage. Information describing coverage and claim procedures will be supplied each student. 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.

RELEASE OF TRANSCRIPTS OR DEGREES

By action of the Board of Trustees of the College, a degree 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.

INQUIRIES

Inquiries concerning student financial matters should be directed to the student finance office, and those concerning academic or instructional program or admission should be directed to the office of admissions and records.

FINANCIAL AIDS

STUDENT LABOR. Walla Walla College has year-round campus work opportunities, including work in Harris Pine Mills, College Place Plant, located on the campus, to help students earn a portion of their school expenses. These opportunities, while not unlimited, are many, and ordinarily take care of most students who need part-time employment. Students needing employment should seek their assignment through the student finance office.

Students should not plan to earn all their expenses as there needs to be a balance between work and study. Students of average ability will find 8-12 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:

\$200 per year
Nonrenewable

\$300-\$500 per year
Nonrenewable

\$2,000 per year
Renewable

ENTERING FRESHMAN ACHIEVEMENT AWARD.

The College awards a \$200 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 student finance.

NATIONAL MERIT SCHOLARSHIPS. The College will award scholarship 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.

NURSING STUDENT SCHOLARSHIPS. The United States Department of Health, Education and Welfare annually makes available a limited number of scholarships.

Applicants must be nursing students who are United States citizens. The College will give first consideration to the financial need of applicants rather than high academic achievement in making these awards. To qualify, a student must have *exceptional* financial need as evidenced by submission of a Parents' Confidential Statement (PCS). PCS's are available through the student finance office and should be submitted by June 1.

Variable

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, c/o Walla Walla College, College Place, WA 99324.

Variable

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.

\$700 per year
Renewable

YOUTH SERVICE OPPORTUNITIES. The College, in cooperation with the youth department of the North Pacific Union and the local conferences, makes available \$700 scholarships for students participating in the Youth Services Opportunities program during the summer. Service opportunities will be 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.

\$1,350 per year
and tuition waiver

MAXIMUM GRANT:

SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT. A limited number of undergraduate grants are available to qualified students. 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 student and have *exceptional* financial need as evidenced by submission of a Parents' Confidential Statement (PCS).

\$1,500 per year
Renewable

PCS's are available through the student finance office and should be submitted by June 1.

\$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 student finance office. The cut-off date for submitting applications to the College is April 1.

\$650

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 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.

Application forms consist of a Parents' Confidential Statement (PCS) and may be obtained from the student finance office.

\$750

Nonrenewable

FRESHMAN EMPLOYMENT GRANT. The North Pacific Union Conference of Seventh-day Adventists and Walla Walla College jointly provide funds for this grant. Applicants must be entering freshmen and 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 Parents' Confidential Statement (PCS) 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 campus from October through and including May.

\$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 student finance office.

\$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 full time (12 hours or more) and have need according to a formula established by DHEW. For the 1974-75 school year applicants must have been first-time college students after April 1, 1973. 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

EDUCATIONAL FUNDS, INCORPORATED. For students and parents desiring to pay education expenses in monthly installments, a low-cost deferred-payment program is available through Education Funds, Inc. E.F.I. contracts run for a maximum of twelve months, and must be renewed each school year. Parents desiring further information concerning this deferred payment plan should contact the student finance office or Education Funds, Inc., 36 South Wabash, Room 1000, Chicago, Illinois 60603.

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 student finance office or Richard C. Knight, Insurance Agency, Inc., Insured Tuition Payment Plan, 6 St. James Avenue, Boston, Massachusetts 02116.

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

ALASKAN 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

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. To obtain an interest-subsidized loan, dependent students must submit a Parents' Confidential Statement (PCS); independent students must submit a Student Financial Statement (SFS). Consult the loan officer of your bank for additional information.

Applications (PCS and SFS) are available through the student finance 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 Parents' Confidential Statement (PCS). Priority in awarding this aid is given to students with the greatest financial needs. Repayments begin after the applicant's student status terminates.

PCS's are available through the student finance office and should be submitted by June 1.

\$2,500 per year
Renewable

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 Parents' Confidential Statement (PCS). 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.

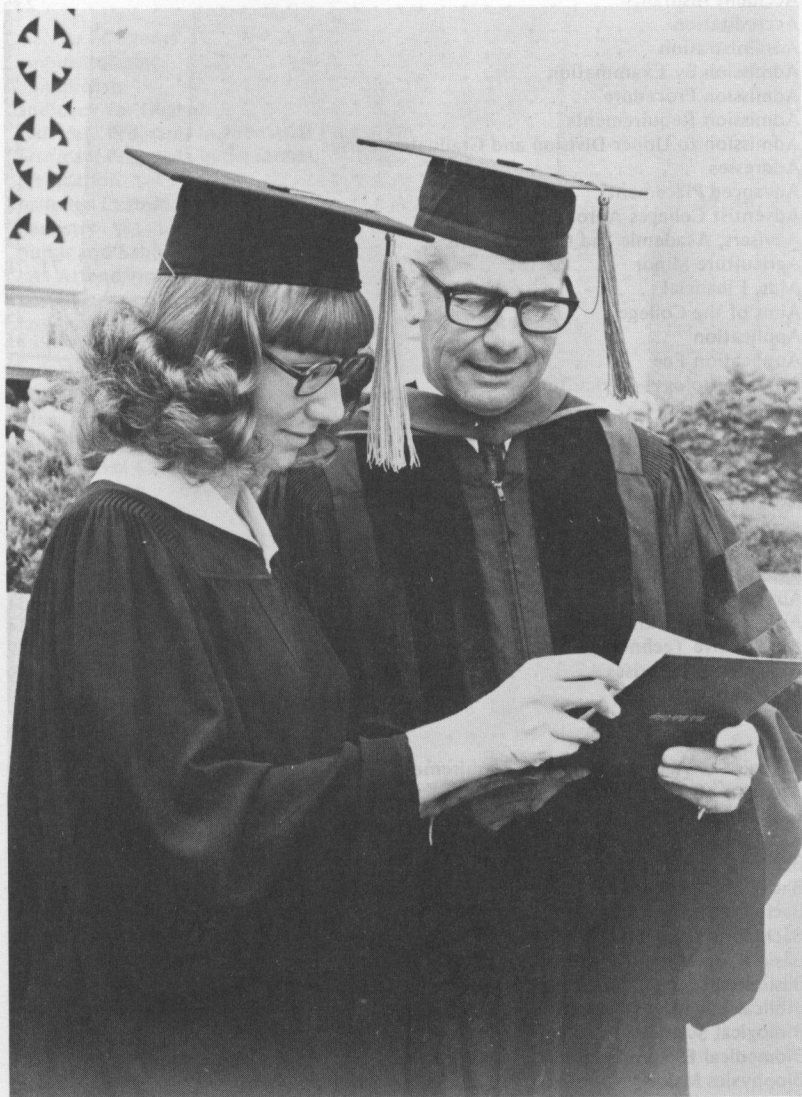
PCS's are available through the student finance office and should be submitted by June 1.

\$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. To obtain an interest-subsidized loan, dependent students must submit a Parents' Confidential Statement (PCS); independent students must submit a Student Financial Statement (SFS).

Applications (PCS and SFS) are available in the student finance office.

OTHER LOANS. Walla Walla College has several short-term emergency loan funds available. Repayments begin during the year in which the loans are made. Additional information is available in the student finance office.



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