### MAJOR AREAS OF STUDY

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<td>Theology</td>
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Based on broad studies in the humanities, basic science, mathematics, social science and the Christian heritage.
The College is Accredited by

The Northwest Association of Secondary and Higher Schools

The Washington State Board of Education

Department of Baccalaureate and Higher Degree Programs of the National League for Nursing

National Association of Schools of Music

is a member of

Association of American Colleges

Association of Seventh-day Adventist Colleges and Secondary Schools

Council of Member Agencies, Department of Baccalaureate and Higher Degree Programs of the National League for Nursing

American Council on Education

National Commission on Accreditation

is approved by

U.S. Government for the training of veterans under the G.I. Bills 550 and 894

The Attorney General of the United States for nonimmigrant students

Washington State for training in Vocational Rehabilitation
FOR INFORMATION

Concerning general information, bulletins, application blanks, viewbooks, student handbooks, etc., write

The Registrar

Concerning work, financial arrangements, and apartments, write

Finance Counseling Office

Concerning room reservations and other matters of residence, write

The Dean of Men or
The Dean of Women

WALLA WALLA COLLEGE
College Place, Washington 99324

Telephone

Walla Walla
JACKson 5-7560
Area Code 509
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CALENDAR, 1964-65

AUTUMN QUARTER

September 20—Sunday All students arrive, Orientation and Registration
September 21—Monday Registration, Tests, Orientation
September 22—Tuesday Registration, Tests, Orientation
September 23—Wednesday Instruction begins, 7:30 a.m.
October 7 Last day to add a course
October 27 Midquarter
November 4 Last day to drop a course
November 25 (1:00 p.m.)—Nov. 29 (10:00 p.m.) Thanksgiving Recess
December 6-9 Registration for Winter Quarter
December 14, 15, 16 Final Examinations
December 16—Wednesday (6:00 p.m.) Quarter ends
December 16—(6:00 p.m.)—Jan. 3 (10:00 p.m.) Christmas Recess

WINTER QUARTER

January 3—Sunday Registration of new students
January 4—Monday Instruction begins, 7:30 a.m.
January 15 Last day to add a course
February 5 Midquarter
February 14 Last day to drop a course
March 7-10 Registration for Spring Quarter
March 15, 16, 17 Final Examinations
March 17—Wednesday (6:00 p.m.) Quarter ends
March 17 (6:00 p.m.)—March 22 (10:00 p.m.) Spring Recess

SPRING QUARTER

March 22—Monday Registration of new students
March 23—Tuesday Instruction begins, 7:30 a.m.
March 29 and 30 Graduate Record Examinations
April 7 Last day to add a course
April 27 Midquarter
May 2 Last day to drop a course
June 1, 2, 3, Final Examinations
June 4—Friday (6:00 p.m.) Quarter ends
June 4—Friday (8:00 p.m.) Senior Consecration
June 5—Saturday (11:00 a.m.) Baccalaureate
June 6—Sunday (10:00 a.m.) Commencement
## ADMINISTRATION

### BOARD OF TRUSTEES

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<tbody>
<tr>
<td>C. A. Scriven</td>
<td>Chairman</td>
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<tr>
<td>P. W. Christian</td>
<td>Secretary</td>
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<tr>
<td>A. W. Speno</td>
<td>Treasurer</td>
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<td>E. E. Bietz</td>
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<td>Clyde Harris</td>
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### OFFICERS OF ADMINISTRATION

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<tr>
<td>Percy W. Christian</td>
<td>President of the College</td>
</tr>
<tr>
<td>Robert H. Brown</td>
<td>Vice President</td>
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<tr>
<td>Hans L. Rasmussen</td>
<td>Academic Dean</td>
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<tr>
<td>Thomas W. Walters</td>
<td>Dean of Students</td>
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<tr>
<td>Arthur W. Speno</td>
<td>Business Manager</td>
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<tr>
<td>Orpha N. Osborne</td>
<td>Registrar</td>
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<tr>
<td>Lena B. Silver</td>
<td>Librarian</td>
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<tr>
<td>Richard Fearing</td>
<td>Chaplain</td>
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<tr>
<td>M. S. Culver</td>
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<td>Helen Ward Evans</td>
<td>Dean of Women</td>
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<td>Gordon S. Balharrie</td>
<td>Dean, School of Theology</td>
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<td>Wilma L. Leazer</td>
<td>Dean, School of Nursing</td>
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### ASSOCIATES IN ADMINISTRATION

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<tr>
<td>Kathryn Andrews</td>
<td>Assistant Registrar</td>
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<tr>
<td>Marguerite Shopshire Aplington</td>
<td>Accountant</td>
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<tr>
<td>June Bishop</td>
<td>Dietician</td>
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<td>Evelyn Christison</td>
<td>Director of Health Service</td>
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<tr>
<td>Ella-Belle Sargeant Groves</td>
<td>Library Assistant</td>
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<td>Kenneth E. Groves</td>
<td>Assistant Business Manager</td>
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<td>R. H. Kooreny</td>
<td>Ass’t. Manager, Vocational Departments</td>
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<tr>
<td>Mae Macklin Lay</td>
<td>Public Relations Secretary</td>
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<td>Jimmie D. Losey</td>
<td>College Physician</td>
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<td>Genevieve Iles McCormick</td>
<td>Assistant Dean of Women</td>
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<tr>
<td>Marie McNiel</td>
<td>Dean of Women, Clinical Division</td>
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<tr>
<td>Howard I. Osborne</td>
<td>College Physician, Clinical Division</td>
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<td>Gertrude V. Pyke</td>
<td>Associate Librarian and Associate Registrar, Clinical Division</td>
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<tr>
<td>Esther Reinmuth</td>
<td>Library Assistant</td>
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<td>Myrtle E. Rowe</td>
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<td>Director of Student Finance</td>
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<td>Wilmer Snyder</td>
<td>Director of Food Service</td>
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<td>Director of Health Service Clinical Division</td>
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<td>Mary Saxman Thayne</td>
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<td>Joy Uehlin, M. L.</td>
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<td>Norman Woods, B. A.</td>
<td>Assistant Dean of Men</td>
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THE FACULTY

PROFESSORS EMERITI

ALCOCK, HERBERT J., Emeritus Professor of Religion
B. A., 1927, B. Th., 1927, Emmanuel Missionary College; M. A., 1942, Michigan State University

BOWERS, GEORGE W., Emeritus Professor of Chemistry
B. A., 1917, Union College; M. A., 1924, Ph. D., 1935, University of Nebraska; LL. D., 1956, Walla Walla College

LOSEY, LEON B., Emeritus Professor of Agriculture
B. A., 1921, Walla Walla College; M. S., 1939, Oregon State College

MILLER, LULU HILL, Emeritus Professor of Art
B. A., 1911, Union College; M. S., 1917, Whitman College; Ed. D., 1934, George Washington University; LL. D., 1957, Walla Walla College

SMITH, WALTER I., Emeritus Professor of Education
B. A., 1911, Union College; M. S., 1917, Whitman College; Ed. D., 1934, George Washington University; LL. D., 1957, Walla Walla College

STOEHR, HENRIQUE G., Emeritus Professor of Modern Languages
B. A., 1948, Walla Walla College, Dr. U.P., 1952, University of Paris

WESTERMEYER, HARRY E., Emeritus Professor of History
B. A., 1917, Clinton Theological Seminary; M. A., 1934, College of the Pacific; Ph. D., 1946, Stanford University

PROFESSORS

APLINGTON, KENNETH A., Professor of English
B. A., 1935, Walla Walla College; M. A., 1942, University of Washington

BALHARRE, GORDON S., Professor of Religion

BARNETT, CLAUDE C., Professor of Physics
B. S., 1932, Walla Walla College; M. S., 1936, State College of Washington; Ph. D., 1960, Washington State University

BROWN, ROBERT H., Professor of Physics
B. A., 1940, Union College; M. S., 1942, University of Nebraska; Ph. D., 1950, University of Washington

CHAMBERS, JAMES R., Professor of Chemistry
B. A., 1939, Columbia Union College; M. S., 1949, Western Reserve University; Ph. D., 1956, Agricultural and Mechanical College of Texas

CHRISTIAN, PERCY W., Professor of History
B. A., 1926, Broadview College; B. S., 1928, Lewis Institute; M. A., 1929, Ph. D., 1935, Northwestern University

CROSS, EDWARD F., Professor of Engineering
M. E., 1929, Stevens Institute of Technology; M. A., 1936, Columbia University; Ph. E., 1948, Washington; P. E., 1952, Oregon

HAFFNER, JOHN J., Professor of Music
B. A., 1941, Emmanuel Missionary College; M. Mus., 1949, Chicago Musical College

*HANSON, FREDRICK R., Professor of Nursing
R. N., 1938, Mason Memorial Hospital; B. A., 1932, Walla Walla College; M. A., 1942, University of Washington

JONES, CARL T., Professor of Chemistry
B. A., 1933, Columbia Union College; M. S., 1939, Catholic University of America; Ph. D., 1959, Oregon State College

LEAZER, WILMA L., Professor of Nursing
R. N., 1944, Portland Sanitarium and Hospital; B. S. Nursing Education, 1947, Columbia Union College; M. S., 1958, Loma Linda University

*Leave of absence current year.

9
LITKE, RICHARD L., Professor of Biblical Languages
B. A., 1948, Walla Walla College; B. A., 1953, M. A., 1953, University of California; Ph. D., 1959, Yale University

MANALAYSAY, REUBEN G., Professor of Education

MECKLING, FRANK E., Professor of History
B. A., 1929, Columbia Union College; M. A., 1931, University of Maryland; Ph. D., 1950, University of California at Los Angeles

OWEN, BLYTHE, Professor of Music
B. M., 1941, Chicago Musical College; M. M., 1942 Northwestern University; Ph. D., 1953, Eastman School of Music of the University of Rochester

RASMUSSEN, HANS L., Professor of Education
B. A., 1937, Emmanuel Missionary College; M. A., 1943, University of Michigan; Ed. D., 1946, Stanford University

RHODES, J. WESLEY, Professor of Education
B. A., 1931, Emmanuel Missionary College; M. Mus., 1947, Northwestern University; Ed. D., 1957, Columbia Teachers College

SILVER, ROBERT E., Professor of Education

SORENSON, AGNES L., Professor of Modern Languages
B. A., 1923, Emmanuel Missionary College; M. A., 1929, University of Michigan

TRAUTWEIN, CALVIN L., Professor of Industrial Education
B. A., 1945, La Sierra College; B. S., 1950, Pacific Union College; Ed. M., 1955, Oregon State College; Ed. D., 1962, Colorado State College

WEST, MELVIN K., Professor of Music
A. B., 1952, Emmanuel Missionary College; M. Mus., 1955, Redlands University; Mus. A. D., 1959, Boston University; F. A. C. O., 1957

WINTER, EUGENE S., Professor of Physical Education
B. A., 1941, Walla Walla College; M. S., 1948, State College of Washington; Ph. D., 1963, University of Oregon

ASSOCIATE PROFESSORS

BURNS, J., R., Associate Professor of English
B. A., 1956, Honours B. A., 1959, University of South Africa

DAVIS, MELVIN W., Associate Professor of Music
B. A., 1949, College of the Pacific; M. Mus., 1954, Chicago Musical College

GROVE, J. PAUL, Associate Professor of Religion

LUDGATE, T. K., Associate Professor of Religion
B. A., 1942, Columbia Union College; M. A., 1945, Theological Seminary, Andrews University

MANALAYSAY, RAQUEL, Associate Professor of Education
B. S. E., 1942, Philippine Union College; M. Ed., 1954, University of the Philippines; Ed. D., 1957, Indiana University

MASDEN, GLENN W., Associate Professor of Engineering
B. S. E. E., 1955, M. S. E. E., 1958, University of Colorado

MEHLING, J. G., Associate Professor of Business and Economics

MOORE, ROBERTA J., Associate Professor of Journalism
B. A., 1948, Atlantic Union College; M. A., 1953, Boston University

NOEL, ROBERT L., Associate Professor of Engineering

*PENNER, JONATHAN G., Associate Professor of Speech
B. A., 1944, Emmanuel Missionary College; M. S., 1958, Ph. D., 1962, Purdue University

PIERCE, L. CHARLES, Associate Professor of Modern Languages
B. A., 1948, Mexico City College; M. A., 1949, University of Maryland

*Leave of absence current year.
RITTENHOUSE, EVELYN, Associate Professor of Secretarial Science  
B. A., 1943, Pacific Union College; M. S., 1951, University of Southern California

SCHLOTTHAUER, LILAH GODFREY, Associate Professor of Mathematics  
B. A., 1923, Walla Walla College; M. S., 1934, University of Washington

SHANKEL, CECIL W., Associate Professor of Chemistry  
B. A., 1924, Walla Walla College; M. A., 1926, University of Nebraska

WALTERS, THOMAS W., Associate Professor of Social Science  

WRIGHT, EVELYNNE F., Associate Professor of Home Economics  
B. A., 1941, Pacific Union College; M. S., 1953, Oregon State College

ZOLBER, KATHLEEN KEEN, Associate Professor of Home Economics  
B. S., 1941, Walla Walla College; M. A., 1961, Washington State University

ASSISTANT PROFESSORS

BARNES, JOSEPH N., Assistant Professor of Religion  

BURGESEON, RUTH E., Assistant Professor of English  
B. A., 1951, M. A., 1957, Pacific Union College

CANADAY, LEWIS H., Assistant Professor of Industrial Education  

COLE, JON, Assistant Professor of Engineering  
B. S. C. E., 1961, Illinois Institute of Technology

DAHLBECk, RUSSELL M., Assistant Professor of Physical Education  
B. S., 1950, Walla Walla College; M. S., 1958, University of Washington

EICHERN, DONALD, Assistant Professor of Political Science  
B. A., 1951, Walla Walla College; M. A., 1958, Andrews University

*EMERY, BEATRICE L., Assistant Professor of Biology  
B. A., 1943, Walla Walla College; M. S., 1948, University of Nebraska

EVANS, HELEN WARD, Assistant Professor of English  

*GIEBELHOUSE, FLOSSIE CASE, Assistant Professor of Nursing  
R. N., 1943, Loma Linda University; B. S., 1947, Pacific Union College; M. S., 1962, University of Washington

HARE, GORDON B., Assistant Professor of Mathematics  
B. A., 1951, Columbia Union College; M. S., 1954, University of Colorado

HOLLAND, TERESA, Assistant Professor of Medical-Surgical Nursing  
B. S., 1961, Walla Walla College; M. S., 1962, Loma Linda University

JONES, LUCILE HALL, Assistant Professor of Health Education  
R. N., 1933, Florida Sanitarium and Hospital; B. S. N. Ed., 1936, Columbia Union College; M. S., 1955, Oregon State College; M. A., 1956, Walla Walla College

*JONES, RALPH L., Assistant Professor of Business  

LENO, H. LLOYD, Assistant Professor of Music  
B. A., 1948, Walla Walla College; M. A., 1954, Columbia Teachers College

LEONIE, ANDREW, Assistant Professor of Education  
B. A., 1952, Union College; M. Mus., 1958, Lewis and Clark College

MACKINTOSH, KENNETH R., Assistant Professor of Art  
M. F. A., 1961, Otis Art Institute

RANDOLPH, RICHARD D., Assistant Professor of Music  
B. S., 1952, Union College; M. Mus., 1958, Lewis and Clark College

RIGBY, DONALD W., Assistant Professor of Biology  
B. A., 1950, La Sierra College; M. A., 1956, Walla Walla College

RUDY, INGRID JEAN, Assistant Professor of Medical-Surgical Nursing  

*Leave of absence current year.
SILVER, LENOA PEEBLES, Assistant Professor of Library Science  

STOUT, JOHN F., Assistant Professor of Biology  
B. A., 1957, Columbia Union College; Ph. D., 1963, University of Maryland

WHITE, ARTHUR L., Assistant Professor of Economics  
B. S., 1956, Walla Walla College; M. A., 1957, University of Washington

WOLFE, WADE H., Assistant Professor of Industrial Education  

INSTRUCTORS

*BENNETT, FREDERICK R., Instructor in Engineering  

BLAKE, DONALD F., Instructor in Biology  
B. A., 1953, Oakwood College; B. S., 1957, M. S., 1959, Michigan State University

BOECK, STELLA, Instructor in Obstetrical Nursing  
R. N., 1927, Florida Sanitarium and Hospital; B. S. N. Ed., 1943, Columbia Union College

CHAMBERS, ANNIE MAE, Instructor in English  
B. A., 1944, Columbia Union College

CHRISTIAN, JOHN W., Instructor in History  
B. A., 1956, Walla Walla College; M. A., 1957, Northwestern University

COWIN, DARRELL J., Instructor in Industrial Education

DICKINSON, LOREN, Instructor in Speech  
B. A., 1957, Union College; M. A., 1960, University of Nebraska

DRUM, WILL, Instructor in Sociology, Clinical Division  
J. D., 1921, University of Goettingen; M. A., 1934, University of Washington

EICHER, BONNY KYLE, Instructor in Secretarial Science  
B. A., 1951, Walla Walla College

FOX, FRANCES, Instructor in Medical-Surgical Nursing  
R. N., 1947, St. Helena Sanitarium and Hospital; B. S., 1949, Pacific Union College; M. S., 1963, University of Oregon

GISH, GENEVIEVE GENOVESE, Instructor in Operating Room Nursing  
R. N., 1948, Portland Sanitarium and Hospital; B. S., 1955, Columbia Union College

GRABLE, ALBERT, Instructor in Biology  
B. S., 1959, La Sierra College; M. S., 1962, University of Minnesota

GROVE, EDNA HOLST, Instructor in Education  
B. S., 1963, Walla Walla College

GROVES, KENNETH E., Instructor in Biology  
B. A., 1934, M. A., 1951, Walla Walla College

HALE, JANICE F., Instructor in Medical-Surgical Nursing  
R. N., 1945, Portland Sanitarium and Hospital; B. S., 1959, Walla Walla College

KINGMAN, ROBERT, Instructor in Physics  
B. S., 1961, Walla Walla College

KNAPP, LUCILE HARPER, Instructor in Biblical Languages  

KONNERTH, VICKI, Instructor in Secretarial Science  
B. S., 1960, Columbia Union College

LAY, MAE MACKLIN, Instructor in English  
B. A., 1924, Walla Walla College

LEONIE, NORMA RHODES, Instructor in Sociology  
B. A., 1942, Pacific Union College

LISKE, ELWIN, Instructor in Industrial Education  
B. S., 1963, Walla Walla College

NICOLA, DARRELL, Instructor in Religion  

*Leave of absence current year.
OSTERUD, HAROLD H., Instructor in Public Health and Epidemiology
M. D., 1947, Medical College of Virginia; M.P.H., 1951, University of North Carolina

*RAGAN, DUANE, Instructor in Education
B. S., 1954, M. S., 1959, Oregon College of Education

RHODES, CAROLYN, Instructor in Music
B. S. in Music Education, 1960, Union College; M. Mus., 1961, University of Nebraska

RIGBY, DONNIE THOMPSON, Instructor in Speech
B. A., 1952, La Sierra College

RITER, E. JOYCE, Instructor in Pediatric Nursing
R. N., 1955, Central Washington Deaconess Hospital; B. S., 1960, Walla Walla College

ROBERTSON, MARVIN, Instructor in Music
B. Mus., 1956, Walla Walla College; M. A., 1959, Colorado State College

RUSSELL, L. E., Instructor in Religion
B. S., 1949, Union College; M. A., 1960, University of Oregon

SCOTT, HARRYETTE, Instructor in Diet Therapy
B. S., 1942, Loma Linda University; A. D. A., 1943, American Dietetic Association

SLOOP, J. RANDALL, Instructor in Business
B. S., 1954, Union College; M. Ed., 1956, University of Idaho

STAHLENKEER, ROBERT E., Instructor in Education
B. Th., 1950, Walla Walla College; M. A., 1960, Eastern New Mexico University

STRATTON, MARIE LOGAN, Instructor in Medical-Surgical Nursing
B. S., 1962, Walla Walla College

VIPOND, ELEANOR, Instructor in Medical-Surgical Nursing
B. S., 1963, Walla Walla College

WAGNER, ORVIN, Instructor in Physics

WILSON, LOIS R., Instructor in Pediatric Nursing
B. A., 1961, Walla Walla College; M. S., 1963, University of Oregon

VOCATIONAL SUPERINTENDENTS

SPOOL, A. W., General Manager, Vocational Departments
KOORENNY, R. H., Assistant Manager, Vocational Departments

ATKINS, FRANCIS, Bakery
BENSON, HAROLD L., Construction
BOND, V. D., Press
BORDER, LESTER, Plant Services
CRAIG, ROY, Upholstery
KOENIG, WILLIAM, Farm
KOORENNY, R. H., Store
MAYER, J. A., Bindery
SKIDMORE, GERALD E., Laundry and Dry Cleaners
WICKWARD, BRUCE, Dairy

FACULTY COMMITTEES

ACADEMIC STANDARDS


*Leave of absence current year.
ADMINISTRATIVE COUNCIL

ADMISSIONS
H. L. Rasmussen, G. S. Balharrarrie, M. S. Culver, Helen Evans, Orpha Osborne, J. R. Sloop, T. W. Walters.

FACULTY SENATE
P. W. Christian, R. H. Brown, Orpha Osborne, H. L. Rasmussen, Lenoa Silver, and all chairmen of departments.

GRADUATE COUNCIL

HEALTH AND SAFETY
K. E. Groves, Evelyn Christison, Lucile Jones, Genevieve McCormick, Wilmer Snyder, C. L. Trautwein, E. S. Winter, Norman Woods.

PREPROFESSIONAL EVALUATION

PUBLIC RELATIONS

RELIGIOUS INTERESTS

SCHOLARSHIPS AND GRANTS

SOCIAL ACTIVITIES

STUDENT AFFAIRS

TEACHER EDUCATION COUNCIL
R. E. Silver, Orpha Osborne, H. L. Rasmussen, and the chairmen of all departments offering a major or minor designed for students planning on elementary or secondary school teaching.
COMMITTEES, CLINICAL DIVISION

CURRICULUM

FACULTY COUNCIL

GUIDANCE

HEALTH
G. Stoddard, G. Gish, M. McNiel, H. Osborne.

LIBRARY
G. Pyke, L. Wilson, T. Holland, E. Vipond.
FACULTY ADVISERS
FOR STUDENT ORGANIZATIONS

Associated Students, Graduate Manager ........................................... C. W. SHANKEL
The Collegian .................................................................................. ROBERTA MOORE
The Mountain Ash ............................................................................. M. S. CULVER
ASWWC Nominating Committee ....................................................... T. W. WALTERS
ASWWC Religious Activities Committee ........................................... J. PAUL GROVE
ASWWC Social Activities Committee ................................................ L. DICKINSON, CAROLYN RHODES
Student Association Center ............................................................... RUTH BURGESON, R. E. STAHLNECKER
Sabbath School ................................................................................ K. A. APLINGTON
Missionary Volunteers ..................................................................... J. N. BARNES
American Temperance Society ......................................................... C. L. TRAUTWEIN
Aleph Gimel Ain ................................................................................ HELEN EVANS
Omicron Pi Sigma ............................................................................. M. S. CULVER
Chiquita Sola ..................................................................................... GERALDINE BORDER
Aurora Duxes .................................................................................... A. L. WHITE
Epsilon Mu Sigma .............................................................................. MR. & MRS. ANDREW LEONIE

ACADEMIC ADVISERS

IN MAJORS: Degree candidates will consider the head 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.

IN PREPROFESSIONAL COURSES: Members of the faculty have been appointed to serve as advisers to students preparing for careers in certain professional vocations, as follows:

Dental ................................................................................................. J. F. STOUT
Dental hygiene .................................................................................... ALBERT GRABLE
Law ..................................................................................................... A. L. WHITE
Medical .............................................................................................. C. W. SHANKEL
Medical technology ......................................................................... J. R. CHAMBERS
Nursing .............................................................................................. WILMA LEAZER
Occupational therapy ....................................................................... E. S. WINTER
Optometry ........................................................................................... O. WAGNER
Pharmacy ............................................................................................ C. T. JONES
Physical therapy ................................................................................ MRS. C. T. JONES
Veterinary ........................................................................................... D. W. RIGBY
X-ray technology ................................................................................ C. C. BARNETT

PERSONAL COUNSELORS

As a 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. Prior to registration each probationary student will be assigned to a faculty member who will serve as personal counselor. Freshman students will choose a personal counselor during the latter part of the autumn quarter. Students above the freshman level usually choose to counsel with some teacher within the department of their major field of emphasis.

The Dean of Students is the coordinator of the counseling program of the College.
FINE ARTS

A student from the College pursues classroom activities in the beautiful outdoors along the banks of the Columbia River.
COORDINATING COMMITTEE OF WALLA WALLA COLLEGE AND PORTLAND SANITARIUM AND HOSPITAL

C. A. Scriven, Chairman
R. H. Brown, Secretary
E. E. Bietz
D. E. Caslow
P. W. Christian
L. W. Crooker
V. J. Jester

Wilma Leazer
J. T. Porter
H. L. Rasmussen
H. L. Rudy
Grace Scheresky
A. W. Spoo

PRESIDENTS OF WALLA WALLA COLLEGE

Edward A. Sutherland 1892-1897
Emmet J. Hibbard 1897-1898
Walter R. Sutherland 1898-1900
E. 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-
COORDINATING COMMITTEE OF WALLA WALLA COLLEGE AND
PORTLAND SEMINARIA AND HOSPITAL

<table>
<thead>
<tr>
<th>C. A. Campbell</th>
<th>M. E. Seashore</th>
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<tr>
<td>J. E. Poulsden</td>
<td>H. E. Seashore</td>
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<tr>
<td>R. M. Swinney</td>
<td>H. C. Seashore</td>
</tr>
<tr>
<td>M. E. Seashore</td>
<td>A. A. Seashore</td>
</tr>
<tr>
<td>S. L. Seashore</td>
<td></td>
</tr>
</tbody>
</table>

PRESIDENTS OF WALLA WALLA COLLEGE

<table>
<thead>
<tr>
<th>Years</th>
<th>Name</th>
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<tbody>
<tr>
<td>1899</td>
<td>W. W. Haskins</td>
</tr>
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<td>1902</td>
<td>W. W. Haskins</td>
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<td>1905-1907</td>
<td>W. W. Haskins</td>
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<td>1911-1912</td>
<td>C. T. Coates</td>
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<td>1924-1931</td>
<td>C. T. Coates</td>
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</tbody>
</table>

STUDENT SLEDGE

A student from the College carries the student sledge across the snow-covered fields of the Walla Walla campus. The sledge will be used to transport students and faculty members during the winter months. 

Teach W. O. O.
Walla Walla College is a Christian institution of higher learning operated by the Seventh-day Adventist Church. The College recognizes that true education "means more than a preparation for the life that now is. It 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."

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.
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, and which is now being reconstructed by the Federal Government as the Whitman Mission. 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, Student Association Center, and a number of classrooms, laboratories, and teacher offices.

RESIDENCE HALLS. 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. A modern communication system aids in making dormitory life delightful.

Sittner Hall, the men's residence, was erected in 1947. It houses 430 men, and is modern in every respect.
LIBRARY. The College Library is a vital part of the educational program at Walla Walla College. The building, completed in 1944, is convenient and well planned. Reading room accommodations, the open-shelf system, seminar and conference rooms, and a browsing room contribute to the study and enjoyment of books. A microfilm reader and a microcard reader make accessible microfilmed, scholarly material. The Library contains 70,500 bound volumes and 5,000 pamphlets. An average of 2,500 volumes is accessioned annually. The Library receives 450 current periodicals regularly and also has a classified file of almost 1,500 mounted pictures. All these materials are adequately catalogued by modern methods, and periodical indexes and other bibliographical aids are available. Resources in other libraries are available to students and faculty members through the Library’s membership in the Pacific Northwest Bibliographic Center, which serves as a clearinghouse for interlibrary loans.

BIOLOGY BUILDING. The Biology Building consists of a large lecture hall, six laboratory rooms, four teacher offices, four graduate-student research rooms, a library and seminar room, one photographic darkroom, a large stockroom, and a storeroom. The museum collections include thousands of specimens of mounted birds, mammals, insects, marine animals, fossils, plants, and smaller groups.

Off the main campus the Department of Biological Sciences operates the Walla Walla College Biological Station at Rosario Beach, Anacortes, Washington, on the Puget Sound.

CHEMISTRY BUILDING. The Chemistry Department is housed in Bowers Hall, a two-story brick building located southwest of the quadrangle. The accommodations include two classrooms, five laboratories, two research laboratories, a library-seminar room, three offices, a stockroom, and a photographic darkroom.

CLARA E. ROGERS ELEMENTARY SCHOOL. The Rogers School, completed in 1952, is one of the most modern elementary school buildings in eastern Washington. The building has 27,000 square feet of floor space and contains 12 large classrooms, teacher offices, library, administrative offices, and a multipurpose room for such activities as band, orchestra, or choir rehearsal. Five and one-half acres of playground area adjoin the school to the south and west. These facilities provide an excellent experience for students in teacher training.

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 forty ranks of 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, is equipped with a splendid pipe organ. The building serves the college community adequately as an auditorium and as a gymnasium. The large floor provides ample space for physical education activities, games and roller skating, while retaining the galleries for use of spectators.

E. C. KELLOGG HALL. Completed in 1958, this building contains food service facilities and the Home Economics Department, and is one of the most functional buildings of its type in the entire Northwest.
ENGINEERING-PHYSICS-MATHEMATICS BUILDING. 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.

JOHNSON MUSIC HALL. Completed in 1927 and named in honor of C. Johnson, this building and its annex provide the Music Department with studios, practice rooms, and an auditorium for recital purposes. Listening rooms make the growing record library accessible to interested students.

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 Center.

SWIMMING POOL. The College maintains an indoor swimming pool for instructional and recreational purposes. Water for the pool is supplied from the College artesian well and is maintained at a comfortable temperature.

VOCATIONAL BUILDINGS. Several industries owned and operated by the College provide vocational training and also offer students opportunities for part-time employment while in college. Students may learn auto mechanics, bookbinding, carpentry, metalworking, printing and woodworking.

COLLEGE FARM. The College farm, consisting of 286 acres of fertile, land raises hay, grains, sugar beets and beans. The College barn, erected in 1954, is one of the more up-to-date installations of its type in the Walla Walla Valley. A herd of approximately 125 cows supplies milk for the College and for commercial uses.

PORTLAND SANITARIUM AND HOSPITAL. In addition to the College Place campus, Walla Walla College also utilizes the large plant of Portland Sanitarium and 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 in the clinical division, located across the street from the Portland Sanitarium and Hospital. The nurses' home has a large parlor, sitting room, a modern kitchen, and laundry facilities to provide for comfortable living in homelike surroundings. A reverent and devotional atmosphere for worships or private meditations is provided by the little chapel on the main floor.

The nurses' home also contains adequate classrooms, a library, and laboratory used exclusively for student nurses.

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 the Finance Counseling Office.

**RESIDENCE HALLS.** All unmarried students are required to live in one of the College residence halls and to board in the College cafeteria, unless they live with their parents or with other close relatives in the immediate community. Under special circumstances, however, sophomores and upper division students with superior college records may make application to the Dean of Students for permission to live off the campus in an officially approved home. Such applications will be acted on 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.

**RELIGIOUS ACTIVITIES**

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 1,300 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 has for its object the development by theory and practice of efficient missionary workers. Several auxiliary bands, such as Foreign Mission, Literature Distribution, and Sunshine, are under the direction of this organization.

**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.

**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**

<table>
<thead>
<tr>
<th>Club Name</th>
<th>Type of Students</th>
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<tbody>
<tr>
<td>Aleph Gimel Ain (AGA)</td>
<td>Dormitory women</td>
</tr>
<tr>
<td>Omicron Pi Sigma (OPS)</td>
<td>Dormitory men</td>
</tr>
<tr>
<td>Chiquita Sola (CS)</td>
<td>Single village women</td>
</tr>
<tr>
<td>Aurora Duxes (AD)</td>
<td>Single village men</td>
</tr>
<tr>
<td>Epsilon Mu Sigma (EMS)</td>
<td>Married students</td>
</tr>
</tbody>
</table>
Departmental Clubs

- American Institute of Physics, WWC Chapter
- Beta Mu (Home Economics)
- Biology Club
- Business Administration Club
- Chemistry Club
- Engineering Club
- Grammateis Club (Secretarial)
- Gymkhana Club (Physical Education)
- Industrial Education Club
- International Relations Club (History)
- Pegasus Club (English)
- Teachers of Tomorrow (Education)
- Theology
- Theta Phi Delta (Nursing)

Interest Clubs

- Chancery Club (Law)
- Pauling Club (Preprofessional)
GENERAL REGULATIONS

In all matters pertaining to personal conduct, students are expected to act as responsible citizens and members of a Christian community. Any student whose activities demonstrate lack of harmony with the principles and standards of the College thereby places in jeopardy his membership in the student body. Every effort will be made to stimulate students to worthy scholastic endeavor and consistent Christian living, but the College cannot be expected to assume responsibility for students who are not in sympathy with its announced purposes.

STUDENT CITIZENSHIP

Each individual coming to Walla Walla College for the purpose of entering any department of the College is subject to its supervision and jurisdiction from the time of arrival in College Place until his connection is terminated by graduation or by an officially approved withdrawal. Any regulation adopted by the Board or the Faculty, and publicly announced to the student body, shall have the same force as if published in this bulletin.

The record of each student is reviewed periodically, and his continuation in college is based upon his attitudes and general conduct, as well as his scholastic attainments.

Students are expected to abstain from behavior inconsistent with the basic principles of Christian living as interpreted by the College. Specifically, this includes the use of profane and unbecoming language, visiting pool halls or gambling places, attending the theater, motion pictures, or any other type of entertainment not approved by the College, the use of alcoholic beverages or tobacco in any form, card playing or having possession of cards, reading or having possession of pernicious literature, and engaging in improper associations. Any student who engages in such practices fails to represent his college properly and jeopardizes his continuation as a student.
CHAPEL

The chapel hour, which is held two times each week, is regarded as a vital part of the total education program at Walla Walla College, and regular attendance is required of each student.

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.

SOCIAL STANDARDS

Walla Walla College is a coeducational institution, and as such recognizes the desirability of proper associations among its students. The marriage of students during the regular school year (September to June) or during the summer session is not approved, and students should make their marriage plans for the vacation periods immediately before or after summer school, or during a quarter when they are not registered in the College. The registration of any student who violates this regulation will be canceled. The social policies of the College are fully outlined in the Student Handbook, and each student is responsible for becoming familiar with these policies and acting in harmony with them.

USE OF VEHICLES

Since the ownership and the use of an automobile frequently militate against success in college, students are not encouraged to bring automobiles with them to the College unless absolutely necessary. Freshmen are not permitted to bring automobiles to the College, or to the vicinity, or to operate automobiles owned by other individuals.

A student with upperclass standing (minimum of 96 crs.) is required to have earned a minimal cumulative GPA of 2.00 and to maintain a 2.00 GPA based on the previous quarter’s work in order to possess or operate an automobile. A student above the freshman level but below the upperclass level is required to have a minimal cumulative GPA of 2.25 in order to possess or operate an automobile.

All students, whether living in the residence halls or in the community, who own or operate any type of motor vehicle (car, motorcycle, scooter, etc.) must register these within twenty-four hours after arrival at the College. Drivers must, of course, have a valid operator’s license. Furthermore, it is required that all operators of motor vehicles carry public liability and property damage insurance and that they can show evidence of this insurance at the time of registration and whenever requested.

Failure to comply with these regulations makes the student liable to a penalty of $25. Regulations governing the use of automobiles by students are published in the Student Handbook; students are expected to become familiar with these regulations, since failure to comply with them may result in disciplinary action.
MEDICAL EXAMINATION

At the time of admission to the College each new student is required to submit evidence of a standard physical examination, or to have such examination under the direction of the College physician. Approved forms are available in the Registrar's Office.

Students in nursing who are ready to enter the clinical division will need additional tests. Inquire about these from the School of Nursing.

MISCELLANEOUS

The College cannot accept responsibility for any loss of or damage to the personal property of any student.

Any student causing damage to College property is expected to report such damage promptly and to pay the cost of repairs or replacement; if the damage is not reported to the proper authority within 24 hours, double the cost of replacement will be charged, and disciplinary action may result.

THE RESIDENCE HALLS

The College believes that the purpose of the institution can be realized most successfully when all unmarried students live in the College residence halls. Here, amid comfortable, homelike influences, the students may cultivate those habits of life and graces of character which distinguish the refined Christian man and woman. These years in the lives of students are usually the formative ones, when habits of promptness, neatness, self-control, courtesy, and ideals of association are formed. The value of such training is properly regarded as a most vital part of an education for life.

Daily association of earnest young people helps to develop strong Christian character in students. Attractive parlors are provided in each residence hall for group entertainments, and for the general use of the students during leisure time.

PLEDGE OF COOPERATION. Students who apply for admission to one of the College residence halls are understood by that act to pledge themselves to conform cheerfully to all regulations printed in this bulletin, the Student Handbook, or announced publicly.

STUDY HOUR. In order to provide an atmosphere for study, quietness is maintained during the evening study period. Permission must be secured from the dean for any absence from the residence halls during the study hours. Students are not expected to receive visitors or to make or receive telephone calls during this time except in case of emergency.

LEAVING THE CAMPUS. Since it frequently happens that students are unexpectedly called for, and since students are responsible to those in charge of the residence halls, no student should leave the campus for any length of time without making arrangements with his residence hall dean. For campus leaves which involve absence from classes, the student must also receive the permission of the Academic Dean.

ROOMS. Students living in the residence halls are required to care for their own rooms, and are expected to observe habits of neatness and clean-
liness about the premises. When a student withdraws from school, his room should be left neat and clean. Failure to do this will cause forfeiture of his room deposit.

WORSHIP ATTENDANCE. Attendance at evening and morning worship, Friday evening vespers, Sabbath school, and Sabbath morning church service, is expected of all dormitory students.

SECONDARY SCHOOL STUDENTS. Secondary school students (grade nine to twelve) are not assigned accommodations in the College residence halls, but are referred to one of the boarding academies in the Pacific Northwest which are affiliated with Walla Walla College.

INTRAMURAL SPORTS. The College sponsors a program of intramural sports in connection with the physical education activities. Participation in the intramural sports program is open to students whose grade-point average was C or better the preceding quarter.
Walla Walla College will admit as students men and women of good moral character who are willing to do earnest, faithful study. Any student seeking admission to the College thereby pledges to comply with the standards and regulations as published or announced. Should this pledge be broken, the student may be required to withdraw.

ADMISSION PROCEDURE

Formal application for admission to the College is required on a form supplied by the Registrar. A recent photograph and a $5 fee must be included. The chief factors considered by the Admissions Committee are good character, scholastic achievement, intellectual ability, financial support, and good health. Notification of acceptance is sent promptly after the applicant’s record of previous work and recommendations have been received by the College. No application will be accepted for the autumn quarter after August 15.

All records become the property of the College and are kept on permanent file. Applications should be made as early as possible prior to the quarter in which study is to commence.

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

OFFICIAL TRANSCRIPT. While a student may receive tentative acceptance on the basis of an unofficial transcript, no one will be permitted to register unless there is an official transcript in the Registrar’s Office for him at the time of registration.
ADMISSION TO THE FRESHMAN CLASS

Applicants for admission to the freshman class shall have been graduated from a recognized four-year secondary school and shall have earned an average grade of C in the basic courses. Students coming from non-accredited schools and from academies not approved by the Board of Regents of the G.C. may be required to take examinations to validate their credits. The pattern of subjects required for entrance is not rigidly prescribed, but an applicant should have completed those subjects which are prerequisites of the curriculum he wishes to pursue in college. The following pattern of basic subjects (solids) is highly recommended:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>2</td>
</tr>
<tr>
<td>Mathematics: Algebra, Geometry</td>
<td>2</td>
</tr>
<tr>
<td>Science</td>
<td>2</td>
</tr>
<tr>
<td>Social Studies (including History, 1 unit)</td>
<td>2</td>
</tr>
</tbody>
</table>

ENTRANCE REQUIREMENTS FOR THE CURRICULUMS. Certain specific subjects are required for admission to the various curriculums or courses of study in the College. Applicants who are deficient in one or two subjects required for entrance to their chosen curriculum will be required to make them up during the first year of residence. These subjects are given in the columns below. For the specific requirements see the letter following the course of study and then look under the column headed by that letter.

<table>
<thead>
<tr>
<th>Subject</th>
<th>Grade</th>
<th>Subject</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biblical Languages</td>
<td>B</td>
<td>Journalism</td>
<td>B</td>
</tr>
<tr>
<td>Biology</td>
<td>A</td>
<td>Mathematics</td>
<td>A</td>
</tr>
<tr>
<td>Business Administration</td>
<td>A</td>
<td>Medical Technology</td>
<td>A</td>
</tr>
<tr>
<td>Chemistry</td>
<td>A</td>
<td>Music</td>
<td>B</td>
</tr>
<tr>
<td>Elementary Teaching</td>
<td>B</td>
<td>Nursing</td>
<td>D</td>
</tr>
<tr>
<td>Engineering</td>
<td>A</td>
<td>Physical Education</td>
<td>B</td>
</tr>
<tr>
<td>English</td>
<td>B</td>
<td>Physics</td>
<td>A</td>
</tr>
<tr>
<td>Foods and Nutrition</td>
<td>A</td>
<td>Pre-Dental</td>
<td>A</td>
</tr>
<tr>
<td>German</td>
<td>B</td>
<td>Pre-Law</td>
<td>A</td>
</tr>
<tr>
<td>History</td>
<td>B</td>
<td>Pre-Medical</td>
<td>A</td>
</tr>
<tr>
<td>Home Economics</td>
<td>C</td>
<td>Secretarial Science</td>
<td>C</td>
</tr>
<tr>
<td>Industrial Education</td>
<td>B</td>
<td>Spanish</td>
<td>B</td>
</tr>
<tr>
<td>Interior Design and Decoration</td>
<td>C</td>
<td>Theology</td>
<td>B</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Subject</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>History</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Mathematics:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Algebra</td>
<td>1</td>
<td></td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Geometry</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Science</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Additional Basic Units</td>
<td>2</td>
<td>3</td>
<td>3</td>
<td>2</td>
</tr>
</tbody>
</table>

CHANGING CURRICULUMS. An applicant who has been admitted to one course of study or curriculum may not change to another without satisfying the entrance requirements of the curriculum to which he wishes to transfer. A student is not considered for degree candidacy until
A RICH HARVEST

The Walla Walla Valley and the foothills of the Blue Mountains are known for huge, golden wheatfields.
the entrance requirements of his curriculum or course of study have been met.

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. Individuals ineligible for regular admission who are at least 21 years of age 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.

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

PSYCHOLOGY TESTS. All new students are required to take a battery of college aptitude tests during the orientation week or as soon thereafter as possible. The following are exempt: students who have taken the Washington Pre-college Differential Guidance Test in the high school, and transfer students who can have the scores of such or similar tests transferred before registration.

ADMISSION TO ADVANCED STANDING

Applicants who have attended other institutions of collegiate rank 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. The maximum amount of credit accepted from a junior college is 108 quarter credits.

Students who present advanced credits from courses completed in secondary schools will receive commensurate college credit for these, provided they have been validated by the CEEB examination with passing scores of 3, 4, or 5.

Students transferring from nonaccredited institutions are given conditional status with tentative credit for previous work as evaluated by the Academic Dean and Registrar or the Academic Standards Committee. If the student maintains a C average or above, 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.

A student who has been dismissed from another institution because of
poor scholarship, or who is on probation from such institution, is not eligible for admission to the College until he can qualify for readmission to the institution from which he has been dismissed.

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 credits in the minor.

Each new student is required to submit evidence of a standard physical examination. Approved forms are available in the Registrar's Office.

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, and who have been approved by the Registrar are eligible for junior class membership.

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 with majors in Biology and Education. For further information concerning graduate courses and degree requirements see the bulletin of the Graduate Division.

AUDITORS. A student may audit certain courses with permission of the instructor involved. No credit is allowed and an audited course may not later be taken for credit. Students wishing to audit courses must register in the usual manner and are charged a minimum of one-half 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 Registrar have been completed and all fees have been paid. Students are assigned faculty advisers who assist in registration and planning programs. Changes in registration, approved by the adviser, may be made during the first week of instruction. No changes involving other courses are permitted after this time without the permission of the adviser and 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. Students withdrawing from college or individual courses must file an official drop voucher with the Registrar's Office. Failure to do so will result in the recording of unsatisfactory withdrawal (Wf) on the student's permanent record. During the first seven weeks of any quarter the student may withdraw from a course and receive a W. Withdrawals after this time will result in the recording of a Wf unless exception is granted by the Academic Dean. Withdrawals must be approved by the adviser and instructor involved and are not permitted during the last two weeks of a quarter.

LATE REGISTRATION. Students who register after the designated registration periods are charged a late registration fee of $5. Students may not register after the second week of a quarter without permission of the Academic Dean and the instructors involved, and a reduction in course load.

REREGISTRATION

Occasionally a student's registration is cancelled when he fails to meet certain academic appointments and requirements; this does not constitute an expulsion, and as soon as the student has attended to whatever may be defaulted he is reinstated. There is a fee of $10.00 for reregistration.

EXPLANATION OF CREDITS

A credit usually 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.

STUDY LOAD. The normal load is 16 credits per quarter. Sophomores, juniors, and seniors may register for 18 credits if their grade-point average for the previous quarter was 3.00 (B).

Students in college residence halls may not register for less than 10 credits without permission of the Academic Dean. Students are not permitted to add to their load by giving or receiving instruction away from the College, or registering for correspondence work, without permission of the Academic Standards Committee.

In general, 16 quarter credits are considered a full study load. Therefore, students who have to work should reduce their study load accordingly. The following is recommended:

<table>
<thead>
<tr>
<th>Outside Work</th>
<th>Study Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 - 14 hours per week</td>
<td>12 - 16 credits</td>
</tr>
<tr>
<td>15 - 20</td>
<td>10 - 14</td>
</tr>
<tr>
<td>20 - 24</td>
<td>8 - 12</td>
</tr>
</tbody>
</table>

The following study loads will satisfy the authorities indicated:

1. Immigration Authorities: 12 quarter credits
2. Selective Service: 15
3. Veterans: 14

COURSE NUMBERING

Beginning June 1, 1963, the following numbering system went into effect:
SUB-COLLEGE LEVEL

No credit. Courses numbered 0 to 99 carry no credit toward a degree or a college program.

LOWER DIVISION

Freshman. Courses numbered 100 to 199 are considered first-year college courses, or the freshman level. Seniors registering for these courses may not count such credits toward the required 192 credits for a degree.

Sophomore. Courses numbered 200 to 299 are considered second-year college courses, or the sophomore level.

UPPER DIVISION

Junior. Courses numbered 300 to 399 are considered third-year college courses, or the junior level.

Senior. Courses numbered 400 to 499 are considered fourth-year college courses, or the senior level. Some of these courses may apply toward a graduate program.

GRADUATE

Courses numbered 500 to 599 are considered fifth-year college courses, the graduate level. Seniors with high scholarship who are concurrently completing their last year in a degree program and who are within 12 credits of graduation may be permitted to take some of these courses.

MISCELLANEOUS

Course numbers connected with hyphens indicate courses which ordinarily 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.

Ordinarily, courses numbered 300 or above may not be taken until 84 credits have been earned and the following lower division requirements have been met:

- Religion: 12 credits
- Freshman Composition: 9
- Science or Mathematics: 12
- Physical Education and Health: 5

However, a sophomore who has completed 75 credits may petition the Academic Standards Committee for permission to register for courses numbered 300-399 if he has all the course prerequisites, if his scholarship is acceptable, and if progress in his chosen curriculum would otherwise be jeopardized.

The numbers printed in parentheses after each course description are the course numbers used prior to June 1, 1963.

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. Grades once recorded by the Registrar may not be changed unless an error has been made. 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; W, withdrawal; Wf, unsatisfactory withdrawal; I, incomplete; and Au, audit course. The Wf is recorded when students unofficially withdraw from a class or withdraw after the first seven weeks of any quarter. The I is given in case of incomplete work due to justifiable causes and must be made up during the following quarter; otherwise it becomes an F. This regulation also applies to students who discontinue college. Permission to receive an I must be obtained from the instructor. A student with an I 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 (GPA) is computed by totaling the grade points for all courses and dividing by the total credits for which grades are received. Credits for which an F or Wf are received are included in calculating the grade-point average. The symbols S, I, W, and Au are disregarded in computing the grade-point average.

REPEAT COURSES. Students may repeat only courses in which grades lower than a C have been received. Courses in which an F has been received must be repeated in residence unless permission to do otherwise is granted by the Academic Standards Committee. In computing the grade-point average both the original grade and the grade received in the repeated courses are included.

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 Academic Dean. 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 GPA is again 2.00 or better.

HONORS

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 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 received a class card from the Registrar’s 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. Arrangements may be made with the Academic Dean for emergency situations.
CORRESPONDENCE WORK

The College will accept a maximum of 24 quarter credits of approved courses by correspondence towards a degree. Correspondence work may not apply on a major unless approved by the chairman of the department concerned. Students must obtain approval from the Academic Standards Committee to carry correspondence work while in college, and correspondence work taken while attending college will be counted as a part of the student's study load. Seniors who have unfinished correspondence work will not be listed as prospective graduates until such work is completed. Correspondence work will not meet upper division requirements, nor can a student who has failed a course make this up by correspondence study.

EXTENSION COURSES

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

VOCATIONAL AND TECHNICAL PROGRAMS

As a service to students with interests and abilities in technical and vocational skills, the College offers a program leading to a certificate in printing, secretarial, and a few vocational-industrial areas. These courses do not lead to a degree, but will prepare the students for positions in the areas mentioned. Write for information.

EXAMINATIONS AND WAIVERS

Applications to receive credit by examination for work in which credentials cannot be supplied must be filed with the Academic Standards Committee during the first quarter of residence. Examination and recording fees are charged for credits obtained in this manner. The grades earned, even when unsatisfactory, will be recorded.

Requests for waivers of credit must be made during the first three quarters in residence.

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.
DEGREE REQUIREMENTS

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

Bachelor of Arts  Bachelor of Science in Engineering
Bachelor of Music  Master of Arts
Bachelor of Science

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 two consecutive quarters must meet the requirements of the current bulletin upon resuming attendance.

For information concerning requirements for the Master of Arts degree see the bulletin of the Graduate Division.

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. The degrees Bachelor of Music, Bachelor of Science in Engineering, and the Bachelor of Science with a major in Nursing do not require a minor.

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 page 70). 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.

Majors are available in the following areas:

- Biblical Languages
- Biology
- Business Administration
- Chemistry
- Elementary Teaching
- Engineering
- Engineering Physics
- English
- Foods and Nutrition
- German
- History
- Home Economics
- Industrial Education
- Interior Design and Decoration
- Journalism
- Mathematics
- Medical Technology
- Music
- Nursing
- Physical Education
- Physics
- Religion
- Secretarial Science
- Spanish
- Theology

Minors are available in the following areas:

- Art
- Biblical Languages
- Biology
- Business Administration
- Chemistry
- Economics
- English
- Foods and Nutrition
- German
- History
- Home Economics
- Industrial Education
- Journalism
- Mathematics
- Music
- Physical Education
- Physics
- Political Science
- Religion
- Secretarial Science
- Social Science
- Spanish
- Speech

**COMPREHENSIVE EXAMINATION.** Satisfactory completion of a comprehensive examination in the major is required before a degree may be conferred. A student who fails this examination may not attempt another examination until one quarter has elapsed. Industrial education students will submit an appropriate project and/or report approved by the chairman of the department.

**RESIDENCE.** Degree candidates must be in residence three quarters during their senior year and complete a minimum of 36 credits.

**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 Registrar not later than one week after the beginning of the third quarter preceding graduation. Appropriate forms may be obtained from the Registrar's Office. Students are not considered candidates for degrees or eligible for senior class membership until officially so notified by the Registrar.

Candidates for degrees must be members of the senior class. The fee
fixed by the class and approved by the President of the College must be paid not later than March 5 in order for candidates to be eligible for graduation. Seniors who have unfinished correspondence work will not be listed as prospective graduates until such work is completed; and all incompletes must be removed one month prior to graduation. Failure to comply with this regulation will delay graduation.

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**

- **English 101-102-103**
  - Literature and Speech. Five credits must be in literature; the remaining credits may be chosen from speech or literature. Candidates for teaching certification must complete four credits in speech.
  - 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:
  - Biology
  - Chemistry
  - English
  - History
  - Journalism
  - Language
  - Mathematics
  - Music
  - Physics
  - Religion
  - Theology

Students who have had two units of one language in secondary school must complete nine credits if the same language is continued. Those who have had no language or do not continue the same language must complete 24 credits. Music majors must complete French or German. Majors in chemistry should choose 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 0-15 credits:
- Business Administration
- Home Economics
- Interior Design and Decoration

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 15 credits.

**NATURAL SCIENCE AND MATHEMATICS**

Completion of a basic course in one of the following areas: Biological Science, Chemistry, Physics, or Mathematics.
SOCIAL SCIENCE

Education, Psychology. Philosophy of Christian Education and General Psychology are required.

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

Religion. Students who submit two or more units of Bible from an academy will complete 18 credits in college. Students who have completed less than two units of Bible in academy, and those transferring from non-Seventh-day Adventist colleges will take two credits each quarter in college. Religion 201, 202, 203 or the equivalent is required of all students. Students who enter college with fewer than two units in religion should begin their religious studies with courses 101, 102, 103.

Additional credits are to be chosen from the following courses: 104, 105, 106; 141, 142, 143; 221, 222, 223; 321, 322, 323; 341, 342, 343; 364, 365, 366; 421, 422, 423 or 427, 428; 426; 444, 445; 464, 465, 466.

PHYSICAL EDUCATION AND HEALTH

Health. Completion of the course Health Principles or waiver by examination during the freshman year.

Physical Education. Physical Education is required of all students under 30 years of age. Veterans who have completed basic training are exempt from Physical Education upon presentation of discharge papers.

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

Credits

English 101-102-103

Literature and Speech. Five credits must be in literature; the remaining credits may be chosen from speech or literature. Candidates for secondary teaching certification must complete four credits in speech.

Students majoring in Engineering Physics are exempt.

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:

Biology Mathematics
Chemistry Physics

Students who have had two units of one language in secondary school must complete nine credits if the same language is continued. Those who have had no language or do not continue the same language must
complete 24 credits. Majors in chemistry should choose German. Majors in biology should choose French or German.

No language is required for the following majors:
Business Administration Medical Technology
Elementary Teaching Nursing
Engineering Physics Physical Education
Foods and Nutrition Secretarial Science
Industrial Education

**NATURAL SCIENCE AND MATHEMATICS**

Completion of a basic course in one of the following areas: Biological Science, Chemistry, Physics, or Mathematics. 12

**SOCIAL SCIENCE**

**Education, Psychology.** Philosophy of Christian Education and General Psychology are required. General Psychology is not required of students majoring in Engineering Physics. 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 Bible from an academy will complete 18 credits in college. Students who have completed less than two units of Bible in academy, and those transferring from non-Seventh-day Adventist colleges will take two credits each quarter in college. Religion 201, 202, 203 or the equivalent is required of all students. Students who enter college with fewer than two units in religion should begin their religious studies with courses 101, 102, 103.

Additional credits are to be chosen from the following courses: 104, 105, 106; 141, 142, 143; 221, 222, 223; 321, 322, 323; 341, 342, 343; 364, 365, 366; 421, 422, 423 or 427, 428; 426; 444, 445; 464, 465, 466. Students in the School of Nursing complete only those courses outlined in their respective curriculums. 18-24

**PHYSICAL EDUCATION AND HEALTH**

**Health.** Completion of the course Health Principles or waiver by examination during the freshman year. 2

**Physical Education.** Physical Education is required of all students under 30 years of age. Veterans who have completed basic training are exempt from Physical Education upon presentation of discharge papers. 3

**BACHELOR OF MUSIC—BACHELOR OF SCIENCE IN ENGINEERING**

Candidates for professional degrees are not required to meet all general education requirements because of the heavy concentration of professional courses that must be completed. Students wishing to receive the Bachelor of Music degree or the Bachelor of Science in Engineering degree must follow the curriculum as outlined under Music and Engineering, respectively, in the section Departments of Instruction. The physical education and religion requirements are the same as for other baccalaureate degrees. 43
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. However, a student wishing to receive a second degree after one degree has been conferred must complete 45 additional credits and be in residence an additional three quarters. The College does not grant a second degree of the same type to any student.

MUSIC CREDIT ALLOWED ON DEGREES

Students who are not majoring or minoring in music may use nine credits of applied music, including three credits in ensemble, in meeting degree requirements. Thereafter, one credit in music classwork must be completed for each credit in applied music, with a maximum of eight additional credits in ensemble.

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.
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. Preprofessional courses of study are offered for the professions hereinafter listed.

DENTAL

The minimum requirement for admission to the study of dentistry is two years of college. However, most dental schools expect candidates for admission to have completed three to four years of college. A total of 96 credits is required, and should include the following:

- Embryology: 5 credits
- English: 9 credits
- General Biology or Zoology: 12 credits
- Inorganic Chemistry: 15 credits
- Organic Chemistry: 9-12 credits
- Physics: 12 credits

Some schools require nine credits in a foreign language and three to six credits of Quantitative Analysis.

DENTAL HYGIENE

Women planning for careers in dental hygiene must complete 96 credits with a cumulative grade-point average of 2.00 or above before seeking admission to the dental hygiene curriculum of the School of Dentistry, Loma Linda University. The following credits are required:

- Anatomy and Physiology: 10 credits
- Freshman Composition: 9 credits
- General Chemistry: 9 credits
- History of the United States: 9 credits
Microbiology  5  
Physical Education  3  
Psychology  9  
Religion  12  
Social Science  5  
Speech  4  
Electives in Literature and Social Science  21

LAW

Students wishing to study law may enroll at the College for three years and then enter upon a combined-cooperative degree program at the Willamette University College of Law. Qualifying students may be awarded the Bachelor of Arts degree by Walla Walla College upon satisfactory completion of the first year of law school. Upon completion of the law school curriculum the student may receive the Bachelor of Laws from Willamette University.

While at college, the student must complete a major in Business Administration, satisfy degree and general education requirements, and complete at least six credits in speech and three credits in political science. A minimum of 147 credits with a grade-point average of 2.5 or above is required.

MEDICAL

Most medical schools require completion of 192 credits with a grade-point average of 2.5 or above, computed separately for science and non-science courses. The following credits are normally required:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Embryology</td>
<td>5</td>
</tr>
<tr>
<td>English</td>
<td>9</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>9</td>
</tr>
<tr>
<td>General Biology or Zoology</td>
<td>12</td>
</tr>
<tr>
<td>Inorganic Chemistry</td>
<td>15</td>
</tr>
<tr>
<td>Organic Chemistry</td>
<td>9-12</td>
</tr>
<tr>
<td>Physics</td>
<td>12</td>
</tr>
<tr>
<td>Quantitative Analysis</td>
<td>3-6</td>
</tr>
<tr>
<td>Religion</td>
<td>18</td>
</tr>
</tbody>
</table>

MEDICAL TECHNOLOGY

Students wishing to become medical technologists or laboratory technicians may complete the first three years at the College and transfer to the Portland Sanitarium and Hospital or other approved hospitals for the fourth year. Candidates who plan to go to hospitals other than the Portland Sanitarium and 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:

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biological Science 101, 102, 103 12</td>
<td>Biological Science 261, 282-283 13</td>
</tr>
<tr>
<td>Chemistry 141-142-143  15</td>
<td>Chemistry 263  3</td>
</tr>
<tr>
<td>Education 110  2</td>
<td>Education 121, 122  4</td>
</tr>
<tr>
<td>English 101-102-103  9</td>
<td>Health 110  2</td>
</tr>
<tr>
<td>Mathematics 121  4</td>
<td>History 201, 202, 203  9</td>
</tr>
<tr>
<td>Religion  6</td>
<td>Literature or Speech  4</td>
</tr>
<tr>
<td></td>
<td>Physical Education  3</td>
</tr>
<tr>
<td></td>
<td>Religion  6</td>
</tr>
<tr>
<td></td>
<td>Electives  4</td>
</tr>
</tbody>
</table>
Third Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biological Science 107 or 465</td>
<td>5</td>
</tr>
<tr>
<td>Chemistry 301-302-303 or 324-325-326</td>
<td>9-12</td>
</tr>
<tr>
<td>Chemistry 406</td>
<td>4</td>
</tr>
<tr>
<td>Literature</td>
<td>5</td>
</tr>
<tr>
<td>Physics</td>
<td>12</td>
</tr>
<tr>
<td>Religion (UD)</td>
<td>6</td>
</tr>
<tr>
<td>Electives (UD)</td>
<td>4-7</td>
</tr>
</tbody>
</table>

Students majoring in Medical Technology must meet all degree and general educational requirements. During the third year the student must earn at least 30 credits upper division.

NURSING

Details concerning the educational program in nursing offered by Walla Walla College are given on pages 126-130.

Candidates who plan to enter other hospitals for their clinical experience should write to the director of the nursing school of their choice and ask for specific requirements. The courses may be taken at Walla Walla College.

OCCUPATIONAL THERAPY

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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biological Science</td>
<td>15</td>
</tr>
<tr>
<td>Chemistry</td>
<td>9</td>
</tr>
<tr>
<td>English</td>
<td>9</td>
</tr>
<tr>
<td>History of the United States</td>
<td>9</td>
</tr>
<tr>
<td>Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>Psychology</td>
<td>9</td>
</tr>
<tr>
<td>Religion</td>
<td>12</td>
</tr>
<tr>
<td>Sociology</td>
<td>3</td>
</tr>
<tr>
<td>Speech</td>
<td>4</td>
</tr>
<tr>
<td>Electives</td>
<td>23</td>
</tr>
</tbody>
</table>

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

One year of general college work may be applied to the curriculum of most optometry schools. The first year is generally the same as for pre-medical students. Students should consult with the college of optometry which they wish to enter about courses required.

PHARMACY

At least two years of general college work are required. Students should consult with the college of pharmacy which they wish to enter about courses required. The following should be included:
<table>
<thead>
<tr>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bacteriology</td>
<td>5</td>
</tr>
<tr>
<td>Botany</td>
<td>3</td>
</tr>
<tr>
<td>English</td>
<td>9</td>
</tr>
<tr>
<td>General Physics</td>
<td>12</td>
</tr>
<tr>
<td>Health Principles</td>
<td>2</td>
</tr>
<tr>
<td>Inorganic Chemistry</td>
<td>15</td>
</tr>
<tr>
<td>Mathematics</td>
<td>8</td>
</tr>
<tr>
<td>Organic Chemistry</td>
<td>10</td>
</tr>
<tr>
<td>Physical Education</td>
<td>2</td>
</tr>
<tr>
<td>Physiology</td>
<td>5</td>
</tr>
<tr>
<td>Psychology</td>
<td>6</td>
</tr>
<tr>
<td>Quantitative Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>U. S. History</td>
<td>9</td>
</tr>
<tr>
<td>Zoology</td>
<td>9</td>
</tr>
</tbody>
</table>

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

**PHYSICAL THERAPY**

The minimum requirements are completion of 96 credits. The student should consult the counselor for pre-physical therapy. Two years of regular college courses are required and the following are suggested:

- Biological Science* 15
- English 9
- Introductory Chemistry 9
- Physical Education 3
- Psychology** 9
- Religion 12
- Speech 3
- United States History 9
- Electives 27

* Suggested courses are General Biology and Comparative Anatomy or Microbiology.

** May include Human Growth and Development, Gen. Sociology.

**VETERINARY**

There are 18 colleges of veterinary science in the United States. Since their basic requirements are not exactly the same, the student should confer with the college of his choice. The following will generally meet the preprofessional requirements:

- Freshman Composition 9
- General Biology 12
- General Physics 12
- History of the U. S. 9
- Inorganic Chemistry 15
- Mathematics 4
- Intro. to Organic Chemistry 6
- Social Science 3
- Speech 3
- U. S. Government 3
- Zoology 12
- Electives, biology 6

**X-RAY TECHNOLOGY**

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, mathematics, and, whenever possible, typing should be included.
THE WHITMAN MONUMENT

One of the great landmarks in the Pacific Northwest, often visited by students from Walla Walla College.
DEPARTMENTS
OF INSTRUCTION

This section contains a list of all courses offered in the College. The departments are arranged in alphabetical order. The curriculums and courses offered in the School of Theology and the School of Nursing begin on pages 120 and 125, respectively.

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. Seniors with exceptional scholarship may be admitted to graduate courses on approval of the instructor.

The description of courses in each department includes: (1) the number of the course as used in the College records; (2) the title of the course; (3) a brief description of course content; (4) the number of credits given; (5) the quarter in which it is given.

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. Thus, “Three credits; autumn, winter, spring,” means three credits each quarter, or a total of nine credits for the year.

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 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.

Courses preceded by an * are not offered in the current year.
ART

MR. MACKINTOSH

The aim of the Art Department is to cultivate an awareness, appreciation and understanding of the various forms of visual experience, and through instruction and practice help the student develop his creative abilities and appreciation.

MINOR REQUIREMENTS:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>161-162-163 9</td>
</tr>
<tr>
<td>Drawing</td>
<td>181-182-183 3</td>
</tr>
<tr>
<td>History &amp; Appreciation of Art</td>
<td>321, 322, 323 6</td>
</tr>
<tr>
<td>Special Problems</td>
<td>477, 478, 479 3</td>
</tr>
<tr>
<td>Electives (Counsel with the department chairman)</td>
<td>6</td>
</tr>
</tbody>
</table>

27

COURSES

145. ART FORMS AND TECHNIQUES. A representational approach including basic concepts of line, value, color, proportion, perspective, and composition with emphasis on the teaching of art. Two credits; summer only. (25)

161-162-163. DESIGN. An intensified study of the basic elements of design aiming to develop cognizance of visual organization. Three credits; autumn, winter, spring. (31, 32, 33)

181-182-183. DRAWING. An experience in the use of line with representational and abstract approaches through application to still life and portraiture. One credit; autumn, winter, spring. (41, 42, 43)

201, 202, 203. PAINTING. To develop the aesthetic enjoyment and understanding in the application of paint, whether the media be oil, casein, or tempera. Prerequisite: 181-182-183, or equivalent. Two credits; autumn, winter, spring. (51, 52, 53)

261-262-263. SCULPTURE. The study and application of three dimensional forms in space using varied media such as plaster, plasticine and paper. One credit; autumn, winter, spring. (81, 82, 283)

301, 302, 303. ADVANCED DESIGN. Application of the basic principles and elements of design to be used in various fields of art. Prerequisite: 161-162-163. Three credits; autumn, winter, spring. (91, 92, 93)

306. ART IN THE ELEMENTARY SCHOOL. 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. Three credits; winter. (106)

307, 308, 309. ADVANCED DRAWING. A utilization of the basic principles of drawing with various experimental approaches. Prerequisite: 181-182-183. Two credits; autumn, winter, spring. (101, 102, 103)

321, 322, 323. HISTORY AND APPRECIATION OF ART. The study of the great periods in history of art, their causes and developments; the relation between art and society. Two credits; autumn, winter, spring. (111, 112, 113)

*Not offered the current year.*
477, 478, 479. SPECIAL PROBLEMS IN ART. Individual student projects chosen and carried out under the direction of the chairman of the department. Open to minors only. One to three credits any quarter. Maximum, three credits. Autumn, winter, spring. (191, 192, 193)
BIBLICAL LANGUAGES

MR. LITKE, MRS. KNAPP

In its objective, the department aims to provide theological students with tools for scholarly research and to enable them to read the Bible in the original. The major in Biblical languages is intended for those who would like to increase their proficiency in Biblical study and research as well as for those who may look forward to the teaching of these languages.

MAJOR REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE:
A minimum of 45 credits. The following cognates are also required:
Religion 444, 445, 446 and History 321.

MINOR REQUIREMENTS:
A minimum of 30 credits. Religion 446 is also required.

COURSES

101-102-103. GREEK I. 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. Readings of selected portions, mainly from the First Epistle of John. Five credits; autumn, winter, spring. (1-2-3)

221, 222, 223. GREEK II. Intensive 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. Three credits; autumn, winter, spring. (61, 62, 63)

*341, 342, 343. DOCTRINAL EPISTLES OF PAUL. An exegetical study of the great doctrinal epistles of Paul. Selections from the letters to the Corinthians, Romans, and Galatians are especially studied as examples of the apostle's theological writings. Two credits; autumn, winter, spring. (121, 122, 123)

344, 345, 346. LATER EPISTLES OF PAUL. An exegetical study of examples of Paul's later letters, especially the so-called prison epistles. Selections from the letters to Timothy, Titus, and the Ephesians are studied as typical of this period of the apostle's life. The epistle to the Hebrews is also considered, with emphasis upon its relationship to the other epistles. Two credits; autumn, winter, spring. (124, 125, 126)

441-442-443. HEBREW I. 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. Three credits; autumn, winter, spring (171-172-173).

451, 452, 453. HEBREW READING. Directed reading in the prophetic sections of the Hebrew Bible. Jonah is completely translated and selected chapters in Isaiah. Some experience in the translating from the Dead Sea Scrolls is provided in the spring quarter. One credit; autumn, winter, spring.

477, 478, 479. SPECIAL PROBLEMS IN BIBLICAL LANGUAGES. 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. Autumn, winter, spring. (191, 192, 193)

*Not offered the current year.
BIOLOGICAL SCIENCES

MR. BLAKE, MR. GRABLE, MR. GROVES, MR. RIGBY, MR. STOUT

The department offers a major and a minor in biology. Courses are offered on the main campus, at the Biological Station, and in the Field School of Biology. Graduate work leading to the Master of Arts degree is also offered. For further information see the bulletin of the Graduate Division.

Exceptional opportunities for study in the Biological Sciences are possible during the summer at the Biological Station at Rosario Beach adjoining Deception Pass State Park, Anacortes, Washington. Facilities at the station include laboratories, adequate living accommodations, motorboats, seines, dredges, salt and fresh water aquaria. For further information see the bulletin of the Biological Station.

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

BIOLOGY MAJOR—REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Biology</td>
<td>101, 102, 103</td>
</tr>
<tr>
<td>Comparative Anatomy</td>
<td>281</td>
</tr>
<tr>
<td>Physiology</td>
<td>282-283</td>
</tr>
<tr>
<td>Vertebrate Embryology</td>
<td>303</td>
</tr>
<tr>
<td>Plant Anatomy</td>
<td>304</td>
</tr>
<tr>
<td>Paleontology</td>
<td>409</td>
</tr>
<tr>
<td>Genetics</td>
<td>422</td>
</tr>
<tr>
<td>Systematic Botany</td>
<td>426</td>
</tr>
<tr>
<td>Seminar in Research Methods</td>
<td>491-492-493</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
</tr>
</tbody>
</table>

Majors in biology must complete a minimum of 24 upper division credits and must attend at least one summer term at the Biological Station. Chemistry 141-142-143 (12 credits) is required.

MAJOR REQUIREMENTS FOR A BACHELOR OF SCIENCE DEGREE:

Candidates for this degree must complete the requirements for a Biology major; in addition they must also complete the following courses in other departments: Chemistry 141-142-143; Physics 181, 182, 183 Mathematics 120, 130; and courses through second year French or German.

The minor must be taken in Chemistry, Physics, or Mathematics.

MINOR REQUIREMENTS IN BIOLOGY:

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

COURSES

101, 102, 103. GENERAL BIOLOGY. 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. Special attention is given to botany during the spring quarter. One laboratory per week. Four credits; autumn, winter, spring. (1, 2, 3)

104. ELEMENTARY PHYSIOLOGY. A study of the elements of the functioning of the major organ systems with emphasis on human physiology. Will not apply on a biology major. One laboratory per week. Five credits; autumn. (4)

107. MICROBIOLOGY. 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. Five credits; autumn. (7)

202-203. ANATOMY, PHYSIOLOGY, AND HEALTH. A survey of human anatomy and physiology is given. Health principles will be integrated in this course. One laboratory per week. Five credits; winter, spring. (52-53)

281. COMPARATIVE ANATOMY. A study of the comparative anatomy of chordates with emphasis on the vertebrates. Detailed dissections of the shark and cat are made in the laboratory. Prerequisite: 101, 102, 103. Two laboratories per week. Five credits; autumn. (91)

282-283. PHYSIOLOGY. A course primarily designed for biology majors. The basic principles of physiology are discussed in the framework of the principal vertebrate organ systems. Prerequisite: 281; beginning chemistry courses strongly recommended. One laboratory per week. Four credits; winter, spring. (92-93)

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

303. VERTEBRATE EMBRYOLOGY. A detailed study of the embryology of the frog, chick, and pig, with emphasis on their relation to human embryology. Two laboratories per week. Five credits; spring. (103)

304. PLANT ANATOMY. A study of the microscopic anatomy of plant tissues with emphasis on their origin and development. The whole plant kingdom is considered, but the vascular plants will receive major attention. One laboratory per week. Four credits; autumn. (106)

389. NATURAL HISTORY OF VERTEBRATES. A study of vertebrates with emphasis on natural history, ecology, and taxonomy of birds and mammals. Two laboratories per week. Will not apply on the biology major. Five credits; spring. (151)

401. PLANT PHYSIOLOGY. A principles course designed to cover the physiology of plants in general. Prerequisite: 304. Four credits; winter.

403. ORNITHOLOGY. A systematic study of native birds of North America, with emphasis on identification, migration, geographical distribution, habits and life histories. Two laboratories per week. Four credits; spring. (149)

404. GENERAL ENTOMOLOGY. A study of insect morphology, ecology, and classification. Two laboratories per week. Four credits; autumn. (156)

407. PHILOSOPHY OF SCIENCE. A study of origins of living things of special creation as opposed to evolution, the Flood, glaciation, problems of speciation, and distribution of plants and animals. Does not apply on a biology major. Three credits; autumn. (157)

409. PALEONTOLOGY. A study of plant and animal fossils, with a survey of the principles of geology. One laboratory per week. Four credits; spring. (159)
422. GENETICS. A study of the principles of inheritance in plants and animals. Four credits; winter. (162)

424. HERPETOLOGY. A systematic study of amphibians and reptiles with emphasis on natural history and ecology. Two laboratories per week. Four credits; autumn. (106)

425. MORPHOLOGY OF PLANTS. Detailed studies of the type forms of the Thallophytes, Bryophytes, Pteridophytes and Spermatophytes. One laboratory per week. Four credits; autumn. (106)

426. SYSTEMATIC BOTANY. Principles of classification of plants with emphasis on the angiosperms. Two laboratories per week. Four credits; spring. (166)

429. LIMNOLOGY. A study of the factors responsible for the presence and distribution of animals and plants in fresh waters. Field work includes trips to a number of lakes and streams for collection of living specimens as well as habitat analysis. Four credits; summer (WWC Biological Station) (169)

442. MICROTECHNIQUE. A course designed to cover the important methods of making microscope slides. Two laboratories per week. Three credits; winter. (172)

444. MAMMALOGY. A systematic study of mammals with emphasis on natural history and ecology. Two laboratories per week. Four credits; autumn. (174)

446. GENERAL ECOLOGY. A course designed to cover the basic principles of ecology of plants and animals. Field trips to nearby areas illustrating these principles are a part of the laboratory work. Four credits; summer (WWC Biological Station). (176)

448. PARASITOLOGY. A systematic study of the morphology, life cycle, and the medical aspects of the protozoan, arthropod, and worm parasites of the vertebrates with more emphasis on human parasitology. Two laboratories per week. Five credits; winter. (177-178)

449. VERTEBRATE HISTOLOGY. The microscopic anatomy of vertebrate cells, tissues and organs including reference to their functions. Two laboratories per week. Four credits; spring. (179)

461. INVERTEBRATE ZOOLOGY. A study of the invertebrate animals of Puget Sound with emphasis on systematics and natural history. Four credits; summer (WWC Biological Station).

462. ICHTHYOLOGY. A systematic study of the fishes found in Puget Sound, with a survey of the fishes of other waters. Four credits; summer (WWC Biological Station). (182)

463. MARINE BOTANY. A systematic study of plants found in Puget Sound, with a survey of marine plants from other areas. Four credits; summer (WWC Biological Station). (183)

464. ANIMAL BEHAVIOR. A comparative study of the behavior of animals with emphasis on an experimental analysis of behavior. A research project will be required. Four credits; summer (WWC Biological Station).

465. BACTERIOLOGY. A presentation of the basic principles necessary for an understanding of morphology and function of bacteria. Labo-

ryatory work, including unknowns, points out techniques employed in their study. Two laboratories per week. Five credits; winter. (185)

*Not offered the current year.
466. SYSTEMATIC ENTOMOLOGY. A study of the principles of taxonomy as applied to entomology. Laboratory work emphasizes orders and families. Four credits; spring.

467. BIOLOGICAL OCEANOGRAPHY. A study of the geology, geography, and biology of the ocean. Four credits; summer (WWC Biological Station). (187)

468. COMPARATIVE PHYSIOLOGY. A study of the physiology and life processes of marine animals with emphasis on invertebrates. Prerequisite: 282-283. Four credits; summer (WWC Biological Station). (188)

469. FOREST ENTOMOLOGY. A study of economically important forest insects with methods of control. Practical field experience is stressed. Four credits; spring.

472. METHODS OF TEACHING BIOLOGY. This course deals with the basic principles of teaching biology in the secondary school. Observation, demonstration, and class presentation are required of the students as a part of this course. Three credits; winter. (197)

477, 478, 479. SPECIAL PROBLEMS IN BIOLOGICAL SCIENCE. 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. Autumn, winter, spring. (191, 192, 193)

488. FISHERIES BIOLOGY. A study of marine and fresh water fisheries with emphasis upon fishery surveys and research methods, observation of hatchery and commercial fishing methods, and study of problems involved. Prerequisite: 462. Four credits; summer (WWC Biological Station). (188)

491-492-493. SEMINAR IN RESEARCH METHODS. A study of biological literature, with emphasis on the research paper; methods of gathering data; methods of compiling data; methods of writing the finished paper; presentation of an acceptable research paper. One credit; autumn, winter, spring. (194-195-196)

494. BIOSTATISTICS. Practice and theory in the use of statistical methods in quantitative biology. Four credits; autumn.

501. RESEARCH IN BIOLOGY. 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 credits eight. (201)

502. GENETICS AND EVOLUTION. Advanced study and evaluation of the evolutionary theory; preparation of material on scientific philosophy for publication. Prerequisite: 407, 422. Three credits; winter. (203)

510. GRADUATE SEMINAR. Presentation of topics and discussion of current research in:
- Parasitology
- Animal Behavior
- Philosophy of Science
- Invertebrate Zoology
- Entomology

One credit; any quarter. Maximum five credits. (204-205-206)

512. PRINCIPLES OF TAXONOMY. A course designed to give the student a working knowledge of the rules of nomenclature, the factors considered in classification, the preparation of synonyms and keys, and new methods for determining relationships. Four credits; winter.

*Not offered the current year.
516. MEDICAL ENTOMOLOGY. Vectors and other insects of medical import to humans are covered. The host-parasite relationships as well as preventive and control methods in tropical and temperate regions are considered. Prerequisite: 448. Four credits; spring.

522. CELLULAR BIOLOGY. Current knowledge and research in the areas of cell physiology, biochemical genetics, bacteriological genetics, and radiation biology will be considered. Prerequisite: 282-283. Five credits; winter. (212)

524. MARINE INVERTEBRATES. An advanced study of invertebrate animals, with emphasis on marine forms. Individual research projects are required. Four credits; summer (WWC Biological Station). (181)

539. HELMINTHOLOGY. A detailed study of the more common helminth parasites of animals is undertaken. Emphasis is given to current areas of research in helminthology. Basic techniques of importance in laboratory work with helminths are covered. Prerequisite: 448. Two laboratories per week. Four credits; spring. (229)

545. THESIS. 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. Eight credits. (235)
BUSINESS AND ECONOMICS

MR. MEHLING, MR. JONES, MR. SLOOP, MR. WHITE

The objective of the department is to offer students opportunity for the general education and specialized training necessary for success in society at large as well as in the business world. Courses offered in the department are designed to prepare for denominational service, civil service, business and industry.

MAJOR REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Principles of Accounting</td>
<td>9</td>
</tr>
<tr>
<td>Intermediate Accounting</td>
<td>9</td>
</tr>
<tr>
<td>Business Law</td>
<td>6</td>
</tr>
<tr>
<td>Principles of Economics</td>
<td>9</td>
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<tr>
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MAJOR REQUIREMENTS FOR A BACHELOR OF SCIENCE DEGREE:

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</thead>
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<td>9</td>
</tr>
<tr>
<td>Intermediate Accounting</td>
<td>9</td>
</tr>
<tr>
<td>Business Law</td>
<td>6</td>
</tr>
<tr>
<td>Principles of Economics</td>
<td>9</td>
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<tr>
<td>Cost Accounting</td>
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<td>Seminar</td>
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<tr>
<td>Electives, upper division</td>
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<td><strong>Total</strong></td>
<td><strong>71</strong></td>
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Required Cognates:

Students majoring in Business Administration must demonstrate proficiency in typing. Mathematics 120 or the equivalent is also required.

MINOR IN BUSINESS:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>Principles of Economics</td>
<td>9</td>
</tr>
<tr>
<td>Electives, upper division</td>
<td>9</td>
</tr>
<tr>
<td><strong>Total</strong></td>
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MINOR IN ECONOMICS:

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<th>Course</th>
<th>Credits</th>
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<tr>
<td>Principles of Economics</td>
<td>9</td>
</tr>
<tr>
<td>Price Theory</td>
<td>5</td>
</tr>
<tr>
<td>Aggregate Economic Analysis</td>
<td>5</td>
</tr>
<tr>
<td>Development of Economic Thought</td>
<td>5</td>
</tr>
<tr>
<td>Money and Banking</td>
<td>5</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>29</strong></td>
</tr>
</tbody>
</table>

COURSES

112. PERSONAL FINANCE. A course designed to provide an individual with the techniques to manage his personal finances more efficiently. Two credits; winter.

131-132, 133. **PRINCIPLES OF ACCOUNTING.** Introduction to accounting; books of original entry; ledgers; statements of condition and of operations. To be taken in sequence. Three credits; autumn, winter, spring.
(14-15, 16)

135-136. **PRINCIPLES OF ACCOUNTING.** Introduction to accounting; books of original entry; ledgers; statements of condition and of operations. Five credits, winter; four credits, spring. (18-19)

230. **MACHINE ACCOUNTING.** Training in the operation of the National Bookkeeping machines as applied to various accounting systems. Prerequisite: 131-132, 133. One credit; autumn. (97)

*231, 232, 233. **INTERMEDIATE ACCOUNTING THEORY.** Autumn quarter is devoted to a study of the construction, analysis and interpretation of the financial statement and reports prepared from accounting records. Winter and spring quarters relate to a study of basic accounting procedures employed in balance sheet evaluation and profit determination. Further study of funds, inventories, reserves, contingent liabilities and partnership accounting. Prerequisite: 131-132, 133. Three credits; autumn, winter, spring. (71-72-73)

241-242-243. **BUSINESS LAW.** Fundamentals of law which affect business transactions. Emphasis on contracts, agencies, negotiable instruments, landlord and tenant relationship, personal property, and corporations. Two credits; autumn, winter, spring. (61-62-63)

261-262, 263. **PRINCIPLES OF ECONOMICS.** 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. Three credits; autumn, winter, spring.

321, 322, 323. **MARKETING AND ADVERTISING.** A study of the principles underlying marketing and market organizations in connection with the psychology and science of advertising. Two credits; autumn, winter, spring. (121, 122, 123)

331. **COST ACCOUNTING.** Theory and practice in keeping cost records for manufacturing concerns. Job order, process, and standard cost systems. Prerequisite: 131-132, 133. Five credits; autumn. (144)

335. **TAX PROCEDURE.** A study of tax regulations and accounting records necessary to facilitate proper tax accounting and the determination of tax liability for individuals, partnerships, and corporations. Three credits; winter. (172)

336. **ACCOUNTING SYSTEMS.** A study of diversified accounting systems, system construction and installation procedures. Prerequisite: 231, 232, 233. Three credits; spring. (146)

344. **PRINCIPLES OF INSURANCE.** A study of insurance contracts, underwriting organizations, and insurance representation and procedures. Three credits; autumn. (131)

346. **REAL ESTATE.** A survey course in the basic principles and problems of real estate management and appraisal. Three credits; spring. (136)

348. **LABOR RELATIONS.** The development and present status of labor law and employment problems. Three credits; winter.

361. **PRICE THEORY.** 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: 261-262, 263. Five credits; autumn.

*Not offered the current year.
362. AGGREGATE ECONOMIC ANALYSIS. Analysis of the determinants of the aggregate level of employment, output, and income of an economy. Prerequisite: 261-262, 263. Five credits; winter.

366. DEVELOPMENT OF ECONOMIC THOUGHT. A study of the history of economic doctrine, tracing the origins of contemporary economic theory. Prerequisite: 361, 362. Five credits; spring.

376. BUSINESS FINANCE. A study of the fundamental principles of financial policy in the organization and management of corporate enterprises. Three credits; spring. (163)

411. STATISTICS. This course stresses an understanding of basic statistical principles and their applications. Graphic presentations, distributions, probabilities, index numbers, correlations and statistical decision making are studied. Prerequisite: Mathematics 121 and 122 or consent. Three credits; spring. (196)

*414. BUSINESS MANAGEMENT. A study of the internal organization of the business enterprise; problems of planning, coordination and production management. Three credits; autumn. (161)

*431, 432, 433. ACCOUNTING PROBLEMS. Studies in equities and control of assets in C.P.A. type problems. Prerequisite: 24 credits of accounting. Three credits; autumn, winter, spring. (177, 178, 179)

434. FUND ACCOUNTING. A study of the application of accounting principles to trust funds, pledged funds, sinking funds, special tax funds and general funds accumulated for special purposes such as plant extension, debt retirement and operation of non-profit enterprises. Three credits; autumn. (174)

439. AUDITING PROCEDURE. A survey of practical auditing procedure as applied in the verification of accounting records, and the preparation and presentation of formal reports. Prerequisite: 231, 232, 233 or permission from the instructor. Three credits; spring. (176)

452. HUMAN RELATIONS IN MANAGEMENT. A survey of the human relations problems found in industry today. Three credits; winter. (165)

463. MONEY AND BANKING. A study of the functional activities of the institutions which comprise our financial system; emphasizing the nature and functions of money, credit, and banking. Five credits; spring. (186)

477, 478, 479. SPECIAL PROBLEMS IN BUSINESS ADMINISTRATION. 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. Autumn, winter, spring. (191, 192, 193)

492. SEMINAR. A course in orientation, research, problems and trends in business and economics. Students will do independent study and present a paper. Open to majors only. One credit; winter.

*Not offered the current year.
CHEMISTRY

MR. JONES, MR. BOWERS, MR. CHAMBERS, MR. SHANKEL

MAJOR REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>Inorganic Chemistry</td>
<td>141-142-143</td>
</tr>
<tr>
<td>Elementary Quantitative Analysis</td>
<td>244-245-246</td>
</tr>
<tr>
<td>Organic Chemistry</td>
<td>321-322-323</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
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</tbody>
</table>

A minimum of 21 upper division credits is required. Physical Chemistry 401-402, 403 is strongly recommended. Any minor may be chosen. The following courses are also required:
Mathematics 121; Physics 181, 182, 183, or 201, 202, 203.

MAJOR REQUIREMENTS FOR A BACHELOR OF SCIENCE DEGREE:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inorganic Chemistry</td>
<td>141-142-143</td>
</tr>
<tr>
<td>Analytical Chemistry</td>
<td>244-245-246; 461, 462 or 463</td>
</tr>
<tr>
<td>Organic Chemistry</td>
<td>321-322-323</td>
</tr>
<tr>
<td>Physical Chemistry</td>
<td>401-402, 403</td>
</tr>
<tr>
<td>Special Problems</td>
<td>478 or 479</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
</tr>
</tbody>
</table>

Minimum 63-67

Minors in both mathematics and physics are recommended. Regardless of the minor the following are required:
Mathematics 121, 122, 181, 281, 282, 283; Physics 201, 202, 203.

MINOR REQUIREMENTS:

A minimum of 27 credits including 3 credits of upper division.

COURSES

101-102-103. INTRODUCTORY CHEMISTRY. An introductory course in chemistry covering the fields of inorganic, organic, and biochemistry. Does not apply on a major or minor. Two lectures, one laboratory per week. Three credits; autumn, winter, spring. (1-2-3)

141-142-143. INORGANIC CHEMISTRY. A systematic study of typical metals and non-metals together with a survey of all the elements. Emphasis is placed on fundamental principles and theories. Mathematics 121 prerequisite or taken concurrently. Four lectures and three hours laboratory per week. Five credits; autumn, winter; two or five, spring. (21-22-23)

244-245-246. ELEMENTARY QUANTITATIVE ANALYSIS. Fundamental principles and laboratory practices in both gravimetric and volumetric analysis. Prerequisite: 141-142-143 and Mathematics 121. Two lectures, one laboratory per week. Three credits; autumn, winter, spring. (74-75-76)

263. QUANTITATIVE ANALYSIS. Introduction to the principles of quantitative analysis illustrated with representative gravimetric and volumetric determinations. Does not apply on a major. Prerequisite: 141-142-143 and Mathematics 121. Three lectures, one laboratory per week. Four credits; spring. (83)
CHEMISTRY

301-302-303. INTRODUCTION TO ORGANIC CHEMISTRY. A short course designed to furnish a basis for the understanding of structural chemistry, systems, nomenclature, and organic chemistry reactions. Open to students in home economics, pre-dental, and certain other preprofessional courses. Does not apply on a major. Prerequisite: 141-142-143. Two lectures, one laboratory per week. Three credits; autumn, winter, spring. (101-102-103)

321-322-323. ELEMENTARY ORGANIC CHEMISTRY. A study of the preparation, reaction, and constitution of the aliphatic and aromatic compounds of carbon. Prerequisite: 141-142-143. Three lectures and two laboratories per week. Four or five credits; autumn, winter, spring. (111-112-113)

341, 342. ADVANCED INORGANIC CHEMISTRY. A more detailed study of inorganic substances with emphasis on the metals, their preparation and uses. Prerequisite: 141-142-143. Two credits; autumn, winter. (121)

401-402, 403. PHYSICAL CHEMISTRY. An introductory course in theoretical chemistry and electrochemistry. Experiments involve the various physical properties of matter and their constants. Prerequisite: 244-245-246, Physics 181, 182, 183 or 201, 202, 203 and Mathematics 121, 122, 181, 281, 282, 283, 284. Three lectures, one laboratory per week. Four credits; autumn, winter, spring. (151-152, 153)

406. BIOCHEMISTRY. A study of the chemistry of foods, digestion and body metabolism. Prerequisite: 301-302-303 or 321-322-323. Three lectures, one laboratory per week. Four credits; spring. (156)

424. ORGANIC SYNTHESIS. The preparation of various aliphatic and aromatic compounds involving representative procedures employed in synthetic work. One lecture, two laboratories per week. Three credits; autumn; conference to be arranged. (164)

425. INORGANIC SYNTHESIS. The course includes the preparation of a variety of inorganic compounds to illustrate standard methods of procedure employed in organic preparations. One lecture, two laboratories per week. Three credits; winter. (165)

426. ORGANIC QUALITATIVE ANALYSIS. A systematic identification of the various types of organic compounds, including unknowns. One hour conference and six to eight hours laboratory. Three credits; spring. (166)

*429. ADVANCED ORGANIC CHEMISTRY. A study of the current theories in the field of aliphatic and aromatic chemistry. Prerequisite: 321-322-323. Two credits; spring. (168)

461, 462, 463. ADVANCED ANALYTICAL CHEMISTRY. A study of gravimetric, volumetric and instrumental methods of analysis. Problem solving is emphasized. One lecture, two laboratory periods per week. Three credits; autumn, winter, spring. (131, 132, 133)

477, 478, 479. SPECIAL PROBLEMS IN CHEMISTRY. 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. Autumn, winter, spring. (191, 192, 193)

*496. HISTORY OF CHEMISTRY. Two credits; spring. (196)

*Net offered the current year.
EDUCATION

MR. SILVER, MRS. GROVE, MRS. JONES, MR. LEONIE, MR. MANALAYSAY, MRS. MANALAYSAY, MR. RAGAN, MR. RHODES, MR. STAHLNECKER

The College offers teacher-education programs leading to the bachelor's degree with Washington State and denominational certification for elementary and secondary teaching. Generally, a degree and the first certificate (provisional) can be earned in four years of college.

Candidates who wish to obtain the Washington State Standard Certificate will need to complete two years of successful teaching and a fifth year in college. The Standard Certificate requires 45 quarter credits beyond the bachelor's degree and the provisional certificate. The fifth year program must be planned with the chairman of the Education Department. Students desiring to combine the requirements of the fifth year and the Master's Degree will in many cases be able to do this. Consult the bulletin of the Graduate Division.

Those planning to teach at the elementary level should follow the program leading to the Bachelor of Science degree with the elementary teaching major. Those planning for secondary teaching, including junior high school level, should follow one of the regular bachelor's degree programs with a major and minor. In addition, candidates must meet the requirements of courses in education. In all cases, consult the chairman of the Education Department.

CANDIDACY

To be approved as a candidate for any of the teacher certification programs, the student must complete forty-five credits in college and the course Introduction to Education, and must have earned an overall grade-point average of 2.2 or higher. All programs leading to teacher certification must be approved by the Teacher Education Council.

Particular attention is given to planning each program to fit the needs of the individual student. Those transferring from other colleges should plan carefully with the Education Department to avoid unnecessary duplication of course work.

REQUIREMENTS FOR PROVISIONAL ELEMENTARY CERTIFICATION

I. GENERAL EDUCATION

Candidates must meet the basic requirements for the Bachelor of Science degree as listed on pages 42, 43 with the following inclusions:

- Survey of Mathematics 12
- Physical Science 12
- Biological Science 12

II. PROFESSIONAL EDUCATION

Introduction to Education 210 3
Educational Psychology 220 3
Teaching of Language Arts 361 5
Teaching of Social Studies 365 3
Educational Evaluation 430 3
Human Growth and Development 434 3
Directed Teaching 450 12

*May be deferred to the fifth year.
EDUCATION

Methods and Curriculum 470 3
*Music in the Elementary School 223 3
*Art in the Elementary School 306 3
*Science in the Elementary School 369 3
*Mathematics in the Elementary School 373 3

School

Students will enroll for the course Methods and Curriculum during the same quarter in which they do the Directed Teaching. Arrangement for directed teaching must be made at least six weeks prior to the quarter in which it is to be done. Students will need to arrange for the autumn quarter during the spring quarter.

III. MINORS

In addition to the requirements listed in I and II above, the student will complete a minor in each of two areas taught in the public schools. Students who so desire may choose a major as a part of the teaching area requirement.

IV. ADDITIONAL REQUIREMENTS

Credits in Literature 6
Geography 3
*Political Science 3
*History of the Pacific Northwest 3
*Health Education 3

REQUIREMENTS FOR PROVISIONAL SECONDARY CERTIFICATION

I. GENERAL EDUCATION

Candidates must complete the basic requirements for the Bachelor of Science degree or for the Bachelor of Arts degree as listed on pages 39-44.

II. PROFESSIONAL EDUCATION

Introduction to Education 210 3
Educational Psychology 220 3
Human Growth and Development 435 3
Educational Evaluation 430 3
Methods and Curriculum 470 3
Methods Course 471, 472 or 473 3
Directed Teaching 460 12
*Counseling and Guidance 481 3

Students will enroll for the course Methods and Curriculum during the quarter in which they do the Directed Teaching. Arrangement for directed teaching must be made at least six weeks prior to the quarter in which it is to be done. Students will need to arrange for the autumn quarter during the spring quarter.

III. TEACHING AREAS

Students planning for the secondary school teaching certificate will complete a regular college major and minor. Students who have completed majors in subjects not taught in the public secondary schools, may meet the certification requirements by completing minors in two-approved subjects.

*May be deferred to the fifth year.
TEACHER EDUCATION

The budding teacher spends much of his time in the classrooms and on the playgrounds of the elementary schools in the Walla Walla area.
GENERAL COURSES IN EDUCATION

110. PHILOSOPHY OF CHRISTIAN EDUCATION. A study of the ideals and principles of Christian education, especially as interpreted by the Seventh-day Adventist Church. Two credits; autumn, winter or spring. (41, 42, 43)

121, 122, 123. GENERAL PSYCHOLOGY. 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. Two credits: autumn, winter, spring.

210. INTRODUCTION TO EDUCATION. A study of the historical and philosophical backgrounds with the current organization and objectives of American education. Three credits; autumn, winter or spring. (51, 52 or 53)

220. EDUCATIONAL PSYCHOLOGY. This course emphasizes the application of psychological principles to the art of teaching. The responsibility of the school in developing a dynamic, social, and ethical personality is stressed. The practices of the modern school are studied in the light of empirical findings, experimental research, and case studies. Three credits; autumn, winter or spring. (63)

224. ELEMENTARY ARTS AND CRAFTS. Practical design and construction with a variety of materials adapted to arts and crafts. A fee to cover cost of materials will be charged. Two credits; autumn.

NOTE: Prerequisite for entering courses numbered above 300 is an overall grade-point average of 2.2 in all college courses.

*349. SCHOOL HOME ADMINISTRATION. A course designed especially for those interested in school home work in boarding schools, covering the development, mission, and organization of school homes, with emphasis on the fostering of spiritual and cultural ideals and leadership, in the light of the educational standards of Seventh-day Adventists and the recent developments in the field of personnel work. Three credits; spring. (129)

404. HISTORY OF EDUCATION. A survey of the history of education from early times to the present. Three credits; autumn. (154)

428. INTRODUCTION TO COUNSELING. Consideration of effective techniques of counseling individuals in the solution of personal problems in the school, family, church, and community. Prerequisite: 121, 122, 123. Two credits; spring. (166)

430. EDUCATIONAL EVALUATION. A study of methods and instruments for the evaluation of aptitudes, achievement, and personality in the school, including practical work in test construction for the elementary and secondary levels. Three credits; winter or spring. (330 & 118, 119)

431. PSYCHOLOGY OF EXCEPTIONAL CHILDREN. Characteristics and problems of all types of exceptional children with consideration of essential educational adaptation. Prerequisite: 121, 122, 123. Three credits; summer.

434, 435. HUMAN GROWTH AND DEVELOPMENT. Principles of growth as related to various phases of human development: physical, men-

*Not offered the current year.
EDUCATION

tal and emotional. Deals with attitudes, ideals and concepts of values as these relate to personality maturation. The first quarter will cover the child through the elementary school levels; the second quarter deals with the adolescent period. Prerequisite: 121, 122, 123. Three credits; autumn, winter. (112 or 113)

441HPE. SCHOOL HEALTH EDUCATION. See Health & PE.

444. SOCIAL PSYCHOLOGY. A study of personality patterns that function in the interpersonal and intergroup life into which all human beings are born, and within which they develop and mature. The course is concerned with human behavior, attitudes, and processes of the phenomena of communication, suggestion, conflict, accommodation, assimilation, and socialization. Three credits; autumn. (174)

463. METHODS OF AUDIO-VISUAL EDUCATION. A survey of the methods of instruction through the use of audio-visual aids, including recording devices, motion pictures, slides, film strips, charts, maps, posters, opaque projection, flat pictures, and blackboard illustrations. Three credits; spring. (183)

ELEMENTARY AND SECONDARY EDUCATION

187, 188, 189PE. PROFESSIONAL ACTIVITIES I. See Physical Education.

207M. PIANO PEDAGOGY. See Music.

277, 278, 279M. BRASS METHODS. See Music.

281, 282, 283M. WOODWIND METHODS. See Music.

284, 285, 286M. STRING METHODS. See Music.

287, 288, 289M. PERCUSSION METHODS. See Music.

287, 288, 289HPE. PROFESSIONAL ACTIVITIES II. See Physical Education.

305Eng. CHILDREN'S LITERATURE. See English.

361. TEACHING OF LANGUAGE ARTS. Materials, objectives, and methods used in the teaching of the language arts in the elementary school. Pertinent to the teaching of composition, spelling, reading, listening, speaking. Five credits; autumn. (139)

365. TEACHING OF SOCIAL STUDIES. Materials, objectives, and methods used in teaching social studies in the elementary school, chosen from the fields of geography, history, and civics. Three credits; winter. (132) (362)

369. SCIENCE IN THE ELEMENTARY SCHOOL. Objectives, and materials used in the teaching of science at the primary and intermediate levels with particular emphasis on the application of the scientific method. Three credits; spring.

373. MATHEMATICS IN THE ELEMENTARY SCHOOL. Methods of teaching modern mathematics in the elementary school. Prerequisite: Mathematics 111, 112, 113. Three credits; spring.

381M. VOICE METHODS. See Music.

449. DIRECTED TEACHING. Practical experience in working with primary and intermediate children in a program of varied school activities. Prerequisite: At least one year of teaching experience. Permission from the chairman of the department is required. Three credits; summer. (101 S)
450. DIRECTED TEACHING. Professional laboratory experiences for students preparing to teach on the elementary level. Taken as one complete quarter’s work in conjunction with Education 470, Methods and Curriculum. Arrangements must be made through the department prior to the quarter during which the directed teaching is to be done. Arrangement for directed teaching during the autumn quarter must be made in the spring. Twelve credits; autumn, winter, or spring. (101, 102, 103)

460. DIRECTED TEACHING. Professional laboratory experiences for students preparing to teach on the secondary level. Taken as one complete quarter’s work in conjunction with Education 470, Methods and Curriculum. Arrangements must be made through the department prior to the quarter during which the directed teaching is to be done. Arrangement for directed teaching during the autumn quarter must be made in the spring. Twelve credits; autumn, winter, or spring. (147, 148, 149)

470. METHODS AND CURRICULUM. Meets daily for two or three periods during the first and last weeks of the quarter. Considers the basic principles of curriculum and instruction, fundamental teaching procedures which are applicable at any grade level. Includes orientation in organization of classroom procedures, keeping records, making reports, guiding and disciplining students, and other activities which support the instructional program. Three credits; autumn, winter, or spring. (340, 121, 122)

471, 472 or 473. METHODS COURSES. Several methods courses are offered by the various departments of the College. They deal with materials and specific methods applicable to the teaching of each individual subject. Actual classroom presentation and demonstration is included. Three credits. (All have the same numbers.) (197)

477, 478, 479. SPECIAL PROBLEMS IN EDUCATION. 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 to students preparing for teacher certification. Permission from the chairman of the department is required. One to three credits any quarter. Maximum, three credits; autumn, winter, spring. (280)

481. COUNSELING AND GUIDANCE. Principles and techniques of individual and group counseling with emphasis on the scope; needs; organization of the program; services to students, the instructional staff, and the administration; personnel needed for the program. Three credits; spring. (252)

GRADUATE COURSES

501. STATISTICS IN EDUCATION AND PSYCHOLOGY. Statistical procedures and interpretations particularly as applied to research in education, psychology and related fields. Three credits; summer.

504. ELEMENTARY SCHOOL CURRICULUM. A study of the elementary school curriculum, including objectives, essentials of a good program, varying curriculum patterns and appraisal of current practices. Three credits; autumn.

509. VOCATIONAL GUIDANCE. A study of current materials and trends in educational and vocational guidance. Three credits; spring or summer.

511. LITERATURE IN THE SECONDARY SCHOOL. A survey of literature suitable to grades 7-12 with attention to evaluation, selection, authors, illustrators, and publishers. Three credits; summer. (211)
521. **PSYCHOLOGY OF LEARNING.** The course includes analysis of the mechanisms involved in the learning process. The physiological and psychological bases for functional learning are discussed, and the experimental evidence supporting psychological hypotheses is reviewed. Three credits; autumn. (221)

522. **PHILOSOPHY OF EDUCATION.** 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. Three credits; winter. (222)

525. **EDUCATION IN THE TWENTIETH CENTURY.** Historical background of modern education with emphasis on trends and developments in the twentieth century. Three credits; winter. (223)

526. **SCHOOL FINANCE.** A course designed for administrators, emphasizing origin and disbursement of school funds derived from tax sources and other revenues. Techniques of budget construction are studied and a general overview is given of the principles of financing education. Three credits; summer. (226)

527. **SCHOOL PLANNING AND CONSTRUCTION.** 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. Three credits; summer. (227)

531. **INDIVIDUAL TESTING—BINET.** A course designed to familiarize the student with the Stanford-Binet Intelligence Scale, its administration and interpretation. Arrangements should be made through the department chairman. Three credits; summer. (231)

532. **INDIVIDUAL TESTING—WAIS.** A course designed to familiarize the student with the Wechsler Adult Intelligence Scale, its administration and interpretation. Arrangements should be made through the department chairman. Three credits; summer. (232)

533. **INDIVIDUAL TESTING—WISC.** A course designed to familiarize the student with the Wechsler Intelligence Scale for Children, its administration and interpretation. Arrangements should be made through the department chairman. Three credits; summer. (233)

535. **REMEDIAL READING.** Diagnostic and remedial reading techniques, how to recognize reading difficulties and improve reading skills. Three credits; summer. (235)

539. **SUPERVISION.** For principals, classroom teachers or those planning to be supervisors. Problems, responsibilities, privileges and duties of both teacher and supervisor, and the improvement of teachers in service through a comprehensive program of supervision. Three credits; spring.

544. **ADMINISTRATION OF THE ELEMENTARY SCHOOL.** Organization, supervision, and administration of elementary schools. Three credits; summer. (244)

549. **MENTAL HEALTH IN EDUCATION.** Physiological and psychological factors related to emotional maturity. Identification of mental health activities. Individual mental health, classroom climate, patterns of acceptance and rejection. Three credits; spring. (249)

551. **ADMINISTRATION OF THE SECONDARY SCHOOL.** Problems and procedures in the organization of secondary schools. Three credits; autumn. (251)
556. **CURRICULUM PLANNING.** 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. Three credits; spring. (256)

560. **ADMINISTRATIVE PRACTICUM.** Professional laboratory experience for candidates for an administrative credential. The course is designed to involve each candidate in a variety of practical administrative experience and to assist in his successful induction into school leadership. Five to ten credits; any quarter.

561. **METHODS OF RESEARCH.** Procedures in the selection and evaluation of research projects, and techniques in the analysis of research data. Three credits; autumn. (261)

570. **TOPICS.** Selected topics in education involving individual research and reports in addition to regular class activities. Three credits; any quarter. Maximum, six credits.

567. **COMPARATIVE EDUCATION.** A comparison of systems and philosophies of education in various parts of the world; emphasis on the role of cultural impacts. Three credits; spring.

580. **PROFESSIONAL PROJECT.** Non-thesis candidates for the Master's degree register under this number for the professional paper. Three credits; any quarter.

590. **THESIS.** Eight credits; any quarter. (290)
ENGIN EERING

MR. CROSS, MR. BENNETT, MR. COLE, MR. MASDEN, MR. NOEL

The College offers courses leading to the degree of Bachelor of Science in Engineering, with curriculums in civil, electrical and mechanical engineering. The aim of the engineering course is to prepare students to practice professional engineering. This involves the art and skill of applying mathematics, science, economics and ethics to the problems of research, development, design and construction of devices, machines, and structures which will benefit mankind.

The curriculum in civil engineering gives primary consideration to structural design, but includes also the areas of soils, highways, and elementary sanitary engineering. In electrical engineering the emphasis is particularly upon those problems that are related to the fields of electrical machinery, electronics, and communications. In mechanical engineering the predominant instructional areas are machine design, thermodynamics and heat transfer, and the beginning phases of structures and electrical engineering.

Students who plan to enroll as engineering freshmen should have a strong background of mathematics, physics, chemistry, history and English. No student with fewer than two years of preparatory training in mathematics can be admitted to the engineering course except on a provisional basis until such a deficiency is removed.

College students who pursue a pre-engineering program at another liberal arts college may complete the requirements for an engineering degree at Walla Walla College.

Admissions to engineering will be made only in September, except for certain advanced students. Satisfactory progress is contingent upon full attendance for all three quarters, and the maintenance of a C average grade. Since there is no clear distinction between major and minor courses, the grade of D in any subject will be interpreted as follows: A grade of D may be accepted for credit toward the degree provided there are no more than two such marks in any given quarter, and further provided that the grade-point average for that quarter is not lower than 2.00. Where these conditions do not hold, a grade of D will necessitate repeating the course, whether it is engineering or nonengineering in nature.

In the senior year the following non-course requirements should be met: inspection trip, thesis, and a satisfactory score on the Graduate Record Examination.

The stipulated requirements for the degree of Bachelor of Science in Engineering are as follows:
## CIVIL ENGINEERING

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<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
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<td>Structural Design &amp; Analysis</td>
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<td>E &amp; M Circuit Analysis</td>
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<td>Sewage Disposal</td>
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<td>Soil Mechanics</td>
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<td>Transportation Engineering</td>
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<td>Nuclear Physics</td>
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<td>Contracts &amp; Specifications</td>
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## ELECTRICAL ENGINEERING

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<td>Electric Field Analysis</td>
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<td>Transient Anal.</td>
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<td>Radio Engineering</td>
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<td>Network Analysis</td>
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<tr>
<td>Nuclear Physics</td>
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<td><strong>Total</strong></td>
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## MECHANICAL ENGINEERING

### First Year
- Religion 6
- Freshman Composition 9
- Fundamentals of Math. 8
- Anal. Geom. & Calculus 4
- Inorganic Chemistry 15
- Engineering Drawing 6
- Engineering Problems 3
- Physical Education 3

**Total:** 54

### Second Year
- Religion 6
- Introductory Physics 12
- Anal. Geom. & Calculus 12
- Engineering Mechanics 8
- Mechanics of Materials 4
- E & M Circuit Analysis 12

**Total:** 54

### Third Year
- Religion 6
- Differential Equations 8
- Mathematics Elective 3-4
- Mechanism 4
- Fluid Mechanics 4
- Engineering Thermodynamics 8
- Electric Machinery 8
- Mechanical Eng. Lab I 3
- Survey of Metal Practice 9

**Total:** 53-54

### Fourth Year
- Phil. of Chr. Ed. 2
- Religion or Electives 4
- Engineering Administration 3
- Engineering Materials 6
- Transients 3
- Heat Transfer 4
- Machine Design 9
- Mechanical Eng. Lab II 2
- Electronics 6
- Nuclear Physics 6
- Structural Design 9

**Total:** 52-54

## CIVIL ENGINEERING

**CE 204.** ELEMENTARY SURVEYING. Use of transit, level, and chain; systematic methods for notes and computations; transit traverse, stadia survey; leveling, contours, mapping, and public land surveys. Prerequisite: Mathematics 122, ME 101-102-103. Three credits; autumn. (CE 54)

**CE 205.** CURVES AND EARTHWORKS. Theory and computation of simple, compound, and transition curves; earthwork computations. Prerequisite: CE 204. Two credits; winter. (CE 55)

**CE 206.** ROUTE SURVEYING. Preliminary and location surveys for land transportation routes; preparation of maps and reports. Prerequisite: CE 204 and 205. Three credits; spring. (CE 56)

**CE 243.** MECHANICS OF MATERIALS. Stresses, deformations and deflections of posts, shafts, beams, columns; combined stresses. Prerequisite: ME 201-202. Four credits; spring. (CE 73)

**CE 303** CONTRACTS AND SPECIFICATIONS. Preparation and interpretation of contracts and specifications; relation of the engineer to the owner and contractor. Two credits; spring. (CE 103)

**CE 304.** SOIL MECHANICS. Fundamental principles; testing and classification of soils for use in foundations and highway subgrades; interpretation of test results, basic geology. Four credits; autumn.

**CE 305.** TRANSPORTATION ENGINEERING. Highway, railroad, and airport planning, design and construction; introduction to traffic engineering. Prerequisite: CE 206, 304. Three credits; winter. (CE 106)
CE 361. ELEMENTARY STRUCTURAL ANALYSIS. Graphical and algebraic analysis of statically determinate structures; influence diagrams, criteria for maxima; moving loads. Prerequisite: CE 243. Three credits; autumn. (CE 131)

CE 362. STRUCTURAL DESIGN—TIMBER. Analysis and design of elements of timber structures; fastenings, beams, columns and trusses; glued laminated members. Prerequisite: CE 361. Three credits; winter. (CE 132)

CE 363. STRUCTURAL DESIGN—STEEL. Analysis and design of elements of steel structures; connections, welding, beams, girders, columns, trusses, and bearings. Prerequisite: CE 361. Three credits; spring. (CE 133)

CE 364. INDETERMINATE STRUCTURAL ANALYSIS. Analysis of statically indeterminate structures; continuous beams, trusses, rigid frames, and arches. Prerequisite: CE 361. Four credits; autumn. (CE 134)

CE 389. HYDROLOGY. Precipitation, runoff, storage, and methods of measurement. Three credits; spring. (CE 149)

CE 433. WATER SUPPLY. Fundamental processes in the collection, distribution, and conditioning of water for public use; design and operation of waterworks. Prerequisite: ME 321; CE 389. Three credits; spring. (CE 167-168-169)

CE 436. SEWAGE DISPOSAL. Fundamentals of the collection, treatment, and disposal of human and industrial wastes; design considerations. Prerequisite: ME 321; CE 389. Three credits; spring. (CE 167-168-169)

CE 461. STRUCTURAL DESIGN—CONCRETE. Analysis and design of elements of reinforced concrete structures; beams, slabs, girders, columns, and footings. Prerequisite: CE 364. Four credits; autumn. (CE 181)

CE 462. ADVANCED STRUCTURAL DESIGN—STEEL. Design of statically indeterminate steel structures; industrial buildings, bridges, multi-story buildings; introduction to plastic design. Five credits; winter. (CE 182)

CE 463. ADVANCED STRUCTURAL DESIGN—REINFORCED CONCRETE. Design of statically indeterminate reinforced concrete structures; buildings, bridges; introduction to ultimate strength design and pre-stressed concrete. Five credits; spring. (CE 183)

CE 466. FOUNDATIONS. Analysis and design of foundations and other substructures including concrete footings, pile foundations, retaining walls, cofferdams, and caissons. Prerequisite: CE 304, 461. Three credits; spring. (CE 186)

ELECTRICAL ENGINEERING

EE 224-225-226. ELECTRIC AND MAGNETIC CIRCUIT ANALYSIS. Electrical circuit variables and parameters; Ohm's law and resistance; Kirchoff's laws, network theorems and analysis, electrical measurements, nonlinear circuits, basic field concepts and their relation to circuits; steady state analysis by phasors, frequency characteristics of simple circuits. Corequisite: Mathematics 281, 282, 283. Four credits; autumn, winter, spring. (EE 64-65-66)

EE 334. INTRODUCTION TO MODERN COMPUTERS. Introduction to the use of analog and digital computers in the solution of engineering problems. For the analog computer, the basic computing circuits, time and
amplitude scaling and programming will be considered. For the digital
computer, analysis of the problem, flow charting and coding will be con-
sidered. Prerequisite: Mathematics 312. Primarily for engineering stu-
dents; limited enrollment. Two credits; autumn.

EE 421-422. ELECTRIC MACHINERY. Characteristics of DC motors,
generators, and associated control equipment, transformers and their appli-
cation in single and polyphase circuits; induction motors; synchronous
motors, alternators; single phase motors and other special types of rotat-
ing machines; metering techniques; consideration of applications. Pre-
requisite: EE 224-225-226. Four credits; autumn, winter. (EE 161-162)

EE 426. ELECTRIC AND MAGNETIC FIELD ANALYSIS. A study of
the properties of static and dynamic electric and magnetic fields with
particular emphasis given to Maxwell's equations in vector differential
form; development of the wave equation in dielectric and conducting
media; reflections at boundaries. Prerequisite: EE 224-225-226. Coreq-
uisite: Mathematics 351, 353. Four credits; spring. (EE 163)

EE 442-443. RADIO ENGINEERING. Tuned circuits and their use in
bandpass amplifiers, tuned power amplifiers, oscillators; feedback, noise;
AM and FM modulation and demodulation processes, transmitters and
receivers. Prerequisite: Physics 321-322-323. Four credits, winter; five
credits, spring. (EE 172-173)

EE 444. TRANSIENT ANALYSIS. A study of simple electrical and
mechanical components in which emphasis is placed upon the behavior
of the response function when sudden changes are made in the excitation
function and/or other system parameters. Both classical and Laplace
transform methods are applied. Prerequisite: EE 224-225-226. Math-
ematics 312, 351, 353. Three credits; autumn. (EE 174)

EE 464. WAVE PROPAGATION AND RADIATION. Solution of the
electromagnetic wave equation in transmission lines, wave guides and
radiation from simple antennae. Application of Smith chart to solution
of problems. Prerequisite: EE 426 or equivalent. Four credits; autumn.
(EE 184)

EE 465. NETWORK ANALYSIS. A study of the properties of the
impedance and admittance functions defined on the complex plane, includ-
ing pole and zero concepts and their application to the analysis and design
of reactive networks. Prerequisite: EE 444. Three credits; winter. (EE 185)

EE 469. WAVE PROPAGATION LABORATORY. A laboratory study
of wave propagation along lossless and lossy transmission lines and in
rectangular wave guides; basic techniques of measuring microwave quan-
tities. Prerequisite: EE 464. Two credits; winter. (EE 189)

EE 486. SYSTEM ANALYSIS. An introduction to control and feed-
back systems made up of electrical, mechanical and electro-mechanical
components, including: system components, multi-terminal component con-
cepts, stability criteria, and the use and limitations of block diagrams
and signal flow methods. Prerequisite: EE 465. Four credits; spring.

MECHANICAL ENGINEERING

ME 101-102-103 ENGINEERING DRAWING. Lettering; theory and
practice of projection drawing; conventional and simplified practices; pic-
torial representation; detail and assembly drawings; problems in descrip-
tive geometry, developments and intersections; engineering applications.
Two credits; autumn, winter, spring. (ME 1-2-3)
ME 104-105-106. ENGINEERING PROBLEMS. Orientation lectures, graphics, slide rule, engineering problems, calculating methods. One credit; autumn, winter, spring.

ME 201-202. ENGINEERING MECHANICS. Statics, two and three dimensional; analytical and graphical methods; kinetics; work and energy; dynamics of rotation, translation, and plane motion; impulse and momentum. Corequisite: Physics 201, 202, Mathematics 181. Four credits; autumn, winter. (ME 51-52)

ME 321. FLUID MECHANICS. Fluid statics; fluid dynamics; nozzles, orifices, and weirs; impulse and reaction turbines; pipe flow; channel flow. Prerequisite: ME 201-202. Four credits; autumn. (ME 111)

ME 322, 323. ENGINEERING THERMODYNAMICS. Properties of gases and vapors; entropy; PV, TS, HS, and HV planes; gas and vapor cycles; psychrometry; applications. Prerequisite: Physics 201, 202, 203. Four credits; winter, spring. (ME 112, 113)

ME 329. MECHANISM. A study of velocities, accelerations, and motions; consideration of devices for transferring these motions. Prerequisite: ME 201-202. Four credits; spring. (ME 119)

ME 342. ENGINEERING ADMINISTRATION. Business, economic, and ethical phases of engineering practice; engineering organization. Three credits; winter. (ME 122)

ME 367, 368, 369. MECHANICAL ENGINEERING LABORATORY I. Fuels and lubricants; calorimetry; instrumentation, calibrations. Corequisite: ME 321, 322, 323. One credit; autumn, winter, spring. (ME 137, 138, 139)

ME 381-382-383. MACHINE DESIGN. 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. Prerequisite: ME 329, CE 243. Corequisite: ME 401. Three credits; autumn, winter, spring. (ME 141-142-143)

ME 401-402. ENGINEERING MATERIALS. Study of the science of engineering materials—metallic and non-metallic; properties, uses, tests, behavior under stress; laboratory. Three credits; autumn, winter. (ME 151-152)

ME 404, 405. MECHANICAL ENGINEERING LABORATORY II. Testing of mechanical equipment; heat-power studies. Prerequisite: ME 367, 368, 369. One credit; autumn, winter. (ME 154, 155)

ME 449. HEAT TRANSFER. A study of the basic laws of heat transfer by conduction, convection, and radiation. Prerequisite: ME 322, 323, Mathematics 421, 422. Four credits; spring. (ME 179)
ENGLISH

MR. APLINGTON, MISS BURGESON, MR. BURNS, MISS CHAMBERS, MRS. EVANS, MRS. KNAPP, MRS. LAY, MISS MOORE

The primary objective of the department is the development of competence in the use of the English language, so that students may express themselves clearly and effectively. The department also seeks to inspire students with the best in the world's literature.

MAJOR REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE:

<table>
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<tr>
<th>Course</th>
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<td>Introduction to Literature</td>
<td>203</td>
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<td>American Literature</td>
<td>224, 225, 226</td>
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<tr>
<td>English Literature</td>
<td>244, 245, 246</td>
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<tr>
<td>Seminar</td>
<td>491-492-493</td>
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<td>*Electives, 18 upper division</td>
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<td>Eighteenth Century Literature</td>
<td>427-428-429</td>
</tr>
<tr>
<td>Old &amp; Middle English Literature</td>
<td>441-442-443</td>
</tr>
<tr>
<td>Seventeenth Century Literature</td>
<td>464, 465, 466</td>
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*Choose from the following:

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Twentieth Century Literature</td>
<td>402</td>
</tr>
<tr>
<td>The Victorian Period</td>
<td>404, 405, 406</td>
</tr>
<tr>
<td>American Literary Masters</td>
<td>407, 408, 409</td>
</tr>
<tr>
<td>The Romantic Period</td>
<td>421, 422, 423</td>
</tr>
<tr>
<td>Literature of the Bible</td>
<td>469</td>
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Required Cognates:

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<tr>
<td>Advanced English Grammar</td>
<td>306</td>
</tr>
<tr>
<td>Creative Writing</td>
<td>385</td>
</tr>
<tr>
<td>History 201, 202, 203 or 404, 405, 406</td>
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</table>

MINOR REQUIREMENTS:

<table>
<thead>
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<th>Course</th>
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<tr>
<td>American Literature</td>
<td>224, 225, 226</td>
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<tr>
<td>English Literature</td>
<td>244, 245, 246</td>
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<tr>
<td>Writing courses (beyond Freshman Composition)</td>
<td>6</td>
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<tr>
<td>Electives, upper division</td>
<td></td>
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</tbody>
</table>

COMPOSITION

101-102-103. FRESHMAN COMPOSITION. Fundamental principles of composition: syntax, effective sentence structure, punctuation, paragraph development, organization of material, writing the various types of themes, and reaction to a reading program. English 101 or 101A will be repeated in the winter, spring, or summer when the demand is sufficient. Three credits; autumn, winter, spring. (1-2-3)
101A-102-103. FRESHMAN COMPOSITION. This course differs from the preceding one in that during the first quarter only it meets five times a week in order to accommodate those who need a review in fundamentals or extra attention to basic details. Three credits; autumn, winter, spring.

282. ADVANCED WRITING. The student meets the writing situations he is most likely to face in his after-college life: letters, reports, directions, and other types of exposition. He is asked to read and analyze examples of successful writing, to discover both the logic and the psychology of what he reads, and to employ in his own writing methods which he sees experienced writers have used effectively. Three credits; winter. (92)

306. ADVANCED ENGLISH GRAMMAR. The study of grammar and usage in current writing. Required of all English majors and recommended for minors and others who may teach English. Three credits; spring.

385. CREATIVE WRITING. A course designed for those who have already mastered the mechanics of writing and who aspire to a level of creativity higher than that of mere correctness and clarity. Three credits; winter. (145)

LITERATURE

203. INTRODUCTION TO LITERATURE. A study of the basic principles, the philosophy and nature of literary art, and the technical terminology together with an analysis of examples of the various forms and types of poetry and prose. Three credits; spring. (53)

224, 225, 226. AMERICAN LITERATURE. A survey of American literature with particular attention to the cultural complexes and philosophies that have characterized the various periods of literary history in this country. Two credits; autumn, winter, spring. (64, 65, 66)

244, 245, 246. ENGLISH LITERATURE. A chronological study of English literature with emphasis on the major writers and movements from Beowulf to about 1900. Literature is correlated with the other fine arts at appropriate times through the course. Three credits; autumn, winter, spring. (74, 75, 76)

Courses numbered above 300 have as prerequisites the appropriate lower division preparation which varies according to the student's background in other languages and in history. Consult the department for direction.

305. CHILDREN'S LITERATURE. A survey of children's literature for the elementary school. This course is required of and limited to candidates for elementary school teacher certification, and for them it may satisfy part of the basic requirements of five credits of literature. Three credits; winter. (105)

402. TWENTIETH CENTURY LITERATURE. Modern American and British literary achievements studied as a revelation of contemporary attitudes, ideals, and conduct. Three credits; winter. (82)

404, 405, 406. THE VICTORIAN PERIOD. An advanced study of the poetry and prose of the men who molded and reflected characteristic opinion and ideas after the first third of the nineteenth century. Three credits; autumn, winter, spring. (154, 155, 156)

407, 408, 409. AMERICAN LITERARY MASTERS. An advanced study of a restricted number of American writers who have given significant distinction to American letters. Two credits; autumn, winter, spring. (157, 158, 159)
421, 422, 423. THE ROMANTIC PERIOD. An analytical examination of the emergence of Romantic ideals and their manifestation in literature, beginning with the pre-Romantic school to 1832. Two credits; autumn, winter, spring. (161, 162, 163)

425. HISTORY OF THE ENGLISH LANGUAGE. 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. Required for those seeking departmental recommendation for teaching. Three credits; winter. (165)

427-428-429. EIGHTEENTH CENTURY LITERATURE. Neoclassic ideas and achievements as reflected in the chief writers of the time from Bunyan and Dryden to Johnson. Two credits; autumn, winter, spring. (167-168-169)

441-442-443. OLD AND MIDDLE ENGLISH LITERATURE. An examination and study in its historical setting of English literature from the earliest Anglo-Saxon remains to about 1450. The Old English works are studied in translation and the Middle English, including Chaucer, largely in originals. Three credits; autumn, winter, spring. (171-172-173)

464, 465, 466. SEVENTEENTH CENTURY LITERATURE. Detailed exploration in the significant nondramatic literature that reflects the essential temper of the Renaissance period, with chief emphasis on Spenser, Bacon, and Milton. Three credits; autumn, winter, spring. (184, 185, 186)

469. LITERATURE OF THE BIBLE. Reading of both poetry and prose in the Old Testament, with a detailed study of the poem of Job as probably the greatest masterpiece in any language. (189)

472. METHODS OF TEACHING ENGLISH IN THE SECONDARY SCHOOL. Content, organization, methods and techniques of teaching English and related subjects in the secondary school. Observation, demonstration, and class presentation are required of the students as a part of this course. Three credits; winter. (197)

491-492-493. SEMINAR. An integrating course required of English majors in the senior year and recommended to minors. The study includes: aims, methods, and materials of English scholarship; investigation of problems peculiar to the class personnel; group conferences and reports. One credit; autumn, winter, spring. (194-195-196)
HEALTH AND PHYSICAL EDUCATION

MR. WINTER, MR. DAHLBECK, MRS. JONES

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

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. A major and a minor are available in physical education.

HEALTH

110. HEALTH PRINCIPLES. A study of the healthy, wholesome personality including the underlying principles governing the harmonious development of the human body. It includes personal, home and community health. Two credits; autumn, winter or spring. (14, 15, 16)

266. PRINCIPLES OF COMMUNITY HEALTH. A study of community health problems which United States citizens are facing and their most feasible solutions to date. Prerequisite: 110. Three credits; spring.

282. SCHOOL SAFETY AND FIRST AID. Emphasis upon prevention of accidents common in various school situations, first aid bandaging and care of injuries. Value of massage, diathermy, etc. Value of body conditioning. Three credits; winter.

410. COMMUNITY HEALTH TEACHING. A study of the principles, methods, and materials used in disease prevention and health conservation. Experience will be given in participation in such programs in the community. Three credits; winter or spring. (178 or 179)

441. SCHOOL HEALTH EDUCATION. A study of basic principles of teaching health in elementary and secondary schools. Sources, selection, and use of materials in this field. Three credits; autumn. (171)

442. HEALTH ADMINISTRATION. A study of the administration of health programs in secondary schools and colleges. Participation in health activities is included. Three credits; spring. (173)

484, 485, 486. DIRECTED TEACHING IN HEALTH. This course is primarily designed for students who wish to do directed teaching in health and allied areas. The students will participate in the regular duties pertaining to teaching, such as observation, class presentation, student counseling, teaching and supervision. Studies will be made of materials for the various levels of students. Admission on approval of the supervisor. Three to nine credits; autumn, winter, spring. (194, 195, 196)

PHYSICAL EDUCATION

GENERAL REQUIREMENTS OF ALL STUDENTS

All students are required to complete a total of three credits of the service courses offered in the department of Physical Education. This requirement should be met during the student’s freshman and sophomore years.
HEALTH & PHYSICAL EDUCATION

Students above thirty years of age and veterans who can supply a copy of their separation papers before registration may be exempt from all requirements in physical education including the swimming and physical fitness tests.

**MAJOR REQUIREMENTS FOR A BACHELOR OF SCIENCE DEGREE:**

- Introduction to PE 182 2
- Professional Activities I 187, 188, 189 6
- Anatomy 264 3
- Kinesiology 265 3
- Intramural Activities and Officiating 284 3
- Professional Activities II 287, 288, 289 6
- Physiology of Exercise 363 3
- Professional Activities III 381, 382, 383 6
- Foundations of PE 421 3
- Tests and Measurements in PE 423 1
- Administration of PE and Health in Secondary Schools 426 3
- Seminar 492, 493 2
- Electives, upper division 492, 493 4

**Total** 45

**Required Cognates:**

- Biology 101, 102, 103; 104; 407.
- Chemistry 101-102-103
- Home Economics 220
- Health 110; 222; 410; 441

A minor in biology is recommended.

**MINOR REQUIREMENTS:**

- Introduction to PE 182 2
- Professional Activities I 187, 188, 189 6
- Foundations of PE 421 3
- Tests and Measurements in PE 423 1
- Administration of PE and Health in Secondary Schools 426 3
- Electives 426, 427 12

**Total** 27

**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 required to enroll in a swimming class in order to acquire this important skill. The student will be required to enroll in at least one team activity as well as an individual or dual type. At least one quarter of gymnastics is strongly recommended.

100. **FUNDAMENTALS OF PHYSICAL ACTIVITY.** A prerequisite for all service courses. Lecture, various methods of body development, physical fitness and motor ability tests, mass games and calisthenics. One credit; autumn, winter or spring.
WINTER SPORTS

Walla Walla College students take advantage of the snow in the Blue Mountains a few miles from the College.
201, 202, 203. PHYSICAL EDUCATION. Students may select from team activities such as basketball, volleyball, etc; or from individual or dual activities such as golf, tennis, tumbling, skiing, and water activities. Consult the class schedule. One credit; autumn, winter, spring. (51, 52, 53) (Maximum six credits)

PROFESSIONAL COURSES

*182. INTRODUCTION TO PHYSICAL EDUCATION. 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. Required of Physical Education majors and recommended for teachers. Two credits; winter. (42)

*187, 188, 189. PROFESSIONAL ACTIVITIES I. Primarily for students majoring or minoring in Physical Education. Methods, techniques, and the skills involved in various activities of the physical education program. Two credits; autumn, winter, spring. (47, 48, 49)

264. ANATOMY. Gross anatomy: a study of skeletal and muscular structure of the human anatomy. Three credits; autumn. (84)

265. KINESIOLOGY. Study of joint and muscular mechanism action of muscles involved in fundamental movements. Effect of gravity and other forces on motion. Prerequisite: 264. Three credits; winter. (85)

281. PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL. Preparation and administration of the activity program at the elementary level. Three credits; autumn. (91)

283. CORRECTIVE PHYSICAL EDUCATION. 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. Three credits; spring. (93)

*284. INTRAMURAL ACTIVITIES AND OFFICIATING. Mechanics of intramural organization and the art of officiating the various sports activities. Three credits; autumn. (94)

287, 288, 289. PROFESSIONAL ACTIVITIES II. Primarily for students majoring or minor in Physical Education. Methods, techniques and the skills involved in various activities of the physical education program. Prerequisite: 187, 188, 189. Two credits; autumn, winter, spring. (97, 98, 99)

363. PHYSIOLOGY OF EXERCISE. Physiological results of muscular exercise. Prerequisite: Biological Sciences 104. Three credits; spring. (133)

*381, 382, 383. PROFESSIONAL ACTIVITIES III. Primarily for students majoring or minor in Physical Education. Methods, techniques, and advanced skills involved in various activities of the physical education program. Prerequisite: 287, 288, 289. Two credits; autumn, winter, spring. (141, 142, 143)

421. FOUNDATIONS OF PHYSICAL EDUCATION. 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. Three credits; autumn. (161)

422. TESTS AND MEASUREMENTS IN PHYSICAL EDUCATION. A study of various testing devices which may be used in physical education. Practical experience will be given by test administration and scoring. Prerequisite: Education 490. One credit; spring. (162)

*Not offered the current year.
426. ADMINISTRATION OF PHYSICAL EDUCATION AND HEALTH IN SECONDARY SCHOOLS. Study of problems in schedules, organization, group activities, and testing needed on the secondary level. Three credits; spring. (163)

471. METHODS OF TEACHING PHYSICAL EDUCATION. Methods and techniques of teaching physical education in the secondary school. Observation, demonstration, and class presentation are required of the students as a part of this course. Three credits; autumn. (197)

477, 478, 479. SPECIAL PROBLEMS IN HEALTH AND PHYSICAL EDUCATION. 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. Autumn, winter, spring. (191, 192, 193)

492, 493. SEMINAR. A study of the modern trends in physical education. Group discussion and presentation of current material in the field. Prerequisite: senior standing. One credit; winter, spring. (195, 196)

RECREATION

343. CAMPCRAFT AND MANAGEMENT. A course to help in the preparation of competent summer camp leaders. Two lectures per week, with laboratory work in the form of junior group leading on occasion. Three credits; spring. (123)

344, 345, 346. ARTS AND CRAFTS. This course is offered to help plan the leisure time activity of young people as well as preparation for a hobby in later life. This includes lapidary and ceramics. Other crafts are taught in the Industrial Education Department. Two credits; autumn, winter, spring. (124, 125, 126)

403. LEADERSHIP IN CAMPING AND CAMPCRAFT. 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. Two credits; spring. (153)

424, 425, 426. ADVANCED ARTS AND CRAFTS. Continuation of 344, 345, 346, with special emphasis upon teaching methods, preparation of teaching aids, sources of material, cost, etc. Two credits; autumn, winter, spring.
HISTORY, POLITICAL AND SOCIAL SCIENCE

MR. MECKLING, MR. CHRISTIAN, MR. EICHNER, MRS. JONES, MRS. LEONIE, MR. LITKE

The department offers a major in history and minors in history, political science, and social science.

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; and to prepare teachers and social workers.

MAJOR REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE:

<table>
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<tr>
<th>Course</th>
<th>Credits</th>
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<tr>
<td>History of Civilization</td>
<td>101, 102, 103</td>
</tr>
<tr>
<td>History of the United States</td>
<td>201, 202, 203</td>
</tr>
<tr>
<td>Seminar</td>
<td>491, 492</td>
</tr>
<tr>
<td>Electives (Nine credits must be from the European area and nine credits from the American area. Nine credits may be selected from Political and Social Science in consultation with the department chairman.)</td>
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MINOR REQUIREMENTS:

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<td>101, 102, 103</td>
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<tr>
<td>History of the United States</td>
<td>201, 202, 203</td>
</tr>
<tr>
<td>Seminar</td>
<td>491</td>
</tr>
<tr>
<td>Electives (May select 3 credits from Political or Social Science in consultation with department chairman.)</td>
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28

COURSES

BASIC

101, 102, 103. HISTORY OF CIVILIZATION. A survey of world history from antiquity to the present. Three credits; autumn, winter, spring. (1, 2, 3)

201, 202, 203. HISTORY OF THE UNITED STATES. A survey of the colonial period, followed by a more detailed study of the national period. Three credits; autumn, winter, spring. (51, 52, 53)

EUROPEAN HISTORY

321, 322, 323. HISTORY OF THE ANCIENT NEAR EAST. A study of the major civilizations of antiquity as clarified by modern archaeological research. In tracing the development of the various successive empires of the ancient Mediterranean world, special emphasis is placed upon the history of Babylonia, Palestine, Egypt, Greece, and Rome. Two credits; autumn, winter, spring. (111, 112, 113)
404, 405, 406. HISTORY OF ENGLAND. The development and expansion of the English nation from the earliest times to the present including the development of the British Empire. Two credits; autumn winter, spring. (154, 155, 156)

*407, 408, 409. EUROPE SINCE 1815. Political, economic, and social developments in nineteenth and twentieth century Europe, with special attention to our own times. Three credits; autumn, winter, spring. (157, 158, 159)

*421, 422, 423. HISTORY OF RUSSIA. A general survey of the expansion of Russia, Tsarish experiments in political and social reform, the rise and spread of revolutionary socialism, the collapse of the Russian Empire during the First World War, the postwar history of the U.S.S.R., including its conflict with Germany in World War II. Two credits; autumn, winter, spring. (161, 162, 163)

427. THE LATE MIDDLE AGES. The period of papal revival, the growth of the towns, the struggle of Empire and Papacy, the emergence of royal authority, the rise of the bourgeoisie, growing dissent in the medieval church. Three credits; autumn. (167)

428. THE RENAISSANCE. The decline of feudalism, of the guild system, of papal authority, and of scholastic thought, followed by the Italian Renaissance and Humanism in the north. Three credits; winter. (168)

429. THE REFORMATION. The revolution in religion. A study of the main branches of Protestantism and their relation to the political life of Europe; the Catholic Counter-Reformation. Three credits; spring. (169)

AMERICAN HISTORY

424, 425. THE AMERICAN FRONTIER. The exploration, settlement, and development of the American west with consideration given to economic, social, cultural, and political factors. Three credits; autumn, winter. (164, 165)

446. HISTORY OF THE PACIFIC NORTHWEST. Development of the Northwest with emphasis on the State of Washington. The fur traders, the missionary era, the settlement of Washington following 1846, territorial days, political and economic development during statehood. A study of the State Manual of Washington will also be included. Three credits; spring. (176)

*447, 448. TWENTIETH CENTURY AMERICA. The course covers major developments in the United States from 1900 to the present including two world wars, prosperity and depression, political and economic changes, Korean conflict, atomic age, cold war and the frontiers of space. Three credits; autumn, winter. (177, 178)

467, 468, 469. HISTORY OF LATIN AMERICA. 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. Two credits; autumn, winter, spring. (187, 188, 189)

477, 478, 479. SPECIAL PROBLEMS IN HISTORY. Directed, independent study in an approved area. The student will be required to read widely on an assigned subject, follow regular research methods, and pre-

*Not offered the current year.
sent 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. Autumn, winter, spring. (191, 192, 193)

491, 492. SEMINAR. An orientation and research course in problems connected with historical materials and methods. Open to majors and minors. History minors will take autumn quarter only. One credit; autumn, winter. (186, 194, 195)

POLITICAL SCIENCE

The objectives of the courses in Political Science are to give an understanding of the functions of our government and of international relations, and to prepare for teaching, religious liberty work, and study in law.

MINOR REQUIREMENTS:

American Government 203 3
Democratic European Govts. 303 3
Totalitarian Governments 306 3
Constitutional Interpretation 401 3
World Politics & International Relations 402 3
Political History & Theory 424, 425, 426 9
Electives (must be in cognate history courses) 3

27

COURSES

203. AMERICAN GOVERNMENT. A survey of the origin and establishment of the constitution of the United States followed by a study of the executive, legislative, and judicial departments of the national government. State and municipal governments also receive consideration. Three credits; spring. (51)

*303. DEMOCRATIC EUROPEAN GOVERNMENTS. An analysis of the nature of democracy including the origins and systems of contemporary governments of France, Western Germany, and the United Kingdom. Prerequisite: History 101, 102, 103. Three credits; spring. (101)

*306. TOTALITARIAN GOVERNMENTS. A study of the origins and politics of dictatorship in the modern world including a brief analysis of Fascist Italy, Nazi Germany, Communist China, and Communist Russia. Three credits; spring. (184)

*401. CONSTITUTIONAL INTERPRETATION. The first part will be devoted to a brief survey of constitutional development followed by a careful study of the function of the judiciary in the American system of government. During the second part, important court decisions will be considered, with special emphasis upon those dealing with religion and the relation of church and state. Three credits; autumn. (151)

*402. WORLD POLITICS AND INTERNATIONAL RELATIONS. A study of the political objectives of imperialistic nations, the position of the Vatican in world affairs, the relation between the League of Nations and the United Nations organization, with emphasis on the emergence of the United States as a world power. Three credits; winter. (152)

*Not offered the current year.
HISTORY, POLITICAL & SOCIAL SCIENCE

414, 415, 416. AMERICAN DIPLOMATIC HISTORY. 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. Two credits; autumn, winter, spring.

424, 425, 426. POLITICAL HISTORY AND THEORY. Origin and evolution of major concepts in Western political thought from Pericles to Machiavelli, from Machiavelli to Edmund Burke, and from the American colonial times to the present. Three credits; autumn, winter, spring. (426)

SOCIAL SCIENCE

The objectives of the courses in Social Science are to give an understanding of present-day problems in living, to prepare for social work, mission work, family life, and youth leadership.

MINOR REQUIREMENTS:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Introduction to Sociology</td>
<td>204</td>
</tr>
<tr>
<td>The Field of Social Work</td>
<td>304</td>
</tr>
<tr>
<td>Personality and Leadership</td>
<td>442</td>
</tr>
<tr>
<td>Current Social Problems</td>
<td>445</td>
</tr>
<tr>
<td>Electives (May include Home Economics)</td>
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Required Cognates:

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<tr>
<td>Political Science</td>
<td>203</td>
</tr>
<tr>
<td>Education</td>
<td>121, 122</td>
</tr>
</tbody>
</table>

COURSES

204. INTRODUCTION TO SOCIOLOGY. 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. Three credits; autumn. (54)

225. MARRIAGE AND FAMILY LIFE. 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. Two credits; winter or spring. (65)

304. THE FIELD OF SOCIAL WORK. A survey of the fields and methods of social work; the growth, organization, and function of public and private programs in the field of social welfare. For the social worker, as well as for the professions of teaching, nursing, medicine, and the ministry. Field trips arranged. Three credits; autumn. (104)

305. HUMAN RELATIONS. A course which deals with the psychological, environmental, and social factors influencing human behavior. Emphasis is placed on the effective use of these factors for best interpersonal relationships between leaders and those with whom they work. Classes are conducted by lecture, case study discussions, and student reports. Two credits; winter. (105)

308. CULTURAL FOUNDATIONS. A survey of the cultural heritage of the race, the best of music, art, ancient literature, and other appreciations. Competent guest lecturers will frequently appear before the class. Three credits; winter. (108)
310. THE FAMILY IN SOCIETY. The student is introduced to problems confronting the family as a unit of society in modern life, including comparison of problems of an American family with those of other cultures. Two credits; winter or spring. (Taught on the Portland campus only.) (116)

349. WORLD GEOGRAPHY. A survey course of the major groups of natural regions. Essentially human geography, but with adequate attention to economic and physical aspects. Three credits; spring. (129)

442. PERSONALITY AND LEADERSHIP. The course is concerned with the phenomena that leadership and followership together comprise the gist of personality; furthermore, that certain behavior and personality traits possess special leadership value. The various areas of study concern: theories of leadership; social, mental, and executive leadership; and a further sequence—autocratic, paternalistic, and democratic leadership. Two credits; winter. (172)

445. CURRENT SOCIAL PROBLEMS. The course deals with the dimensions of social problems as regards 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. Three credits; winter. (175)

471. METHODS OF TEACHING SOCIAL SCIENCE. 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. Three credits; autumn. (197)
HOME ECONOMICS

MISS WRIGHT, MRS. ZOLBER

The major in Home Economics is for those preparing to teach, whereas the major in Interior Design and Decoration is for those interested in such professional positions as interior decorator, Extension Service specialist, drapery or home furnishing consultant. The major in Foods and Nutrition meets all the requirements of the American Dietetic Association and prepares the student to enter a dietetic internship.

HOME ECONOMICS MAJOR—REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE:

- Principles of Food Science 101
- Food Economics 102
- Meal Management 103
- Human Nutrition 220
- Art in Everyday Living 222, 223
- Clothing Selection & Construction 242, 243
- Household Management 346
- Interior Decoration 424, 425
- Advanced Nutrition 441
- Methods of Teaching Home Economics 471
- Seminar 493
- Electives, upper division 5

Total 45

Required Cognates:
- Biological Science 107
- Chemistry 101-102-103

Minor:
- Principles of Food Science 101
- Food Economics 102
- Meal Management 103
- Clothing Selection & Construction 242, 243
- Household Management 346
- Methods of Teaching Home Economics 471
- Seminar 493
- Electives, including two upper division (Counsel with the department chairman.) 5

Total 27

INTERIOR DESIGN AND DECORATION MAJOR—REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE:

- Meal Management 103
- Equipment 201
- Human Nutrition 220
- Consumer Buying 221
- Art in Everyday Living 222, 223
- Clothing Selection & Construction 242, 243

Total 88
HOME ECONOMICS

Textiles 269 2
Weaving and Home Furnishings 302 3
Textile Design 403 3
Interior Decoration 424, 425 6
Advanced Interior Decoration 486 3
Seminar 493 1
Electives, upper division 5

47

Required Cognates:
Industrial Education 123, 345
Health & P.E. 344, 345 or 346
A minor in Art is required.

FOODS AND NUTRITION MAJOR—REQUIREMENTS FOR A BACHELOR OF SCIENCE DEGREE:

Principles of Food Science 101 3
Food Economics 102 3
Meal Management 103 3
Equipment 201 3
Institution Food Preparation 286 3
Child Development 362 3
Experimental Cookery 421, 422 6
Advanced Nutrition 441, 442 6
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 (Soc. Sc. 225 does not apply) 2

45

Required Cognates:
Chemistry 141-142-143 (12 credits), 321-322-323 (12 credits) or 324-325-326, 406 and course work specified by the American Dietetic Association for internship.

Minor:

Principles of Food Science 101 3
Food Economics 102 3
Meal Management 103 3
Human Nutrition 220 3
Institution Food Preparation 286 3
Experimental Cookery 421, 422 6
Advanced Nutrition 441, 442 6
Diet in Disease 443 3

30

This minor is not considered preparation for secondary teaching.
COURSES

101. PRINCIPLES OF FOOD SCIENCE. Basic food preparation with emphasis on principles underlying the science of food and nutrition. Three credits; autumn. (1)

102. FOOD ECONOMICS. Principles of food economics, problems of purchasing in today's market, and preparation to retain maximum nutritive values and palatability. Three credits; winter. (2)

103. MEAL MANAGEMENT AND TABLE SERVICE. Managerial aspects of planning, preparing and serving food for family meals and special occasions. Prerequisite: 101, 102 or 220 or equivalent. Three credits; spring. (3)

*201. EQUIPMENT. Selection, operation and care of household and institutional appliances, electricity in the home and kitchen planning. Three credits; autumn. (51)

210. SOCIAL AND PROFESSIONAL ETHICS. 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. Two credits; winter or spring. (67 or 68)

220. HUMAN NUTRITION. 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. Three credits; autumn or spring. (92 or 93)

*221. CONSUMER BUYING. A study of the consumer's problems in buying textiles, clothing, household equipment and furnishings with emphasis on the economic principles involved. Three credits; autumnn. (61)

222, 223. ART IN EVERYDAY LIVING. Introduction in the use of art elements giving consideration to line, form and color as applied in the fundamental principles of design and the various aspects of the home, clothing and everyday living. Problems in selecting and designing. Course 222 prerequisite for 223. Three credits; winter, spring. (42, 43)

225 Soc. Sc. MARRIAGE AND FAMILY LIFE. See Social Science. (65)

241. CLOTHING FUNDAMENTALS. A course presenting the fundamental processes of hand and machine sewing, construction and selection of simple garments. Three credits; autumn. (71)

242, 243. CLOTHING SELECTION AND CONSTRUCTION. Aims to develop good taste in dress and to give an appreciation in selection of clothing from standpoint of beauty, health, and economy; fundamental processes of hand and machine sewing; study of 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 its equivalent. Three credits; winter, spring. (72, 73)

*269. TEXTILES. A study of fabrics to determine fundamental differences and to develop judgment in buying clothing and house furnishing materials. Two credits; spring. (88)

*268. INSTITUTION FOOD PREPARATION. Instruction and laboratory experience in large quantity food preparation, and food cost control.

*Not offered the current year.
This course is primarily for those interested in actual preparation of food in college and academy cafeterias. Prerequisite; 101, 102, 103. Three credits; spring. (94-95)

302. WEAVING AND HOME FURNISHINGS. 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. Prerequisite: 222 or equivalent. Three credits; winter. (103)

346. HOUSEHOLD MANAGEMENT. Management problems of the homemaker in regard to income, time, labor, and family relationships. Study of the selection, operation, care and arrangement of household equipment. Three credits; spring. (126)

382. CHILD DEVELOPMENT. A study of the care and development of young children, with special reference to home education. Three credits; winter. (142)

403. TEXTILE DESIGN. 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. Three credits; spring. (153)

421, 422. EXPERIMENTAL COOKERY. 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 141-142-143 (12 credits) or equivalent. Three credits; autumn, winter. (163)

424, 425. INTERIOR DECORATION. 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 furniture, textiles, pictures, and other furnishings for the home and their arrangement with appropriate backgrounds. Prerequisite: 424 or equivalent for 425; 222, 223 highly desirable. Three credits; autumn, winter. (164, 165)

441, 442. ADVANCED NUTRITION. A scientific study of nutrition involving digestion and metabolic processes and products; selection of an optimum diet for health; recent investigations of nutritional deficiency diseases. Prerequisite: 101, 102, 103; 220 and Chemistry 101-102-103 or 141-142-143 (12 credits). Three credits; autumn, winter. (171, 172)

443. DIET IN DISEASE. Recent developments in the dietary treatment of disease in which nutrition plays a major role. Experience in independent use of journal literature in the field. Prerequisite: 441, 442 or equivalent. Three credits; spring. (173)

447. INSTITUTION FOOD PURCHASING. Marketing operations, buying procedures, food selection and care. Inspection of merchandise at markets and wholesalers. Prerequisite: 101, 102, 103. Three credits; autumn. (177)

448. INSTITUTION MANAGEMENT. Principles of organization, qualifications for institution managers, purchasing and maintenance of equipment, planning of work, budget analysis. This course offers practical work in the school cafeteria for those who are interested in being managers in institution food services. Prerequisite: 101, 102, 103. Three credits; winter. (178)

*Not offered the current year.
461-462. TAILORING. 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. Prerequisite: 241, 242, 243 or equivalent. Two credits; autumn, winter. (181-182)

471. METHODS OF TEACHING HOME ECONOMICS. The principles and practices of teaching home economics on the elementary and secondary levels, as well as adult education classes. Special attention will be given to the newer methods of presentation in classroom, laboratory and community demonstrations. Observation, demonstration, and class presentation are required of the students as a part of this course. Three credits; autumn. (197)

477, 478, 479. SPECIAL PROBLEMS IN HOME ECONOMICS. 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; autumn, winter, spring. (191, 192, 193)

486. ADVANCED INTERIOR DECORATION. 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. Three credits; spring. (196)

493. SEMINAR. Studies of selected topics and reviews of current literature. Special investigation of problems. One credit; spring. (186)
INDUSTRIAL EDUCATION

MR. TRAUTWEIN, MR. BOND, MR. CANADAY, MR. COWIN, MR. LISKE, MR. WOLFE

The purpose of this department is twofold: to provide instruction and experience for a college major and minor, and to prepare teachers in industrial arts. There is considerable freedom in the choice of courses in the following areas:

Automotive Graphics Metals
Electronics Industrial Crafts Woods

BACHELOR OF SCIENCE DEGREE, MAJOR REQUIREMENTS:

A minimum of 54 credits is required, 24 of which must be on the upper division level. The following courses must be included:

Technical Drawing, (104-105-106). (Omit this when 33 credits of graphic arts are included)
Senior Problem, 488.

Students preparing for teaching in the industrial arts should plan a curriculum in consultation with the chairman of the department from the requirements listed below:

Technical Drawing 104-105-106 6
Lettering 123 2
Woodwork 221, 222, 223 6
or
Minimalic Carpentry 224-225-226
Machine Tool Practice I 244-245-246 6
or
Welding 204, 205, 206
Electricity-Electronics I 231-232-233 6
or
Introduction to Graphic Arts 144, 145-146
Industrial Crafts, electives 113, 247, 248, 249 6
or
Auto Mechanics 101, 102, 103
Industrial Arts Design 264 3
Shop Administration 389 3
History of Industrial Arts 448 2
Special Problems 477, 478, or 479 2
Electives in counsel with the chairman of the department 14

Students interested in terminal courses leading to a certificate should contact the chairman of the department for information.

Required Cognates:

Mathematics 111, 112, (113 recommended);
Chemistry 101-102-103;
Physics 181, 182 or 183.
INDUSTRIAL EDUCATION

MINOR REQUIREMENTS:
A minimum of 27 credits including 6 upper division credits. Technical Drawing (104-105-106) is required except when 17 credits of graphic arts are included.

PROFESSIONAL

264. INDUSTRIAL ARTS DESIGN. Basic principles of design as applied to the various industrial arts, including theory of color and study of major periods and styles of furniture. Three credits; autumn. (84)

387. COURSE CONSTRUCTION. The course deals with objectives, analysis and selection of content, course of study outline, lesson plans, standards of attainment. Required prior to Directed Teaching. Three credits; autumn. (147)

389. SHOP ADMINISTRATION AND PLANNING. School shop planning, supplies, personnel organization and guidance, and shop management. Required prior to Directed Teaching. Three credits; spring. (149)

446. HISTORY OF INDUSTRIAL ARTS. Origin and growth of industrial arts, emphasizing aims and objectives in the field of education. Two credits; winter. (178)

472. METHODS OF TEACHING INDUSTRIAL ARTS. 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. Prerequisite: 387. Required prior to Directed Teaching. Three credits; winter. (197)

477, 478, 479. SPECIAL PROBLEMS IN INDUSTRIAL EDUCATION. Supervisory experience for prospective teachers or tradesmen, research problems, or teaching aid construction. Area to be selected in counsel with department chairman. Prerequisite: lower division work in same area for supervisory or teaching aid construction. Six credits maximum from this and/or Special Projects. Autumn, winter, spring. (191, 192, 193)

AUTOMOTIVE

101, 102, 103. AUTOMOTIVE MECHANICS. A comprehensive basic course in the construction details and service adjustments of the automobile with disassembly, inspection and reassembly of units in the laboratory. Autumn, engine units; winter, automotive, fuel and electrical systems; spring, chassis units. Two credits; autumn, winter, spring. (1, 2, 3)

209. GENERAL BODY AND FENDER REPAIR. Fundamentals of automobile sheet metal, its repairability and basic operations used in reshaping and refinishing. Prerequisite: 204 or equivalent. Two credits; spring. (59)

301. ENGINE MAINTENANCE AND REPAIR. Special attention to removal, disassembly, inspection, machine operation, repair and reassembly of the automotive engine. Prerequisite: 101 or equivalent. Three credits; autumn. (101)

302. AUTOMATIC TRANSMISSION SERVICE. Special attention given to hydraulic drives and planetary gearing with practice on the G. M. Hydromatic transmission and a survey of other makes. Prerequisite: 103 or equivalent. Three credits; winter. (102)

303. ENGINE TUNE-UP. Special attention to the fuel and electric systems, trouble shooting and testing engine performance. Prerequisite: 101, 102 or equivalent. Three credits; spring. (103)
ELECTRONICS

*231-232-233. ELECTRICITY-ELECTRONICS I. An introduction to the electron theory, direct and alternating current, vacuum tubes, transistors and basic circuits studied by lecture, laboratory experiments, and project construction. Two credits; autumn, winter, spring.

331-332-333. ELECTRICITY-ELECTRONICS II. The study of vacuum tubes and transistors, principles of radio frequency transmission and reception, basic electronic circuits with reference to construction, operation, adjustment, and methods of trouble shooting. Prerequisite: 231-232-233, or equivalent. Three credits; autumn, winter, spring.

GRAPHICS

104-105-106. TECHNICAL DRAWING. Technical drawing including: care and use of instruments; geometry; orthographic, oblique, and isometric projections; auxiliary views; sections; revolutions; working drawings; developments and intersections; and architectural drawing. Application to practical problems with emphasis on visualization and analysis. Two credits; autumn, winter, spring. (4-5-6)

123. LETTERING. 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. Two credits; spring.

144, 145-146. INTRODUCTION TO GRAPHIC ARTS. Letterpress printing, straight and display composition, typographical design, imposition and simple presswork. Two credits; autumn, winter, spring. (24, 25-26)

*162. PHOTOGRAPHY I. 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. Two credits; winter. (32)

*221, 222, 223. COMMERCIAL ART. Our modern need to "Tell and Sell" requires the study of illustration and production planning for such subjects as advertisements, book pages, posters and brochures. Three credits; autumn, winter, spring. (61, 62, 63)

242. SILK SCREEN PRINTING. Basic screen printing (mitography) including various methods of stencil preparation, types of materials used, and preparation of equipment. Two credits; winter.

284-285-286. LINOTYPE COMPOSITION. 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. Prerequisite: 144, 145-146 or equivalent. Two credits; autumn, winter, spring. (107-108-109)

*305. PRINTING MANAGEMENT. Operating management of a commercial printing plant, purchasing of equipment and supplies, inventory control, pricing, personnel and production supervision. Two credits; winter. (105)

321-322-323. ADVANCED LETTERPRESS PRINTING. Hand-fed and automatic presswork, including imposition, make-ready, care and operation of equipment for numbering, perforating, scoring, die cutting, folding, and other processes of printing production. Prerequisite: 144, 145-146 or equivalent. Three credits; autumn, winter, spring.

*Not offered the current year.
INDUSTRIAL EDUCATION

327-328-329. OFFSET LITHOGRAPHY. Laboratory experience in offset photography, plate making, cold type composition, and presswork. Prerequisite: 144, 145-146 or equivalent. Three credits; autumn, winter, spring. (117-118-119)

362. PHOTOGRAPHY II. Composition, photochemistry, optics, and advanced study of printing, enlarging and processing of chromatic and monochromatic mediums, with manipulative experience. Camera required. Prerequisite 162 or equivalent. Three credits; winter. (133)

370. PHOTOGRAPHIC ASSIGNMENTS. Experience in commercial photographic assignments embodying shooting, processing, and finishing prints for publication. Prerequisite 363 or equivalent. One credit; autumn, winter, or spring. (134, 135 or 136)

INDUSTRIAL CRAFTS

113. BOOKBINDING. 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 applied crafts. Two credits; spring. (22 or 23)

247. LEATHERS. Technical information and fundamental operation including tooling, carving, stamping, lacing, modeling, forming, and finishing. Two credits; autumn. (124, 125 or 126)

248. ART METALS. 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. Two credits; winter.

249. PLASTICS. Technical information and operation including carving, molding, crafting, forming, fabricating, and finishing. Two credits; spring.

METALS

*204, 205, 206. WELDING. Basic gas welding, oxyacetylene cutting, braze welding and brazing, techniques of electric welding, and specialized processes with direct emphasis on production of assigned and student-selected projects. Course 204 is prerequisite to 205, and 205 is prerequisite to 206. Two credits; autumn, winter, spring. (54, 55, 56)

241-242-243. SURVEY OF METAL PRACTICE. Particularly for mechanical engineering and physics majors, but is open to Industrial Education majors and minors who have taken no credits in metals. Gives a broad introduction to manufacturing operations, with factors influencing design and production. Three credits; autumn, winter, spring. (71-72-73)

244-245-246. MACHINE TOOL PRACTICE I. Theory and manipulation of basic machine tools, bench work, hand operations, and machine operations combined with prescribed and student-selected projects. Two credits; autumn, winter, spring. (74-75-76)

*346. SHEET METAL. Pattern drafting, development and construction of both assigned and student-selected projects. Prerequisite: 104-105-106 or equivalent. Two credits; spring. (126)

*Not offered the current year.
GRAPHIC ARTS

The training of the hand is an integral part of the education offered at Walla Walla College.
*381-382-383. MACHINE TOOL PRACTICE II. 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. Two credits; autumn, winter, spring. (141-142-143)

WOODS

182. WOOD TURNING I. Spindle, face plate, and chuck turning. Assigned projects, original designs, including finishing. Two credits; winter. (42)

221, 222, 223. COLLEGE WOODWORK. Working drawings, hand and machine operations, and finishings as applied to basic furniture construction and cabinet making. Prerequisite: One Carnegie unit of secondary school woodworking. Otherwise the student will enter by completing a double laboratory period each week during the autumn quarter in college. Two credits; autumn, winter, spring. (61, 62, 63)

*224-225-226. MINIMALIC CARPENTRY. 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. Two credits; autumn, winter, spring. (64-65-66)

313. WOOD TURNING II. Intricate cuts, special chucking devices, fancy turning, metal spinning. Prerequisite: 182. One credit; spring. (127, 128 or 129)

*225. WOODWORKING MACHINES. Power machines, jigs, attachments, as applied to furniture making. Prerequisite: 221, 222, 223 or equivalent. Three credits; winter. (115)

341, 342, 343. ADVANCED WOODWORK. Advanced operation with power machines, finishing methods and design. Assigned and student-selected projects. Prerequisite: 221, 222, 223 and 264 or equivalent. Course 264 may be concurrent. One credit; autumn, winter, spring. (121, 122, 123)

GENERAL

330. MACHINE AND TOOL MAINTENANCE. Methods of care and maintenance of tools, machines, and supplementary equipment. Selection may be made in field of printing, metals, or woodworking. Prerequisite: adequate background in chosen fields. One or two credits; autumn, winter, or spring. (154, 155 or 156)

*345. FINISHING MATERIALS AND METHODS. Composition and application of finishing materials, selection and care of equipment. Two credits; winter. (125)

484, 485, 486. SPECIAL PROJECTS. Advanced laboratory work in a chosen area, to be selected in counsel with the department chairman. Six credits maximum from this and/or Special Problems in Industrial Education. Prerequisite: lower division work in chosen area. Autumn, winter, spring. (194, 195, 196)

488. SENIOR PROBLEM. A student-selected, department-approved project to demonstrate ability to perform in the field. And an associated research report is required, the final accepted copy of which must be on file in the department no later than four weeks before graduation. One credit; winter. (198)

*Not offered the current year.
JOURNALISM

MISS MOORE, MRS. LAY

The aims of professional courses are to train writers for both newspaper and magazine journalism and to provide an 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 to competent writing and responsible journalism.

MAJOR REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE:

1. Liberal Arts, beyond the basic degree requirements, chosen in counsel with the chairman of the department.
   - English 12
   - History, Political and Social Science 12
   - Business and Economics 6
   (Principles of Economics 261-262)

2. Professional Courses
   - News Writing 264-265-266 6
   - Mass Communication Media 325 3
   - Electives 21
   (May include English 385)

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Required Cognates:

- Introduction to Graphic Arts 144, 145-146 6

Students majoring in Journalism must demonstrate a proficiency in typing.

MINOR REQUIREMENTS:

A minimum of 27 credits.

(May include English 385)

COURSES

264-265-266. NEWS WRITING. A practical course in gathering news and writing news stories, simple feature stories, and editorials. Copy editing and other desk exercises are designed to aid the student in developing skill in producing acceptable newspaper copy. Two credits; autumn, winter, spring. *(84-85-86)*

325. MASS COMMUNICATION MEDIA. A consideration of print and broadcast media, with emphasis on ethics, controls and effects. Three credits; winter.

341, 342, 343. MAGAZINE ARTICLE WRITING. Fact writing, with analysis of magazine markets, fundamentals of gathering materials for articles and preparation of manuscripts for publication. Two credits; autumn, winter, spring. *(121, 122, 123)*

361. COPYREADING AND EDITING. Lectures on the selection, preparation, and display of news; practice in editing copy and writing headlines. Three credits; autumn. *(131)*
382. **EDITORIAL WRITING.** The writing of editorials, interpretive articles, and critical reviews, with a study of these types as found in today's newspaper. Two credits; winter. (142)

384. **RELIGIOUS WRITING.** 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. Three credits; autumn. (144)

401, 402, 403. **NEWSPAPER PROBLEMS.** Relation of the press to society and government; ethics and responsibilities of publishing; psychology and influence of the newspaper. Students will read several of the country's leading newspapers. Two credits; autumn, winter, spring. (151, 152, 153)

419. **HISTORY OF JOURNALISM.** Consideration of the development of the American press, including such aspects as press freedom and privileges, leaders of the press, and early political and religious organs. Three credits; spring.

426. **SCHOOL PUBLICATIONS.** 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. Two credits; spring. (166)

*Not offered the current year.*
MATHEMATICS
MR. HARE, MRS. SCHLOTHAUER

MAJOR REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE:
A minimum of 47 credits including Mathematics 351, 352, 353. Other
courses in counsel with the chairman of the department.

MAJOR REQUIREMENTS FOR A BACHELOR OF SCIENCE DEGREE:
A total of 90 credits in mathematics and science is required. Forty-
seven credits must be in mathematics, the remaining 43 credits
must include an elementary course in physics and an elementary
course in either biology or chemistry. The 47 credits in mathe-
matics must include Advanced Calculus, 351, 352, 353.

MINOR REQUIREMENTS:
A minimum of 28 credits, in counsel with the chairman of the
department.

COURSES

111, 112, 113. SURVEY OF MATHEMATICS. A terminal course in
mathematics for nonscience students emphasizing the structure of the
number system, elementary number theory, basic concepts of algebra in-
cluding algebraic structures, and informal geometry. Must be taken in
sequence. Will meet the basic requirement in mathematics for the bac-
calaureate degree, but will not apply on a major or a minor in mathematics.
Four credits; autumn, winter, spring.

121. FUNDAMENTALS OF MATHEMATICS I. A systematic study
of the sets of integers, rational numbers, real numbers, and complex num-
bers; mathematical induction; equations and inequalities; functions and
their graphs; systems of equations; binomial theorem; progressions;
matrices; determinants. Four credits; autumn or winter. (21) 120)

122. FUNDAMENTALS OF MATHEMATICS II. Theory of equations,
exponential and logarithmic functions, trigonometry. Prerequisite: 121
or one and one-half units of algebra. Four credits; winter or spring. (22)
(130)

181. ANALYTIC GEOMETRY AND CALCULUS I. An integrated
course in which topics of analytic geometry are introduced as needed in
developing the topics in calculus. Prerequisite: Fundamentals of Mathe-
matics II, or a satisfactory score on a departmental qualifying exam-
ination. Four credits; autumn or spring. (41)

281. ANALYTIC GEOMETRY AND CALCULUS II. A continuation
of Mathematics 181. Prerequisite: Analytic Geometry and Calculus I.
Four credits; autumn or winter. (42) (182)

282. ANALYTIC GEOMETRY AND CALCULUS III. A continuation
of 281. Prerequisite: Analytic Geometry and Calculus II. Four credits;
winter or spring. (43) (183)

283. ANALYTIC GEOMETRY AND CALCULUS IV. A continuation
of Mathematics 282. Prerequisite: Analytic Geometry and Calculus III.
Four credits; autumn or spring. (44) (184)

304-305-306. INTRODUCTION TO THE THEORY OF NUMBERS.
Congruences, continued fractions, Diophantine equations, quadratic res-
idues. Prerequisite: permission of the instructor. Two credits; autumn, winter, spring. (301-302)

311. **PROBABILITY AND STATISTICS.** Probability, discrete and continuous distribution functions, sampling, correlation, regression, testing of hypotheses. Prerequisite: Analytic Geometry and Calculus IV. Four credits; autumn. (103) (303)

312. **ORDINARY DIFFERENTIAL EQUATIONS.** Differential equations of first order, linear differential equations of order n, series solutions, applications. Prerequisite: Analytic Geometry and Calculus IV. Four credits; winter. (103) (303)

313. **PARTIAL DIFFERENTIAL EQUATIONS.** Solutions of various types of partial differential equations with emphasis on solutions of boundary value problems. Prerequisite: Ordinary Differential Equations. Four credits; spring.

351, 352, 353. **ADVANCED CALCULUS.** Partial differentiation, vectors, differential geometry, Stieltjes integral, multiple integrals, line and surface integrals, infinite series, convergences of improper integrals, Fourier series, the Laplace transform. Prerequisite: Analytic Geometry and Calculus IV. Three credits: autumn, winter, spring. (164, 165) (324, 325)

401. **MODERN GEOMETRY.** Foundations of geometry, synthetic projective geometry, analytic projective geometry, non-Euclidean geometries. Prerequisite: permission of instructor. Four credits; autumn. (151)

402. **INTRODUCTION TO MODERN ALGEBRA.** A study of various algebraic systems including groups, rings, vector spaces, and fields. Prerequisite: permission of the instructor. Four credits; winter. (153)

403. **MATRIX THEORY.** Vector spaces, equivalence, congruence, similarity, characteristic roots. Prerequisite: permission of the instructor. Four credits; spring.

471. **METHODS OF TEACHING MATHEMATICS.** 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. Three credits; autumn. (197)

477, 478, 479. **SPECIAL PROBLEMS IN MATHEMATICS.** 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. (480)
MODERN LANGUAGES
MISS SORENSON, MR. PIERCE, MR. STOEHR

The objectives of the courses in modern foreign languages are to develop the ability to speak, read and write the language with sufficient competence to gain understanding of the culture where the language is spoken, to prepare students to teach the language, and to prepare for mission service.

The department offers majors in German and Spanish and minors in German and Spanish.

MAJOR REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE:
A minimum of 40 credits beyond the elementary courses, 27 of these must be on the upper division level.

MINOR REQUIREMENTS:
A minimum of 24 credits beyond the elementary courses, nine of these must be on the upper division level.

SPANISH
201, 202, 203. INTERMEDIATE SPANISH. Selected readings from standard Spanish authors. A course designed for intermediate students who desire a reading knowledge. Prerequisite to any advanced course in literature. Three credits; autumn, winter, spring. (51, 52, 53)
204, 205, 206. SPANISH COMPOSITION AND CONVERSATION. Grammar and composition drills and idioms. Two credits; autumn, winter, spring. (54, 55, 56)
301, 302, 303. INTRODUCTION TO SPANISH LITERATURE. A survey of the history of Spanish literature; lectures, reports, outside reading; the main currents of the development of the various branches of Spanish literature with a study of representative works. Three credits; autumn, winter, spring. (101, 102, 103)
*402. SPANISH PRONUNCIATION. An analysis of the difficulties of Spanish pronunciation; abundance of individual drill and practical directions for remedial exercises. Two credits; winter. (152)
404, 405, 406. SPANISH DIRECTED READING. The work consists of assigned readings and reports. Prerequisite: 301, 302, 303. One to three credits; autumn, winter, spring. (154, 155, 156)
*409. ADVANCED SPANISH CONVERSATION. Practice in conversation for those preparing to teach. Prerequisite: 204, 205, 206. Two credits; spring. (159)
*421. SPANISH ESSAY. A study of the important Spanish essayists and their representative essays. Three credits; autumn. (161)
*425, 426. LATIN AMERICAN LITERATURE. A survey of Latin American literature with special emphasis on the South American authors. Three credits; winter, spring. (165, 166)

FRENCH
101-102-103. ELEMENTARY FRENCH. Thorough grammatical analysis. Emphasis given to reading and the acquisition of a working vocab-

*Not offered the current year.
ulinary. The foundation of formal instruction in composition is laid in dictation and memorization. Offered upon sufficient demand. Five credits; autumn, winter, spring. (1-2-3)

201, 202, 203. INTERMEDIATE FRENCH. Selected readings from standard French authors. A course designed for intermediate students who desire a reading knowledge. Three credits; autumn, winter, spring. (51, 52, 53)

404, 405, 406. FRENCH DIRECTED READING. The work consists of assigned reading and reports. One to three credits, maximum, six; autumn, winter, spring.

GERMAN

101-102-103. ELEMENTARY GERMAN. Thorough grammatical analysis. Emphasis given to reading and the acquisition of a working vocabulary. The foundation of formal instruction in composition is laid in dictation and memorization. Practice in free oral and written expression. Five credits; autumn, winter, spring. (1-2-3)

201, 202, 203. INTERMEDIATE GERMAN. Continued analysis of the language; training in written and oral expression; composition, syntax, dictation; reading of modern literature with oral and written reports; increasing use of German in the classroom. Three credits; autumn, winter spring. (51, 52, 53)

204-205-206. GERMAN COMPOSITION AND CONVERSATION. A comprehensive and thorough review of grammar; facility in oral and written expression; study of common idioms; analysis of difficult points of German syntax. Two credits; autumn, winter, spring. (54-55-56)

301, 302, 303. INTRODUCTION TO GERMAN LITERATURE. A survey of the history of German literature from its beginning to the nineteenth century, supplemented by a study of some of the masterpieces of the language; reading from lyric and epic poetry of the period of the Minnesinger; plays and songs of the fifteenth and sixteenth centuries. Three credits; autumn, winter, spring. (101, 102, 103)

309. SCIENTIFIC GERMAN. This course is designed especially for students who intend to enter a medical school, or who wish to acquire facility in reading German in the various fields of science. Prerequisite: 201, 202, 203. Three credits; spring. (109)

403. MODERN GERMANY AND ITS LITERATURE. In this course contemporary cultural developments in Germany will be discussed and examined. They will be illustrated by readings from modern German prose, lyric poetry, and dramas. Reports. Newspaper reading. Three credits; spring. (153)

404, 405, 406. GERMAN DIRECTED READING. The work consists of assigned readings in the library and written reports. Prerequisite: 301, 302, 303. One to three credits; autumn, winter, spring. Maximum, six credits. (154 155, 156)

421. GERMAN ROMANTICISM. A study of the social, philosophical, and religious influences on the literature of the period, illustrated in works of the most representative authors. Lectures, collateral reading, and reports. Three credits; autumn. (161)

*Not offered the current year.
422. CLASSIC GERMAN LITERATURE. A careful study of the works of Goethe, Schiller, and Lessing, illustrating their influence upon the intellectual movements of their own and subsequent times. Critical study of Goethe's *Hermann und Dorothea*; Schiller's *Wallenstein*; Lessing's *Nathan der Weise*. Three credits; winter. (162)

423. ADVANCED GERMAN COMPOSITION AND CONVERSATION. Advanced composition, conversation, and reading; increased oral practice; emphasis on fluency and accuracy in comprehension and reproduction; a comprehensive review of grammar; acquisition of an extended vocabulary; instruction largely in German; offered upon sufficient demand. Three credits; spring. (163)

470. METHODS OF TEACHING MODERN LANGUAGES IN THE SECONDARY SCHOOL. The principles and practices of teaching modern languages: newer methods used in both classroom and 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. Prerequisite: 20 credits in one language on the college level. Three credits; autumn, winter or spring. (197)

477, 478, 479. SPECIAL PROBLEMS IN MODERN LANGUAGES. 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. Autumn, winter, spring. (191, 192, 193)

*Not offered the current year.
MUSIC

Voices and instruments blend in beauty and harmony bringing joy and pleasure to thousands of listeners month by month. There are many opportunities in the Music Department for the talented student.
MUSIC
MR. WEST, MR. DAVIS, MR. HAFNER, MR. LENO, MISS OWEN, MR. RANDOLPH, MISS RHODES, MR. ROBERTSON

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. Walla Walla College offers two curriculums in music, the Bachelor of Music with concentration in performance or music education, and the Bachelor of Arts.

BACHELOR OF MUSIC

Students seeking preparation for a music profession should choose the Bachelor of Music degree and major in Piano, Organ, Voice, Band or Orchestral Instruments, or Music Education. Preparatory work in chosen major and a natural gift for music are prerequisites. Sincerity of purpose, application, and aptitude must be demonstrated during the first year before full status as a major student is granted. An examination in the basic elements of music is administered at the beginning of each school year to determine the student's qualification for entering the freshman theory course.

Participation in a musical organization is required for each quarter in residence. Voice majors must be in a choral group, string majors in the symphony, and brass and woodwind majors in the symphony or band. Piano and organ majors may elect up to six credits of Ensemble as partial fulfillment of the organizational requirement.

Attendance at two departmental recitals and three professional concerts is required for each quarter in residence. Attendance is also required of all majors at the Music Forum which meets at the regular departmental club time.

REQUIREMENTS FOR A BACHELOR OF MUSIC DEGREE WITH MAJORS IN PIANO, ORGAN, VOICE, BAND OR ORCHESTRAL INSTRUMENTS:

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
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<tbody>
<tr>
<td>Religion</td>
<td>Religion</td>
</tr>
<tr>
<td>Freshman Composition</td>
<td>Applied Major</td>
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<tr>
<td>Phil. of Christian Education</td>
<td>Theory II</td>
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<tr>
<td>Applied Major</td>
<td>Band, Choir, Orchestra</td>
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<tr>
<td>Theory I</td>
<td>or Small Ensemble</td>
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<tr>
<td>Band, Choir, Orchestra</td>
<td>Humanities</td>
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<tr>
<td>or Small Ensemble</td>
<td>Electives</td>
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<tr>
<td>Physical Education</td>
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<tr>
<td>Electives</td>
<td>48</td>
</tr>
</tbody>
</table>

48

105
**MUSIC**

<table>
<thead>
<tr>
<th>Third Year</th>
<th>Fourth Year</th>
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</thead>
<tbody>
<tr>
<td>Religion 6</td>
<td>Applied Major 12</td>
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<tr>
<td>Applied Major 12</td>
<td>Hist. &amp; Lit. of Music, 1750—6</td>
</tr>
<tr>
<td>Hist. &amp; Lit. of Music—1750 6</td>
<td>Counterpoint 6</td>
</tr>
<tr>
<td>Voice Methods 3</td>
<td>Orchestration 6</td>
</tr>
<tr>
<td>Conducting 6</td>
<td>Composition 6</td>
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<tr>
<td>Analytical Techniques 6</td>
<td>Band, Choir, Orchestra or Small Ensemble 3</td>
</tr>
<tr>
<td>Band, Choir, Orchestra 3</td>
<td>Electives 9</td>
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<td>Electives 6</td>
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<td><strong>48</strong></td>
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</tbody>
</table>

A recital during both the junior and senior years is required. This curriculum does not prepare the student for denominational or state teaching certification. Voice majors who have had two units of French or German on the secondary level must register for 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 register for one year each of French and German.

**REQUIREMENTS FOR A BACHELOR OF MUSIC DEGREE WITH A MAJOR IN MUSIC EDUCATION:**

<table>
<thead>
<tr>
<th>First Year</th>
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<td>Religion 6</td>
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<tr>
<td>Freshman Composition 9</td>
<td>General Psychology 4</td>
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<tr>
<td>Science 12</td>
<td>Intro. to Education 3</td>
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<tr>
<td>Phil. of Christian Education 2</td>
<td>History of Civilization 9</td>
</tr>
<tr>
<td>Major Performance 6</td>
<td>Literature 6</td>
</tr>
<tr>
<td>Theory I 9</td>
<td>Major Performance 6</td>
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<tr>
<td>Musical Organization 3</td>
<td>Theory II 9</td>
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<tr>
<td>Physical Education 3</td>
<td>Instrumental Methods 3</td>
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<td>Piano 1-3</td>
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<tr>
<td><strong>3rd Year</strong></td>
<td><strong>Musical Organization 3</strong></td>
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<tr>
<td>Religion 6</td>
<td><strong>50</strong></td>
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<tr>
<td>Major Performance 6</td>
<td><strong>50-52</strong></td>
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<tr>
<td>Hist. &amp; Lit. of Music—1750 6</td>
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<tr>
<td>Counterpoint 6</td>
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<tr>
<td>Music in the Elem. School 3</td>
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<td>Meth. of Teach. Music in the Sec. Sch. 3</td>
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<tr>
<td>Educational Psychology 3</td>
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<td>Educational Evaluation 3</td>
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<td>Human Growth &amp; Dev. 3</td>
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<td>Counseling and Guidance 3</td>
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<td>History of the Pac. Northwest 3</td>
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<tr>
<td>Instrumental Methods 2</td>
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<tr>
<td>Musical Organization 3</td>
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<td><strong>50</strong></td>
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</tbody>
</table>

A joint senior recital (or solo recital) is required of all candidates for this degree. This curriculum prepares the student for teaching in our de-
nomination educational system and results in denominational certifi- 
cation as well as obtaining the Provisional General Certificate for the 
State of Washington.

BACHELOR OF ARTS

The Bachelor of Arts degree is a nonprofessional degree with a total 
of 21 credits in one applied field. The prerequisites are completion of the 
preparatory work in the chosen major instrument and a natural gift for 
music. Candidates for this degree must meet all arts degree requirements.

MAJOR REQUIREMENTS:

Theory I, II 18
Applied Music 19
Music History 12
Music Electives: Composition, Counterpoint, 6
Analytical Techniques, Orchestration
Band, Choir, Orchestra, or Small Ensemble 3
Joint Senior Recital 2
-
60

The following course is also required: History 101, 102, 103

MINOR REQUIREMENTS:

A minimum of 30 credits including Introduction to Music, Theory I, 
Conducting, 6 credits of Applied Music in one field (with an ex-
amination by the music faculty at the end of the first and second 
years of private lessons), and 3 credits of Ensemble.

THEORY AND COMPOSITION

100. FUNDAMENTALS OF MUSIC. A basic course intended to lay a 
foundation in the following: notation, rhythm, scales, key-signatures, 
chords, terms, form, and sight-singing. This course may not be counted 
toward a major or minor in music. Two credits; autumn or spring. (1, 3)
104-105-106. THEORY I. A study of the science of music with a presen-
tation of its essential elements through part writing, sight-singing, ear 
training, and keyboard harmony. Prerequisite: 100 or its equivalent. 
Three credits; autumn, winter, spring. (4-5-6)
204-205-206. THEORY II. A continuation of Theory I which will in-
clude a study of contemporary harmonic techniques as exhibited in 
twentieth century musical practice. Prerequisite: 104-105-106. Three 
credits; autumn, winter, spring. (54-55-56)
304-305-306. COUNTERPOINT. The first two quarters are devoted to 
a study of sixteenth century polyphony as exemplified in the works of 
Palestrina. The last quarter is devoted to a study of eighteenth century 
polyphony, especially fugal construction, as exemplified in the works of 
Bach. Prerequisite: 204-205-206. Two credits; autumn, winter, spring. 
(104-105-106)
404-405-406. ANALYTICAL TECHNIQUES. A course in the technique 
of contrapuntal, harmonic, and formal analysis from early polyphony to 
twentieth century styles. Prerequisite: 204-205-206. Two credits; autumn, 
winter, spring. (154-155-156)

*Not offered the current year.

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MUSIC

407-408-409. ORCHESTRATION. A study of musical instruments and the art of arranging various compositions for full band or orchestra. Prerequisite: 304-305-306. Two credits; autumn, winter, spring. (157-158-159)

411, 412, 413. COMPOSITION. A study of the art of composing in the smaller forms for piano, voice, and other instruments. Contemporary practices as well as traditional will be studied. Prerequisite: 304-305-306 or 404-405-406. Two credits; autumn, winter, spring. (161, 162, 163)

HISTORY AND LITERATURE

201, 202, 203. INTRODUCTION TO MUSIC. An introduction to the understanding and enjoyment of music. Emphasis is placed on the art of listening by a study of the following: the media of musical performance, the psychological and aesthetic aspects of music and its elements, the forms, styles, textures, and history of music literature. This course does not presuppose a technical knowledge of music. Credit is not allowed toward a major. Two credits; autumn, winter, spring. (51, 52, 53)

*307, 308, 309. PIANO LITERATURE. A comprehensive survey of the literature of the piano from its historical development to its practical application for teaching and performance. The course is open to upper division piano students only. Required of all piano majors. One credit; autumn, winter, spring. (107-108-109)

321-322-323. ORGAN SEMINAR. A comprehensive survey of the literature of the organ from its historical development to its practical application for teaching and performance. The course is open to upper division organ students only. Required of all organ majors. One credit; autumn, winter, spring. (111-112-113)

341, 342, 343. HISTORY AND LITERATURE OF MUSIC TO 1750. A study of Western music from pre-Christian times to 1750, with emphasis on the evolution of forms, styles, and media. Lectures will be supplemented with reading, performance, and listening to the music of the periods under consideration. For music majors and minors only. Two credits; autumn winter, spring. (121, 122, 123)

*441, 442, 443. HISTORY AND LITERATURE OF MUSIC SINCE 1750. A study of Western music from 1750 to the present, with emphasis on the evolution of forms, styles, and media. Lectures will be supplemented with reading, performance and listening to the music of the period under consideration. For music majors and minors only. Two credits; autumn, winter, spring. (171, 172, 173)

481, 482, 483. SELECTED TOPICS IN MUSIC. 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: maximum, three credits; autumn, winter, spring. (191, 192, 193)

MUSIC EDUCATION

207. PIANO PEDAGOGY. A class conducted as an introduction to the teaching of piano including the methods of teaching keyboard and pedal technique, sight reading, interpretation, repertoire, etc. Three credits; autumn. (57)

*Not offered the current year.
223. MUSIC IN THE ELEMENTARY SCHOOL. The organization and presentation of the following phases of music will be studied: rote singing, note singing, part singing, song repertoire, child voice, rhythm band, notation, music history and appreciation. Prerequisite; 100 or its equivalent. Three credits; spring. (63)

277, 278, 279. BRASS METHODS. Private instruction in brass instruments conducted as an introduction to the teaching of brass instruments and as demonstrations of class teaching of these instruments. The instruments to be taught include Cornet, French Horn, Trombone, Baritone, and Tuba. One to four credits; autumn, winter, spring. Maximum, 4 credits. (87, 88, 89)

281, 282, 283. WOODWIND METHODS. Private instruction in the teaching of such woodwinds as Clarinet, Oboe, Flute, and Bassoon with demonstrations of the class teaching of these instruments. One to four credits; autumn, winter, spring. Maximum, four credits. (91, 92, 93)

284, 285, 286. STRING METHODS. Private instruction in the playing of Violin, Viola, Cello and Bass, as an introduction to the teaching of these instruments and as a demonstration of class teaching. One to four credits; autumn, winter, spring. Maximum, four credits (94, 95, 96)

287, 288, 289. PERCUSSION METHODS. Private instruction in teaching and instruction in the various percussion instruments. One credit; autumn, winter, spring. (97, 98, 99)

324. INSTRUMENTAL PEDAGOGY. An intensive study of the problems of teaching instrumental music on the elementary and secondary levels. Areas for special study include playing techniques, literature and materials for woodwind, brass and percussion instruments, organization and conducting of instrumental ensembles. Open to teachers only. Two credits; summer only. (114)

381. VOICE METHODS. A class conducted as an introduction to the teaching of voice, and will include a study of breathing, tone, diction, interpretation, and repertoire. Three credits; autumn. (141)

472. METHODS OF TEACHING MUSIC IN THE SECONDARY SCHOOL. A study of the problems in teaching music on the secondary level, including basic philosophies, content, practical methods of teaching, course outlines and practice teaching. Observation, demonstration and class presentation are required of the students as a part of this course. Three credits; winter. (197)

CONDUCTING

387-388-389. CONDUCTING. A course specifically designed to lay the foundation for the development of the skill and the art of conducting musical ensembles of all kinds. Two credits; autumn, winter, spring. (147-148-149)

CHURCH MUSIC

208-209. MINISTRY OF MUSIC. A study of the purpose and use of music in the various religious services. Attention is given to the aesthetics of the church service, study of the church hymnal and evangelistic music. Two credits; winter, spring. (58-59)

*Not offered the current year.
MUSIC

VOCAL AND INSTRUMENTAL ENSEMBLES

Credit will be granted for the following organizations only when the student completes the spring quarter. Ensemble 254, 255, 256 is an exemption to this requirement.

241-242-243. CHORALE. Designed for those whose major interest is in voice. Membership by invitation only with selection based upon talent and musicianship with preference shown those studying in the vocal department. Repertoire includes all types and periods of music both sacred and secular. Concert appearances, regularly scheduled church service appointments and quarterly field tours. One credit; autumn, winter spring. (71-72-73)

244-245-246. A CAPPELLA CHOIR. The College A Cappella Choir is a highly selective ensemble, balanced for four- and eight-part singing. Representative works of the great masters of choral composition are studied, memorized and performed. In addition to public programs and serving as choir for the College church, the choir goes on tour each spring giving programs in our larger churches and academies in the Union. Membership in the choir depends upon strict compliance with the rules and standards of the organization. One credit; autumn, winter, spring. (74-75-76)

247-248-249. CONCERT BAND. A select organization which serves the College by performing numerous 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. Auditions are held during registration. A more select band called the Wind Ensemble will be organized as a part of the Concert Band. One credit; autumn, winter, spring. (77-78-79)

251-252-253. SYMPHONY ORCHESTRA. The orchestral repertoire is designed to familiarize the members with the best symphonic literature. Each quarter the organization learns a new symphony in addition to the many lighter overtures and classic excerpts. The College symphony orchestra accompanies concerts performed by various members of the music faculty and students as well as choral organizations. One credit; autumn, winter, spring. (81-82-83)

254, 255, 256. ENSEMBLE. 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. One credit; autumn, winter, spring. (84-85-86)

APPLIED MUSIC

One to four credits of applied music may be earned each quarter. One credit of applied music presupposes 50 hours of practice per quarter; two credits, 100 hours. One hundred forty hours of practice are required per quarter for three credits; and 180 hours, for four credits. (Music majors are required to take a minimum of two lessons a week.)

Music majors are required to take lessons on their chosen instrument each quarter in residence regardless of the amount of credit accumulated.

Not more than nine credits in applied music (including three credits
of ensemble) may be earned toward graduation without an equal number of hours in music classwork.

Transfer students majoring in music must take a minimum of six hours in applied music at Walla Walla College.

107, 108, 109. **APPLIED MUSIC.** Beginning. (7, 8, 9)
127, 128, 129. **APPLIED MUSIC.** Intermediate. (17, 18, 19)
227, 228, 229. **APPLIED MUSIC.** Upper intermediate. (67, 68, 69)
327, 328, 329. **APPLIED MUSIC.** Lower advanced. (117, 118, 119)
427, 428, 429. **APPLIED MUSIC.** Advanced. (167, 168, 169)

480. **SENIOR RECITAL.** Two credits maximum; autumn, winter or spring. (199)

**Cognate Requirements in Piano:** Students not majoring in piano or organ are required to have two successful years in the study of piano or pass an examination no later than the junior year which will be based on the following minimum requirements:

**Technique:** Major and harmonic minor scales, one, two, three, and four notes to a beat; major, minor, diminished, and augmented triads; and broken arpeggios.

**Repertoire:** Easier classics of Bach, Clementi, Mozart, and Haydn; compositions by nineteenth and twentieth century composers; and hymns.

**Sight Reading:** Second-grade material.

**Accompanying:** An easy solo.

**Harmonization:** Ability to harmonize a simple melody.

**NON-DEPARTMENTAL**

10. **DEVELOPMENTAL READING.** 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. No credit; autumn, winter, or spring.

221-222-223. **LIBRARY METHODS.** Introduction to the use of books and periodicals, the classification and cataloging of books, the principles of school library administration, and the history of libraries. Practice work required. Three credits; autumn, winter, spring. (41-42-43)

**NURSING**

For complete information concerning the school of Nursing and course descriptions, see pages 125 to 130.
RESEARCH

A part of a college education is critical inquiry into the mysteries of nature. Students are taught the scientific methods of research in many fields.
Industrial Education 241-242-243  
Mathematics 312, 351, 352, 353  
Mechanical Engineering 101-102-103  
Speech 101-102 or 105-106  

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

MINOR REQUIREMENTS:  
A minimum of 27 credits.

COURSES

181, 182, 183. GENERAL PHYSICS. An introductory course in mechanics, heat, sound, light, electricity, atomic and nuclear physics. Emphasis is placed on the contribution of physics to modern thought and experience. Prerequisite: Mathematics 111 or a satisfactory score on the mathematics placement test. Physics 181 prerequisite for 182 or 183. Corequisite: 184, 185, 186. Three credits; autumn, winter, spring. (41, 42, 43)

184, 185, 186. GENERAL PHYSICS LABORATORY. Laboratory work integrated with 181, 182, 183. One credit; autumn, winter, spring. (41A, 42A, 43A)

201, 202, 203. INTRODUCTORY PHYSICS. An introductory course in mechanics, heat, wave motion, sound, light, and electricity designed to give the science and the engineering major a preparation for his future work. Basic mathematical principles are emphasized. Course 201 prerequisite for 202 or 203. Prerequisite: Mathematics 181. Corequisite: 204, 205, 206; Mathematics 182, 183, 184. Three credits; autumn, winter, spring. (51, 52, 53)

204, 205, 206. INTRODUCTORY PHYSICS LABORATORY. Laboratory work accompanying 201, 202, 203. One credit; autumn, winter, spring. (51A, 52A, 53A)

241, 242, 243. PHYSICAL ASTRONOMY. 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. Four credits; autumn, winter, spring.

Physics 181, 182, 183 or 201, 202, 203 prerequisite for all courses numbered 300 or above; Mathematics 181, 281, 282, 283 prerequisite for all courses numbered 300 or above except 351, 352.

301, 302. ELECTRICITY AND MAGNETISM. Electric and magnetic field theory, direct and alternating current circuit analysis, electric and magnetic properties of matter. Four credits; autumn, winter. (101, 102)

304, 305. ELECTRICAL MEASUREMENTS. Laboratory work accompanying 301, 302 to familiarize the student with the apparatus and techniques for the basic direct and alternating current measurements. One credit; autumn, winter. (101A, 102A)

313. THERMODYNAMICS. Basic principles of temperature and heat measurement, laws of thermodynamics, behavior of ideal gases, change of state, thermodynamic properties of matter. Five credits; spring. (103)

321, 322, 323. ELECTRONICS. Physical principles of solid state, gaseous, and vacuum devices for controlling electric current; fundamentals of rectifier, amplifier and oscillator circuits. Corequisite: 301, 302, 304, 305
or prerequisite: Electrical Engineering 224-225-226. Three credits; autumn, winter, spring. (111, 112, 113)

324, 325, 326. ELECTRONICS LABORATORY. Laboratory work accompanying 321, 322, 323. One credit; autumn, winter, spring. (111A, 112A, 113A)

351, 352. RADIOISOTOPE RESEARCH TECHNIQUES. Laboratory work accomplished 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: Chemistry 141-142-143, or General Physics, 181, 182, 183. Two credits; autumn, winter. (121, 122)

401. OPTICS. Reflection, refraction, dispersion, diffraction, interference, polarization, electromagnetic and quantum theories of radiation. Corequisite: 404. Four credits; autumn. (151)

402. ATOMIC PHYSICS. Experimental and theoretical foundations of modern atomic physics: special relativity, elementary quantum mechanics, atomic structure and spectra. Corequisite: 405. Four credits; winter. (152)

403. NUCLEAR PHYSICS. Nuclear structure, characteristics of alpha, beta, and gamma radiation, radioactivity, nuclear reactions, uses of radioisotopes, nuclear energy. Four credits; spring. (153)

404. OPTICS LABORATORY. Laboratory work accompanying 401, designed to illustrate the fundamental phenomena of geometrical and physical optics. Two credits; autumn. (151A)

405. ATOMIC PHYSICS LABORATORY. Laboratory work accompanying 404. Classical and modern experiments in atomic physics. Two credits; winter. (152A)

406. NUCLEAR PHYSICS LABORATORY. Experimental work on the statistics of nuclear radiation measurement, radioactive half-lives, intensity of radioactive sources, characteristics of alpha, beta, and gamma radiation, neutron activation. Two credits; spring. (153A)

421, 422, 423. THEORETICAL MECHANICS. Mathematical treatment of the statics and dynamics of particles, fluids, and rigid bodies with emphasis on harmonic, orbital and wave motion. Three credits; autumn, winter, spring. (161, 162, 163)

471. METHODS OF TEACHING PHYSICAL SCIENCE. 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. Three credits; summer.

477, 478, 479. SPECIAL PROBLEMS IN PHYSICS. 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. Autumn, winter, spring. (191, 192, 193)

RELIGION

For complete information concerning the School of Theology, major and minor requirements, and course descriptions, see pages 120-124.
SECRETARIAL SCIENCE
MISS RITTENHOUSE, MRS. EICHNER, MISS KONNERTH

The degree program aims to integrate vocational preparation on the collegiate level with a broad cultural education. This program prepares students for professional secretaryship. The department also seeks to equip students with knowledge and skills necessary for stenographers and general office workers.

MAJOR REQUIREMENTS FOR A BACHELOR OF SCIENCE DEGREE:

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<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Records Management</td>
<td>181</td>
</tr>
<tr>
<td>Secretarial Procedures*</td>
<td>207-208</td>
</tr>
<tr>
<td>Advanced Typewriting</td>
<td>221, 222, 223</td>
</tr>
<tr>
<td>Adding and Calculating Machines</td>
<td>230</td>
</tr>
<tr>
<td>Office Machines</td>
<td>262, 263</td>
</tr>
<tr>
<td>Advanced Shorthand and Transcription</td>
<td>287-288-289</td>
</tr>
<tr>
<td>Business Communications</td>
<td>361, 362</td>
</tr>
<tr>
<td>Advanced Secretarial Procedures</td>
<td>409</td>
</tr>
<tr>
<td>Shorthand Reporting</td>
<td>427</td>
</tr>
<tr>
<td>Denominational Reporting or Medical Reporting</td>
<td>428 or 448-449</td>
</tr>
<tr>
<td>Problems in Secretarial Science</td>
<td>480</td>
</tr>
<tr>
<td>Secretarial Science Seminar</td>
<td>492</td>
</tr>
<tr>
<td>Upper division, electives</td>
<td>0-6</td>
</tr>
</tbody>
</table>

57-60


Students preparing for medical secretarial work should complete the following courses before taking Secretarial Science 448-449:

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>General Biology</td>
<td>101, 102, 103</td>
</tr>
<tr>
<td>Microbiology</td>
<td>107</td>
</tr>
<tr>
<td>Anatomy, Physiology and Health</td>
<td>202-203</td>
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</tr>
<tr>
<td>Adv. Secretarial Procedures</td>
<td>409</td>
</tr>
<tr>
<td>Methods of Teaching Typewriting</td>
<td>473Typ.</td>
</tr>
</tbody>
</table>

*1965 juniors and seniors omit 207-208 and register for 407-408.

115
COURSES

121-122. BEGINNING TYPEWRITING. An introductory course with emphasis on basic theory and skills for personal and vocational use. Two credits; autumn, winter. (11-12)

123. INTERMEDIATE TYPEWRITING. A continuation of courses 121-122. Prerequisite: 121-122 or equivalent. Two credits; spring. (13)

129. PERSONAL TYPEWRITING. A course emphasizing the techniques of touch typewriting as applied to business and personal use. Does not apply on a major or minor. Two credits; spring. (181)

141-142-143. SHORTHAND THEORY. A course covering Gregg Shorthand principles with emphasis on correct writing and transcribing of shorthand notes. Corequisite: 121-122, 123 or equivalent. Five credits; autumn, winter, spring. (21-22-23)

181. RECORDS MANAGEMENT. A course in the theory and practice of the modern systems of filing. Two credits; autumn. (42)

207-208. SECRETARIAL PROCEDURES. A preparation for the activities and procedures common to most stenographic jobs, including business arithmetic, business English, business meetings and reports. Four credits; autumn, winter.

210. SWITCHBOARD. Instruction in the organization and operation of a PBX system. Thirty hours switchboard practice with special instruction in the development of a pleasing telephone personality. One credit; winter or spring. (55 or 56)

221, 222, 223. ADVANCED TYPEWRITING. A continuation of course 123 with emphasis on increase of speed, accuracy, and skill in the production of business papers. Must be taken in sequence. Prerequisite: 121-122, 123 or equivalent. Two credits; autumn, winter, spring. (61, 62, 63)

230. ADDING AND CALCULATING MACHINES. Instruction in the use of computing and adding machines. One credit; autumn or winter. (81 or 82)

262, 263. OFFICE MACHINES. Instruction and practice in the use of office machines, duplicating machines (winter), voicerecognition machines (spring). Prerequisite: 121-122, 123. Two credits; winter, spring. (43)

287-288-289. ADVANCED SHORTHAND AND TRANSCRIPTION. A course planned to review the principles of Gregg Shorthand and to build speed in taking and transcribing business dictation. Emphasis on and extensive practice in the production of mailable transcripts. Prerequisite: 121-122, 123 and 141-142-143 or equivalent. Three credits; autumn, winter, spring. (97-98-99)

310. ADVANCED OFFICE MACHINES. A laboratory course for students who desire to develop vocational proficiency in the operation of a specific office machine. Prerequisite: 230, or 262 or 263. One credit; autumn, winter or spring. (144, 145 or 146)

361, 362. BUSINESS COMMUNICATIONS. A study of the principles basic to effective communication with application to specific problems related to business. The winter quarter will cover business reports. Three credits; autumn, winter. (31)

407-408, 409. ADVANCED SECRETARIAL PROCEDURES. A study of the duties and problems of the secretary in business and the professions. Includes the study of personality and office relations. Prerequisite: 121-122, 123; 141-142-143; 181; 263. Three credits; autumn, winter, spring. (157-158-159)
427. **SHORTHAND REPORTING.** A course designed to build skill in reporting and transcribing congressional and other technical material at higher speeds. Prerequisite: 221, 222, 223 and 287-188-189 or equivalent. Three credits; autumn. (167-168)

428. **DENOMINATIONAL REPORTING.** A study of the work of the denominational secretary, specialized vocabulary, and reporting procedures. Prerequisite: 141-142-143 and 287-288-289 or equivalent. Three credits; winter (169)

448-449. **MEDICAL REPORTING.** A study of the duties of the medical secretary, and the development of a basic medical vocabulary. There will be practice in the transcription of medical records from voicerecording machines. Prerequisite: 141-142-143, 287-288-289 or the equivalent, and Biology 202-203. Three credits; winter, spring. (179)

473Typ. **METHODS OF TEACHING TYPEWRITING.** A survey of the objectives, methods, and techniques of teaching typewriting in the secondary school. Observation, demonstration, and class presentation are required of the students as a part of this course. Three credits; spring. (197 Typ.)

471Sh. **METHODS OF TEACHING SHORTHAND.** Consideration of materials and methods in the teaching of shorthand in the secondary school. Observation, demonstration, and class presentation are required of the students as a part of this course. Three credits; autumn. (197Sh.)

480. **PROBLEMS IN SECRETARIAL SCIENCE.** A course for advanced Secretarial Science students to give opportunity for supervised work experience and/or individual study of a problem in Secretarial Science. Approval of the chairman of the department required. Two credits; autumn, winter, or spring. (181, 182 or 183)

492. **SECRETARIAL SCIENCE SEMINAR.** A course for senior Secretarial Science students for research, special problems, analysis of new trends in the field, and study of the major areas in Secretarial Science. One credit; winter. (186)
SPEECH

MR. BALHARRIE, MR. DICKINSON, MRS. McCORMICK, MRS. RIGBY

The objective of the department is to provide training in the speech arts that will enable students to communicate ideas effectively in a democratic society and to increase personal competence in the chosen career.

MINOR REQUIREMENTS:

A minimum of 27 credits including courses 101-102 or 105-106 and 9 upper division credits.

COURSES

101-102 or 105-106. ESSENTIALS OF SPEECH. An introduction to the procedure of public speaking with emphasis on the acquisition of ease before an audience, a conversational attitude, and reasonable facility in pronunciation, articulation, and voice production. Two credits; autumn, winter; or winter, spring. (1-2 or 5-6)

201. INTRODUCTION TO SPEECH CORRECTION. A first course in the study of types and nature of speech defects frequently found in preschool ages and in the classroom. Methods and techniques of therapy. Three credits; autumn.

203. VOICE AND DICTION. To aid in understanding and improving the speaking voice, with emphasis on the function of the speech mechanism. Instruction in the aspects of pitch, rate, quality, and volume as connected with the emotional symbols of oral expression. Phonetic approach to the study of English speech sounds. Two credits; spring. (53)

207. GROUP DISCUSSION. Participation in various types of group discussions, and theory and practice of parliamentary procedure. Two credits; autumn. (57)

210. ART OF INTERPRETATION. A course in reading from the printed page with fluency and effectiveness, especially from the Scriptures. A study of the various types of interpretative literature with a view toward its understanding for the purpose of public presentation. Two credits; autumn or spring. (54 or 56)

223. ARGUMENTATION AND DEBATE. Theory and practice of debating. Evidence and forms of reasoning; logical analysis and organization of argument. Consideration of methods in critical thinking. Two credits; spring. (63)

322. RADIO SPEECH. The theory and practice of microphone technique with special emphasis on diction and voice quality. Prerequisite: 101-102 or 105-106, or 210. Three credits; autumn. (161)

323. ADVANCED PUBLIC ADDRESS. 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 or 105-106. Two credits; spring. (113)

381, 382. PULPIT ADDRESS. 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 the numerous speaking appointments. Three credits; autumn, winter. (141, 142)
422. **SPEECH COMPOSITION AND ANALYSIS.** A comprehensive treatment of speech organization, content, and delivery. Analysis of great American speeches. Prerequisite: 101-102 or 105-106 or consent of the instructor. Three credits; winter. (112)

443. **PERSUASIVE SPEAKING.** 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 or 105-106. Three credits; spring. (173)

477, 478, 479. **SPECIAL PROBLEMS IN SPEECH.** 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. Autumn, winter, spring. (191, 192, 193)
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SCHOOL OF THEOLOGY

MR. BALKHARRIE, MR. ALCOCK, MR. BARNES, MR. GROVE, MR. LITKE, MR. LUDGATE, MR. NICOLA

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.

Selection of prospective candidates for the ministry is made on the basis of scholarship, spiritual qualities, social sympathies and skills, and cultural refinement. Ministerial students are admitted to upper division standing in the School of Theology only upon approval of the theology faculty and must meet Seminary entrance requirements by completing a theology major. An additional year of graduate study at the Theological Seminary of Andrews University is a prerequisite of the ministerial internship. A grade-point average of 2.5 is required for regular admission to the Seminary; therefore, in order to graduate with the B.A. degree with a major in theology, a student must have a grade-point average of 2.5. If at the beginning of his senior year a candidate fails to meet this standard, he will register as a Religion major.

All Theology and Religion majors must successfully complete a senior comprehensive examination which will cover broad areas of Biblical and religious knowledge. The student is advised, therefore, to select a variety of courses and thus become familiar with the entire field. Those planning to attend the Seminary at Andrews University should make sure that they obtain the necessary undergraduate subjects required for entrance. It is highly recommended that all Theology and Religion majors elect as many courses in education as possible towards teacher certification. Those wishing to become Bible instructors may select either a Theology or a Religion major.

THEOLOGY MAJOR—REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE:

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<td>Theology I</td>
<td>141, 142, 143</td>
</tr>
<tr>
<td>Theology II</td>
<td>221, 222, 223</td>
</tr>
<tr>
<td>Seminar in Religion</td>
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</tr>
<tr>
<td>Electives (Counsel with department chairman.)</td>
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<td>Biblical Languages</td>
<td>101-102-103; 221, 222, 223</td>
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<tr>
<td>History</td>
<td>101, 102, 103; 201, 202, 203</td>
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</tr>
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<td>and electives</td>
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<td>407</td>
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</tbody>
</table>

RELIGION MAJOR—REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE:

Seminar in Religion (3 credits) and 51 credits of electives chosen in counsel with the chairman of the department.

120
MINOR REQUIREMENTS:

30 credits in Religion, including 9 upper division.

COURSES

A. THEOLOGY

101, 102, 103. BIBLE SURVEY. 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. Two credits; autumn, winter, spring. (1, 2, 3)

104, 105, 106. LIFE AND TEACHINGS OF JESUS. 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. Two credits; autumn, winter, spring. (4, 5, 6)

141, 142, 143. THEOLOGY I. 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. Intended for theology and religion majors. Must be taken in sequence. Three credits; autumn, winter, spring. (21, 22, 23)

201, 202, 203. FUNDAMENTALS OF CHRISTIAN BELIEF. 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 held by the Seventh-day Adventist denomination. Two credits; autumn, winter, spring. (51, 52, 53)

221, 222, 223. THEOLOGY II. This course consists of a thorough study of the basic teachings of the Bible. Students will be required to organize their own 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. Intended for theology and religion majors. Five credits; autumn, winter, spring. (61, 62, 63)

322. DANIEL. 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. Prerequisite: 201, 202, 203. Three credits; winter. (111)

323. THE REVELATION. 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. Prerequisite: 201, 202, 203; 322. Three credits; spring. (112)

364, 365, 366. HEBREW PROPHETS. 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. Three credits; autumn, winter, spring. (134, 135, 136)

384. DOCTRINE OF THE SANCTUARY. A study of the Hebrew tabernacle and its services with special emphasis on its significance for the twentieth century. Three credits; autumn.
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384. DOCTRINE OF THE SANCTUARY. A study of the Hebrew tabernacle and its services with special emphasis on its significance for the twentieth century. Three credits; autumn.
THEOLOGY

*426. ESCHATOLOGY. 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. Three credits; spring. (166)

464, 465, 466. NEW TESTAMENT EPISTLES. An exegetical study of the epistles of the New Testament, attention being given in each case to the time, circumstances, place of writing, and the purpose for which it was written. Two credits; autumn, winter, spring. (184, 185, 186)

477, 478, 479. SPECIAL PROBLEMS IN RELIGION. 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. Autumn, winter, spring. (191, 192, 193)

491, 492, 493. SEMINAR IN RELIGION. A review of principal areas in the field of religion with emphasis on central issues and certain problems involved. Assigned topics for discussion. One credit; autumn, winter spring. (194, 195, 196)

B. CHRISTIAN PHILOSOPHY

231, 232. MINISTRY OF HEALING. A study of the work of Christ as the great compassionate Healer based on the writings of Ellen G. White. The example of Jesus as a medical evangelist is studied with emphasis on the opportunities for spiritual ministry by the Christian nurse. Two credits; autumn, winter. (Taught on the Portland campus only.) (51, 52)

341, 342, 343. SPIRIT OF PROPHECY AND DENOMINATIONAL HISTORY. A careful review of the Gift of Prophecy in the remnant church. The bestowal of this gift in the beginning, after the fall of man, and its work during the centuries to the 1844 movement. The rise of the denomination in its connection with the prophetic movement of Revelation 10 and in its development during the last one hundred years is carefully studied. Two credits; autumn, winter, spring. (121, 122, 123)

421, 422, 423. PHILOSOPHY OF RELIGION. A study of the fundamental reasoning underlying the Christian religion in general and the beliefs of Seventh-day Adventists in particular. The Christian solutions to the basic problems of life are considered. Must be taken in sequence. Two credits; autumn, winter, spring. (161, 162, 163)

C. BIBLICAL LANGUAGES

Greek I
Greek II
Doctrinal Epistles of Paul
Later Epistles of Paul
Hebrew I
Hebrew Reading
Special Problems in Biblical Languages—For description of these courses, see the Department of Biblical Languages.

*Not offered the current year.
D. ARCHAEOLOGY AND RELIGIOUS HISTORY

321. EARLY CHRISTIAN CHURCH. Significant trends and events in the development of Christianity from the time of Christ to Charlemagne, including a study of the Church in relation to the Roman Empire, its missionary expansion, the influence of the Church fathers, doctrinal and organizational modifications, the heretical sects, the councils, Christological controversies, and rise of the papacy. Three credits; autumn. (113)

402. MODERN DENOMINATIONS. This course deals with the cardinal teachings of a number of the prominent religions of the world. Comparisons are made of the teachings relating to God, salvation, sin, and the future. Three credits; winter. (Also taught on the Portland campus: two credits; summer and autumn.) (152)

403. WORLD RELIGIONS. 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. Three credits; spring. (153)

444, 445, 446. BIBLICAL BACKGROUNDS. An exploration of those archaeological, historical, and scientific studies of the present age which make the scriptural record more meaningful. Special emphasis is placed upon recent archaeological and manuscript discoveries that throw light upon the life and times of the Bible period. Two credits; autumn, winter, spring. (174, 175, 176)

E. APPLIED THEOLOGY

383. CHURCH ADMINISTRATION. 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. Three credits; spring. (143)

387. INTERVIEWING AND SPIRITUAL COUNSELING. A course to help the student bridge the gap which might exist between theoretical Christianity and practical Christianity in personal life and in the nurse-patient relationship. Methods of Christian conversation and counseling are presented to give the student confidence and understanding in the giving of total patient care, which includes spiritual therapy. Three credits; autumn, winter or spring. (Taught on the Portland campus.) (144)

427, 428. CHRISTIAN DYNAMICS. 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. Prerequisite: 201, 202, 203. Two credits; autumn, winter. (167, 168)

429. STUDIES IN CHRISTIAN DYNAMICS. 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. Two credits; spring. (169)
441, 442, 443. PERSONAL EVANGELISM. 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. Two credits; autumn, winter. (171-172)

447, 448. PUBLIC EVANGELISM. 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; Speech 381, 382. Two credits; autumn, winter. (177-178)

461, 462, 463. FIELD EVANGELISM. Experience in evangelistic techniques is obtained by giving Bible studies and/or holding meetings. One credit; autumn, winter, spring. (181, 182, 183)
MISS LEAZER, MRS. BOECK, MRS. FOX, MRS. GIEBELHOUSE, MRS. GISH, MRS. HALE, MRS. HOLLAND, MRS. RITER, MISS RUDY, MRS. SCOTT, MRS. STRATTON, MR. WHITE, MISS WILSON

The bachelor of science degree offered in the School of Nursing is parallel in nature to those offered in other departments of the college: approximately half of the courses for the degree are of the same groups of liberal arts or basic courses required for bachelor of science degrees; the other half are professional.

The aim is to provide an education broadening and cultural in nature and at the same time prepare the student for the beginning of professional nursing to people of all ages under varying circumstances. The contributing benefits of a college degree with an emphasis on humanities, science, social science, and the Christian heritage, we believe, provide a basis for personal development, for depth in perspective of human needs, mature judgment, and increasing continued growth in professional competence and dedication.

The objectives of the School of Nursing are as follows:

To guide the student in a personal development which will produce a well-adjusted individual, capable of accepting the responsibility for, and direction of, her own life in full harmony with the philosophy of the school.

To provide opportunity for the student to secure basic knowledge and skills essential to meet nursing needs in illness, in the conservation of health, and in giving restorative service to the individual and to the family.

To motivate creative thinking and intellectual curiosity.

To develop a foundation for leadership in the field of nursing, and the basic foundation for graduate education.

To stimulate and nurture the desire to give selfless, kind, tolerant, and understanding service to mankind.

To encourage the student to develop a Christian philosophy of life as a basis for the solution of her own problems, and a basis for ministration to the patient.

To prepare Christian youth for missionary nursing in the health activities of the Seventh-day Adventist Church throughout the world.

GENERAL INFORMATION

The School of Nursing is approved by the Collegiate Board of Review of the Department of Baccalaureate and Higher Degree Programs of the National League for Nursing, and by the Washington State Board of Professional Nursing. The principal clinical practice area for Walla Walla College nursing students is the Portland Sanitarium and Hospital, a modern institution which is approved by the Joint Commission on Accreditation of Hospitals and has more than 10,000 patient admissions per year.

The nursing curriculum may be completed in thirteen quarters. Six quarters are spent on the College Place campus and seven quarters in the Clinical Division. Upon satisfactory completion of the curriculum the
student is eligible to write State Board Examinations and will receive the Bachelor of Science degree with a major in nursing.

The Portland Sanitarium and Hospital serves as the principal clinical practice area for nursing students.

Students gain laboratory practice at the Portland Sanitarium and Hospital in the following areas: Medical-Surgical Nursing, Pediatric Nursing and Obstetrical Nursing.

Through the University of Oregon, Psychiatric Nursing is obtained at the Oregon State Hospital, Salem. Public Health Nursing is studied at the University of Washington.

All students registered in the School of Nursing are subject to the general regulations of the College.

ADMISSION TO CLINICAL DIVISION

Completion of the first four quarters' work on the College Place Campus does not automatically admit the student to the Clinical Division. A committee representing the staff on both campuses evaluates the aptitude and qualifications of each student and selects those students who may proceed to the Clinical Division.

ADMISSION WITH ADVANCED STANDING

Upon completion of the courses required for entrance to the Clinical Division, students from other colleges may be admitted directly to the Clinical Division. Students wishing to do so are urged to plan carefully their college work with their college advisor and to communicate with the Dean, Walla Walla College School of Nursing, 6014 Southeast Yamhill, Portland 15, Oregon. Applicants seeking admission with advanced standing must have their applications approved by the Admissions Committee of the College.

DEGREE REQUIREMENTS

The degree of Bachelor of Science is conferred by Walla Walla College upon satisfactory completion of the Collegiate Nursing Curriculum. Students must have achieved a cumulative grade-point average of 2.00 (C). For further information concerning degree requirements, consult pages 39 to 44 of this Bulletin.

<table>
<thead>
<tr>
<th>Autumn College Place Campus</th>
<th>Winter College Place Campus</th>
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</thead>
<tbody>
<tr>
<td>Fundamentals of Christian Belief</td>
<td>Fundamentals of Christian Belief</td>
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<tr>
<td>Freshman Composition</td>
<td>3</td>
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<tr>
<td>Introductory Chemistry</td>
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<tr>
<td>General Psychology</td>
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<td>Essentials of Speech</td>
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<td>Introduction to Sociology</td>
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<td>Physical Education</td>
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<td><strong>Total:</strong></td>
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<td>Semester</td>
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<td>Spring</td>
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<td>University of Oregon</td>
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<td>University of Wash.</td>
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<td></td>
<td>Campus</td>
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</tbody>
</table>
NURSING

Portland Campus

Medical-Surgical Nursing Laboratory III 4
Leadership in Nursing 3
Leadership in Nurs. Lab. 4
Trends & Prof. Rel. in Nursing 3

17

College Place Campus

Cultural Foundations 3
Writing (Advanced or Creative) 3
History (U.S.) 3
Religion (U.D.) 2
Electives 5

16

DEGREE REQUIREMENTS FOR REGISTERED NURSES

For registered nurses who have not had the benefit of a collegiate program, the College provides opportunity to fulfill the requirements for the regular Bachelor of Science Degree with a major in nursing. The program for the registered nurse student is intended to provide them with the same background of general and professional education as is attained by the basic baccalaureate nursing student. It is planned to provide opportunities for the solution of patient problems and to develop deeper and broader understanding and abilities required in the practice of nursing.

ADMISSION

Students planning to come to Walla Walla College should submit their credits for evaluation. Graduate nurses who have completed pre-nursing in a liberal arts college and 27-36 months in a hospital school of nursing should plan to spend approximately six quarters at Walla Walla College. Nurses who hold hospital school diplomas instead of collegiate degrees will be required to complete the courses listed in the first four quarters of the collegiate nursing program.

For course work taken in an approved hospital school of nursing candidates may obtain credit by validating examinations toward the Bachelor of Science Degree—with a major in nursing. These validating examinations are given in the Clinical Division of the College and credits granted by examinations will be recorded in toto when the candidate has met all entrance requirements.

SUMMARY OF REQUIREMENTS

1. College credit for all courses listed in the curriculum.
2. Satisfactory scores in NLN achievement tests and other tests in all clinical areas. Low scores will result in the student's auditing or repeating clinical courses. Deficiencies in any clinical area must be made up in regular, basic baccalaureate nursing classes.
3. Completion of all courses which are peculiar to the Walla Walla College School of Nursing curriculum.

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THE PALOUSE FALLS

A few miles north of Walla Walla, nature has carved out this hole into which the Palouse river falls 192 feet on its way to the turbulent Snake river.
4. One quarter clinical nursing on Portland campus.
5. One quarter public health nursing on University of Washington campus.
6. Sufficient electives to bring total college credits to 192 hours, including 60 upper division credits.

COURSE DESCRIPTIONS

224. FUNDAMENTALS OF NURSING. Orientation to the profession, emphasizing present-day concepts of nursing, professional ethics, and preparation for modern nursing practice. Instruction is given in the care of patients presenting various nursing problems, with emphasis on techniques commonly used in the care of all patients. Through discussion and demonstration in the classroom and laboratory, the student acquires understanding and skills in preparation for the clinical situation. Three credits; autumn.

261, 262, 263. MEDICAL-SURGICAL NURSING I, II, III. Study is given to the various medical-surgical conditions common to the adult with reference to the several anatomical systems of the body and a study of the nursing care specifically related to each condition. Scientific facts and principles which form the basis for procedures and care are considered. In addition, the course draws attention to the psychological, social, spiritual and public health aspects of illness, prevention, treatment, rehabilitation, disaster nursing, diet therapy, drug therapy, physical therapy, and operating room technique. Six credits; winter. Eight credits; spring. Three credits; summer or autumn.

264, 265, 266. MEDICAL-SURGICAL NURSING LABORATORY I, II, III. (Concurrent with Medical-Surgical Nursing I, II, III.) This course provides supervised practice in applying scientific principles to the care of the adult patient ill with common medical and surgical conditions. Emphasis is placed on the giving of nursing care according to individual needs of patients. Six credits; winter and spring. Four credits; summer or autumn.

321. INTRODUCTION TO PUBLIC HEALTH AND EPIDEMIOLOGY. 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. Four credits; autumn or spring.

348. MATERNAL-CHILD NURSING I. An introduction to the concept of family-centered maternity nursing including scientific and nursing principles related to the care of mothers and infants. Includes basic principles of growth and development of the newborn. Five credits; winter or summer.

352. MATERNAL-CHILD NURSING, LABORATORY I. (Concurrent with Maternal-Child Nursing I.) Guided practice and observation in the nursing care of mothers and newborn in the hospital and various community agencies. Five credits; winter or summer.

356. MATERNAL-CHILD NURSING II. A study of family-centered child care including principles and concepts of growth and development, disease processes and disability, and the nursing care of infants and children. Five credits; spring or autumn.
358. MATERNAL-CHILD NURSING, LABORATORY II. (Concurrent with Maternal-Child Nursing II.) Guided practice and observation in care of well and sick children in nursery school, out-patient clinic, doctor's office, hospital, and school for mentally retarded. Five credits; spring or autumn.

406. SEMINAR IN NURSING. Seminar on techniques of health education. One credit; spring.

424. LEADERSHIP IN NURSING. The principles of leadership in nursing, including administration of a hospital unit. Three credits; autumn or summer.

427. LEADERSHIP IN NURSING, LABORATORY. Application of principles of team leadership and the administration of a nursing unit. The student functions under supervision as a team leader and a unit administrator. Four credits; autumn or summer.

444. TRENDS AND PROFESSIONAL RELATIONSHIPS IN NURSING. A study of present-day trends in nursing and how they evolved. Study is given to professional organizations, patterns of nursing education, nursing legislation, opportunities in the field of nursing, and other problems in nursing practice. Three credits; autumn or summer.
FINANCIAL INFORMATION

The College operates on a cash basis and expects students to meet all financial obligations promptly. All students, including veterans, are required to make an advance deposit before registration as follows:

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dormitory Students</td>
<td></td>
</tr>
<tr>
<td>On or before September 1</td>
<td>$50</td>
</tr>
<tr>
<td>Additional required upon registration</td>
<td>150</td>
</tr>
<tr>
<td>Total</td>
<td>$200</td>
</tr>
<tr>
<td>Village Students</td>
<td></td>
</tr>
<tr>
<td>Upon registration or before</td>
<td>$125</td>
</tr>
<tr>
<td>Clinical Division</td>
<td></td>
</tr>
<tr>
<td>Advance payment for uniforms, nurse’s cape, textbooks, and miscellaneous school supplies</td>
<td>$200</td>
</tr>
</tbody>
</table>

The advance deposit is held in reserve until the last month of the school year or until the student leaves school. Students are expected to pay the actual school charges at the close of each month. Clearance cards and registration booklets, issued when the advance deposit and satisfactory financial arrangements are made, must be presented at the proper places.

GENERAL INFORMATION

Student statements are rendered at the close of each month and are due on the 10th and past due on the 20th day of the following month. When settlement is not made by the 20th, the student is automatically requested to review his account with the management. Due to unforeseen circumstances, changes in charges, labor plans, and general organization may be necessary during the year. Actions voted by the College Board, Faculty, or Finance Committee at any time shall have equal force with statements published in this bulletin.

Tuition and room rental charges for the quarter are made in three equal installments. Students who register late are charged full tuition for the quarter in which credit is received.

REMITTANCES. Checks, drafts, and money orders should be made in favor of Walla Walla College and should be sent directly to the College business office. A 2 percent cash discount will be given when a minimum of one quarter's tuition is paid in advance. The same 2 percent cash discount will be given when the parent or guardian signs a contract with Education Funds, Incorporated, for the amount of the contract as used each
year. These contracts can be made for one academic year or may be made for four years of college with the payments to extend over 60 months. They can be made for varying amounts with the minimum being $700 for one year. The repayment includes interest at the rate of 4½ percent. The discount of 2 percent given by the College makes the contract actually cost the parent or the student 2½ percent for the insurance and other advantages under the contract. For additional information, please write the Office of Student Finance.

Inquiries concerning student financial matters should be directed to the Finance Counseling Office and those concerning the academic or instructional program should be directed to the Academic Dean of the College. It is realized that college expenses are a problem for some students and parents. An increasing number of students each year 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 finances. The Finance Counseling office has full particulars regarding the various opportunities in this respect.

No refunds except room rental charges due to absences of more than two weeks caused by illness are made.

Accounts with credit balance will not be refunded until 30 days after the close of the month in which the student withdraws from school. Upon proper withdrawal, tuition refunds might be made as of the end of the week the student's accepted withdrawal is made. Students who drop school without completing withdrawal procedures will be charged until proper arrangements are made.

RELEASE OF TRANSCRIPT OR DEGREES. By action of the Board of Trustees of the College, a degree or transcript of credit may not be released until the student's account is in balance.

EXAMINATION PERMITS. Examination permits are issued 15-20 days prior to quarter examinations. Students are required to have clearance cards five days before examinations are given. A $1 penalty per day will be assessed for issuance of late permits. A student whose account is overdue may not be permitted to take the final quarter examinations.

TUITION

All laboratory fees, all rentals (typewriter, piano and organ), are included in the tuition.

<table>
<thead>
<tr>
<th>Credit Hours</th>
<th>Tuition per Quarter</th>
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<tbody>
<tr>
<td>1</td>
<td>21.90</td>
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<tr>
<td>2</td>
<td>43.80</td>
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<tr>
<td>3</td>
<td>66.00</td>
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<tr>
<td>4</td>
<td>87.90</td>
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<td>5</td>
<td>109.80</td>
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<td>6</td>
<td>132.00</td>
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<td>7</td>
<td>153.90</td>
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<td>8</td>
<td>175.80</td>
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<td>9</td>
<td>198.00</td>
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<tr>
<td>10</td>
<td>219.90</td>
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<tr>
<td>11</td>
<td>241.80</td>
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<tr>
<td>12-16</td>
<td>279.00</td>
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<tr>
<td>Over 16, per credit</td>
<td>21.00</td>
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</tbody>
</table>
CLINICAL DIVISION

Quarterly fee

This charge which is made at the beginning of each quarter covers a general fee, a registration fee, student association dues, and the clinical division accident insurance.

Tuition

Students entering the clinical division after July 1, 1963 will be charged tuition at the rate of $279.00 per quarter for which they are enrolled in regular classwork. Basic nursing students who entered the clinical division before this date will continue on the thirty monthly installment tuition plan. The monthly installment rate for students continuing on this plan is $90.00.

AUDITING. Half tuition is charged for auditing classes, except the following for which regular tuition is charged: all courses in art, typing, shorthand, office machines.

TUTORING. Triple tuition is charged for individual tutoring.

APPLICATION FEE. Students entering the College for the first time will enclose $5 with their application blank. This fee, which is paid once and which is not refundable, covers the cost of checking grades, securing recommendations, and the making of required records. Accounts with other schools must be settled before matriculation.

GENERAL FEES. All students registered for six quarter hours or more are charged $10 per quarter for gymnasium, health service, library, lyceum, and registration. These students are also automatically members of the Associated Students of Walla Walla College and are charged a fee of $6 per quarter. This fee covers the cost of The Collegian, Mountain Ash, The Mask, Student Association Center, and Association dues.

Students registered for less than six hours are charged $6 per quarter for library, registration, and one Collegian subscription. These students are not considered members of the Student Association; and if a Mountain Ash is desired, arrangements should be made with the Mountain Ash office.

A special assessment by the ASWWC of $2 per quarter for the swimming pool fund will continue for the 1964-65 school year and will be added to the general fee.

All dormitory and village unmarried students taking six or more credit hours will be charged club dues as set in the constitution of each club. These dues are not refundable upon dropping school or reregistration later in the quarter for less than six hours.

SPECIAL FEES

<table>
<thead>
<tr>
<th>Service</th>
<th>Fee</th>
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<tbody>
<tr>
<td>Entrance tests (at academies or on campus)</td>
<td>$5.00</td>
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<tr>
<td>Late registration</td>
<td>5.00</td>
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<tr>
<td>Change of program, per subject</td>
<td>1.00</td>
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<tr>
<td>Special examination</td>
<td>3.00</td>
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<tr>
<td>Advanced standing credit by examination, per quarter credit</td>
<td>2.00</td>
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<tr>
<td>Transcript of grades</td>
<td>no charge</td>
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<tr>
<td>First transcript</td>
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<tr>
<td>Each succeeding transcript</td>
<td>1.00</td>
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<tr>
<td>Degree, Bachelor's</td>
<td>7.50</td>
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</tbody>
</table>
Degree, in absentia, Bachelor's 17.50
Degree, Master's 25.00
Degree, in absentia, Master's 35.00
Developmental Reading 25.00
Band and orchestral instruments, per quarter 5.00
Classes having numerous or extended field trips will
be given notice of special fees to cover expenses.

MUSIC FEES. The following rates for private lessons per quarter are
in addition to tuition charges and are not refundable after the first of any
quarter, except for prolonged illness or withdrawal from the College. These
charges will be posted on the second statement of each quarter. Music
instructors will be available for a minimum of nine lessons per quarter.

Applied Music—Private Lessons Per Quarter
One lesson weekly (half-hour) $30.00
Two lessons weekly (one hour) 50.00
Student teachers: one lesson weekly (1/2 hr. credit) 23.00

Applied Music—Class Instruction Per Quarter
Class membership of four of more 14.00
Class membership of three 17.00
Class membership of two 20.00

Rentals (Students taking music without credit would pay the
following rentals.)
Practice room, 1-9 hours per week 7.00
Practice room, 10 hours or more per week 12.00
Practice room, individual hourly basis, per hour .50
Organ, 1-9 hours per week 18.00
Organ, 10 hours or more per week 30.00

RESIDENCE HALL EXPENSES
Where there is dual occupancy the room rental charges for each student
per quarter are as follows:

<table>
<thead>
<tr>
<th>Hall</th>
<th>Charge</th>
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<tbody>
<tr>
<td>Conard Hall</td>
<td>$87.00, $90.00, $93.00</td>
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<tr>
<td>Sittner Hall</td>
<td>$87.00, $90.00, $93.00</td>
</tr>
<tr>
<td>West Hall</td>
<td>$75.00</td>
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<tr>
<td>Clinical Division, Nurses Home</td>
<td>$75.00</td>
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</tbody>
</table>

When rooms are available, single occupancy is permitted at an extra
charge of $30 per quarter. The above charges include heat, electric lights
to a maximum of 200 watts, and plain laundering not to exceed $1 per
week. Dormitory students should not bring their own laundry bags, as
special bags will be provided by the College. Name tapes are not required
on clothing sent to the College Laundry.

ROOM RESERVATIONS. Each student residing in one of the College
residence halls will be required to make a $15 room deposit which will be
refunded when the student permanently discontinues dormitory residence
less any room charges turned in by the dean for delayed departure, un-
cleaned rooms, or room damage. This deposit will secure continuous room
reservation on a year-by-year basis as long as the student desires dormi-
tory residence.

A refund will be made until August 15 each year upon receipt of a
written cancelation of room reservation, but no refund is made thereafter.
BOARD. The cafeteria plan is used in the College dining halls. The minimum charge for board per month is as follows:

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<tbody>
<tr>
<td>Men</td>
<td>$28.00</td>
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<tr>
<td>Women</td>
<td>25.00</td>
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<tr>
<td>Clinical Division</td>
<td>20.00</td>
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</table>

AUTOMOBILE PARKING FEE. Residence hall students bringing automobiles with them will be charged a fee of $4 per quarter for parking privileges. Covered parking is available at a slight additional cost. The College does not carry insurance on the parking lot 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.

STUDENT HEALTH CENTER

The clinical facilities and twelve beds of the Health Center are available for students requiring treatments 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.

BOOKS AND SCHOOL SUPPLIES

Textbooks, stationery, gym suits and equipment, and other materials needed for school work 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 send $50 extra in addition to the down deposit with the student for such items. Credit at the College Store can be arranged by those whose accounts are satisfactorily maintained. Approval must be secured from the Finance Counseling Office. Those desiring this arrangement must have a letter of approval signed by the parent or sponsor.

INSURANCE — ACCIDENT AND HOSPITALIZATION

Student accident and hospitalization insurance will be carried by the College under a blanket policy for all students. The cost of this insurance will be determined during the summer of 1964 and will be approximately $5 per quarter for all students taking six hours or more. This insurance charge, when determined, will probably be added to the general fee when being posted to the students' accounts each quarter.

SCHOLARSHIP PLAN

Students entering the colporteur work for the purpose of earning school expenses have two plans available. One is the payment by mail scholarship plan, and the other is the C.O.D. scholarship plan. These scholarships are to cover room, board, tuition, and other direct school expenses. Full details regarding the scholarship plans can be secured from the Publishing Secretaries of the various conferences or the North Pacific Union Conference. Some information is also available in the Finance Counseling Office. Students wishing the colporteur scholarship benefits must arrange to have the full amount of their credit forwarded to the College. They
should also have some information available at the time of registration which will indicate the amount of credit which they will receive from this source.

<table>
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<th>Amount of Scholarship</th>
<th>$550</th>
<th>$650</th>
<th>$750</th>
<th>$850</th>
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<td>165</td>
<td>195</td>
<td>225</td>
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<tr>
<td>Amount for Student to Earn</td>
<td>385</td>
<td>455</td>
<td>525</td>
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<tr>
<td>Amount for Student to Deliver</td>
<td>770</td>
<td>910</td>
<td>1050</td>
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Students wishing the colporteur scholarship benefits must arrange to have the full amount of their required credit forwarded to the College before the close of the first six weeks of school.

**STUDENT LABOR**

Frequently, students who lack sufficient funds to defray college expenses are given employment in some department connected with the institution. Thus, many are assisted in their efforts to secure an education. The student should not, however, expect to earn his entire expenses. Students are expected to register for at least 10 credits each quarter and are, therefore, limited in the amount earned through labor. The College Board has found it necessary to establish certain regulations concerning student labor. Full details are available from the Finance Counseling Office.

The rate paid to students will be set each period by the business manager in counsel with the heads of the departments, and will be based on ability, industry, and faithfulness of the student. No labor credit will be honored unless the work assignment is authorized in writing by the Finance Counseling Office.

The first two or three weeks at the beginning of each school year are reserved to assign dormitory students to their labor programs. Other students will then be considered for available work opportunities.

**MISCELLANEOUS**

Students should bring their baggage checks to the College Business Office. No charge is made for hauling baggage during the first week of each quarter.

**SCHOLARSHIP AND LOAN FUNDS**

Certain individuals and organizations have made scholarship and loan funds available. These are primarily for assisting worthy students beyond the freshman year. For information see the Business Manager or the Finance Counseling Office. The funds are as follows: Alumni Association Student Loan Fund, Bertha Schneider Theology Student Loan Fund, Carrie Welch Student Fund, Grettner Student Loan Fund, Summer Class of 1953 Loan Fund, Worthy Student Loan Fund, Carolyn Harding Votaw Loan Fund, and National Defense Student Loan Fund.

**BEQUESTS AND DONATIONS**

Since it is highly important that the College Board should not be hampered by a lack of funds in its efforts to give the very best training to young people, we invite those whom God has blessed with means to remember the cause of Christian education. All bequests and donations should be made payable to Walla Walla College.
GRADUATES OF 1963

BACHELOR OF ARTS

Bakke, Alice Darlene
Bjelland, Dennis Tim
Blehm, Don R.
Blodgett, Ralph Hamilton
Braman, Clark
Bredall, Betty Louise
Buell, Billy Hubert
Campanello, Paul Jr.
Campbell, Kay Marie
Chickering, Evelyn Maire
Chobotar, Bill
Cook, Alice Eveline
Creitz, Lynn Errol
Deer, Dorothy Elsie
Diaz, Ulysses N.
Engel, Dorothea Joyce
Fitchen, Janice Sharon
Franklin, Jere C.
Freeberg, Larry R.
Gibson, Jon Richard
Godfrey, Helen Ann
Griffin, Joyce Irene
Griffith, Joyce
Hamlin, Delores Louise
Hansen, Ciri Allyce
Harden, Harvey B.
Harding, Gary Herschel
Heid, Carla Joanne
Ilchuk, Larry

Irving, Russell David
Johnson, Clair L.
Kearbey, Dale E.
Keefer, David W.
Kilmer, James Richard
Lamberton, Laura Celia
Lincoln, Marvin Allen
McAninch, Sandra Kay
McCormick, Genevieve J.
McDaniel, Dean Oliver
McKay, Harold E.
Meilicke, Merlene Frances
Miles, Joy
Moore, Waneta Alice
Noel, Kenneth Robert
Parks, Otis W.
Paulsen, Fredrick Emil
Pihl, Judith F.
Radke, Elford Daniel
Ross, Judith Ann
Sandness, John Neville
Saxman, Mary Ruth
Scheresky, Edward
Shepherd, Caroline Frances
Siaw, Caleb
Siaw, Thomas Yau
Simpa, Shirley A.
Smith, Calvin L.
Snow, Janet L.
Tan, Alwin S. M.
Thomas, Ruth Ann
Thompson, Nancy Lynn
Thorn, Jonathan S.
Toop, Judith L.
Trefz, Kenneth R.
Venden, Shirley Geraldine
Walters, Kenneth Dale
Ward, Phyllis Ann
Wells, Bert L.
Wharton, Wade Lemuel
White, Cleon E.
Wilson, Virginia Jean
Wood, David Thomas
Woodland, Dennis Wayne
Young, Joseph Richard Jr.
Zbaraschuk, Ruben Ivan

BACHELOR OF MUSIC
Alderson, Betty Lou
Kearbey, Robert Edward
King, Marie Sou Mui
Myers, Judith Ann

BACHELOR OF SCIENCE
Adey, Jerome D.
Anderson, Aundria Joy
Arland, Marlyn Marie
Ashby, William Edward
Baroi, Niranjan K.
Beckett, Roger R.
Beyer, Hila J.
Blake, Chester Douglas
Boyd, Wanda Lou
Bramlett, Norma Jean
Buhler, Gordon
Bunn, Darlene Faith
Bunn, Fred
Cole, Warren
Cowin, Louise Ruth
Curtis, Flora E.
Diaz, Lina
Dietrich, Joan Alice
Drake, Daniel Herbert
Drechsel, Irmgard
Duncan, Dorothy May
Dunham, Alexander Lee
Dunifer, Gerald LeRoy
Eby, William Clifford
Entley, Lena Kathryn
Fackenthall, Patricia Craik
Featherston, Paul Ellis
Frood, Reginald James
Frost, Grace A.
Gramms, Beverly Grace
Grove, Edna Winifred
Gustavson, Mary Purton
Haffner, Carolyn Anne
Halleson, Larry Samuel
Hayko, Alvin Lewis
Heckart, Esther Louise
Hedlund, Ann Marlene
Herbel, Dwayne Dale
Hill, Ellen Doreen
Homann, Joseph Francis
Hustwaite, Russell
Inoue, Lois K.
Jackson, Virgil L.
Jaynes, Mary Wilson
Jeske, Lorena Mae
Jordan, Reo Wesley
Kerbs, Jim A.
Knapp, Gerald Eugene
Ladd, Ervin David
Lang, Orville Arnold
Lange, Maxine May
Larson, Vivian Muriel
Liske, Elwin L.
Loomer, Donald Ray
Luce, Linda Lee
McKay, William Arthur
McVay, Dale J.
Machado, Lana Kaiulani
Machado, Nerita O.
Magboo, Estrellita
Marsh, Vivian Beryl
Martirosian, Robin Aris
Martonick, Betty Jean
Meador, Laura Lee
Miner, Muriel Peterson
Mulanix, Valoyce Elaine
Murray, Diane Elizabeth
Nelson, Alice Orilla
Oldham, Carl D.
Olson, Verla Jean
Parks, Naomi Kathleen
Parks, Ruth C.
Perry, Roger Monty
Petersen, Kathleen Eleanor
Pfannmuller, Theowne Beverley
Duanne
Piety, Janeth L.
Pinder, Marilyn Ruth Verabelle
Rasmussen, Lou Ellen
Robins, Richard L.
Robinson, Wendell E.
Rood, Lary Walter
Sample, Clyde Junior
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Schwartz, Marsha Christine
Shannon, Margaret Inez
Shiroma, Garland Sumiko
Shoemaker, Rollin LaVern
Staley, Sharon Jean
Takekawa, Ann Hatsuyo
Tonole, Bobbie Jeanne
Velez, Adriel
Vipond, Eleanor Ruth
Vipond, Maribeth Irene
Von Bergen, Dorothy Fay
Wallace, Joyce
Ward, Linda Carolyn
Weinand, Cora Ann
Wells, Douglas Dwight
Wendt, Dale Rodney
Wickland, Garold David
Williams, Catherine Rae
Wilson, Constance M.
Wilson, Sandra Ann
Yoshida, Grace Tazuko

Katsuren, Roy Isamu
Kraisosky, William Lawrence
Leslie, Lester Lyle
McCants, Edward W.
Piety, David Thomas
Stefonek, David M.
Williams, Louis E.
Zachrisson, Leonard E.
Zbaraschuk, Dennis W.

**MASTER OF ARTS**

Baroi, Niranjan K.
Barstad, Glenna
Bigham, Ervin Hadley
Bruington, Harry S.
Campbell, Colin Arthur
Crooker, Merritt Owen
Edstrom, Edward Irving
Fenton, Beulah Fern
Gerber, Henry Siegfried
Harrigan, Dorothy
Johnson, Gary Gene
Kelly, Robert Laberee
Oldham, Terrie Danielle
Roberts, Alydth Trygg
Robson, Palmer D.
Simorangkir, Amos
Simorangkir, Anneke Geertruida
Sorensen, Neil Clifford
Strutz, Peter George
Woiblet, Thelma D.
Young, Alice Maye

**BACHELOR OF SCIENCE IN ENGINEERING**

Bunch, Richard Herschel
Capon, A. Stanley
Christensen, Wayne A.
Clifton, Forest Marvin
Edmister, Theodore David
Gates, Lee Orville III
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WE HAVE DENIED THE FAITH OF OUR
FATHERS IF WE FAIL TO EDUCATE TRULY
OUR YOUTH FOR EFFECTIVE SERVICE
IN
THE AFFAIRS OF MANKIND TOUCHING
THE WORLD
THE HOME
THE CHURCH