

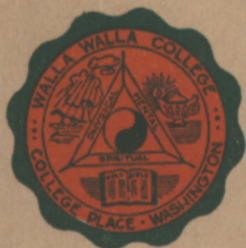
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Walla Walla College

BULLETIN

1953 - 1954

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"THE SCHOOL THAT EDUCATES FOR LIFE"

WALLA WALLA COLLEGE LIBRARY

WALLA WALLA COLLEGE BULLETIN

CATALOGUE ISSUE OF
1953-1954



*If morality and religion are to live in a school, it must
be through a knowledge of God's word.—Mrs. E. G. White*

WALLA WALLA COLLEGE LIBRARY

VOL. LXII

September, 1953

No. 1

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ADMINISTRATION BUILDING

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School Calendar 1953-1954

1953		SEPTEMBER					1953	
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1954		FEBRUARY					1954	
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1954		MARCH					1954	
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1954		APRIL					1954	
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1954		JUNE					1954	
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27	28	29	30					

Calendar for the Year 1953-'54

SUMMER QUARTER

Registration Tuesday, June 9
 Close of summer quarter Friday, Aug. 21

AUTUMN QUARTER

All freshmen arrive on campus Sunday, Sept. 13
 Freshman tests, 8:00 a.m., 1:00 p.m. Monday, Sept. 14
 Freshman convocations, attendance required Monday, Sept. 14
 Registration of sophomores, juniors, and seniors, 9:00 a.m., 1:30 p.m.
 Monday, Sept. 14
 Registration of freshmen, 8:30 a.m., 1:30 p.m. Tuesday, Sept. 15
 General Registration, 8:30 a.m., 1:30 p.m. Wednesday, Thursday, Sept. 16, 17
 Freshman classes begin, 7:30 a.m. Thursday, Sept. 17
 Faculty-Student reception, 7:30 p.m. Thursday, Sept. 17
 All other classes begin, 7:30 a.m. Friday, Sept. 18
 First vesper service, 7:30 p.m. Friday, Sept. 18
 Annual field day Tuesday, Sept. 29
 Thanksgiving recess Thursday, Friday, Nov. 26, 27
 Instruction ends, 12:00 noon Friday, Dec. 4

WINTER QUARTER

Registration of new students Sunday, Dec. 6
 Instruction begins, 7:30 a.m. Monday, Dec. 7
 Christmas recess Dec. 22, 6:00 p.m.-Dec. 29, 7:30 a.m.
 Instruction ends, 12:00 noon Thursday, March 4

SPRING QUARTER

Registration of new students Sunday, March 7
 Instruction begins, 7:30 a.m. Monday, March 8
 Instruction ends, 12:00 noon Friday, May 21
 Senior consecration service, 8:00 p.m. Friday, May 21
 Baccalaureate sermon, 11:00 a.m. Saturday, May 22
 Commencement, 8:30 p.m. Saturday, May 22

PART I

Administration and Instruction

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Faculty

ADMINISTRATION

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President

HENRY L. SONNENBERG, Ph. D.

Dean, Director Summer Session

ARTHUR W. SPOO, B. S.

Business Manager

FRANK W. PETERSON

Business Manager Emeritus

IRENE SMITH-BLACK, B. A.

Registrar

FABIAN A. MEIER, M. A.

Dean of Men

PAUL C. HEUBACH, M. A.

Dean of Theology

FREDRICK R. HANSON, R.N., M. A.

Dean, School of Nursing

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Librarian

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Assistant Registrar

NELLIE SHANKEL-SHARMAN

Assistant Dean of Women

MRS. MELBA HIGGINS

Assistant Dean of Women

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Assistant Librarian

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Principal, Clara E. Rogers Elementary School

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M. A., Washington

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Professor of Zoology
Ph. D., Southern California

ERNEST S. BOOTH
Professor of Zoology
Ph. D., Washington State

GEORGE W. BOWERS
Professor of Chemistry
Ph. D., Nebraska

C. W. DORTCH
Professor of Voice
M. Mus., Texas State Teachers College

STERLING GERNET
Professor of Piano and Theory
Ed. D., Temple

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Professor of Nursing Education
R. N., Mason Memorial Hospital
M. A., Washington

PAUL C. HEUBACH
Professor of Religion
M. A., Seventh-day Adventist Theological Seminary

JOHN E. POTTS
College Physician, Lecturer in Hygiene
M. D., College of Medical Evangelists

J. W. ROWLAND
Professor of Religion
M. A., Seventh-day Adventist Theological Seminary

DAISY SCHLUNTZ
Professor of Home Economics
M. S., Nebraska

WALTER I. SMITH

Professor of Secondary Education

Ed. D., George Washington

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Professor of Modern Languages

Ph. D., Nebraska

AGNES L. SORENSON

Professor of Modern Languages

M. A., Michigan

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Ph. D., Washington State

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M. Mus., Northwestern

A. A. G. O.

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Ph. D., Stanford

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M. S., Washington

BERNICE E. SEARLE

Associate Professor of Elementary Education

M. A., Minnesota

CECIL W. SHANKEL

Associate Professor of Chemistry

M. A., Nebraska

HENRIQUE G. STOEHR

Associate Professor of Modern Languages

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Associate Professor of Biology

Ph. D., Oregon State

MYRTLE WALKER

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M. A., Idaho

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M. A., Michigan

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Assistant Professor of Biology

M. S., Nebraska

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M. A., Catholic University

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M. S., Oregon State College

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M. A., C. P. A., Washington

JANET MILLER

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M. Mus., Southern California

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M. A., Seventh-day Adventist Theological Seminary

CALEB W. PRALL

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Ph. D., Southern California

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M. A., Nebraska

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M. A., Southern California

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Instructor in Religion

M. A., Seventh-day Adventist Theological Seminary

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M. A., Columbia

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B. S., Washington Missionary College

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ELAINE MYERS

Instructor in Voice

B. A., Walla Walla College

GLENN O. PATCHEN

Instructor in Engineering

B. S., (M. E.), Idaho

LYNN PESTER

Instructor in Secondary Education

M. A., Washington

*Leave of absence, 1953-'54

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B. A., Walla Walla College

MYRTLE ROWSE

Instructor in Secondary Education

B. A., Walla Walla College

HAROLD D. SCHWARTZ

Instructor in Secondary Education

M. A., Walla Walla College

ROBERT SILVER

Instructor in Secondary Education

M. A., Washington

ESTHER SONNENBERG

Instructor in English

M. A., Nebraska

CHARLES V. TEMPLE

Instructor in Art

B. A., Union College

CALVIN L. TRAUTWEIN

Instructor in Industrial Arts

B. S., Pacific Union College

GENEVIEVE STABLER-WEAVER

Instructor in Secretarial Science

B. A., Walla Walla College

HORACE E. WEAVER

Instructor in Secondary Education

M. A., Seventh-day Adventist Theological Seminary

DON RAY KIRKMAN

Graduate Assistant in Engineering

B. S. in Engineering, Walla Walla College

Faculty Committees

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H. J. ALCOCK, H. G. STOEHR, VAN O. BLAIR.

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LELAND PARKER, H. G. STOEHR, K. A. APLINGTON.

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BERNICE SEARLE, F. R. HANSON, R. A. UNDERHILL, MYRTLE WALKER.

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President, Dean, Registrar, and all Heads of Departments.

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DAISY SCHLUNTZ, O. L. BRINKER, CLAUDE E. THURSTON, PAUL C. HEUBACH.

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PAUL C. HEUBACH.

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MECKLING.

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H. L. SONNENBERG, R. A. UNDERHILL, H. J. ALCOCK, S. R. PETERSON, C. W.
DORTCH, JOHN O. WALLER, C. V. TEMPLE.

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O. L. BRINKER, MARGUERITE APLINGTON, F. A. MEIER, H. D. SCHWARTZ, STANLEY
E. WALKER, C. O. TRUBEY, C. W. PRALL.

PUBLICATIONS

H. L. SONNENBERG, JOHN O. WALLER, LILAH SCHLOTTHAUER, R. L. COLLINS.

VISUAL AIDS

E. S. BOOTH, BERNICE SEARLE, AGNES SORENSON, EVELYNNE WRIGHT.

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Associated Students, Graduate Manager	F. A. MEIER
<i>The Collegian</i>	JOHN O. WALLER
<i>The Mountain Ash</i>	C. V. TEMPLE
Nominating Committee, Associated Students	H. L. SONNENBERG
Religious-Cultural Activities Committee	S. R. PETERSON
Social Activities Committee	DAISY SCHLUNTZ, GENEVIEVE WEAVER
Sabbath School	EUGENE WINTER
Missionary Volunteers	W. I. SMITH
Chiquita Sola	BEATRICE EMERY
Aurora Duxes	R. A. UNDERHILL
Alpha Kappa Sigma	C. W. PRALL

Industrial Superintendents

<i>Superintendent, Industrial Departments</i>	A. W. SPOO
<i>Bindery</i>	W. E. CUSHMAN
<i>Construction</i>	STANLEY SARGEANT
<i>Dairy</i>	A. O. HIEBERT
<i>Farm</i>	E. O. BECKER
<i>Food Service</i>	CLINTON WALL
<i>Garage</i>	B. H. SIMMONS
<i>Heat and Light</i>	LELAND PARKER
<i>Laundry</i>	MRS. ELMER WHITEHOUSE
<i>Press</i>	R. L. COLLINS
<i>Store</i>	(Acting) KATHLEEN KEEN-ZOLBER

PART II

The College and Its Aims

Walla Walla College is a four-year liberal arts college fully accredited with the *University of Washington*, the *State College of Washington*, the *Northwest Association of Secondary and Higher Schools*, and the *Association of Seventh-day Adventist Colleges and Secondary Schools*. It is also accredited as a four-year teacher training institution by the *Washington State Board of Education*.

Walla Walla College is operated by the Seventh-day Adventist denomination, primarily as a center of higher education for its youth in the Pacific Northwest. Seventh-day Adventists accept without reservation the teachings of the Bible, among which they consider basic the immutability of the law of God, the original perfection of the universe, the fall of man, the plan of salvation, the imminent second coming of Christ, and the existence of the redeemed throughout eternity.

In harmony with these doctrines, Walla Walla College recognizes that, "True education means more than the pursual of a certain course of study. It means more than the preparation of 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 bring into actuality this conception of education, Walla Walla College declares its specific aims to be:

1. To present the ideals and principles of Christianity in such a way as to promote the development of a consistent Christian life characterized by loyalty to God and service to humanity.
2. To train for leadership in church and community in harmony with the distinctive ideals and world program of the Seventh-day Adventist denomination.
3. To develop character distinguished by power of will and ability of self-control, bringing every motive and desire into conformity to the eternal principles of right established by God and respected by the most enlightened elements of humanity.
4. To provide a broad basis for true culture which will permit proper discrimination as to the values of life, encourage devotion to noble ideals and practices, and lead to a worthy use of leisure.

5. To guide in the appropriation of the accumulated knowledge of the ages, in the stimulation of the power of independent reasoning, and in the acquisition of the ability to inspire others to a greater passion for wisdom and truth.
6. To inspire intelligent and sincere love for our country and its fundamental principles, while at the same time emphasizing the brotherhood of man, thus providing a preparation for judicious participation in the privileges and responsibilities of citizenship.
7. To encourage proper evaluation of the place of the individual in modern society, of his relationship to the social and economic order, and of his attitude toward an ever-changing civilization.
8. To facilitate the acquisition and maintenance of a high standard of bodily health, thus giving the individual genuine satisfaction in life and enabling the mind and spirit to make valuable contributions to our contemporary world.
9. To stimulate participation in practical vocational activities which will lead to an appreciation of the dignity of labor, furnish a definite conception of the abilities and traits requisite for success in the various vocations, and impart a proficiency adequate to provide employment in a productive and self-respecting occupation.

Historical and Descriptive Sketch

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

The College buildings occupy an exceptionally beautiful site in the center of an elevated campus comprising about ten acres and commanding a pleasing view of the Blue Mountains to the east and south. This tract, surrounded by the town of College Place, is situated in the celebrated Walla Walla valley. The climate is mild and healthful.

About two and one-half miles to the northeast is Walla Walla, Washington, a city of about twenty-five thousand inhabitants. Two railways enter Walla Walla: the Union Pacific and the Northern Pacific. An hourly bus service connects College Place with Walla Walla. In addition, the Greyhound Bus Lines stop at the College campus.

BUILDINGS AND EQUIPMENT

Administration Building

The Administration Building is a three-story brick structure 48 by 122 feet. In it, besides classrooms and physics laboratories, are the business and administrative offices.

Dormitories

Sittner Hall provides accommodations for 330 men and is modern in every respect. Besides student rooms there is a worship room seating 400, a recreation room, a spread room, an ample parlor and other conveniences:

Helen Conard Hall, a modern three-story brick dormitory, is the home of the young women. This building, 42 by 224 feet, offers every convenience for 138 women. Hot and cold running water in every room, a parlor with fireplace, and "Rainbow Room" make the dormitory life attractive. The first floor contains a modern dining room, kitchen, refrigeration plant together with a banquet room and the dormitory worship room.

Beginning in the summer of 1953, a new wing will be added to Conard Hall. The addition will provide attractive new rooms, assistant dean's quarters, a worship room done in church style, a recreation room, and will include many other features which will make dormitory life pleasurable and delightful.



HELLO WALK

Biology Building

The Biology Building consists of a large lecture hall, seven laboratory rooms, four teacher offices, ten graduate-student research rooms, a library and seminar room, two photographic dark rooms, a large stockroom, and a store room. 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 Blue Mountain Laboratory, located 35 miles east of the College in the Blue Mountains, and the Walla Walla College Biological Station at Anacortes, Washington.

Chemistry Building

A two-story, brick veneer building, located southwest of the quadrangle, houses the Chemistry Department. It contains four laboratories, four classrooms, three offices, two stockrooms, a library, seminar room, and research room.

Music Conservatory

The Johnson Memorial Conservatory and annex provide the Music Department with studios, practice rooms, and an auditorium for recital purposes. A growing record library is housed in the Conservatory. Regularly scheduled listening hours make these records accessible to interested students.

Home Economics Cottage

The Home Economics cottage and Loom House offer facilities for classrooms and laboratories. They contain modern equipment for students studying in this department.

Columbia Auditorium

Columbia Auditorium is a reinforced concrete gymnasium-auditorium, 80 by 128 feet in size. With a seating capacity of over 2,500 persons, and equipped with a splendid pipe organ, Columbia Auditorium serves the college community admirably as an auditorium. When used as a gymnasium, the large floor provides ample space for physical education activities, including games and roller skating, while retaining the galleries for use of spectators. There are also dressing rooms, showers, and a large stage.

Engineering

A building 26 by 186 feet houses the Engineering Department. It offers space for offices, classrooms, drawing rooms, and laboratories.

Clara E. Rogers Elementary School Building

The new Clara E. Rogers Elementary School building, of modern lines, has approximately 27,000 square feet of floor space. It contains nine classrooms, a large library, a curriculum laboratory, a craft room, a home economics room, a waiting room, a lounge for teachers, and an all-purpose room for such activities as band, orchestra or choir rehearsals. Offices are provided for the director and assistant director of the Rogers School.

Library

The College Library is a vital part of the educational program at Walla Walla College. The building is a spacious, sturdy, beautiful structure of reinforced concrete with brick veneer. Ample seating 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 scholarly material on microfilm and microcards. The College Library contains 42,000 volumes besides unbound magazines and pamphlets. Approximately three thousand books are added annually. Four hundred magazines and newspapers are received regularly.

Swimming Pool

Swimming facilities are provided in a 36 by 60 foot building, containing dressing rooms and a concrete pool. Water is supplied for the pool by the College artesian well. The water issues from the ground at a temperature of 63 degrees. In the winter the water is steam-heated.

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 housed in a building 25 by 110 feet.

Vocational Equipment

The vocational installations and equipment have been appointed by the College firstly, for educational purposes—for training young people in vocations by means of which they may become self-supporting missionaries either at home or abroad; and secondly, for the purpose of partial self-support while in college. Equipment has been provided for the mastery of the principles of baking, printing, book binding, dairying, refrigeration, laundering, woodworking and car-

penry, machining, general merchandising, auto mechanics, poultry raising, and farming.

The College farm now consists of some 287 acres. A portion of this is adjacent to the campus while a 212-acre tract of alfalfa, grain and pasture is about two miles west of the campus. Besides supplying the hay for the dairy, much of the fruit, vegetables and other farm produce for the cafeteria is supplied from the farm.

SPECIAL INFORMATION FOR VETERANS

Housing

In addition to the dormitories, the College operates 50 units of one- and two-bedroom apartments to which married veteran students and their families have occupancy priority. Unmarried veterans are invited to live in the regular dormitories.

World War II Veterans

Servicemen having unexpired eligibility for training under Public Law 346 and/or Public Law 16 should contact their Regional Veterans Administration Office to arrange for transfers to the Seattle Regional Office and Walla Walla College. A certificate of eligibility to Walla Walla College must be obtained from the Veterans Administration and presented to the Veterans Office at the College before enrollment under these benefits can be completed. Students whose attendance at Walla Walla College has been continuous except for summer session, or reasons acceptable to the Veterans Administration, may re-register as heretofore until their entitlement expires.

Korean War Veterans

Walla Walla College has been approved for training of Korean War Veterans under Public Law 550 or 894. Servicemen who have served in the Armed Forces on or after December 6, 1950, are eligible for training benefits under Public Law 550 and 894. To register under these benefits, the veteran must make application to the Veterans Administration and obtain a certificate of entitlement to Walla Walla College. And in applying for these certificates may be obtained at any Veterans Administration office or at the College Veterans Office.

Under this arrangement, the veteran pays all his school accounts in the same manner as a non-veteran. Upon establishing eligibility and proper certification to the School, a veteran will receive monthly allotment checks, direct from the Veterans Administration. The amounts of these checks vary with the class load and marital status.

The first check usually arrives about 60 days after eligibility has been established and monthly on attendance certification thereafter. Additional information may be obtained from any Veterans Administration office or the Veterans Office of the College.

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 1300 offers a training in missionary endeavor and church organization.

The Sabbath School develops leadership and teaching ability in college students who would develop their interests in its activities.

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, Sunshine, and Correspondence, are under the direction of this organization.

Prayer Bands

The prayer bands under student leadership encourage the prayer life of the student body. 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 of the student body.

Societies and Organizations

Student organizations based on residence include Aleph Gimel Ain for the young women of the College dormitories, Omicron Pi Sigma for the young men of the College dormitories, and the Chiquita Sola, Aurora Duxes, and Alpha Kappa Sigma for village students.

Various departments also sponsor student organizations to the special interests of their group. These organizations include the Theology Club, Gymkhana Club, Pegasus Club, International Relations Club, Beta Mu, Teachers of Tomorrow, Collegiate Nursing Club, Industrial Arts Club, Business Club, A Tempo Club, Science Club, Engineering Club, Biology Club, and the Pan Linguistic Club.

PART III

General Regulations

Government

In all matters pertaining to personal conduct, students are expected to behave as responsible citizens and members of a Christian community. Any student who becomes antagonistic to the spirit and methods of the institution, thereby severs his connection with the College. Every effort will be made to stimulate the student to honest, conscientious work, but the College is not willing to undertake the problem of governing students who are not in sympathy with its purposes.

General Regulations

Persons coming to College Place for the purpose of entering any department of the College are subject to its government from the time of their arrival; and whenever a student has entered the College, he is under its jurisdiction until his connection is formally terminated by graduation or otherwise.

Any regulation adopted by the Board or faculty and announced to the students shall have the same force as if in print.

Citizenship

The standing of a student in the school is based upon his scholastic attainments as well as upon his attitudes, general conduct, and decorum. The student's rating as a citizen in the College community is indicated at certain times during the year and is based upon definite items of attitude, conduct, and faculty judgment.

Residence

The Board of Managers, believing that it should have full control of those for whom it is held responsible, requires all unmarried students to board and room at the College. Students who must find some means of self-support may be permitted, on application, to make other arrangements for their accommodations. Applications are made on forms provided by the Board, and must be approved before these arrangements are completed. The faculty will refuse to matriculate students who fail to comply with these regulations. Students who have received permission to live in the village are subject to call into the school homes at any time.

Chapel

Each student is required to attend chapel three days a week. Lower division chapel convenes Monday and Wednesday, while upper division chapel meets on Tuesday and Thursday. Joint chapel is conducted Friday. For each unexcused absence exceeding two in a quarter the student must pay \$1.00.

Sabbath Observance

The seventh-day Sabbath is observed in Walla Walla College, and all students are expected to deport themselves in harmony with the day. The students' devotional service is held on Friday evening. The Sabbath School convenes at 9:30 o'clock Sabbath morning; the church service is held at 11 o'clock. All students are expected to attend these services.

Moral Conduct

Students must abstain from indecent or disorderly behavior, from profane and unbecoming language, from visiting billiard rooms or gambling places, from attending the theater, motion pictures, or any other entertainments not approved by the College, from indulgence in alcoholic beverages, from the use of tobacco in any form, from card playing and from having cards in their possession, from having or reading pernicious literature, and from improper associations.

Social Standards

Walla Walla College is a co-educational institution and as such recognizes the proper associations of its citizens. Attendance at evening programs and at other social functions is permitted in harmony with well defined standards as announced by the College.

Use of Vehicles

Unmarried students who do not reside with their parents should not bring their automobiles to the campus. The College administration recognizes that the use of an automobile frequently militates against a satisfactory school program. Failure to comply with the existing regulation pertaining to automobiles may result in the student's separation from the College.

Medical Examination and Service

At the time of entrance to the College each student is required to submit evidence of a standard physical examination or to have such examination under the direction of the College physician.

Miscellaneous

The College cannot be held responsible for the personal property of any student.

Each student will be required to pay for damage done by him to school property; if the damage is not reported within twenty-four hours, double the amount of replacement will be charged.

THE SCHOOL HOMES

The administration of the College believes that the purpose of the institution can be attained more successfully when students live in the school homes. Here amid comfortable, home-like influences, students may become efficient in the cultivation of 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, Christian courtesy, and ideals of association may be fixed. The value of such training is regarded by many as the best part of an education for life.

Daily association of earnest young people should develop strong Christian character in every student who desires to become useful. Attractive and homelike parlors are provided in each dormitory for group entertainments and for the general use of the students during leisure time.

Pledge

Students who enter the College homes are understood by that act to pledge themselves to conform cheerfully to all regulations printed or announced.

Study Hour

In order to provide an atmosphere of study, quietness is maintained during the evening study period. Permission must be secured from the dean for any necessary absence from the school homes during the study hours. Students are not expected to receive visitors or telephone calls during this time except in cases 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 homes, no one should leave the campus for any length of time without arranging with his dean. For campus leaves which involve absence from classes the student must present a properly filled-in request to the Academic Dean.

Students who find it necessary to be absent from the home after the retiring hour, should make previous arrangements with their dean for entrance. Any attempt to enter by other than the regular means will be considered a misdemeanor.

Callers

The dormitories are private homes. Persons who call upon members of the home family will show the same courtesies that they would if they were calling at any other private home. Young women may receive gentlemen callers in the parlors by permission from the Dean of Women.

Rooms

Students living in the homes are required to care for their own rooms, and are expected to observe habits of neatness and carefulness about the premises.

When a student leaves school his room should be neat and clean. Failure to do this will incur a charge of one dollar.

Every student is expected to bring his own bedding—four sheets, two pillow cases, a bedspread, a pillow, blankets or comforters—towels, dresser scarfs, curtains, a drinking glass, a laundry bag, and a cover for the study table. A bathrobe or housecoat, and slippers should be provided for use during study hours. All girls expecting to work in the kitchen or laundry should bring three white uniforms, made of light material.

Because of hazards of accident or fire, students are not permitted to possess firearms, candles, etc., in their rooms. Electrical appliances may be used only after being approved by the dean, and will be subject to a charge of \$1.00 each per period.

Radios and phonographs are not allowed in the dormitory rooms except by permission of the dormitory dean. Radios are provided in the dormitory parlors for the use of resident students.

Worship Attendance

Attendance at evening and morning worship, Sabbath School, and Sabbath morning services is expected. If the student is ill or for some good reason cannot attend these meetings, he should obtain permission from his dean; he will then be expected to remain quietly in his own room.

A student may be absent from morning worship three times each six-week period without giving excuse. Unexcused absences are subject to discipline.

Preparatory Students

Students of preparatory grades (9-12) are not received into the dormitories.

PART IV

Administration of the Curriculums

The College is open to all worthy persons of either sex who come for the purpose of doing earnest, faithful work. Every student who presents himself for admission to the College thereby pledges to observe all its regulations. When this pledge is broken, the student forfeits his membership with the institution.

FRESHMAN WEEK

An introductory period of four days known as Freshman Week is devoted to the induction of new students into college life. It is essential that new students be in attendance. Several tests are given during this period which serve as a reliable basis for advising and assisting students in planning their college programs.

Psychological Examination

This test is a measure to some extent of college aptitude and the results are of value in arranging the student's study program.

English Placement

All students entering as freshmen are required to take a preliminary examination in the principles of English usage and grammar. The examination requires evidence of the ability of the student to apply these principles in writing.

No charge is made for these tests if they are taken at the appointed time.

Mathematics Placement

All students taking freshman mathematics are required to take a mathematics placement test before enrolling in a class. The test requires a knowledge of the fundamental principles of elementary algebra and geometry.

The tests will be scheduled during Freshman Week. There is no charge if the test is taken at the appointed time.

Physical Examinations

A physical examination is required of all new students entering the College. The charge for this examination is included in the General Fee.

ADMISSION TO COLLEGE

Candidates for admission to the College should make formal application by filling out an application blank which is obtained by

writing the Registrar. Application credentials which include a transcript of credit, references, a photograph 1½ x 2 inches and a \$2.00 application fee (which is not returnable) should be sent to the Registrar of the College in ample time to be reviewed before the acceptance quota of the school is reached. Prospective students should inform themselves through school publications concerning the date set by the Admissions Committee when applications should be in. Failure to file credentials early may result in delayed acceptance, or unsatisfactory classifications.

Fifteen dollars (\$15.00) of the advance deposit described on page 136 must be paid by September 7 to make application for acceptance complete. This deposit also constitutes a room reservation for students planning to reside in one of the school homes.

Credentials which are accepted toward admission become the property of the College and are kept on permanent file.

A student who for any reason is permitted to register temporarily will not be permitted to remain in school longer than one quarter without presenting a transcript.

Entrance Requirements

The following credits must be included among the sixteen required for entrance. (Although students cannot meet the specific entrance requirements, college admission may be granted. However, students will not be admitted to the upper division until all entrance requirements have been completed.)

Bible, 3 units, or one unit is required for each year of attendance in a Seventh-day Adventist academy to the extent of three units.

English, 3 units.

Foreign language, 2 units. (Both units in the same language.)

†History, one unit.

*Mathematics, one or two units. (Geometry required.)

**Science, one unit.

Freshman

Admission to freshman standing may be obtained by one of the following methods:

By Certificate. A graduate of an accredited secondary school who has an average of C may qualify by furnishing satisfactory recommendations and official transcripts of credits.

†Two units of history are highly recommended for Engineering.

*Algebra and geometry are entrance requirements for Pre-medical, Pre-nursing, and Engineering courses.

**Physics and chemistry are highly recommended for Engineering.

By Examination. A graduate of an unaccredited school or an applicant who is not a graduate or who is unable to furnish transcript of credits may qualify for freshman standing by passing examinations. A fee of \$1.00 will be charged for each examination and \$2.50 for recording each unit of credit.

Provisional Admission. An applicant for admission who presents fifteen or sixteen acceptable units, and who is deficient in not more than two of the prescribed units, may be admitted provisionally; but these deficiencies must be made up before the student is given junior standing.

Late Registration

The fee for late registration is \$1.00 for the first day after the regular registration period, and \$1.00 additional for every day late thereafter to a maximum of \$5.00. No student will be permitted to register after the second week of any quarter except by special permission of the Dean and the instructors under whom he wishes to register.

Partial Course Load

Students who must earn part of their way through school should plan to carry a lighter scholastic load. The following schedule is recommended:

AMOUNT OF WEEKLY OUTSIDE WORK	WEEKLY COURSE LOAD
Under 20 hours	16 credits
From 20 to 24 hours	12-14 credits
From 24 to 30 hours	10-12 credits

Restricted Enrollment

If at the end of the first six weeks of any quarter a student fails to maintain an average of one-half honor credit for every hour of registration, he is given a probationary status. If at the end of the following quarter a student has failed to maintain this average, he will be asked to withdraw from the College for one or more quarters. He may be reinstated by the Dean.

During the time a student is on probation his extra-curricular activities will be limited.

Private Lessons

No student will be permitted to take or give instruction in or away from the College except by permission from the Committee on Academic Standards. Correspondence work will not be accredited to students who are in the College and who have the opportunity of taking the subjects there.

CLASS REGULATIONS

Enrollment

A student is enrolled for a course only on presentation of a class card from the registrar's office.

Class Attendance

The student is responsible for regular attendance at all sessions of classes in which he is enrolled. When a student's absences in a class equal one and a half times the number of meetings of the class per week, the student forfeits or jeopardizes his grade for the quarter. Absences are counted from the first day of the college term, not from the date of the student's personal registration. All work missed by absence must be made up to the satisfaction of the instructor.

Changes in Registration

Changes in registration, properly endorsed by the student's major professor and the instructor, may be made during the first week following registration days. No change in registration involving entrance into a new course will be permitted after the first week (seven days) following the beginning of instruction except by permission of the instructor and the Dean.

A charge of \$1.00 will be made after the first week for each change of registration not necessitated by the rules of the College.

Withdrawals

A student may withdraw from a course if he has justifiable reasons for doing so. During the first five weeks of any quarter a student may withdraw from a course and receive a W. If a student drops his entire program after the first five weeks of the quarter, he will receive a W in courses in which his work is satisfactory at the time of withdrawal, and a Wf if his work is unsatisfactory. If he drops individual courses after five weeks, he will receive a Wf for each withdrawal unless exception is granted by the Academic Dean. No withdrawal from a course will be accepted during the last two weeks of a quarter. Courses dropped without permission will be marked *F on the student's permanent record. Permission for withdrawal must be obtained from the instructor.

Course Load

The normal course load for all students is 16 quarter credits per week. No dormitory student is allowed to register for less than 10 credits of work without permission from the Academic Standards Committee or the Dean. No freshman will be allowed to carry extra work.

Sophomores, juniors and seniors may register for 18 quarter credits provided their average for the previous quater was B.

No student will be allowed to add to his load by giving or receiving instruction, except by permission of the Academic Standards Committee.

CLASS STANDING

Freshman Standing

A student is ranked as a freshman when he has satisfied the entrance requirements.

Sophomore Standing

A student is ranked as a sophomore who has satisfied all entrance requirements and has a total of 36 quarter credits and 36 honor points.

Junior Standing

A student is ranked as a junior who has a minimum of 84 quarter credits and 84 honor points and has made up all entrance deficiencies. The following classes of students who have been checked by the registrar are eligible for junior class membership:

1. Those who can finish a four-year college course by the end of the following school year.
2. Those who are graduating at the close of the next summer session.

Senior Standing

A student is ranked as a senior who has met all freshman and sophomore requirements, has at least 136 quarter credits and 136 honor points, and can finish a senior college course during the current school year. If not graduating he will register as a junior.

Graduate Study

The College is offering curriculums leading to the Master of Arts degree with a major in Zoology and a minor in Botany, and to the Master of Arts degree with a major in Education. For details see the respective departments, pages 53 and 76.

Special Students

A person who is at least twenty-one years of age who cannot fulfill the regular admission requirements for freshman standing, may be permitted to take certain courses for which the instructors consider him qualified. Special students are not eligible for a degree. They may ultimately become candidates for a degree, however, by completing the admission requirements of the College.

Auditors

A student may be admitted to a class as an auditor with the permission of the instructor whose class he desires to attend. No credit is allowed for audited work. Auditors must register with the Registrar and pay one-half tuition for the course.*

EXPLANATION OF CREDITS

One credit is given for a course meeting for one lecture or class discussion per week for one quarter. Work done in the laboratory is counted on the basis of one credit for three hours in the laboratory. Vocational work, or courses demanding no outside preparation, require a minimum of three hours of work for one credit.

Honor Points

Three honor points are given for each quarter credit of work of an A grade, two honor points for each quarter credit of B, and one honor point for each quarter credit of C. A grade of D gives no honor points, and F and Wf deduct one honor point for each credit. A student is permitted to repeat only courses in which a grade lower than C was earned. Grades earned in repeat courses are computed with the original grade in determining grade point averages. A student must be taking 15 quarter credits with a 2.5 average to be on the official honor roll.

EXAMINATIONS

Special examinations are given at a regular fee of \$1.00, payable in advance at the registrar's office. Application to receive consideration to take examination for credit in work for which credentials cannot be supplied must be made during the first quarter of the student's initial entrance to college. If permission is granted by the Academic Standards Committee, a recording fee of \$2.00 per credit hour is charged. No credit by examination will be given for material for which certain credit has been allowed on the secondary level.

SCHOLARSHIP STANDING

Reports of scholarship standing are made in duplicate to the student and his parents at the close of each quarter. These reports are made in accordance with the following system of marking:

A, superior; B, above average; C, average; D, below average; E, conditioned; F, failure; *F, unofficial withdrawal; I, incomplete; W,

* Except in Industrial Arts, in which case the charge is three-fourths tuition and the usual laboratory fees.

withdrawal in good standing; Wf, delinquent at time of withdrawal; Au, audit course; Pr, for some graduate courses, if satisfactory progress is being made and the courses cannot be completed in one quarter.

E may be given the student of below average scholarship who fails in examination or who has some other work incomplete. If the work is not completed during the following quarter, it becomes F. No grade above D may be recorded in the course in which the original grade was E. I is a temporary grade given to a student of average or better scholarship in the case of incomplete work or of absence from examination, because of illness or other justifiable reason. The student must request permission from the instructor and the Academic Dean to receive an I. Blanks for this purpose can be secured in the Dean's office. An I must be removed during the quarter following that in which it was incurred; otherwise it becomes E, and the final grade may not be raised above D at close of the next quarter.

Incompletes will not be given unless applications are submitted beforehand and approved by the teacher and the Academic Dean, with a definite time limit set for the work to be completed.

The same rule regarding incompletes applies to students who drop out of school as to students who continue in school.

Not more than one attempt will be allowed the student in which to remove an incomplete or a condition.

Students who have incompletes should adjust their course load the following quarter so that the work may be made up without jeopardizing the grades for that quarter.

If a student receives F in any course, it will be necessary for him to repeat the course in residence in order to receive credit for it, except by permission from the Academic Standards Committee.

Altering Grades

Grades once recorded by the Registrar may not be changed except by the student registering again and repeating the course, unless it is an error made by the instructor.

Transcripts

A student who wishes to send transcripts of his record to other institutions will be furnished the first copy without charge. A fee of \$1.00 will be charged for each transcript thereafter.

Credits are not accepted after a student has ceased residence in the college.

LOWER AND UPPER DIVISION COURSES

Course Numbers

Courses numbered 1-49 are of freshman level; 50-99, sophomore level; 100-149 junior level; 150-199 senior level; 200 and above, graduate level.

Upper division courses may not be taken until the preparatory work is completed, 84 quarter credits earned, and also the following lower division requirements met:

Religion	12 credits
Freshman English	9 credits
Physical Education and Health	6 credits

Uncompleted hyphenated courses are not counted toward the completion of any course or a degree.

Upper division students may receive upper division credit in a limited number of lower division courses. To receive such credit a student must have permission from his major professor; he must do special work under the direction of the instructor; he must earn a grade not lower than B; he must do the work assigned for upper division the year he is taking the course.

All requests for waivers of credit must be made during the first three quarters of the student's initial entrance to Walla Walla College.

Extension Work

The extension work is done by the Home Study Institute of Washington, D. C., which serves as the Extension Division of the Associated Colleges of Seventh-day Adventists. Full credit will be given for courses taken through the Institute.

Students enrolled in college who wish to apply college credits earned by extension on the requirements for a degree should obtain permission to do so from the Academic Standards Committee. Grades are due at least a month before graduation.

Transfer Students

An applicant who has attended another institution of collegiate rank must have forwarded to the Registrar of the College a transcript of advanced standing embodying a statement of honorable dismissal.

It is obligatory to submit at entrance records from all schools previously attended.

A student who cannot present a transcript of advanced standing may be admitted by examination.

Arrangements for examinations for advanced credit must be made before the end of the first quarter in which the student makes his initial entrance into college.

Transcripts of advanced standing are not evaluated finally until the student has been in residence at Walla Walla College one quarter and the quality of his work is determined.

A student transferring from a non-accredited college or university will be enrolled with conditional status, with tentative credit for such advanced standing as his transcripts may justify, as interpreted by the Dean and the Registrar or the Academic Standards Committee. If, after one quarter, the student maintains at least a C average in a normal program, he will be accepted as a regular student with full credit for such advanced standing as the evaluation of his transcript warrants. Failure to meet this standard will delay or prevent graduation.

No student who has been dismissed from another institution because of poor scholarship, or who is on probation from such institution, will be eligible for enrollment in the College until he can qualify for re-admission to the institution from which he has been dismissed.

Credit from Junior College

The maximum amount of credit allowed from a junior college is 108 credits.

Registration Regulations

Every student is required to register each quarter. Registration is for one quarter only.

The acceptance of entrance credentials, the completion of entrance tests, and the payment of fees constitute full admission to academic membership in the College.

Matriculation includes the filling out of information blanks, the selection of studies for the quarter, and the payment of the initial fee.

Physical Education Requirements

All students are required to enroll in Physical Education activity classes for the first six quarters of attendance or until three credits have been earned. Transfer students, who have not fulfilled these requirements with equivalent courses from the previous school attended, will be expected to enroll in Physical Education courses until the require-

ment is completed. Permission from the head of the Physical Education Department must be secured to take more than one activity course per quarter.

One quarter of the required six quarters of Physical Education must be in basic conditioning. Not more than three quarter credits of Seasonal Recreation may be used toward graduation, and will not be considered as part of the three quarter credits of Physical Education required.

A student may enroll in any activity class he wishes provided it is not filled. A student must enroll in at least one team activity course and one individual activity course such as Tennis, Badminton or Weight Lifting. If a student cannot pass a swimming test he will be required to take one quarter of Swimming. A student may take more than one quarter of a single activity provided he meets the above requirements.

PART V

Senior College Curriculums

GRADUATION

Degrees

The College offers courses leading to the following degrees:

Bachelor of Arts

Bachelor of Arts in Religion

Bachelor of Science

Bachelor of Science in Engineering

Bachelor of Music

Master of Arts

Candidates for graduation from any curriculum are required to file with the Registrar, not later than one week after the opening of the third quarter preceding graduation, a copy of their proposed schedules of courses for the three quarters preceding graduation.

Each senior shall, before registering for the second quarter of his senior year, file, in the form of a degree card, a formal application with the Registrar for his degree.

Applicants who are late in filing their applications cannot be assured of recommendations to the faculty.

A departmental comprehensive examination must be successfully written by each senior.

A degree student shall have the option of being held to the graduation requirements published in the catalogue under which he enters or for any year of attendance following, provided he does not discontinue his work at one time for longer than two quarters. Responsibility for fulfilling the requirements for graduation must be accepted by the student.

Major Study

Not later than the end of the *sophomore* year the student should select a major study in which at least 45 credits of work must be done to obtain a degree.

Not more than 60 quarter credits may be taken in one department toward the Bachelor of Arts degree, unless the excess includes electives beyond the 192 credit hours required for graduation. Immediately after selecting his major study, the student should consult the head of the department in which the major study is to be taken, for advice

concerning the choice of a minor study and appropriate electives. From 21 to 24 credits of a student's major study should be in upper division courses. No student may complete more than 27 credits of his major in one academic year.

Majors may be obtained in the following:

	Page		Page
Business Administration	59	Modern Languages	92
Chemistry	66	Music	95
Engineering	124	Physical Education*	108
English Literature	82	Physics	112
German	93	Religion	45
History	86	Secretarial Science	59
Home Economics	89	Spanish	92
Industrial Arts	129	Speech*	114
Mathematics	91	Zoology	52

Minor Study

At least 27 credits of work must be done in the minor study, three credits of which must be upper division. Minors are available in the following: Botany, Business Administration, Chemistry, Secondary Education, English, German, History, Home Economics, Industrial Arts, Journalism, Mathematics, Music, Physical Education, Physics, Religion, Secretarial Science, Spanish, Speech and Zoology.

A grade of D does not count on a major or a minor.**

Music Credit Allowed on a Degree Course

Not more than 9 credits of applied music may be allowed as elective without credit in theoretical music. For each additional credit of applied music to be used as elective credit there must be at least one credit in theoretical music.

A maximum of 3 credits on ensemble work may be used toward graduation from the general college curriculum.

Senior Class Membership

Candidates for graduation from the College must present a minimum of 60 credits in upper division courses.

All candidates for degrees must be members of the senior class. All credits, including correspondence work and incompletes incurred at the end of the winter quarter, must be filed in the registrar's office by the end of the first six weeks of the spring quarter. Students failing to meet this requirement may be asked to withdraw from the graduating class.

*Two approved minors are required.

**See exception to this in Engineering Department.

No senior may take prescribed freshman courses for credit toward the 192 credits required for graduation.

Residence Work

Candidates for degrees must spend their senior year, i.e., three quarters, in residence at the College, and earn a minimum of 36 credits. Other candidates for graduation must complete the senior year's work of at least 36 credits in residence.

A Second Bachelor's Degree

The College does not issue a second degree of the same kind, but a student who has a B. A. degree may continue his work and earn a B. S., B. A. in Religion or visa versa, or the two degrees may be granted at the same time provided a student has met the requirements of both degrees and has a total of 237 credits. But if one wishes to take a second degree after the first one has been conferred, he must complete 45 credits more and be in residence three additional quarters.

Vocational Credit

The vocational requirements for a Bachelor's degree may be met by presenting nine credits from: Industrial Arts, Home Economics, Secretarial Science, Commercial Lettering, one-half of the Library Science and Accounting courses. A minimum of six credits must be presented in one vocation.

If a student desires to secure a waiver of vocational credit on the basis of an extended experience in a vocation, application for such permission must be made during the student's initial year of college attendance.

Senior Students Transferring

A senior student transferring from another college must do at least nine credits of upper division work in his major subject in this college, and a minimum of three credits in his minor.

REQUIREMENTS FOR GRADUATION

Degrees

The degree of Bachelor of Arts, Bachelor of Arts in Religion, or Bachelor of Science, with curriculums in Biology, Chemistry, Indus-

trial Arts, Mathematics, Physical Education or Physics, is conferred upon students who have fulfilled the following conditions:

1. Complied with all entrance requirements. (See page 27).
2. Completed 192 quarter credits of college work as indicated under the various curriculums; with the exception of the B. A. in Religion gree which requires 210 quarter credits. At least 60 credits must be in upper division courses. The senior year's work of at least 36 credits must be done in residence.
3. Maintained a C average on credits applied toward graduation.
4. Earned at least 45 credits in a major study in one department and a minimum of 27 credits in an appropriate minor study. A minimum of 21 credits of the major study must be in upper division courses. No grade lower than C will be counted on a major or a minor.
5. Satisfied the following specific requirements:

	credits
†Religion	24
History (must be in one field)	9
*Education and Psychology	9
Language, Ancient or Modern	9-24
Freshman Composition	9
**Literature, Speech	9
Basic Science	
Elect Chemistry, Physics, Physiology, Biology, or Mathematics	12
Vocational	9
***Physical Education and Health	6

Students pursuing curriculums in Business, Secretarial Science, Home Economics, Industrial Arts, Engineering, and Nursing Education may be excused from foreign language, if they have met the entrance requirements of two units.

Bachelor of Science — Science or Mathematics Major

This outline is for science students completing a minimum of 90

†World Religions and Modern Denominations do not help satisfy the 24-hour minimum requirement.

*Principles of Education is required.

**May be a combination of 6 credits of Literature and 3 of Speech; or 6 of Speech and 3 of Literature; or 9 credits all Literature in either English or Foreign Language, or combination thereof.

***Medical Cadet Corps training (3 credits) is required of all incoming men who have not had it in an academy or in an official Medical Cadet Camp.

hours in combined science and mathematics. The elementary courses in Mathematics, Physics, Chemistry and Biology are required.

Bachelor of Science—Science or Mathematics Major

FIRST YEAR					
Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Religion	2	Religion	2	Religion	2
Freshman Comp.	3	Freshman Comp.	3	Freshman Comp.	3
Chemistry or Zoology	4	Chemistry or Zoology	4	Chemistry or Zoology	4
Mathematics	4	Mathematics	4	Mathematics	4
*Vocational or Language	3	*Vocational or Language	3	*Vocational or Language	3
Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$
	<hr/> 16 $\frac{1}{2}$		<hr/> 16 $\frac{1}{2}$		<hr/> 16 $\frac{1}{2}$

SECOND YEAR					
Religion	2	Religion	2	Religion	2
Gen. Physics	4	Gen. Physics	4	Gen. Physics	4
Mathematics or Elective	4-8	Mathematics or Elective	4-8	Mathematics or Elective	4-8
**Education	3	**Education	3	**Education	3
History	3	History	3	History	3
Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$
	<hr/> 16 $\frac{1}{2}$		<hr/> 16 $\frac{1}{2}$		<hr/> 16 $\frac{1}{2}$

THIRD YEAR					
Religion	2	Religion	2	Religion	2
Health Principles	3	Major or Minor	6-10	Major or Minor	6-10
Major or Minor	6-10	Electives	8	Electives	8
Electives	5				
	<hr/> 16		<hr/> 16		<hr/> 16

FOURTH YEAR					
Religion	2	Religion	2	Religion	2
Major or Minor	6-10	Major or Minor	6-10	Major or Minor	6-10
Electives	4-8	Electives	4-8	Electives	4-8
	<hr/> 16		<hr/> 16		<hr/> 16

*If the student has a language deficiency for college entrance, he should plan to meet his language requirement, and fit in vocation later.

**Students pursuing this curriculum are urged to plan their work so as to meet certification requirements.

PART VI

Pre-Technical Curriculum

PRE-MEDICAL

Prerequisite: At least 15 units of work in an accredited secondary school, which must include the following:

English, 3; History, 1; Algebra, 1; Geometry, 1; Language*, 2.

Most medical schools require a minimum grade point average of 1.5 computed separately for science and non-science with a total minimum of 192 quarter credits which normally include: Inorganic 12, Organic 9, Quantitative 3, Physics 12, Biology (or Zoology) 12, Embryology 3, Genetics** 2, English 9, Language 9, Religion 18.

PRE-DENTAL

The minimum requirement for admission to the study of dentistry is two years of college study. A total of 90-96 hours of work is required and should include the following: English 9, Biology 12, Physics 12, Inorganic Chemistry 12, Organic Chemistry 6-10. There is no language prerequisite.

LABORATORY TECHNICIANS

The minimum requirements are two years or 90 credits work in college. Required subjects are: Biology 18, with a minimum of 6 in Zoology, Inorganic Chemistry 12, Quantitative Analysis 4. The College of Medical Evangelists grants the Bachelor of Science degree to students completing the one-year laboratory technician's course, provided they have on admission 144 credits of college work which must include the following: English 9, Language 9-18, Government 3, Physics 12, Biology 22 (including Zoology 9, Mammalian Anatomy 3, Human Physiology 6, Microbiology 4), Chemistry 30 (including Inorganic 12, Quantitative 4½, Organic 9, Biochemistry 4½), and Religion 6 for each year of attendance.

PHYSICAL THERAPY

The minimum requirements are two years or 90 credits of College work, including Biology 9, Elective Science 20, Government 3, Composition 9, Religion 12.

X-RAY TECHNICIAN

One year or 45 credits of college work. Recommended subjects include Physics, Anatomy, Physiology and Chemistry.

*Both of the language units must be in the same language.

**Not required but medical schools highly recommend Genetics.

PRE-OPTOMETRY

One year of general college work can be taken without discount on the optometry course. In general it is the same as the first year pre-medical course.

PRE-VETERINARY AND PRE-PHARMACY

These courses are not offered but one year of college work can be taken here without discount on the regular course.

PRE-DIETETICS

Prerequisite: 16 units of work taken in an accredited school.

Freshman and Sophomore years:	Quarter credits
Religion	9
College English	9
Education	6-9
(preferably one of the following):	
Educational Psychology	
Methods of Teaching	
Prin. of Education	
Foods and Cookery	9
General Chemistry	12
Microbiology	6
Social sciences	12-16
(chosen from at least two of the following fields):	
Economics	
Psychology	
Sociology	
Physical Education	3
American History and U. S. Constitution	6

FIRST YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Religion	2	Religion	2	Religion	2
General Chemistry	4	General Chemistry	4	General Chemistry	4
Freshman English	3	Freshman English	3	Freshman English	3
Food Study	3	Food Study	3	Food Study	3
Economics	3	Economics	3	Economics	3
Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$
	<hr/> 15 $\frac{1}{2}$		<hr/> 15 $\frac{1}{2}$		<hr/> 15 $\frac{1}{2}$

SECOND YEAR

Religion	2	Religion	2	Religion	2
U. S. History	3	U. S. History	3	U. S. History	3
General Psychology	3	Educ. Psychology	3	Prin. of Education	3
Microbiology	3	Microbiology	3	Electives	8
Electives	5	Electives	5	Physical Education	$\frac{1}{2}$
Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$		
	<hr/> 16 $\frac{1}{2}$		<hr/> 16 $\frac{1}{2}$		<hr/> 16 $\frac{1}{2}$

PRE-NURSING

Prerequisite: See the prerequisites for college entrance. The minimum requirements are one year of college work. Recommended subjects: Religion, English, Nurse's Chemistry, Anatomy, Physiology and Health, Microbiology, History of Nursing, and Physical Education.

NOTE: Because of recent advances in nursing standards, most students interested in nursing are electing to take the Bachelor of Science with a curriculum in Nursing outlined on pages 118 and 119 of this bulletin. Write to Fredrick R. Hanson, Dean of the School of Nursing, College Place, Washington, for a bulletin of the School of Nursing.

PART VII

Departments of Instruction

EXPLANATION

This section contains a list of all courses of study offered in the College. The departments are arranged in alphabetical order after the School of Theology, with the exception of the School of Nursing and the departments of Engineering and Industrial Arts, which begin on page 117.

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 applicants except in case of seniors and graduate students.

The four-quarter plan has been adopted by Walla Walla College to render larger service and allow for a greater vocational program where students may remain out of school a quarter to earn their expenses. It is more flexible than the semester plan and adds 12 weeks of instruction to the regular year.

Courses bearing numbers from 1 to 49 inclusive are normally offered to freshmen; those from 50 to 99 are normally offered to sophomores; those from 100 to 199 to juniors and seniors; those from 200 and above for graduate students.

Two or three numbers connected with hyphens indicate a course which ordinarily carries credit only when pursued for the full time. Only upon the permission of the instructor and Academic Standards Committee may credit be obtained by a student for a single quarter of study in a hyphenated course.

The credit indicated in connection with each course is the "quarter credit" and one credit represents one hour of recitation a week for one quarter. The number of credits listed are for each quarter. Thus "Three credits; autumn, winter, spring; M. W. F., 11:10," means three credits each quarter, or a total of nine credits for the year, the class meeting Monday, Wednesday, Friday at the 11:10 a.m. period.

The descriptions of courses in each department include: (1) the number of the course as used in the College records; (2) the title of the course; (3) a brief statement of its subject matter and method; (4) the number of quarter credits given; (5) the quarter in which it is given (autumn, winter, spring); (6) the days and hour the class meets.

*Courses preceded by * are not given in 1953-'54.*

The School of Theology

Mr. Heubach, Mr. Rowland, Mr. Peterson, Mr. Alcock, Mr. Blair

Organization

The School of Theology is incorporated under the administration of the College, and the members of the School are subject to all the general regulations of the College. The academic year, periods of examinations, etc., run concurrently with those of the College, and all its facilities for study and manual work are at the disposal of the School.

Admission

The purpose of theological training requires that a careful selection of candidates for admittance be made not only on the basis of scholastic accomplishments, but also on the basis of spiritual qualities, social sympathies, and cultural refinement.

Application for admittance must be made to the Registrar.

The minimum requirements for college entrance must be completed before admission and a certificate or transcript of record from an accredited institution must be submitted.

Courses of Study

For general college students the following courses are recommended as fulfilling the Religion requirements:

(a) For freshmen who have had no Religion on the secondary level, and for elementary education: Biblical Backgrounds; for freshmen who present units in Religion on the secondary level: Life and Teachings of Jesus; for prenursing freshmen: Daniel and Revelation.

(b) For sophomores: Fundamentals of Christian Belief. Students who have taken Biblical Backgrounds during their freshman year may select Life and Teachings of Jesus for their sophomore year.

(c) For students on the junior level: Daniel and the Revelation, Hebrew Prophets, or Spirit of Prophecy.

(d) Senior students may select a suitable upper division Bible course, such as: 121, 122, 123; 134, 135, 136; 161, 162, 163; or 184, 185, 186. However, in selecting a Religion course for the senior year, the general college Religion requirement may not be fulfilled with Homiletics or any course which the School of Theology may wish to limit to ministerial students.

The School of Theology offers two different curriculums. The first requires 210 credits and leads to the degree of Bachelor of Arts in Religion; the second is a four-year course for Bible instructors which leads to a Bachelor of Arts degree. The Bible Instructor's curriculum is open to women students only.

Comprehensive Examinations

The graduates from the School of Theology are required to take a comprehensive examination upon completing work toward a degree in Religion.

Bachelor of Arts in Religion

The student is expected to do work amounting to 16 credit hours per quarter. Any student taking less than 10 credits will not be considered a member of the School of Theology. All work in Religion and Homiletics must be of at least C grade. Students must have obtained at least a C average before being admitted to senior standing. If at any time during his course the student's grades fall as low as .50 grade point average, he will be placed on probation. If during the quarter following he does not show improvement, he will be asked to drop his work in the School of Theology.

For graduation, 210 credits are required, which should include a minor. Students expecting to receive the Bachelor of Arts in Religion degree, must fulfill all graduation requirements as outlined on page 39. To meet teaching certification requirements it is strongly recommended that students pursue courses in Education as elective credit.

A minor in Religion consists of 30 credits, 12 of which must be upper division.

Curriculum for Bachelor of Arts in Religion

FIRST YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Life & Teachings	2	Life & Teachings	2	Life & Teachings	2
Greek I	4	Greek I	4	Greek I	4
Freshman Comp.	3	Freshman Comp.	3	Freshman Comp.	3
Essen. of Speech	2	Essen. of Speech	2	Essen. of Speech	2
Church Music	1	Church Music	1	Church Music	1
Basic Science	4	Basic Science	4	Basic Science	4
Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$
	<hr/> 16 $\frac{1}{2}$		<hr/> 16 $\frac{1}{2}$		<hr/> 16 $\frac{1}{2}$

SECOND YEAR

Fund. of Ch. Belief	2	Fund. of Ch. Belief	2	Fund. of Ch. Belief	2
Greek II	3	Greek II	3	Greek II	3
Hist. of Eur. Civ.	3	Hist. of Eur. Civ.	3	Hist. of Eur. Civ.	3
		Study Meth. & Mat.			
American Govt.	3	in Religion	2	*Health Principles	3
Physical Education	1½	Physical Education	1½	Physical Education	1½
Vocation	3	Vocation	3	Vocation	3
Electives	2	**Electives	3	Electives	2
	16½		16½		16½

THIRD YEAR

Daniel & Revelation	2	Daniel & Revelation	2	Daniel & Revelation	2
Hebrew Prophets	3	Hebrew Prophets	3	Hebrew Prophets	3
Church History	3	Church History	3	Church History	3
Homiletics	3	Homiletics	3	Homiletics	3
Spirit of Prophecy & Denom. History	2	Spirit of Prophecy & Denom. History	2	Spirit of Prophecy & Denom. History	2
Speech (upper div.)	3	Electives	3	Electives	3
	16		16		16

FOURTH YEAR

Systematic Theology	3	Systematic Theology	3	Systematic Theology	3
New. Test. Epistles	2	New. Test. Epistles	2	New. Test. Epistles	2
Evangelism	2	Evangelism	2	Evangelism	2
History (upper div.)	3	History (upper div.)	3	Pastoral Counseling	3
Electives	6	Seminar in Religion	1	Seminar in Religion	1
	16	Electives	5	Phil. of Science	2
			16	Electives	3
					16

SUMMER SCHOOL

Education	9
Elective	6

One summer session in addition to the four-year course will generally be necessary to complete the course. It is recommended that this be arranged for at the close of the sophomore year.

NOTES

1. In Education, to fulfill requirements, a sequence such as General Psychology, Educational Psychology, Principles of Education is suggested. Those who wish to add other courses in Education, with a view to teacher certification, are referred to page 75.

2. Electives are not required subjects in the degree course.

Bible Instructor's Curriculum

This course is arranged for young women planning to do Bible work as a life calling. On its completion the degree of Bachelor of Arts is awarded.

*Health Principles may be taken any quarter of the second year.

**Literature, 3 credits, must be included among electives.

Suggested Curriculum for Bible Instructors

(For Women Students Only)

FIRST YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Life and Teachings	2	Life and Teachings	2	Life and Teachings	2
Modern or Ancient Language	3-5	Modern or Ancient Language	3-5	Modern or Ancient Language	3-5
Freshman Comp.	3	Freshman Comp.	3	Freshman Comp.	3
History of European Civilization	3	History of European Civilization	3	History of European Civilization	3
Science	4	Science	4	Science	4
Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$
	<hr/> 15 $\frac{1}{2}$		<hr/> 15 $\frac{1}{2}$		<hr/> 15 $\frac{1}{2}$

SECOND YEAR

Fundamentals	2	Fundamentals	2	Fundamentals	2
Electives or Language	3	Electives or Language	3	Electives or Language	3
Essen. of Speech	2	Essen. of Speech	2	Essen. of Speech	2
Home Economics	3	Home Economics	3	Home Economics	3
Church Music	1	Church Music	1	Church Music	1
Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$
Education	3	Education	3	Health Principles	3
*Electives	2	*Electives	2	*Electives	2
	<hr/> 16 $\frac{1}{2}$		<hr/> 16 $\frac{1}{2}$		<hr/> 16 $\frac{1}{2}$

THIRD YEAR

Daniel & Revelation	2	Daniel & Revelation	2	Daniel & Revelation	2
Homiletics	3	Homiletics	3	Homiletics	3
Church History	3	Church History	3	Church History	3
Denom. History and Spirit of Prophecy	2	Denom. History and Spirit of Prophecy	2	Denom. History and Spirit of Prophecy	2
Hebrew Prophets	3	Hebrew Prophets	3	Hebrew Prophets	3
Related Subjects	3	Related Subjects	3	Education	3
	<hr/> 16		<hr/> 16		<hr/> 16

FOURTH YEAR

Systematic Theology	3	Systematic Theology	3	Systematic Theology	3
Evangelism	2	Evangelism	2	Evangelism	2
†Electives	11	Seminar in Religion	1	Seminar in Religion	1
		†Electives	10	Pastoral Counseling	3
	<hr/> 16		<hr/> 16	†Electives	7
					<hr/> 16

*Music, Education, History, and Modern Languages are of special value to the Bible instructor. Electives from these groups are recommended.

†Electives should be used toward a minor. Also students should plan to meet the nine-hour Literature-Speech requirement in their electives.

1, 2, 3. *Biblical Backgrounds.* This course is a Bible introduction course. Its aim is a fundamental knowledge of the contents and character of the books of the Bible. Beginning with a simple enumeration of Bible books and an introduction to methods and aims in Bible study, the course will present the background and circumstances of each book, and the persons through whom they were brought into existence. The groundwork will include a survey of the history of the Hebrew people from the beginning, stressing especially the work of the prophets, while outlining essential Hebrew laws and institutions and filling out the picture with selections from Hebrew songs and wisdom books. Archaeological discoveries are reviewed. Added to this as its logical conclusion, is the growth of the New Testament, from the life of the Saviour through the preaching of the Gospel by his followers. Two credits; autumn, winter, spring; T. Th., 1:00.

4, 5, 6. *Life and Teaching of Jesus.* A study of the life of Christ as the Master Teacher and the heaven-born teachings of the One whose divine wisdom and practical application of the truth made His lessons both forceful and impressive and gave new meaning to the surroundings of every-day life, the principles of the Kingdom of God and of the acceptance of Christ. Lectures and assignments together with a study of the books, *Desire of Ages*, *Christ's Object Lessons*, and *Thoughts from the Mount of Blessing*. Two credits; autumn, winter, spring; Sec. A, T. Th., 8:25; Sec. B, T. Th., 11:10; Sec. C, T. Th., 8:25; Sec. D, M. W., 10:15; Sec. E, T. Th., 10:15.

7-8-9. *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 it aims to create an interest in approaching the New Testament through the medium divinely selected to give the Message of Salvation to the world. Readings of selected portions, mainly from the Gospel of John, introduction to aids and methods, grammar study, beginnings of exegesis; assignments and workshop. Four credits; autumn, winter, spring; Sec. A, M.-F., 7:30; Sec. B, M.-F., 1:00.

11, 12-13. *Daniel and the Revelation.* This elementary course in the study of these two books is offered primarily for prenursing students. Study will be given to the setting of both prophecies in the history of the time in which they were written and also the prophecies relating to world history, showing their fulfillment and application. Two credits; autumn, winter, spring; T. Th., 8:25.

51, 52, 53. *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 comprehensive groundwork in the fundamental doctrines held by the Seventh-day Adventist denomination. Lectures, textbook assignments, and library work. Two credits; autumn, winter, spring; Sec. A, T. Th., 8:25; Sec. B, M. W., 10:15; Sec. C, T. Th., 11:10; Sec. D, T. Th., 7:30.

55. *Study Methods and Materials in Religion.* Includes instruction in how to prepare assignments and how to use important reference books with emphasis on the bibliography of religion. Two credits; winter; T. Th., 8:25.

61, 62, 63. *Greek II.* More extensive readings: I John, Revelation, complete; selected readings from the Gospels. The emphasis is on exegesis and interpretation, particularly with a view to usefulness for ministers and teachers. Considerable interest of the course will be given to an introduction to the cultural and religious backgrounds and environments of the language of the New Testament, in order to

make words and expressions live with the life out of which they were born. Problems and texts of special interest will be studied in class. Three credits; autumn, winter, spring; M. W. F., 8:25.

*91-92. *Bible Worker's Evangelism*. This course is offered especially for young women taking the Bible Instructor's Course. The art of personal evangelism will be studied, also the preparation of Bible studies and the work of the Bible instructor in connection with evangelistic efforts. The actual giving of Bible studies will be required as a field assignment in this class. Two credits; autumn, winter; T. Th., 11:10.

111, 112-113. *Daniel and the Revelation*. An advanced course in the study of these books, noting particularly their symbolism and the intimate ways in which they are related to all Old Testament prophecy. A more extensive work is done in prophecies relating to world history, showing their fulfillment and applications. Research work is required. Special emphasis is placed upon the messages which these books have for the church and for our own lives. A good knowledge of history is presupposed. Lectures, discussions, collateral reading and themes. Two credits; autumn, winter, spring; T. Th., 11:10.

121, 122, 123. *Spirit of Prophecy and Denominational History*. A careful review of the Gift of Prophecy in the remnant church. The various volumes of the writings of Mrs. E. G. White are studied systematically. The rise of the denomination during the last one hundred years is carefully traced. The School of Theology has a good supply of out-of-print volumes for use in research projects. A file of quotations is required. Two credits; autumn, winter, spring; Sec. A, T. Th., 7:30; Sec. B, T. Th., 8:25.

134, 135, 136. *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. Collateral reading, theme work. Three credits; autumn, winter, spring; Sec. A, M. W. F., 7:30; Sec. B, M. W. F., 11:10.

141-142-143. *Homiletics*. A study of the work of the preacher and his preaching. Biblical topics will be organized for presentation and outlines prepared. Students are assigned in small groups to various nearby churches to assist in Sabbath school and gain experience in performing ministerial work. Three credits; autumn, winter, spring; M. W. F., Sec. A, 8:25; Sec. B, 10:15.

151. *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. With this are included discussions of comparisons with and contrasts to the Christian faith, as well as present-day conditions which are of value in the study of missions. Three credits; autumn; M. W. F., 1:00.

152. *Modern Denominations*. This course deals with the cardinal teachings of a number of the religions of the world. Comparisons are made of the teachings relating to God, salvation, sin, and the future. Some of the religions studied are Adventism, Christian Science, Mormonism, Roman Catholicism, Russellism, Spiritualism, Buchmanism, Baha'i Faith, Psychiana, etc. Three credits; winter; M. W. F., 1:00.

*Not offered 1953-54.

153. *Archaeology and Manuscripts of the Bible.* A study of the service which archaeology has rendered to the Bible. A thorough review of the manuscripts that gave us the Word of God is conducted. The translations of the Bible are examined. Specific attention is focused on points significant for the minister and Bible instructor. Recent discoveries and recent work on manuscripts are reviewed. Three credits; spring; M. W. F., 1:00.

161, 162, 163. *Systematic Theology.* More extensive study of essential Christian teachings with emphasis upon Bible doctrines especially valuable to the Christian believer. The pillars of faith are reviewed. Subjects stressed are: attributes of God, the Trinity, sin, the law, the two natures of Christ, union with Christ, conversion, justification, sanctification, the Lord's supper, eschatology, the second advent, and the earth restored. During the winter quarter special studies and lectures on the Atonement and the Sanctuary will be given. Text book assignments, collateral reading, lectures and discussion. Three credits; autumn, winter, spring; M. W. F., 8:25.

174, 175, 176. *Advanced Life and Teachings.* An analysis is made of the teachings of Jesus. These teachings are studied in a mature consideration of Christ's theology in order to utilize and apply the practicalness of the Example. Much time is devoted to verifying the beliefs of the denomination. Textbook assignments, lecture material, reports, and collateral reading. Two credits; autumn, winter, spring; T. Th., 10:15.

181-182-183. *Evangelism.* Advanced study in the art of preaching, aiming at some proficiency in Bible exegesis and evangelism. Detailed attention will be given to the various phases of evangelistic work and the problems which confront an evangelist. Guidance will be given in methods of evangelistic advertising, the conducting of public efforts, and pastoral work. This course is definitely planned for young men who desire to make the gospel ministry their vocation. Two credits; autumn, winter, spring; M. W., 11:10.

184, 185, 186. *New Testament Epistles.* An exegetical study of the epistles of the New Testament, attention being given in each case to the time, circumstances, and the place of writing. Special prominence is given to the Thessalonian and the Corinthian letters and the books of Romans, Galatians, James, and Hebrews, stressing the fundamental gospel doctrines of these epistles. Such others of the New Testament books, or portions of them, which especially deal with fundamentals, will be studied. Lectures, library assignments, and theme work. Two credits; autumn, winter, spring; T. Th., 7:30.

192, 193. *Seminar in Religion.* A review of principle areas in the field of religion; the problems of internships; conference relationships; denominational organization and ministerial ethics; the problems of the young minister at home and abroad. Assigned topics for discussion. One credit; winter, spring; time arranged.

196. *Pastoral Counseling.* The techniques of counseling and the application of the principles of Christian psychotherapy. Special attention will be given to ministering to the spiritual needs of the sick, as well as to the general problems that arise in the pastor's work as a spiritual counselor. For prospective ministers and social workers. Three credits; spring; M. W. F., 10:15.

197-198-199. *Methods of Bible Teaching.* A study of the principles of Bible instruction, particularly in teaching as applied to Bible subjects as usually given in the preparatory curriculum. This course is essential for students who wish to obtain denominational teacher's certification in Bible subjects. One credit; autumn, winter, spring; time to be arranged.

ART

Mr. Temple

11, 12, 13; 111, 112, 113. *Commercial Art*. Our modern need to "Tell and Sell" is the study of illustration and production planning for such subjects as advertisements, book pages, posters and displays. One credit; autumn, winter, spring; M., 2:00-5:00.

21, 22, 23; 121, 122, 123. *Lettering*. Learning to make the alphabet with pen or brush. Certain basic principles of proportion and design serve as a foundation upon which great variety may be built. One credit; autumn, winter, spring; W., 2:00-5:00.

31, 32, 33; 131, 132, 133. *Drawing*. A representational type of drawing fundamental to all the visual arts, experienced in the pictorial forms of still life, landscape, and portraiture is a valuable basis for any further art study as well as a satisfying end in itself. One credit; autumn, winter, spring; W., 2:00-5:00.

41, 42, 43; 141, 142, 143. *Painting*. To develop and promote the aesthetic enjoyment and relaxation which are found in painting, whether the media be pastel, water color, or oil. One credit; autumn, winter, spring; Th., 2:00-5:00.

61-62-63. *Design I*. Practice in the creative use of line, color, and form including the use of natural, abstract, and historic motifs. The hand portrays what the eye sees by sketching, rendering, modeling, and sculpturing. Three credits; autumn, winter, spring; M. W., 10:15; lab., T., 2:00-5:00.

BIOLOGICAL SCIENCES

Mr. Booth, Mr. Ashley, Mr. Underhill, Miss Emery

The department of Biological Sciences offers work in zoology and botany. Work is conducted on the main campus at College Place and at the Biological Station at Anacortes, Washington. In addition to the regular courses on the two campuses mentioned, work may be taken in the Field School of Biology, which travels to various parts of North America.

*Graduate work toward the degree of Master of Arts is offered on the main campus at College Place, the Biological Station, and at the College of Medical Evangelists and its auxiliaries, the main campus of which is located at Loma Linda, California.

Students desiring the usual major in zoology may carry on all their work on the campus at College Place and at the Biological Station. Those interested in the medical aspects of zoology and botany may spend one-half the residence time (and additional time working on research) at the College of Medical Evangelists and its auxiliary schools. At least one quarter must be spent in residence at College Place.

*For more detailed information, see the Bulletin of Graduate School of Biological Sciences and Education.

Degree of Master of Arts

Entrance Requirements: An acceptable score on the Graduate Record examination; a B average must have been earned in the last 15 credits of the major field in the undergraduate work; this must include all the work toward the major taken in the senior year. If the applicant's average is less than B he will be admitted only on probation. He must maintain a B average during the first quarter of graduate residence before he will be given graduate standing. If he fails to maintain this grade average, he must discontinue his work.

General Requirements:

1. Three quarters in residence, one of which must be taken at the Biological Station.
2. A thesis with a maximum of 9 credits and a minimum of 5 credits.
3. A grade average of B maintained throughout the graduate residence. No credit will be allowed for courses numbered below 200 in which a grade of C is received; not more than 9 credits will be allowed in which a grade of C is earned.
4. A reading knowledge of French, German, or Spanish.
5. The final examination may be oral, written, or both.
6. Not more than 9 credits may be transferred from another school.
7. A minimum of 12 credits chosen from courses numbered 200 or above; the remainder must be chosen from courses numbered from 150 to 199.
8. The graduate program is to be approved by the graduate committee set for the candidate sometime during his first quarter in residence; this committee will include the major professor, the minor professor, the head of the Department of Biological Sciences and one member from another department.
9. A maximum of six years is allowed to complete the requirements for the degree of Master of Arts.

Specific requirements in the major:

1. 24 credits beyond the undergraduate major in biology or zoology (the undergraduate major must be equivalent to that offered at Walla Walla College).
2. A minimum of 3 credits in each of the following branches of Zoology (including upper division courses in the undergraduate major): Embryology, Morphology, Parasitology, Genetics, Evolution (including Paleontology), Invertebrates, Entomology, Vertebrates, Seminar.
3. A scientific background of at least 18 credits in Chemistry, Mathematics, or Physics must have accompanied the undergraduate major in Zoology.
4. Minor: 12 credits, provided the undergraduate minor was in the same field.
 - (a) Minor in Botany: A total of not less than 26 credits upper division, of which at least 12 are taken during graduate residence. These must include courses 106, 164-165.

(b) Minor in Chemistry: A total of not less than 18 credits upper division, of which at least 12 are taken during graduate residence. When the minor is Chemistry, the candidate must elect the following courses in Botany in addition to all other requirements: 106, 164-165.

Degree of Bachelor of Arts and Bachelor of Science

Requirements for a major in zoology:

- (1) A minimum of 45 credits, 25 of which must be upper division;
- (2) Courses 1-2-3, 157, 158, 159, 161-162-163, 193, 194-195.
- (3) Course 15-16 (Elementary Botany) is required as a cognate course.
- (4) Minor fields should be in botany, chemistry, physics, or mathematics. Special permission must be obtained from the major professor for a minor in any other field. (Mathematics should be elected in the freshman year; physics in the sophomore year; chemistry in either freshman or sophomore year.)

Requirements for a minor in zoology:

- (1) A minimum of 27 credits, 12 of which must be upper division;
- (2) Courses 1-2-3 are required of all minors;
- (3) Courses 157, 158, 159, 193, 194-195 are highly recommended.

Requirements for a minor in botany:

- (1) A minimum of 27 credits, 12 of which must be upper division;
- (2) Courses 15-16, 106, 164-165.
- (3) Courses 157, 158, 159, 193, 194-195 are highly recommended.

1-2-3. *Elementary Zoology*. A study of the principles of zoology including anatomy, physiology, cytology, histology, genetics, and embryology. A general survey of the entire animal kingdom from the protozoa to the vertebrates. Three hours attendance, three hours laboratory. Four credits; autumn, winter, spring; Sec. A, M. W. F., 7:30; Sec. B, M. W. F., 8:25.

*4. *Survey of Zoology*. A general survey of the animal kingdom emphasizing the principles of biology, and the outdoor methods for the study of animals. Three hours attendance, three hours laboratory; four credits; autumn; M. W. F., 10:15. (Restricted to students working for the General Certificate.)

5. *Microbiology*. The nature of bacteria and disease-producing organisms with their life habits and methods of reproduction. The relation of these organisms to disease in the human body. Four hours attendance, three hours laboratory. Five credits; autumn; M.-Th., 10:15.

15-16. *Elementary Botany*. A general survey of the plant kingdom with emphasis on morphology, life histories, and development. Three hours attendance, three hours laboratory. Four credits; winter, spring; M. W. F., 10:15.

*19. *Survey of Botany*. A general survey of the plant kingdom emphasizing the principles of biology, and outdoor methods for the study of plants. Three hours attendance, three hours laboratory; four credits; spring; M. W. F., 10:15. (Restricted to students working for the General Certificate.)

*Not offered 1953-54.

52-53. *Anatomy, Physiology, and Health*. This course is designed for those who will complete their nursing curriculum at Portland. A general survey of human anatomy and physiology. Health Principles will be integrated in this course. Five hours attendance, three hours laboratory. Six credits; winter, spring; M.-F., 10:15.

101. *Vertebrate Embryology*. A detailed study of the embryology of the frog, chick, and pig, with emphasis on their relation to human embryology. Prerequisite: 1-2-3. Two hours attendance, six hours laboratory. Four credits; autumn; T. Th., 7:30.

102-103 *Comparative Vertebrate Anatomy*. A detailed study of the comparative anatomy of fishes, amphibians, reptiles, birds and mammals. Prerequisite: 1-2-3. Two hours attendance, six hours laboratory. Four credits; winter, spring; T. Th., 7:30.

*106. *Systematic Botany*. Principles of classification of plants with emphasis on the spermatophytes. Prerequisite: 15-16. Two hours attendance, eight hours laboratory. Four credits; spring; T. Th., 10:15.

*151. *Mammalogy*. A systematic study of mammals with emphasis on taxonomy and geographical distribution. Prerequisite: 1-2-3. Two hours attendance, eight hours laboratory. Four credits; autumn, M. W., 8:25.

*153. *Ornithology*. A systematic study of amphibians, reptiles, and birds, with emphasis on taxonomy and geographical distribution. Prerequisite: 1-2-3. Two hours attendance, eight hours laboratory. Four credits; spring; T. Th., 8:25.

155. *General Entomology*. A study of insect morphology, ecology, and the general principles of classification. Prerequisite: 1-2-3. Two hours attendance, three hours laboratory. Three credits; winter; M. W., 11:10.

156. *Systematic Entomology*. A systematic study of insects. Prerequisite: 1-2-3. Two hours attendance, eight hours laboratory. Four credits; spring; M. W., 11:10.

157. *Paleontology*. A study of plant and animal fossils, with a survey of the principles of geology. Prerequisite: 1-2-3. Two or three credits; autumn; T. Th., 11:10.

158. *Genetics*. A study of the principles of inheritance in plants and animals, especially man. Prerequisite: 1-2-3 or 15-16. Two credits; winter; T. Th., 11:10.

159. *Philosophy of Science*. A study of origins of living things, of special creation as opposed to evolution, the Flood, glaciation, problems of species, and distribution of plants and animals. Two credits; spring; T. Th., 11:10.

161-162-163. *Seminar*. A study of modern trends in biology; of current biological literature; presentation of scientific papers; group discussion of biological problems. One hour attendance. One-half credit; autumn, winter, spring; W., 1:00.

164-165. *Morphology of Plants*. Detailed studies of the type forms of the main plant groups. Autumn quarter: Thallophytes and Bryophytes; winter quarter: Pteridophytes and Spermatophytes. Prerequisite: 15-16. Two hours attendance, six hours laboratory. Four credits; autumn, winter; T. Th., 10:15.

*Not offered 1953-1954.

166. *Sanitary Bacteriology*. Fundamental public health bacteriological procedures on foods, water, milk, blood, etc. Prerequisites: 5-6. Two hours attendance, two three-hour laboratories. Four credits; spring; T. Th., 11:10.

*169. *Fresh Water Biology*. A systematic study of the animals and plants found in fresh water lakes and streams. Field work includes trips to a number of lakes and streams. Prerequisite: 1-2-3, 15-16. Four credits; spring; T. Th., 10:15.

171. *Animal Microtechnique*. A course designed to cover the important methods of making microscope slides of animal tissues. Prerequisite: 1-2-3, course 102-103 is desirable. One hour attendance, six hours laboratory. Three credits; autumn; M., 1:00; laboratory arranged.

172. *Vertebrate Histology*. The microscopic anatomy of vertebrate cells, tissues and organs including reference to their functions. Prerequisite: 1-2-3. Two hours attendance, six hours laboratory. Four credits; winter; M. W., 1:00.

173. *Plant Microtechnique*. A course designed to cover the important methods of technique in making microscope slides of plant tissues. Prerequisite: 15-16. One hour attendance, six hours laboratory. Three credits; spring; M., 1:00; laboratory arranged.

175. *Field Ecology*. A study of the habitats of plants and animals, emphasizing the factors responsible for differences in habitats; given in connection with the Field School of Biology. Members of the school travel to various selected areas of North America where a wide variety of habitats may be found. Prerequisite: 1-2-3, and 15-16. Two or more credits.

177-178. *Parasitology*. A systematic study of the morphology, life cycle, and the medical aspects of the protozoan, anthropod, and worm parasites of the vertebrates with more emphasis on human parasitology. Prerequisite: 1-2-3. Two hours attendance, three hours laboratory. Three credits; autumn, winter; T. Th., 8:25.

181. *Marine Invertebrates*. A systematic study of the invertebrate animals of Puget Sound with a survey of marine invertebrates from other areas. A review of ecological zones of Puget Sound will be included in the laboratory work. Prerequisite: 1-2-3, or 4. Four credits; summer (WWC Biological Station).

182. *Ichthyology*. A systematic study of the fishes found in Puget Sound, with a survey of the fishes of other waters. Field work includes collecting of specimens. Prerequisite: 1-2-3. Four credits; summer (WWC Biological Station).

183. *Marine Botany*. A systematic study of plants found in Puget Sound, with a survey of marine plants from other areas. Prerequisite: courses 15-16. Four credits; summer (WWC Biological Station).

*186. *Medical Entomology*. A study of medically important insects and arachnids with methods of control. Practical field experience is stressed. Prerequisite: at least one of the following courses: 155, 156, 177-178. Two hours attendance; three hours laboratory. Three credits; spring; T. Th., 1:00.

191. *Forest Entomology*. A study of economically important forest insects with methods of control. Practical field experience is stressed. Prerequisite: 155. Two hours attendance, three hours laboratory. Three credits; autumn; M. W. F., 11:10.

*Not offered 1953-1954.

192. *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: 182. Four credits; summer (WWC Biological Station).

193. *History of Biology*. A survey of the history of biological work from the Greek period to the present. Two hours attendance. Two credits; spring; T. Th., 1:00.

194-195. *Methods in Research*. A study of the entire field 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 hour attendance. One credit; autumn, winter; M., 5:00.

*197. *Methods of Teaching Biology*. The basic principles of teaching Biology in the secondary school and the college. Two hours attendance, four hours laboratory. Three credits; winter; T. Th., 1:00.

199. *Special Problems*. Individual work to be carried on under the supervision of the instructor. Time and credit to be arranged.

201. *Research in Zoology*. Credit arranged for individual work carried out under supervision.

202. *Research in Botany*. Credit arranged for individual work carried out under supervision.

204-205-206. *Graduate Seminar*. Group discussion of timely topics in the fields of botany and zoology; students present scientific papers to the class. One hour attendance; one credit; autumn, winter, spring; M., 9:20.

207. *Genetics and Evolution*. A detailed study of the modern theories of evolution. Prerequisite: 158. Three credits; autumn; M. W. F., 11:10.

211. *Plant Ecology*. A study of plant communities in the Puget Sound area. Prerequisite: 106. Four credits, summer (WWC Biological Station).

229. *Parasites of Marine Animals*. A study of the parasites of both invertebrates and vertebrates of Puget Sound. Prerequisite: 177-178, 181,182. Two or more credits; summer (WWC Biological Station).

230. *Advanced Animal Parasitology*. A detailed study of the parasites of amphibians, reptiles, birds and mammals of the Pacific Northwest. Prerequisite: 151, 153, 177-178. Two or more credits; any quarter.

231. *Seminar in Physiology*. Two credits, any quarter. (College of Medical Evangelists).

232. *Seminar in Nutrition*. Two credits, any quarter. (College of Medical Evangelists).

233. *Seminar in Parasitology*. Prerequisite: 177-178, either 229 or 230. Two credits, any quarter. (School of Tropical and Preventive Medicine).

234. *Seminar in Medical Zoology*. Prerequisite: 177-178. Two credits, any quarter. (School of Tropical and Preventive Medicine).

235. *Thesis*. 5 to 9 hours credit.

WALLA WALLA COLLEGE BIOLOGICAL STATION

This is a branch of the Department of Biological Sciences of Walla Walla College, located 3 miles west of Anacortes, Washington, using the property of the Fidalgo Island Packing Company. Buildings include two dormitories with 25 rooms in each, two laboratory buildings 25x80 feet, several cabins, and the caretaker's home. During the first term of the summer school for 1953 the following courses will be offered from June 12 to July 17: 153, 169, 182, 201, 202, 204-205-206, 211, 229, 230. During the second term, July 17 to August 21, the following courses will be offered: 4, 106, 151, 181, 183, 192, 201, 202, 204-205-206, 229, 230. Equipment includes several motor boats, nets, seines, dredges, salt water aquaria, and much other equipment moved over from the main campus to the Biological Station just for the summer. Students should make application with the Registrar for admission. Please ask for the bulletin of the Biological Station for additional information, and for the application blank.

FIELD SCHOOL OF BIOLOGY

This is a traveling school offering courses in botany and zoology. Students camp in various areas of North America, traveling either by bus or private car, and study one or more of the courses listed above. Trips during the past have been as far north as Jasper Park, Alberta, and as far south as Mexico.

SCHOOL OF TROPICAL AND PREVENTIVE MEDICINE

This is primarily a graduate school for research in tropical diseases. The main campus is at Loma Linda, California, but there are tropical stations in several foreign countries. Courses will be offered from year to year in several of the tropical stations, as well as on the main campus in California. Students desiring to work in this school must spend at least one quarter on the main campus at Walla Walla College before being permitted to attend the School of Tropical and Preventive Medicine.

COLLEGE OF MEDICAL EVANGELISTS

Through arrangements made between Walla Walla College and the College of Medical Evangelists, it is possible for students interested in graduate work in physiology, anatomy, pathology, bacteriology and nutrition to spend one-half of the residence time carrying on

study and research at the College of Medical Evangelists, Loma Linda, California. This time is counted toward the advanced degree. For additional information, see the Bulletin of the Graduate School of Biological Sciences.

BUSINESS ADMINISTRATION SECRETARIAL SCIENCE

Mr. Mehling, Miss Walker, Mrs. Weaver

Requirements for the Bachelor of Arts and Bachelor of Science degrees with a major in Business Administration.

Note: Students desiring to enter B.A. 14 without one year credit in elementary bookkeeping must register for 14A.

LOWER DIVISION COURSES:

	Credits
<i>Principles of Economics.</i>	9
<i>Principles of Accounting.</i>	9
<i>Business Law.</i>	6
<i>Intermediate Accounting.</i>	9

UPPER DIVISION COURSES:

A total of 21 credits in courses numbered 100 or above including Cost Accounting 141-142-143 are required for the Bachelor of Arts degree. A total of 38 credits in courses numbered 100 or above, including 141-142-143, 181-182-183, are required for the Bachelor of Science with a curriculum in Business Administration.

Note: Typewriting is not a requirement for graduation but because of its practical necessity in a large proportion of the positions which are available after graduation, students of Business Administration are urged to take it before they graduate.

Note: Business Majors must also meet the specific requirements that pertain to all the departments for the Bachelor of Arts degree.

Curriculum for Major in Business Administration

FIRST YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Prin. of Accounting	3	Prin. of Accounting	3	Prin. of Accounting	3
Prin. of Economics	3	Prin. of Economics	3	Prin. of Economics	3
Freshman Comp.	3	Freshman Comp.	3	Freshman Comp.	3
Religion	2	Religion	2	Religion	2
History	3	History	3	History	3
Physical Education	½	Physical Education	½	Physical Education	½
Elective	1½	Elective	1½	Elective	1½
	—		—		—
	16		16		16

SECOND YEAR

Inter. Accounting	3	Inter. Accounting	3	Inter. Accounting	3
Business Law	2	Business Law	2	Business Law	2
Religion	2	Religion	2	Religion	2
Education	3	Education	3	Education	3
Science or Math.	4	Science or Math.	4	Science or Math.	4
Physical Education	1½	Physical Education	1½	Physical Education	1½
*Elective	1½	*Elective	1½	*Elective	1½
—	—	—	—	—	—
16		16		16	

THIRD YEAR

Cost Accounting	2	Cost Accounting	2	Cost Accounting	2
Marketing and Adv.	2	Marketing and Adv.	2	Marketing and Adv.	2
Business Management	3	Business Finance	3	Business Finance	3
Public Finance	2	Public Finance	2	Public Finance	2
Religion	2	Religion	2	Religion	2
**Minor or Electives	5	**Minor or Electives	5	**Minor or Electives	5
—	—	—	—	—	—
16		16		16	

FOURTH YEAR

Money and Banking	2	Money and Banking	2	Money and Banking	2
Tax Procedure	3	Accounting Problems	3	Accounting Problems	3
Statistics	2	Statistics	2	Auditing	3
Religion	2	Fund Accounting	3	Seminar	2
Minor or Electives	7	Religion	2	Religion	2
—	—	Minor or Electives	4	Minor or Electives	4
16		16		16	

Note: The preceding course outline for business majors is suggestive only, and need not be followed in detail.

Requirements for a minor in Business Administration:

LOWER DIVISION COURSES:	Credits
<i>Principles of Economics.</i>	9
<i>Principles of Accounting.</i>	9

UPPER DIVISION COURSES: (Elective) Choose 9 credits.

<i>Cost Accounting.</i>	6
<i>Marketing and Advertising.</i>	6
<i>Business Finance.</i>	6
<i>Money and Banking.</i>	6
<i>Public Finance.</i>	6
<i>Business Management.</i>	3

Requirements for the Bachelor of Arts degree with
a major in Secretarial Science:

*It is suggested that at least two hours of Office Machines be taken during the freshman and sophomore years. Machine Accounting may be taken during the junior year.

**The student may elect Health Principles in any quarter in the third year. He also should plan his course in order to meet the Literature-Speech requirement of 9 credits.

LOWER DIVISION COURSES:

	Credits
<i>Principles of Economics.</i>	9
<i>Secretarial Accounting.</i>	6
<i>Shorthand</i> (Above freshmen level)	9
<i>Typewriting.</i> (Above the freshman level.)	6
<i>Business Machines</i>	2

UPPER DIVISION COURSES:

Choose 24 credits including 1, 2, 3, and 4.

1. <i>Advanced Dictation.</i>	9
2. <i>Office Procedure.</i>	9
3. <i>Secretarial Practice.</i>	2
4. <i>Business English.</i>	2
5. <i>Business Correspondence.</i>	2
6. <i>Marketing and Advertising.</i>	6
7. <i>Money and Banking.</i>	6

Suggested Curriculum for Bachelor of Arts—Secretarial Science Major

FIRST YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Religion	2	Religion	2	Religion	2
Freshman Composition	3	Freshman Composition	3	Freshman Composition	3
*Shorthand I	5	*Shorthand I	5	*Shorthand I	5
†Typing I	2	†Typing I	2	Typing I	2
Gen. Psychology	3	Educ. Psychology	3	Prin. of Educ.	3
Physical Education	½	Physical Education	½	Physical Education	½
Business Machine	1	Business Machine	1	Elective	1
	16½		16½		16½

SECOND YEAR

Religion	2	Religion	2	Religion	2
Secretarial Acctg.	2	Secretarial Acctg.	2	Secretarial Acctg.	2
Adv. Shorthand	3	Adv. Shorthand	3	Adv. Shorthand	3
Adv. Typing	2	Adv. Typing	2	Adv. Typing	2
Prin. of Econ.	3	Prin. of Econ.	3	Prin. of Econ.	3
Physical Education	½	Physical Education	½	Physical Education	½
Elective	3½	Elective	3½	Elective	3½
	16		16		16

THIRD YEAR

Religion	2	Religion	2	Religion	2
History	3	History	3	History	3
Science	4	Science	4	Science	4
Office Procedure	3	Office Procedure	3	Office Procedure	3
**Elective	4	**Elective	4	**Elective	4
	16		16		16

*Students having one unit of Shorthand should enter this course the winter quarter.

**The student should plan to meet the requirements in Literature and Speech during his third year. Health Principles may be taken during the second or third year.

†Special Typing may be substituted by permission of the instructor. See course B.A. 11A.

Walla Walla College

FOURTH YEAR

Religion	2	Religion	2	Religion	2
Business English	2	Business Corresp.	2	Sec. Practice	2
Adv. Dictation	3	Adv. Dictation	3	Adv. Dictation	3
Business Elective	2-4	Business Elective	2-4	Business Elective	2-4
Elective	5-7	Elective	5-7	Elective	5-7
	—		—		—
	16		16		16

Note: One to three hours of Office Machines may be taken during the first two years. Machine Accounting may not be taken until the junior or senior year.

Requirements for a minor in Secretarial Science:

<i>Shorthand.</i> (Above Freshman level)	Credits
<i>Advanced Typing.</i>	9
<i>Office Procedure.</i>	6
	9

Medical Secretary's Curriculum

FIRST YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Religion	2	Religion	2	Religion	2
Freshman Composition	3	Freshman Composition	3	Freshman Composition	3
Shorthand I	5	Shorthand I	5	Shorthand I	5
Typing I	2	Typing I	2	Typing I	2
*Zoology or		*Zoology or		*Zoology or	
Nurse's Chem.	3-4	Nurse's Chem.	3-4	Nurse's Chem.	3-4
Physical Education	½	Physical Education	½	Physical Education	½
	—		—		—
	16½		16½		16½

SECOND YEAR

Religion	2	Religion	2	Religion	2
Adv. Shorthand	3	Adv. Shorthand	3	Adv. Shorthand	3
Adv. Typing	2	Adv. Typing	2	Adv. Typing	2
Prin. of Econ.	3	Prin. of Econ.	3	Prin. of Econ.	3
Secretarial Accounting	2	Secretarial Accounting	2	Secretarial Accounting	2
Gen. Psychology	3	Educ. Psychology	3	Prin. of Educ.	3
Office Machines	1	Office Machines	1	Physical Education	½
Physical Education	½	Physical Education	½	Elective	½
	—		—		—
	16½		16½		16

THIRD YEAR

Religion	2	Religion	2	Religion	2
Office Procedure	3	Office Procedure	3	Office Procedure	3
Microbiology	5	Anat., Phys. & Hlth.	6	Anat., Phys. & Hlth.	6
History of Nursing	4	Elective	5	Elective	5
Elective	2		—		—
	—		—		—
	16		16		16

*Students continuing with Nursing should take Nurse's Chemistry.

FOURTH YEAR

Religion	2	Religion	2	Religion	2
Business English	2	Bus. Correspondence	2	Secretarial Practice	2
Adv. Dictation	3	Adv. Dictation	3	Adv. Dictation	3
Parasitology	3	Parasitology	3	Medical Dictation	3
Elective	6	Elective	6	Elective	6
—	—	—	—	—	—
16		16		16	

1-2-3. *Principles of Economics.* General principles of economics and their application to our present industrial organization and social life. A study of the factors of production; organization of marketing and transportation; principles of money and banking; distribution of wealth; taxation; and problems of labor. Three credits; autumn, winter, spring; M. W. F., 11:10.

7-8-9. *Secretarial Accounting.* An accounting course designed to acquaint the student with basic accounting concepts. To develop the fundamental principles of accounting and apply these principles to the accounting narrative of transactions; opening accounts, journalizing, posting, balancing accounts and preparations of statements and schedules. (Open to Secretarial and non-departmental students). Two credits; autumn, winter, spring; T. Th., 8:25.

11-12-13. *Typewriting I.* Theory and practice of touch typing; frequency drills; rhythm drills; business letter forms; tabulating; manifolding; statement work; figures; speed practice. Minimum speed requirement for three credits: 40 words per minute. Three class periods per week; three laboratory periods per week. Two credits, autumn, winter, spring; M. W. F., 11:10.

11A-12A. *Special Typewriting I.* A refresher course for all students; designed especially to enable secretarial majors to meet the required entrance speed of 50 words per minute for advanced typewriting. Speed requirement: 50 words per minute. Prerequisite speed: 30 words per minute. One credit maximum; autumn, winter; T. Th., 11:10.

14-15-16. *Principles of Accounting.* Introduction to accounting; books of original entry; ledgers; statements of condition and of operations; controlling accounts; sole proprietorships and partnerships. Three credits; autumn, winter, spring; M. W. F., 7:30.

14A-15A-16A. *Principles of Accounting Laboratory.* A special laboratory course in accounting designed to provide a background of bookkeeping technique for beginning students in accounting. No credit; autumn, winter, spring; M. and/or T., 2:00-5:00.

21-22-23. *Shorthand I.* Theory of Gregg simplified shorthand; developing speed in reading, writing, and transcribing. Typing 11-12-13 must be taken concurrently with this course unless the student has had the equivalent. Students having one unit shorthand will enter this course the winter quarter. Three hours dictation practice each week; M. W. Th., 2:00-3:00. Speed requirement: 90-100 words per minute with satisfactory transcription. Five credits; autumn, winter, spring; Sec. A, M-F., 7:30; Sec. B, M-F., 8:25.

51-52-53. *Advanced Shorthand*. Advanced application of principles and phrases of Gregg shorthand; dictation and transcripts covering vocabularies of representative businesses; legal forms and civil service. Prerequisites: courses 21-22-23 or equivalent. Speed requirements: 120 words per minute with satisfactory transcription. Three credits; autumn, winter, spring; M. W. F., 8:25.

61-62-63. *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; T. Th., 8:25.

71-72-73. *Intermediate Accounting Theory*. Autumn quarter is devoted to a study of the construction, analysis and interpretation of the financial statements 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 14-15-16. Three credits; autumn, winter, spring; M. W. F., 8:25.

71A-72A-73A. *Intermediate Accounting Laboratory*. Designed to provide laboratory time for a more thorough application to accounting problems. No credit; autumn, winter, spring; T., 2:00-5:00.

77-78-79. *Advanced Typewriting*. A continuation of typewriting 11-12-13. Emphasis placed upon increase of speed, accuracy, and skill. Entrance requirements: student must establish a net speed of 50 words in three consecutive daily tests. These entrance tests will be given at the close of the second week in the autumn quarter. Speed requirements for three credits: 65 words per minute based upon international rules. Three class periods; three laboratory periods per week. Two credits; autumn, winter, spring; M. W. F., 10:15.

83. *Office Machines*. Instruction in computing, adding, and voice machines. One to three credits in any quarter; autumn, winter, spring; time arranged.

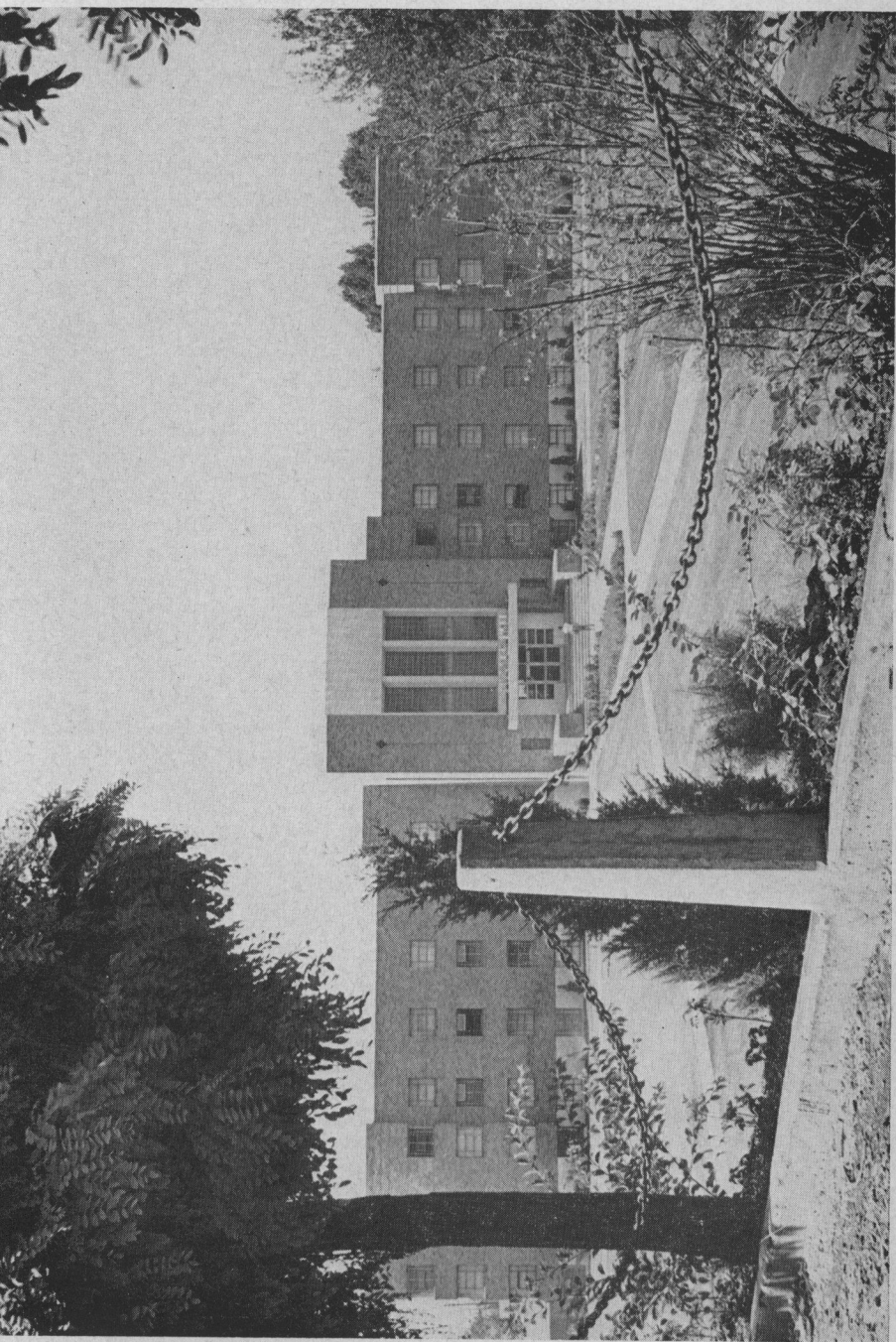
101, 102, 103. *Office Procedure*. Instruction in general office duties; letter writing; filing; duplicating; and business ethics. Three hours laboratory per week. Prerequisite: 51-52-53 and 77-78-79 or by special arrangement. Three credits; autumn, winter, spring; T. Th., 10:15; lab. T. 1:00-4:00.

131. *Business English*. Thorough study of spelling, punctuation, grammar, vocabulary building; sentence and paragraph structure. Two credits; autumn; T. Th., 11:10.

132. *Business Correspondence*. Modern practices in business correspondence; analysis and writing of all types of correspondence. Two credits; winter; T. Th., 11:10.

133. *Secretarial Practice*. Practical office experience. Six hours laboratory each week in campus offices. Two credits; time arranged.

141-142-143. *Cost Accounting*. Theory and practice in keeping cost records for manufacturing concerns. Job order, process, and standard cost systems. Prerequisite: 14-15-16. Two credits; autumn, winter, spring; T. Th., 7:30.



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144. *Machine Accounting.* Training in the operation of the National Book-keeping machines as applied to various accounting systems. May be taken any quarter. Prerequisite: 14-15-16 or 7-8-9. One credit; time arranged.

*146. *Accounting Systems.* A study of diversified accounting systems and their application. Prerequisite: 71-72-73. Three credits; spring; M. W. F., 7:30.

151, 152-153. *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; T. Th., 11:10.

*155-156-157. *Public Finance.* An analysis of governmental fiscal policies, as related to the assessment and collection of revenues for the support of Federal, State, County and Municipal governments, as well as a study of the use of exactions for the control and regulation of industry and commerce. Two credits; autumn, winter, spring; T. Th., 10:15.

161. *Business Management.* A study of the internal organization of the business enterprise; problems of planning, labor-management, incentives, etc. Three credits; autumn; M. W. F., 10:15.

162-163. *Business Finance.* A study of the fundamental principles of financial policy in the organization and management of corporate enterprises. Three credits; winter, spring; M. W. F., 10:15.

167-168-169. *Advanced Dictation.* Vocabulary study; advanced phrase writing, speed dictation and transcription; denominational dictation. Prerequisite: courses 51-52-53 or equivalent. Speed requirement: 140 words a minute with a satisfactory transcription. Three credits; autumn, winter, spring; M. W. F., 7:30.

171. *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. Prerequisite: 71-72-73 or consent. Three credits; autumn; M. W. F., 7:30.

*172, 173. *Accounting Problems.* Studies in equities and control of assets. Prerequisite: 71-72-73. Three credits; winter, spring; M. W. F., 7:30.

175. *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. Prerequisite: Registration or credit in 71-72-73. Three credits; winter; M. W. F., 7:30.

176. *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: 71-72-73 or consent. Three credits; spring; M. W. F., 7:30.

179. *Medical Dictation.* Medical vocabulary study. Dictation and transcription with special emphasis on medical terms. Prerequisite: courses 167-168, Anatomy, Physiology and Health, and Microbiology. May be taken concurrently with 169. Three credits; spring; time arranged.

*181-182-183. *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. Two credits; autumn, winter, spring; T. Th., 11:10.

191, 192. *Statistics*. Collection, analysis, and interpretation of statistical data used in business and economics. A thorough study of the various means of presenting statistical data in the construction of charts and graphs. A study of the arithmetic mean, median, and the mode as measures of central tendency. Two credits; autumn, winter; T. Th., 8:25.

*193. *Seminar*. Individual study of problems in the field of business or economics. Open only to majors in business administration. Two credits; spring; arranged.

197Typ. *Methods of Teaching Typing in the Secondary Schools*. This course is required of all majors obtaining certification. One credit; autumn; T. Th., 7:30.

197Sh. *Methods of Teaching Shorthand in the Secondary Schools*. This course is required of all majors in secretarial science obtaining certification. One credit; autumn; T. Th., 7:30.

*197Bk. *Methods of Teaching Bookkeeping in the Secondary Schools*. The course provides practice teaching on the secondary level. Instruction is given as to the various methods that may be used satisfactorily. One credit; arranged.

CHEMISTRY

Mr. Thurston, Mr. Shankel, Mr. Jones

Requirements for a major in Chemistry:

(a) Credits must be presented in each field of chemistry as follows:

	Credits
Inorganic chemistry	12
Organic chemistry	12
Analytical chemistry	12
Physical chemistry	8-12
Advanced chemistry	2-6

(b) A minimum of 24 upper division credits must be presented.

(c) Minor fields should be in mathematics or physics. A double minor is recommended. Special permission from the major professor must be obtained for any other minor.

Regardless of minors, the following are required:

Mathematics 21, 22, 23

Physics 51, 52, 53.

*Not offered 1953-1954.

Requirements for a minor in Chemistry:

- (a) Courses 21-22-23 and 111-112-113 are required.
- (b) A minimum of 27 hours including 3 hours of upper division courses.

1-2-3. *General Chemistry*. An introductory course in chemistry designed to meet the basic science requirements for graduation. Does not apply on a major or minor. Three credits; autumn, winter, spring; M. W. F., 8:25.

1A-2A-3A. *General Chemistry Laboratory*. This course accompanies Chemistry 1-2-3, and includes typical laboratory preparations and experiments. Three hours attendance; One credit; autumn, winter, spring; Sec. A, Sun., 9:00-12:00; Sec. B, Sun., 1:00-4:00; Sec. C, M., 2:00-5:00.

4-5-6. *Nurse's Chemistry*. A survey of inorganic, organic, and biochemistry to provide a background for the nursing course. Two credits; autumn, winter, spring; M. W., 7:30.

4A-5A-6A. *Nurse's Chemistry Laboratory*. A course to accompany Chemistry 4-5-6, including procedures, tests, and preparations in the various branches of chemistry. Three hours attendance. One credit; autumn, winter, spring; Sec. A, S., 9:00-12:00; Sec. B, S., 1:00-4:00; Sec. C, M., 2:00-5:00.

21-22-23. *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. Three hours attendance. Three credits; autumn, winter, spring; Sec. A, M. W. F., 10:15; Sec. B, M. W. F., 11:10.

21A-22A-23A. *Inorganic Chemistry Laboratory*. This course accompanies 21-22-23. It includes typical laboratory preparations and elementary experiments. During the third quarter metal analysis is begun. Three hours attendance. One credit autumn, winter, spring. Sec. A, Tues., 2:00-5:00; Sec. B, Wed., 2:00-5:00; Sec. C, Th., 2:00-5:00.

53. *Food Chemistry*. A study of physiological chemistry with emphasis on composition, function, and utilization of foods. Three hours attendance. Prerequisite: 1-2-3. Three credits; spring; M.W.F., 10:15.

53A. *Food Chemistry Laboratory*. To accompany 53. A study of the composition, properties and behaviour of various foods and related substances. One credit; spring; M., 2:00-5:00.

71, 72. *Elementary Quantitative Analysis*. An introductory course which outlines the theory and procedures for gravimetric and volumetric determination of various ions. Prerequisite: 21-22-23. Two credits; autumn, winter; T. Th., 10:15.

71A, 72A. *Elementary Quantitative Analysis Laboratory*. An application of theory in the determination of the composition of various unknowns; the determination of percentage composition for typical ions by precipitation methods. Four hours laboratory. One credit; autumn, winter; Sec. A, M., 1:00-5:00; Sec. B, W., 1:00-5:00.

73. *Qualitative Analysis*. A study of the reactions of cations and anions in aqueous solutions with practical laboratory applications. Prerequisite: 21-22-23. Two credits; spring; T. Th., 10:15.

73A. *Qualitative Laboratory*. An experimental course to accompany 73, which involves the analysis of cation and anion unknowns, as well as salt mixtures. Four hours laboratory. One credit; spring; M. or W. 1-5.

111-112-113. *Elementary Organic Chemistry*. A study of the preparations, reactions, and constitution of the aliphatic and aromatic compounds of carbon. Prerequisite: 21-22-23. Three hours attendance. Three credits; autumn, winter, spring; M. W. F., 11:10.

111A-112A-113A. *Experimental Organic Chemistry*. A laboratory course to accompany 111-112-113. The work includes the application of laboratory principles and procedures as well as the preparation of a large number of typical compounds. One three-hour period per week. One credit; autumn, winter, spring; Sec. A, T., 2:00-5:00; Sec. B, W., 2:00-5:00.

131, 132, 133. *Quantitative Analysis*. A study of typical gravimetric and volumetric methods of analysis. Industrial and instrumental analysis is considered in the spring quarter. Prerequisite: 71, 72. One lecture, one or two laboratories. Two or three credits; autumn, winter, spring; Lecture, arranged; Laboratory, T. and Th., 1:00-5:00.

151-152-153. *Physical Chemistry*. An introductory course in theoretical chemistry and electrochemistry. Prerequisite: Physics 51, 52, 53, Chemistry 72 and 113, and mathematics 21, 22, 23. Three credits; autumn, winter, spring; M. W. F., 8:25.

151A-152A-153A. *Practical Physical Chemistry*. This course provides a series of experiments covering the fundamental topics in theoretical chemistry. Experiments involve the various physical properties of matter and their constants. The latter part of the course deals with electrochemistry. Four hours laboratory; one credit; autumn, winter, spring; M., 1:00-5:00.

156. *Biochemistry for Science Students*. A study of the chemistry of foods, digestion and body metabolism. Prerequisite: 111-112-113. Three credits; spring; M. W. F.; 10:15.

156A. *Biochemistry Laboratory*. Experimental work on foods, digestive processes and their products to accompany 156. Three hours attendance. One credit; M., 1:00-5:00.

164. *Organic Synthesis*. The preparation of various aliphatic and aromatic compounds involving representative procedures employed in synthetic work. Three credits; autumn; conference to be arranged; S., 8:00-12:00, 1:00-5:00.

165. *Inorganic Synthesis*. The course includes the preparation of a variety of inorganic compounds to illustrate standard methods of procedure employed in inorganic preparations. One recitation and six to eight hours of laboratory per week. Three credits; winter; Sun., 8:00-12:00, 1:00-5:00.

166. *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; Sun., 8:00-12:00, 1:00-5:00.

171, 172, 173. *Seminar*. One hour attendance. One-half credit; autumn, winter, spring; time arranged.

181. *Methods in Research*. One hour attendance. One credit; autumn.

182 or 183. *Special Problems*. Four to ten hours laboratory work on assigned investigations. One to three hours credit. Winter or spring.

193. *History of Chemistry*. Two hours attendance. Two credits; spring; T. Th., 11:10.

197. *Methods in Teaching Chemistry*. One to three hours laboratory. One credit. Time arranged. (See Education Department.)

EDUCATION

Mr. Smith, Miss Searle, Miss Stoddard, Mr. Meier

Teacher Certification

The Teacher Education Department of Walla Walla College is accredited by the State of Washington. By action of the State Board of Education on July 1, 1949, a new type of certification was defined to replace eventually the Elementary and Secondary Certificates. Beginning September 1, 1951, a Provisional General Certificate, renewable yearly for a maximum period of four years, will be issued by the Office of the Superintendent of Public Instruction, upon recommendation of Walla Walla College, to the graduates who have met specific certification requirements. These requirements are ordinarily completed within the four-year period required for graduation. The Standard General Certificate is not issued until the candidate has completed at least one year of teaching and an additional year of college. However, the additional year of college may be taken in summer schools. This necessitates renewing the Provisional General Certificate yearly for the required period. It is recommended that the fifth year of study be completed during a regular college year whenever possible.

Admission

Students preparing for elementary teaching under the Standard General Certificate must enroll for Introduction to Education (Education 1, 2) at the beginning of the freshman year. This course will serve primarily as an orientation to the teaching profession.

No student will be admitted to the teacher-training program who fails to demonstrate those qualities commonly associated with teaching success.

Students should complete, as soon as possible, the General Education requirements which follow.

Teacher Education Outline

PHASE I. Four years of preservice training—192 quarter credits minimum.

1. General Education—61 quarter credits.

All teacher candidates must arrange to complete course work in the following areas, preferably in the first two years of college:

	Quarter credits
English (Freshman Composition 9, Speech 6, Literature 3)	18
Science (Biological and Physical)	12
Health and Physical Education	7
Music	6
Social Studies (U. S. History 9, Washington History and Government 3)	12
General Psychology	3
Art	3
Total general education requirement	61

2. Broad Areas of Concentration—60 quarter credits.

A. Five broad areas of concentration are provided from which the prospective teacher will select his field of preference:

- (1) Health and Physical Education.
- (2) Language Arts (Speech, Writing, Literature, Foreign Languages).
- (3) Social Studies (Religion, History, Sociology, Political Science and Geography).
- (4) Sciences and Mathematics (Biology and Physical Sciences, and Mathematics).
- (5) Fine and Applied Arts (Art, Music, Home Economics, Industrial Arts, Business Administration, and Secretarial Science).

B. Program Options.

- (1) *One broad area*, with no more than 36 quarter credits to be devoted to one subject-matter field in the given area. For example, one might take 36 quarter credits of Chemistry, 12 quarter credits of Physics, and 12 quarter credits of Mathematics to complete the required 60 credits.
- (2) *Two broad areas*, with 36 to 45 quarter credits in one and 24 to 15 quarter credits in the other. Under this option no more than 36 quarter credits may be devoted to one subject-matter field.
- (3) *Three broad areas*, of approximately 20 quarter credits in each. Under this option, experience in each area should be in no more than two subject-matter fields. Professionalized subject matter may be considered as one subject-matter field under this option.

3. Professional Education—40 quarter credits.

	Quarter credits
Introduction to Education, 1, 2	6
Developmental Psychology, 111, 112	6
Educational Evaluation and Guidance, 118	3
Curriculum Materials and Methods	10
Professional Laboratory Experiences	15

Supervised teaching and other professional laboratory experiences will be provided at both the elementary and secondary levels. Regular conferences between assistant teachers and their supervisors as well as group meetings of all teachers in training will be expected.

4. Electives.

Electives will be chosen with guidance to make a minimum total of 192 quarter credits. The number of electives possible in individual programs will vary with the combination of courses taken in satisfaction of general education, with concentration requirements as previously described, and with differences arising from satisfaction of interest area preferences.

PHASE II. Initial Teaching Experience.

The period of initial teaching experience is regarded as an integral part of the program of teacher education. It must comprise a minimum of one full school year, a maximum of four. During this time a Provisional General Certificate, renewable annually to cover the maximum period, will be issued.

PHASE III. Fifth Year of Teacher Education—45 quarter credits.

A fifth year of teacher education at the graduate level completes the requirements for the Standard General Certificate. This fifth year must begin in the first summer or regular school year after the initial teaching experience, preferably the latter. It must be completed within four years.

There are no required courses during this period. Further general education, specialization in areas of interest, or additional professional courses may be selected to meet the particular needs revealed during the initial teaching experience. To accomplish a double purpose in this fifth year, Walla Walla College has chosen to offer a Master of Arts degree in Education. By careful planning, it may be possible to meet the General Certificate requirements and also those of the Master of Arts degree in the fifth year of teacher education.

Suggested Curriculum Outline for the Provisional General Certificate

(Elementary Education Concentration)

FIRST YEAR		
Autumn Quarter	Credits	
†Biblical Backgrounds	2	
Freshman Composition	3	
Intro. to Education	3	
Teachers Speech	2	
School Arts	3	
School Management	3	
Physical Education	½	
<hr/>		
		16½
Winter Quarter	Credits	
†Biblical Backgrounds	2	
Freshman Composition	3	
Intro. to Education	3	
Teachers Speech	2	
Prin. of Math.	3	
Storytelling	1	
Teaching of Bible	2	
Physical Education	½	
<hr/>		
		16½
Spring Quarter	Credits	
†Biblical Backgrounds	2	
Freshman Composition	3	
Gen. Psychology	3	
Teachers Speech	2	
Health Principles	3	
Teaching of Nature	3	
Physical Education	½	
<hr/>		
		16½

SECOND YEAR		
Fundamentals	2	
Curr. Meth. & Mat.	2	
Directed Teaching I	1	
Fund. of Music	2	
Survey of Zoology	4	
Teach. of Reading	3	
Problems in P. E.	2	
<hr/>		
		16
Fundamentals	2	
Curr. Meth. & Mat.	2	
Directed Teaching I	1	
Music in Ele. Schools	2	
Survey of Physics	4	
Teach. of Social Studies	3	
Problems in P. E.	2	
<hr/>		
		16
Fundamentals	2	
Curr. Meth. & Mat.	2	
Directed Teaching I	1	
Music in Ele. Schools	2	
Survey of Botany	4	
Teach. of Language Arts	3	
Elective	2	
<hr/>		
		16

THIRD YEAR		
Spirit of Prophecy	2	
Develop. Psychology	3	
Directed Teaching II	2	
U. S. History	3	
*Elective	6	
<hr/>		
		16
Spirit of Prophecy	2	
Develop. Psychology	3	
Directed Teaching II	2	
U. S. History	3	
Child Literature	3	
Edu. Eval. & Guid.	3	
<hr/>		
		16
Spirit of Prophecy	2	
Directed Teaching II	2	
U. S. History	3	
Prin. of Geography	5	
*Elective	4	
<hr/>		
		16

FOURTH YEAR		
Daniel and Rev.	2	
Tech. of Sec. Subj.	2	
Directed Teaching III	2	
*Elective	10-14	
<hr/>		
		16
Daniel and Rev.	2	
Hist. of Northwest	3	
Directed Teaching III	2	
State Manual	1	
Sec. Sch. Curr.	2	
Elective	6-10	
<hr/>		
		16

*Choose elective courses for broad areas.

†Desirable for students taking Provisional General Certificate even though they graduated from an academy.

*Suggested Curriculum for Provisional General Certificate,**Option No. 1 or No. 2*

(With Mathematics and Science Concentration)

FIRST YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
†Biblical Backgrounds	2	†Biblical Backgrounds	2	†Biblical Backgrounds	2
Freshman Comp.	3	Freshman Comp.	3	Freshman Comp.	3
Intro. to Ed.	3	Intro. to Ed.	3	Gen. Psychology	3
Algebra	4	Trigonometry	4	Anal. Geometry	4
Teacher's Speech	2	Teacher's Speech	2	Teacher's Speech	2
Fund. of Music	2	Music in Ele. Sch.	2	Music in Ele. Sch.	2
Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$
	<hr/> 16 $\frac{1}{2}$		<hr/> 16 $\frac{1}{2}$		<hr/> 16 $\frac{1}{2}$

SECOND YEAR

Fund. of Chr. Belief	2	Fund. of Chr. Belief	2	Fund. of Chr. Belief	2
Curr. Meth. & Mat.	2	Curr. Meth. & Mat.	2	Curr. Meth. & Mat.	2
Gen. Physics	4	Gen. Physics	4	Gen. Physics	4
Ele. Zoology	4	Ele. Zoology	4	Ele. Zoology	4
Dir. Teaching I	1	Dir. Teaching I	1	Dir. Teaching I	1
Prob. in Ele. P.E.	2	Prob. in Ele. P.E.	2	Elective	2
Art	1	Art	1	Art	1
	<hr/> 16		<hr/> 16		<hr/> 16

THIRD YEAR

Religion	2	Religion	2	Religion	2
Dir. Teaching II	3	Devel. Psychology	3	Dir. Teaching II	3
History	3	History	3	History	3
Inorg. Chemistry	4	Inorg. Chemistry	4	Inorg. Chemistry	4
*Electives	4	*Electives	4	*Electives	4
	<hr/> 16		<hr/> 16		<hr/> 16

FOURTH YEAR

Religion	2	Religion	2	Religion	2
Tech. of Teaching	2	Ed. Eval. and Guid.	3	Sec. School Curr.	3
Literature	3			History of N.W.	3
Dir. Teaching III	2	Dir. Teaching III	2	Dir. Teaching III	2
*Electives	7	*Electives	9	*Electives	6
	<hr/> 16		<hr/> 16		<hr/> 16

*Elect additional courses: mathematics, physics, chemistry for concentrations and twenty-one additional upper division credits.

†Desirable for students taking Provisional General Certificate even though they graduated from an academy.

DENOMINATIONAL CERTIFICATION

Elementary Certification

Teacher's Elementary Certificates are issued by the Union Conference Departments of Education on the General Conference of Seventh-day Adventists.

Completion of the following specified requirements will entitle the student to the corresponding Elementary Certificate, provided the proper prerequisites have been taken.

I. *Two-year Elementary Certificate*

Issued to students having not less than 45 quarter credits of college work, including the following:

- 9-15 Religion
- 15-23 Education, to include:
 - 3-5 Principles of Christian Education
 - 6-9 Elementary Methods and Supervised Teaching
 - 3-5 School Management or Technique
 - 3-6 Practical and Fine Arts

II. *Three-year Elementary Certificate*

Issued to:

1. Students completing the requirements for the two or three-year elementary teacher-education curriculums, which must include the following:

- 9-15 Religion
- 3 Health Principles
- 30-36 Education, to include:
 - 3-5 Principles of Christian Education
 - 9-15 Elementary Methods and Supervised Teaching
 - 3-5 School Management or Technique
 - 6-8 Practical and Fine Arts

2. College graduates having 30 credits in Education, 9 of which must be in the elementary field.

III. *Five-year Elementary Certificate*

Issued to:

1. Students completing the four-year curriculum, with 39 quarter credits in Education, 30 credits of which shall be in the field of Elementary Education.
2. Students completing the four-year college curriculum with a major in Elementary Education.

Secondary Certificates

The General Conference Department of Education issues two certificates for teachers of secondary subjects—the Five-year Secondary Certificate and the Life Secondary Certificate.

The Five-Year Secondary Certificate is based on graduation from a college within the Association of Seventh-day Adventist Colleges and Secondary schools.

One requirement for the Five-year Secondary Certificate is 23 quarter credits in professional education to be done in the following courses, preferably in the order listed and including five quarter credits in Directed Teaching III:

	Credits
1. Introduction to Education, 1, or	3
2. Principles of Education, 59	3
3. General Psychology, 57, 63	3
4. Educational Psychology, 58, or	3
5. Developmental Psychology, 112	3
6. Secondary Education, 121	3
7. Educational Evaluation and Guidance, 118	3
8. Techniques in Secondary Subjects, 134	2
9. Directed Teaching III, 161-163	5-6
10. Optional: Special Methods in Major Field, Counseling and Guidance, History of Education, Audio-Visual Education, School Administration and Supervision	2-3

Only six quarter credits of Psychology may count toward certification.

In addition to graduation from a college of the Association and 23 quarter credits of professional education, the following are the special requirements for certification in the various fields:

Religion. 27 credits, including Daniel and Revelation or advanced Bible doctrines, in addition to 3 secondary units.

English. 27 credits, including rhetoric, advanced composition, and types of literature, in addition to 3 secondary units. (Library science or speech is evaluated on a fifty per cent basis. The maximum credit may not exceed 9 quarter credits for both or 5 credits each.)

History. 18 credits, including a survey of modern Europe and a national history, in addition to 2 secondary units.

Language. 18 credits, in addition to 2 secondary units in the same language.

Mathematics. 15 credits, in addition to 2 secondary units.

Music. Graduation from the conservatory course in music, or 45 quarter credits in a well-balanced curriculum of theory and practice.

Natural Science. 18 quarter credits in laboratory subjects, including 9 credits in the specified field in which certification is desired, in addition to the secondary content and 2 secondary units in that particular field.

Shorthand. 15 quarter credits, or the equivalent, secondary units to be evaluated on the basis of 2 hours per semester to a maximum of 4 hours.

Typewriting. 6 quarter credits, or the equivalent, with a minimum of 50 words a minute, net, in a certified 10-minute standard speed test. A signed statement verifying this record must accompany the application for certification.

Other Subjects. Agriculture, Art, Bookkeeping, Cooking, Health and Physical Education, Printing, Sewing, Speech, Woodworking: 12 quarter credits, or the equivalent in the specific field in which certification is sought, secondary units to be evaluated on the basis of 2 hours per semester, to a maximum of 4 hours.

Upon the recommendation of the Union Educational Secretary, the Life Secondary Certificate is issued only for the subject fields in which the holder of the Five-year Secondary Certificate has completed 27 months of successful teaching during the life of said certificate.

Master of Arts Degree with Education Major

Prerequisites:

1. Graduation from a college within the Association of Seventh-day Adventist Colleges and Secondary Schools, or its equivalent.
2. B average in the last 15 quarter credits in the major field and in the last 15 quarter credits in Education on the undergraduate level. If the applicant's average is less than B, he will be admitted on probation only. If he fails to maintain this standard of scholarship, he must discontinue his work.
3. An undergraduate minor in Education, to include the requirements for denominational secondary certification.
4. An acceptable score on the Graduate Record Examination may be required.

Requirements for the Master of Arts degree with Education Major:

1. Major field: Education (24-27 quarter credits on the graduate level)
2. Two areas of concentration with 10-12 credits each, chosen from courses numbered 150-199.
3. A minimum of three quarters in residence.
4. Not more than 9 quarter credits may be transferred from another school.

5. A grade average of B must be maintained throughout the graduate residence. No credit will be allowed for courses numbered below 200 in which a grade below B is received; not more than 9 credits with a grade of C will be allowed in courses numbered 200.
6. The graduate program to be completed within a maximum of 6 years.
7. The final examination may be written, oral, or both.
8. A thesis may or may not be required.

GENERAL COURSES IN EDUCATION AND PSYCHOLOGY

1, 2. *Introduction to Education.* A study of the underlying principles of Christian education, and an orientation course designed to acquaint the prospective teacher with the objectives, principles, philosophy, status, organization, and achievement of education in the United States and to deepen his interest in and understanding of children and youth of school age by observation of and participation in their character-forming group activities. Three credits; autumn, winter; M. W. F., 1:00.

57, 63. *General Psychology.* A survey course emphasizing the scientific bases of psychological investigation. It serves as a basis for further courses in education and an introduction to the field of psychology. Three credits; autumn, M. W. F., 11:10; spring, M. W. F., 1:00.

58. *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; winter, M. W. F., 11:10.

59. *Principles of Education.* A study of the underlying principles of Christian education. Three credits; spring; M. W. F., 11:10.

66. *Principles of Geography.* A general knowledge of the field of geography. The human, as well as the physical, and commercial phases will be stressed. Five credits; spring, M. F., 7:30.

111, 112. *Developmental Psychology.* A course designed to acquaint the student with the developing child and youth, bringing him to an understanding of how to deal effectively with boys and girls and young people in everyday situations. Much importance is attached to: the inter-relation of physical growth and growth of personality; emotional growth and dynamics; understanding of social development through childhood and adolescence; the importance of attitudes, ideals, and concepts as to values; and individual differences in abilities and potentialities. With this background of understanding the learning processes are given consideration together with a discussion of the common educational problems, procedures and current practices. Three credits; autumn, winter; M. W. F., 7:30.

118. *Educational Evaluation and Guidance.* Designed to follow and round off the course in developmental psychology by acquainting the student with

the latest and best instruments for appraising the results of growth in the various aspects of abilities, achievement and personality and with the most usable principles of educational guidance. Opportunity will be provided for the practical application and interpretation of the results obtained by the use of various tests and scales. Prerequisite: Psychology. Three credits; winter; M. W. F., 8:25.

121. *Secondary Education*. The evolution, scope, and functions of secondary education, including the field of the junior high school, the junior college, denominational schools, and other educational agencies in relation to social needs; it presents particularly the purpose, objectives, and attainable goals for secondary schools, and the several curriculum offerings. Three credits; autumn; M. W. F., 8:25.

129. *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; M. W. F., 7:30.

149. *History of Education*. A survey of the history of education from early times to the present with special recognition of religious education among the Hebrews and among Christian peoples. A brief study of education in the United States with special attention to the type of education promoted by Seventh-day Adventists. Three credits; spring; M. W. F., 8:25.

171, 172, 173. *Principles of Audio-Visual Education*. A survey of the methods of instruction through the use of audio-visual aids, including recording devices, motion pictures, slides, and film strips, charts, maps, posters, opaque projection, flat pictures, and blackboard illustrations. Prerequisite: 9 credits of Education. One hour credit; autumn, winter, spring; Tues. 5:00.

171A, 172A, 173A. *Laboratory in Audio-Visual Education*. Laboratory work done in connection with 171, 172, 173, providing experience in making film strips and slides; methods of copying material; study of equipment, and making of lists of equipment and sources for renting audio-visual aids. Three hours attendance; one credit; autumn, winter, spring; time to be arranged.

ELEMENTARY EDUCATION COURSES

11. *School Arts*. A course to prepare the teacher to direct in the schoolroom activities such as clay modeling, poster-making, art, lettering, crayola, pencil, watercolor, crafts and appreciation. Three credits; autumn; S., 7:30-12:00.

13 or 113. *Teaching of Crafts*. A course to prepare the teacher to direct all activities in the craft line such as, weaving, construction work, textile painting, leather craft, and work with cork, felt, brass, and gimp, glass painting, and ceramics. Three credits; spring; S., 7:30-12:00. Lower or Upper division credit.

18. *Teaching of Bible*. Content and methods of teaching of Bible in the elementary school. Two credits; winter; T. Th., 11:10.

21. *School Management*. A course in organization, administration, and supervision of the elementary school. Three credits; autumn; M. W. F., 11:10.

42. *Story Telling*. A course designed to complete the requirements for the story telling vocational honor, how to tell stories, what stories to tell, and experience in telling stories. One credit; winter; F., 2:00.

52. *Principles of Mathematics*. A background of information, with the methods which will enable the teacher to enrich the arithmetic work of all grades. Three credits; winter; M. W. F., 11:10.

69. *Teaching of Nature Study*. Content, methods, materials, and units used in the teaching of nature study. Three credits; spring; M. W. F., 11:10.

71. *Teaching of Reading*. Objectives and modern methods in the teaching of reading. Three credits; autumn; M. W. F., 8:25.

72. *Teaching of Social Studies*. Materials, objectives, and methods used in teaching social studies in the grades, chosen from the fields of geography, sacred and secular history, and civics. Three credits; winter; M. W. F., 8:25.

73. *Teaching of Language Arts*. A course giving the teaching procedures in the related fields of the language arts, literature, grammar, spelling, and writing. Three credits; spring; M. W. F., 8:25.

81, 82, 83. *Directed Teaching I*. Observation and participation in the Rogers School or elsewhere as designated by the Director. Problems of method, management, and testing of achievement are met and solved in practical classroom situations. Enrollment only with permission of the Director of the Rogers School. Prerequisite: Scholarship average of C. One credit; autumn, winter, spring; M.-F.; time arranged for each student; Th., 4:00-5:00.

91-92-93. *Curriculum Methods and Materials*. A course designed to acquaint the student with the content of materials used in connection with the course of study in the elementary school and with the general methods that are used in teaching the various types of subject matter as well as in helping children to make good adjustments as evidence of progressive development. Two credits; autumn, winter, spring; T. Th., 8:25

101, 102, 103. *Directed Teaching II*. Participation and teaching in the Rogers School or elsewhere as designated by Director. Each student is expected to take full charge of his class and is responsible for the progress of the children during his teaching time. Enrollment only with permission of the Director of the Rogers School. Prerequisite: Scholarship average of C. Time to be arranged for each student. M.-F., 2 credits; autumn, winter, spring; T. 4:00-5:00.

106. *Child Literature*. A course designed to survey the field of children's literature. Three credits; winter; M. W. F., 1:00.

108. *Observation and Problems in Grades 1-8*. Observation of teaching practice in a school room situation. Offered to provide teachers with an opportunity to observe and to practice in a six grade room. Registration limited. Three to four credits; winter; M.-F., time arranged.

136. *Washington State Manual*. Designed for students in the last year to acquaint them with the chief aspects of the Washington system of public schools and the Washington state laws. One credit; spring; time arranged.

SECONDARY TEACHING TECHNIQUES AND LABORATORY EXPERIENCES

134. *Techniques in Secondary Subjects.* This course is open to seniors who have definitely decided to go into denominational secondary teaching. The purpose of the course is to develop a sound and practical understanding of the teaching experience and to assist the student in acquiring and evaluating effective procedures of instruction based upon the results of modern investigations. Two credits; autumn; T. Th., 8:25.

161, 162, 163. *Participation and Directed Teaching III.* The principles and practices of secondary teaching will be examined in the light of practical experience gained through observation and supervised participation in school activities. Actual school situations will be provided for laboratory purposes. Class discussions will be concerned with the problems common to all teaching situations. Prerequisite: Senior standing and 15 credits in Education. Five credits; autumn, winter or spring; W., 4:00-5:00; and teaching in the Walla Walla College Academy.

197-198-199R. *Methods of Teaching Bible.* See Religion.

197Bi. *Methods of Teaching Biology.* See Biology.

197Bk. *Methods of Teaching Bookkeeping.* See Business Administration.

197Ch. *Methods of Teaching Chemistry.* See Chemistry.

197His. *Methods of Teaching History.* See History.

197Ind. *Methods of Teaching Industrial Arts.* See Industrial Arts.

197PE. *Methods of Teaching Physical Education.* See Physical Education.

197Ph. *Methods of Teaching Physics.* See Physics.

197Sh. *Methods of Teaching Shorthand.* See Business Administration.

197-198Sp. *Methods of Teaching Speech.* See Speech.

197Typ. *Methods of Teaching Typing.* See Business Administration.

GRADUATE COURSES

201. *Diagnostic and Remedial Teaching.* A study presenting modern techniques in the adaptation of instruction to individual differences. Case work and detailed diagnostic procedures in the elementary subjects will be emphasized. Three credits; autumn; M. W. F., 10:15.

202. *Remedial Reading.* A diagnosis of reading difficulties through the use of diagnostic devices and tests. A study of remedial procedures in reading, cases, clinic procedures, and suggestions for remedial work. Three credits; winter; M. W. F., 10:15.

203. *Curriculum Workshop.* A course in building the curriculum of the elementary school. Three credits; spring; M. W., 4:00-6:00.

208. *Special Problems in Grades 1-8.* A study of teaching techniques in a school room situation; an analysis of special problems in the various areas of the elementary school. Registration limited. Prerequisite: 81, 82, 83 and 101, 102, 103, or equivalent. Three credits; winter; M., 4:00-6:00.

211, 212. *Statistics.* Business Administration 191, 192 with additional topics. Two credits; autumn, winter; T. Th., 8:25.

215-216-217. *Advanced Audio-Visual Education.* This course provides experience in making film strips and slides; methods of copying material; study of equipment; and making of lists of equipment and sources for renting audio-visual aids. Open to graduate students. Prerequisite: 171, 172. Not available

to students who have completed 171A, 172A, 173A. One credit; autumn, winter, spring; time arranged.

221. *Psychology of Learning*. The course includes analysis of the mechanisms involved in the learning process. The physiological and psychological basis for functional learning is discussed, and the experimental evidence supporting psychological hypotheses is reviewed. Three credits; autumn; M. W. F., 10:15.

224. *Philosophy of Education*. A study of the basic principles and development of true education resulting in the formulation of aims and objectives of education for Christian society. Prerequisite: 149. Three credits; winter; M. W. F., 10:15.

227. *History of the Problems of Education*. A course for advanced students dealing with educational problems in the light of their history. Textbook, readings, discussion, term paper. Prerequisite: 149. Three credits; spring, M. W. F., 10:15.

241. *Methods of Research*. The meaning, nature, and purpose of research; the qualities, abilities, and training of research workers; pitfalls in research; selecting the field, the subject and the problem; bibliographical survey; research techniques. Two credits; autumn; T. Th., 10:15.

244. *Seminar*. Special projects (a) Great teachers; (b) Public relations program; (c) Extracurricular organizations; (d) Selected reading; (e) Mental Hygiene. Two credits; autumn; M. 2:00-4:00.

245. *Seminar*. Current educational issues and trends, their aims and objectives, analysis and philosophy. Two credits; winter; M. 2:00-4:00.

246. *Seminar*. Topics related to school administration and instructional supervision in academies and intermediate schools. Denominational program of financial support; library organization; registrar's work; school plant, etc. Two credits; spring; M. 2:00-4:00.

247. *Seminar*. Measurements and their social uses; character education; career planning; vocational education. Two credits; summer; M. W., 3:10-5:00.

261. *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; autumn; M. W. F., 7:30.

265. *School Administration and Supervision*. A course which presupposes some familiarity with problems of administration and supervision. An intensive study of more important problems of constructive organization in secondary and elementary education and the improvement of school work. Prerequisite: 121 or equivalent. Three credits; winter; M. W. F., 7:30.

266. *The Secondary School Curriculum*. 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 secondary school materials and activities. Current practices in curriculum revision. Prerequisite: Minor in Education and 121. Two credits; spring; T. Th., 8:25.

276. *Secondary School Supervision*. The functions, scope, organization, human relationships, techniques, and ultimate purposes of instructional supervision. Three credits; spring; M.W.F., 7:30.

SOCIOLOGY

2-3. *Survey of Sociology*. An introductory study of social organization, the nature of social relations, and the influences that shape society. Two credits; winter, spring; T. Th., 8:25.

*6. *Social Problems*. A survey of contemporary social trends and their relationship to disease, unemployment, and delinquency, etc. Three credits; spring; M. W. F., 8:25.

107. *Human Relations*. A general course designed to acquaint the student with the ethics of human relationships, of standards of community life, of the responsibilities of the cultured individual in society, and to provide a Christian perspective regarding the problems of marriage and home building. Two credits; winter; T. Th., 8:25.

108. *Cultural Foundations*. A survey of the cultural heritage of the race of the best in music, art, ancient literature, and other appreciations. Competent guest lecturers will frequently appear before the class. Three credits; winter; time arranged.

ENGLISH and JOURNALISM

Mr. Aplington. Mr. Waller, Miss Sonnenberg

This department offers a major in English and minors in English and Journalism. Except for the vocational printing courses in journalism, freshman courses do not apply on a major or minor.

The requirements for a major in English are:

DEPARTMENTAL	Credits
†* <i>Literary Elements</i> (51) (Sophomore)	3
<i>American Literature</i> (64-65, 66) (Soph. or Junior)	6
<i>English Literature</i> (74, 75-76) (Sophomore)	6-9
One writing course above the freshman level	6
** <i>Historical Grammar and Linguistics</i> (166) (Prescribed for those seeking departmental recommendation as teachers)	0-3
<i>Pro-Seminar</i> (197-198-199) (Senior)	3
CHOOSE FROM FOLLOWING	6-15
** <i>Old and Middle English</i> (101, 102-103) <i>English Renaissance Literature</i> (107-108, 109) <i>Neo-classic Literature</i> (117-118-119) <i>Dramatic Literature</i> (184, 185-186) <i>Western World Literature</i> (171, 172-173)	
CHOOSE FROM FOLLOWING	3-12
<i>The Romantic Period</i> (151-152-153) * <i>The Victorian Period</i> (154-155-156) <i>American Literary Masters</i> (157-158-159) <i>Literature of the English Bible</i> (163) <i>Twentieth Century Literature</i> (82)	

*Not offered 1953-1954.

**English 102 is prerequisite to English 166 and 103.

†Not applicable on literature requirement for graduation.

EXTRA-DEPARTMENTAL

1. English history (required) and United States history (recommended).
2. A minor in a field with logical correlation, such as history, modern language, journalism, speech.

A minor in English shall be made up of not less than 27 credits, 6 of these being in a writing course above the freshman level and the other 21 in a literature sequence that includes American (64, 65-66) and English (74, 75-76) literature surveys.

COMPOSITION

1-2-3. *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 1 or 1A will be repeated in the winter, spring, or summer when the need is adequate. Three credits; autumn, winter, spring; Sec. A, M. W. F., 10:15; Sec. C, M. W. F., 10:15; Sec. D, M. W. F., 11:10; Sec. E, M. W. F., 7:30; Sec. F, M. W. F., 8:25; Sec. G, M. W. F., 8:25; Sec. H, M. W. F., 11:10; Sec. I, M. W. F., 10:15.

1A-2-3. *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; Sec. B, autumn, M.F., 10:15; winter, spring, M.W.F., 10:15.

84, 85-86. *News Writing*. See Journalism 84, 85-86. Two credits; autumn, winter, spring; T. Th., 11:10.

*141-142-143. *Literary Composition*. A course for those who like to write and can do so with reasonable facility in such fields (according to the option and ability of the student) as the essay, the dissertation, formal argumentation, persuasion, pieces of imagination, vignettes, and poetry. Enrollment restricted. Two credits; autumn, winter, spring; T. Th., 5:00.

*144-145-146. *Advanced Journalistic Writing*. See Journalism 144-145-146. Two credits; autumn, winter, spring.

LITERATURE

*51. *Literary Elements*. A study of the basic principles, the philosophy and nature of literary art, and the technical terminology together with an analysis of the various forms and types of poetry and prose. This is prerequisite to the literature classes unless the student shows that he has a working familiarity with the elements of literature. This course does not satisfy any portion of the literature-speech requirement. Three credits; autumn; M. W. F., 8:25.

64-65, 66. *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; T. Th., 10:15.

74, 75-76. *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; M. W. F., 7:30.

82. *Twentieth Century Literature*. Modern American and British literary achievements studied as a revelation of contemporary attitudes, ideals, and conduct. Three credits; winter; M. W. F., 8:25.

All courses on the junior-senior level have as prerequisites the appropriate lower-division preparation, which varies according to the course and literary preparation of the student in other languages and in history. Consult the department for directions.

101, 102-103. *Old and Middle English*. 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, Old English; winter and spring, Chaucer and other Middle English; M. W. F., 7:30.

107-108, 109. *English Renaissance Literature*. Detailed exploration in the significant non-dramatic literature that reflects the essential temper of the Renaissance period, with chief emphasis on Spenser, Bacon, and Milton. Three credits; autumn, 1540-1600; winter, 1600-1650; spring, Milton and the transition; M. W. F., 11:10.

117-118-119. *Restoration and Neo-classic Literature*. Neo-classic ideals and achievements as reflected in the chief writers of the time from Bunyan and Dryden to Johnson. Two credits; autumn, winter, spring; time arranged.

151-152-153. *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; T. Th., 8:25.

*154-155-156. *The Victorian Period*. An advanced study of the poetry and prose of the men who moulded and reflected characteristic opinion and ideals after the first third of the nineteenth century. Two credits; autumn, winter, spring; T. Th., 10:15.

157, 158, 159. *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; T. Th., 10:15.

163. *Literature of the English Bible*. Detailed analysis of the technical requirements of Hebrew poetry and prose types, particularly stressing passages that reveal the peculiar literary genius and grandeur of the Bible. Three credits; spring; M. W. F., 8:25.

166. *Historical and Modern Grammar and Linguistics*. This study, designed for English majors and minors who intend to be teachers, includes a survey of linguistics and historical grammar, but the chief emphasis is on present-day grammar and its tendencies. Three credits; spring; time arranged.

171, 172-173. *Western World Literature*. Broad outlines of literary history, literary criticism, and reading and examination of the more significant works in the history of human culture. Two credits; autumn, winter, spring; time arranged.

*Not offered 1953-1954.

*184, 185-186. *Dramatic Literature*. A carefully selected group of dramatic classics from Aeschylus to Ibsen, studied to reveal their literary values and cultural attitudes. About half the time is spent on Shakespeare. Three credits; autumn, winter spring; M. W. F., 8:25.

197-198-199. *English Pro-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; W., 4:00.

JOURNALISM

The department offers a minor in journalism with adequate laboratory work on school publications, projects, and newspaper reporting. To qualify for a minor in this field the student must have a broad cultural course in general college studies, including among his prescribed and elective courses American history, civil government, sociology or general economics, advertising, typewriting, and two courses in literature. A thorough mastery of English fundamentals is expected of all taking journalism courses.

24-25, 26. *Printing I*. See Industrial Arts Department courses 24-25, 26. Two credits; autumn, winter, spring.

91-92-93. *Printing II*. See Industrial Arts Department courses 91-92-93. Two credits; autumn, winter, spring.

84, 85-86. *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. Prerequisite: proficiency in English 1-2-3. Two credits; autumn, winter, spring; T. Th., 11:10.

*106. *Public Address Reporting*. Specialized practice in reporting sermons, speeches, public meetings, and interviews according to good newspaper formula. Enrollment restricted. Two credits; winter or spring; time arranged.

131-132-133. *Copy-desk Editing*. This is a practice course for those who have done acceptable work in 84, 85-86. The work involves laboratory projects in copyreading, rewriting, head-writing, proofreading, make-up, feature production, and office detail. One credit; autumn, winter, spring; time arranged.

*138. *History and Ethics of Journalism*. History of journalism from about 1620 to the present time with parallel attention to the principles that guide the best newspapers. Three credits; winter.

*144-145-146. *Advanced Journalistic Writing*. An advanced course in writing such publication types as editorials, features, general magazine articles, book reviews, and critical discussions. Two credits; autumn, winter, spring; T. Th., 5:00.

149. *Newspaper Problems*. A study of the policies and practices of the better weekly and small city newspapers as related to news content, editorials, advertising, circulation, costs. Part of the work will be in the form of research and observation in a newspaper plant of the type considered in the course. Three hours; spring; time arranged.

*Not offered 1953-1954.

HISTORY

Mr. Westermeyer, Mr. Meckling

The minimum history requirement for a baccalaureate degree must be met by completing one of the following courses:

	Credits
History of European Civilization (1, 2, 3)	9
History of the United States (51, 52, 53)	9

*Requirements for a major in history include:

History of European Civilization (1, 2, 3)	9
History of the United States (51, 52, 53)	9
Upper-division courses in European history	6
Upper-division courses in American history	6
Seminar in History (194, 195)	2
Elective courses in history	22

Total required for a *major in history* 54

*Requirements for a minor in history include:

History of European Civilization (1, 2, 3)	9
History of the United States (51, 52, 53)	9
Upper-division courses in history	9
Seminar in History (186)	1

Total required for a *minor in history* 28

LOWER-DIVISION COURSES IN HISTORY

1, 2, 3. *History of European Civilization.* A survey of European history and its world relationships from the Roman Empire to the present. Three credits; autumn, winter, spring; M. W. F.; 11:10.

51, 52, 53. *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; Sec. A, M. W. F., 7:30; Sec. B, M. W. F., 8:25.

**91, 92, 93. *Europe Since 1815.* Political, economic, and social developments in nineteenth and twentieth century Europe, with special attention to our own times. Two credits; autumn winter, spring; T. Th., 10:15.

*Three credits of Political Science are required as a cognate course and may be applied as a non-history elective.

**Not offered 1953-1954.

UPPER DIVISION COURSES IN EUROPEAN HISTORY

(Prerequisite: *History of European Civilization* 1, 2, 3; 9 credits)

*111. *History of the Ancient Near East*. The civilizations of Babylon, Assyria, Egypt, Medo-Persia and minor nations and their relation to the history of the Hebrew race. Two credits; autumn; T. Th., 1:00.

*112. *Greece and the Hellenistic Age*. A study of Greek civilization, its political and intellectual contributions, Hellenistic civilization in relation to the peoples surrounding the Eastern Mediterranean Basin. Two credits; winter; T. Th., 1:00.

*113. *Roman Civilizations*. Early Roman political forms, the growth of the empire in relation to a militant Christianity, the elements of political decay leading to its decline, the contributions of Roman civilization to the western nations. Two credits; spring; T. Th., 1:00.

121, 122, 123. *History of the Middle Ages*. The European peoples and their institutions from the decline of the Roman Empire to the end of the fifteenth century. Three credits; autumn, winter, spring. M. W. F., 10:15.

134, 135, 136. *The Era of the French Revolution*. The Old Regime, the French Revolution, and the Napoleonic period through the Congress of Vienna. Two credits; autumn, winter, spring; T. Th., 10:15.

151, 152, 153. *Current History*. A survey of contemporary national and international affairs, based upon an investigation into casual factors. Current magazines, newspapers, and books are used. Two credits; autumn, winter, spring; T. Th., 10:15.

154, 155, 156. *History of England*. The development and expansion of the English people from the earliest times to the present. Two credits; autumn, winter, spring; T. Th., 7:30.

157, 158, 159. *The Far East*. This course offers a survey of the history and culture of Far Eastern people, with emphasis on the interplay of political and cultural influences among the various eastern groups and between them and the Occident. Two credits; autumn, winter, spring; T. Th., 11:10.

161, 162, 163. *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; T. Th., 11:10.

*167. *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; M. W. F., 10:15.

*168. *The Renaissance*. The decline of feudalism, of the gild system, of papal authority, and of scholastic thought, followed by the Italian Renaissance and Humanism in the north. Three credits; winter; M. W. F., 10:15.

*169. *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; M. W. F., 10:15.

171, 172, 173. *Church History*. A course tracing the development of organized Christianity and its influence upon the thought and life of the world. From the apostolic era to the modern age, the varying progress of the church is traced, with special emphasis upon the spiritual declension following the nom-

*Not offered 1953-1954.

inal conversion of Constantine; the great schism between East and West; the rise and development of the papal supremacy; efforts at reform within the Catholic church; the Reformation; the divisions within the Protestant movement; modernism and kindred tendencies in the churches today. Textbook assignments, collateral reading, classroom discussion. Three credits; autumn, winter, spring; M. W. F., 7:30.

179. *History of the British Empire*. Political and economic theories leading to imperialism, territorial growth, the nature of the empire, relation of the various parts to Great Britain. Three credits; spring; M. W. F., 1:00.

184. *History of Twentieth Century Totalitarianism*. An analysis of totalitarian forces operative today with special emphasis on recent religious and political trends in Russia, Italy, and Germany. This course will be offered on a combined lecture and seminar basis. Three credits; autumn; M. W. F., 11:10.

UPPER-DIVISION COURSES IN AMERICAN HISTORY

(Prerequisite: *History of the United States* 51, 52, 53, or its equivalent)

164, 165. *The American Frontier*. The exploration, settlement, and development of the American west with consideration given to economic, social, cultural and political factors. Two credits; autumn, winter; T. Th., 8:25.

*166. *Diplomatic History of the United States*. A study of relations between the United States and other nations, outstanding controversies and their settlement, and the development of recognized foreign policies. Two credits; spring; T. Th., 8:25.

174. *History of Canada*. The French period, English Colonial period in relation to the United States, the National period, westward expansion. Three credits; autumn; M. W. F., 1:00.

176. *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. Three credits; spring, M. W. F., 11:10.

*181, 182, 183. *History of Religion in the United States*. An analysis of religious forces in the development of the United States, and their inter-relationships with social, cultural, economic and political forces. Two credits; autumn, winter, spring; T. Th., 8:25.

*187, 188, 189. *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 relationships. Two credits; autumn, winter, spring; T. Th., 11:10.

RESTRICTED COURSES

(Open only to majors and minors in history.)

186. *Seminar for History Minors*. A special orientation and research course required of all history minors. One credit; spring; M., 1:00.

191, 192, 193. *Independent Study in History*. Open only by written permission of the head of the department to advanced students with a superior background in historical study. Readings, reports, and conferences. One or two credits; autumn, winter, or spring; time arranged.

194, 195. *Seminar for History Majors*. An orientation and research course in problems connected with historical materials and methods. One credit; autumn, winter; T., 1:00.

*Not offered 1953-1954.

197. *Methods of Teaching History in the Secondary Schools.* This course provides practice teaching on the secondary level. One credit; time arranged.

HOME ECONOMICS

Miss Schluntz, Miss Wright, Mr. Wall

Requirements for a major in Home Economics leading to a Bachelor of Arts Degree:

- a. Forty-five credits in Home Economics including 1, 2, 3, 71, 72-73, 171-172 and 184-185-186.
- b. Chemistry 1-2-3 and 9 credits of biological science. Food Chemistry 53 and 53-A may be substituted for 4 hours of biological science.

Requirements for a minor in Home Economics:

- a. A minimum of 27 credits.
- b. Courses ,2,3, 71,72-73 and 184-185-186 are required.

1, 2. *Food Study.* Discussion of the fundamental problems of food in relation to health: study of the composition, nutritive value, and digestibility of common foods; principles of food selection and preparation. Three credits; autumn, winter; T. Th., 10:15. Laboratory, T. W. or Th., 2:00-5:00.

3. *Food Preparation and Service.* A course in menu planning and table service. Preparation and practice in serving formal and informal dinners, buffet suppers, luncheons, etc. Prerequisite: 1, 2. Three credits; spring; T. Th., 10:15. Laboratory, T. W. or Th., 2:00-5:00.

41-42. *Applied Design.* Instruction 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. Three credits; autumn, winter; M. W. F., 8:25.

63. *Consumer Buying.* A study of the homemaker's problems in buying textiles, clothing and household materials with emphasis on the economic principles involved. Three credits; spring; M. W. F., 8:25.

71, 72-73. *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. Three credits; autumn, winter, spring. T. Th., 8:25. Lab. M. or W., 2:00-5:00.

89. *Textile Painting and Related Arts.* Study of line, form and color as applied to textile painting, and silk screen printing. Three credits; spring; T. Th., 2:00-5:00.

91-92. *Weaving and Upholstering.* The study of the development of weaving, color harmonies and design as applied to fabrics. Construction of hand woven material; reupholstering and refinishing furniture; tailoring draperies, bedspreads and slip covers. Prerequisite; ability to sew. Three credits; autumn, winter; T. 7:30. Six hours laboratory arranged.

126. *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; M. W. F., 10:15.

*141-142. *Child Development*. A study of the care and development of young children, with special reference to home education. Three credits; autumn, winter; M. W. F., 10:15.

153. *Advanced Weaving and Upholstering*. Originality in the construction and color combinations of hand-woven materials; upholstering and refinishing furniture. Prerequisite: 91-92. Three credits; spring; T., 7:30. Six hours laboratory arranged.

*163. *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. Prerequisites: 1, 2, 3, and Chemistry 1-2-3. Three credits; spring; M. W. F., 10:15. Lab. M., 2:00-5:00.

164, 165. *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. Course 41-42, highly desirable. Three credits; autumn, winter; M. W. F., 11:10.

171-172. *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. Prerequisites: 1, 2, 3, and Chemistry 1-2-3. Three credits; autumn, winter; T. Th., 11:10; laboratory, M. 2:00-5:00.

*173. *Diet in Disease*. A thorough study of the diagnosis of nutritional deficiency diseases and specific therapy when illness occurs. The course is intended to enable the dietitian to ably assist the physician in filling the dietary prescription for the specific need of each patient. Prerequisite: 171-172. Three credits; spring; M. W. F., 11:10.

*174-175. *Institutional Food Preparation*. Instruction and laboratory experience in large quantity food preparation, and food cost control. This course is primarily for those interested in actual preparation of food in college and academy cafeterias. Prerequisite: 1, 2, 3. Three credits; autumn, winter; time arranged.

176. *Institutional Management*. Principles of organization, qualifications for institutional 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 of institutional food services. Prerequisite: 1, 2, 3. Three credits; Spring; M. W. F., 8:25.

*179. *Institutional Food Purchasing*. Marketing operations, buying procedures, food selection and care. Inspection of merchandise at markets and wholesalers. Two credits; spring; T. Th., 8:25. Prerequisites: 1, 2, 3 and Business Adm. 1, 2, 3.

181-182. *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: 71, 72-73. Three credits; autumn, winter; T. Th., 2:00-5:00.

184-185-186. *Home Economics Seminar*. Required of all majors and minors. Studies of selected topics and reviews of current literature. Special investigation of problems. One credit; autumn, winter, spring; arranged.

197. *Methods of Teaching*. The principles and practices of teaching Home Economics in secondary schools and adult education classes. Special attention

*Not offered 1953-1954.

will be given to the newer methods of presentation in classroom, laboratory and community demonstrations. Prerequisite: at least 30 hours of Home Economics. One credit; autumn, winter, spring. Arranged.

MATHEMATICS

Mr. Brinker, Mrs. Schlotthauer

A major in Mathematics shall consist of 45 credits, 21 of which must be upper division. A minor shall consist of 27 credits. Courses 21, 22, 23, 51-52-53 are required for majors and minors. Students majoring in Mathematics should select German or French for the modern language requirement.

0. *Plane Geometry*. Given for college entrance. No credit; autumn, winter, spring; T. Th., 11:10.

1, 2, 3. *Mathematics*. A course designed for those students whose Mathematics Placement Test indicates they have insufficient background for Mathematics 21. This course will review the fundamentals of algebra and continue into a course paralleling Mathematics 21, 22, 23. Autumn and winter quarters will satisfy mathematics prerequisite for General Physics. Of the 15 hours total credit for this course, only 12 may be applied towards a mathematics major or minor. The remaining 3 may be applied as electives. Five credits; autumn, winter, spring; M.-F., 7:30.

21. *College Algebra*. A course for those with two or more semesters of preparatory algebra well recalled. Linear and quadratic equations; binomial theorem; mathematical induction; complex numbers; determinants; theory of algebraic equations. Four credits; autumn; M.-Th., Sec. A, 8:25; Sec. B, 10:15.

22. *Plane Trigonometry*. A study of the six trigonometric functions and their use in the solution of the triangle. Four credits; winter; M.-Th., Sec. A, 8:25; Sec. B, 10:15.

23. *Analytical Geometry*. The equations of the straight line and conic sections and their relation to the rectangular and polar coordinates. Prerequisite: 21, 22. Four credits; spring; M.-Th., Sec. A, 8:25; Sec. B, 10:15.

51-52-53. *Calculus*. The elements of differential and integral calculus with many problems in its application. Prerequisite: 23. Four credits; autumn, winter, spring; M.-Th., 7:30.

101. *Spherical Trigonometry*. Elements of trigonometry as applied to the spherical triangle and to navigation and astronomy. Prerequisite: 22. Two credits; autumn; arranged.

102-103 or 98-99. *Solid Analytical Geometry*. Typical equations of the plane, sphere, paraboloid, hyperboloid, and ellipsoid, and their relation to rectangular and polar coordinates. Includes determinant and matrix theory as applied to geometry of space. Prerequisite or corequisite: 53. Two credits; winter, spring; arranged.

†151. *Theory of Equations*. Further study of complex numbers, solution of cubic and quadratic equations, symmetric functions, determinants, resultants, and discriminates. Prerequisite or corequisite: 53. Four credits; autumn; M.-Th, time arranged.

†152. *Introduction to Modern Algebra*. Re-interpretation of the results of classical algebra, giving for greater unity and generality. Four credits; winter; M.-Th, time arranged.

†Will be taught only upon sufficient need or demand.

†153. *College Geometry*. A course in advanced Euclidian plane geometry, including properties of the triangle, similarity, and harmonic points and lines. Four credits; spring; M-Th, time arranged.

161, 162. *Differential Equations*. The solution of the various types of differential equations with applications to problems in physics, engineering, and geometry. Prerequisite: 53. Four credits; autumn, winter; M-Th., 8:25.

163. *Advanced Calculus*. Infinite series; implicit functions; Riemann integration. Prerequisite: 53. Four credits; spring; M-Th., 8:25.

†171, 172, 173. *Introduction to Advanced Analysis*. Partial differential equations; Fourier series; Vector and Tensor analysis. Prerequisite: 161, 162, 163. Four credits; autumn, winter, spring; M-Th., time arranged.

190. *Selected Topics in Mathematics*. Individual work to be carried on by the student, under the supervision of the instructor, and elected only after consultation with the head of the department. One to two credits; time arranged.

MODERN LANGUAGES AND LITERATURES

The aim of the courses in modern languages and literatures is to impart understanding of the spoken language and facility in reading and writing; to aid the student in developing tolerance, appreciation of the literature, customs, ideals, and culture of the countries where the language is spoken; to prepare students to teach the language studied as well as for mission service.

PRESCRIBED REQUIREMENT: To meet the prescribed foreign language requirement for the Liberal Arts degree a student who has taken two units in preparatory school will register for 9 credits in college if he continues the same language. If the same language is not continued then it will be necessary to obtain 24 credits in college. No credit will be allowed toward graduation from the Liberal Arts course for less than two years of any modern language taken either in college or preparatory school.

A major in any one language consists of 40 credits, exclusive of any elementary course, or 58 credits if two languages with the grouping of 36 and 22 credits respectively.

A minor consists of 24 credits exclusive of any elementary course.

SPANISH

Miss Sorenson

1-2-3. *Elementary Spanish*. Thorough grammatical analysis. Special emphasis is given to reading and to the acquisition of a working vocabulary for the further study of the language. The foundation of formal instruction in composition is laid in dictation and memorization. Early use of sight material. Five credits; autumn, winter, spring; M-F., 11:10.

†Will be taught only upon sufficient need or demand.

51, 52, 53. *Spanish Reading*. Selected readings from standard Spanish authors. A course designed for intermediate students who desire a reading knowledge. May be combined with 54, 55, 56, to make a five-hour course. Prerequisite to any advanced course in literature. Three credits; autumn, winter, spring; M. W. F., 10:15.

54, 55, 56. *Spanish Composition and Conversation*. Grammar and composition drills and idioms. May be combined with 51, 52, 53, to make a five-hour course. Two credits; autumn, winter, spring; T. Th., 10:15.

101, 102, 103. *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 essays. Three credits; autumn, winter, spring; M. W. F., 7:30.

*152. *Spanish Pronunciation*. An analysis of the difficulties of Spanish pronunciation; abundance of individual drill and practical directions for remedial exercises. Two credits; winter T. Th., 8:25.

154, 155, 156. *Spanish Directed Reading*. One to three credits each quarter are offered to advanced students. The work consists of assigned readings and reports. Prerequisite: 101, 102, 103. Autumn, winter, spring; T. Th., 1:00.

*159. *Advanced Spanish Conversation*. Prerequisite: 54, 55, 56. Practice in conversation for those preparing to teach. Two credits; spring; T. Th., 8:25.

*161. *Spanish Essay*. A study of the important Spanish essayists and their representative essays. Three credits; autumn; M. W. F., 8:25.

*162. *Spanish Poetry*. This course includes a study of the history of Spanish poetry with the reading of representative Spanish poems. Winter; M. W. F., 8:25.

*163. *Latin American Literature*. A survey of Latin American literature with special emphasis on the South American authors. Spring; M. W. F., 8:25.

FRENCH

Mr. Stoehr, Miss Sorenson

*1-2-3. *Elementary French*. Thorough grammatical analysis. Special emphasis is given to reading and to the acquisition of a working vocabulary for the further study of the language. The foundation of formal instruction in composition is laid in dictation and memorization. Five credits; autumn, winter, spring; M.-F., 7:30.

51, 52, 53. *French Reading*. Selected readings from standard French authors. A course designed for intermediate students who desire a reading knowledge. Three credits; autumn, winter, spring; M. W. F., 8:25.

*54-55-56. *French Composition and Conversation*. A comprehensive and thorough review of grammar; facility in oral and written expression. Two credits; autumn, winter, spring; time arranged.

GERMAN

Mr. Stoehr, Mr. Sonnenberg

1-2-3. *Elementary German*. Thorough grammatical analysis. Special emphasis is given to reading and to the acquisition of a working vocabulary for the further study of the language. The foundation of formal instruction in composition is laid in dictation and memorization. Early use of sight material. Practice in free oral and written expression. Five credits; autumn, winter, spring; M.-F., 11:10.

*Not offered 1953-1954.

51, 52, 53. *German Reading*. Continued analysis of the language; special training in written and oral expression with aural comprehension; composition, syntax, dictation; intensive and extensive reading of modern literature with oral and written reports for the purpose of fixing special grammatical forms and usages well in mind; increasing use of German in the classroom. Three credits; autumn, winter, spring; M. W. F., 10:15.

54-55-56. *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; T. Th., 10:15.

*101, 102, 103. *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 Minnesanger; plays and songs of the fifteenth and sixteenth centuries. Representative works of the Romantic period will be read and compared with selections from the classical period. Three credits; autumn, winter, spring; M. W. F., 8:25.

*109 *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. Prerequisites: 51, 52, 53. Three credits; spring; time arranged.

*152. *History of the German Language*. This course is open to advanced students of any language, including English. A practical study of the development of the language. Special emphasis upon the relation of English to German for the purpose of acquiring the habit of thinking clearly and correctly, if not profoundly, concerning the relationship of cognates. Reading of Hartmann von Aue's *Der Arme Heinrich*, and selections from the *Nibelungenlied*. Three credits; winter. Arranged.

153. *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. Arranged.

154, 155, 156. *German Directed Reading*. One to three credits each quarter are offered to advanced students. The work consists of assigned readings in the library and written reports. Prerequisite: 101, 102, 103. Autumn, winter, spring; T., 1:00.

161. *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; M. W. F., 7:30.

162. *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 and Dorothea*; Schiller's *Wallenstein*; Lessing's *Nathan der Weise*. Three credits; winter; M. W. F., 7:30.

*Not offered 1953-1954.

‡163. *Advanced German Composition and Conversation.* A course in advanced composition, conversation, and reading; increased oral practice; special emphasis in linguistic fluency and accuracy in comprehension and reproduction; a comprehensive and thorough review of grammar; continued study of idioms and special grammatical usages; reading of more difficult German; acquisition of an extended vocabulary; instruction largely in German. Three credits; spring; M. W. F., 7:30

MUSIC

*Mr. Walker, Mr. Dortch, Mr. Trubey, Mr. Gernet, Miss Miller,
Miss Myers, Mr. Johnson.*

The Music Department has offerings suitable for those students who wish a cultural appreciation of music as well as for those students who wish to choose music as a vocation.

Bachelor of Music

The Bachelor of Music Curriculum in Piano, Organ, Voice, Violin, Music Education, or Band and Orchestral instruments is recommended for those who wish to go into music professionally. After a probationary period of three quarters to demonstrate sincerity of purpose, application and aptitude, those matriculating in music will be given full status as major students in their respective departments. The Bachelor of Music curriculum consists of 192 credits. The prerequisites are the completion of the preparatory work in the chosen major instrument and a natural gift for music.

Curriculum for Bachelor of Music

FIRST YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Applied Major	2	Applied Major	2	Applied Major	2
*Elective	1	*Elective	1	*Elective	1
**Choir, Orchestra, Band, or Small Ensemble	0	**Choir, Orchestra, Band, or Small Ensemble	0	**Choir, Orchestra, Band, or Small Ensemble	0
Theory I	4	Theory I	4	Theory I	4
Religion	2	Religion	2	Religion	2
Freshman Comp.	3	Freshman Comp.	3	Freshman Comp.	3
†Language or Liberal Arts	3	†Language or Liberal Arts	3	†Language or Liberal Arts	3
Physical Education	½	Physical Education	½	Physical Education	½
	15½		15½		15½

*This elective must be taken in piano until an examination can be satisfactorily passed.

**Ensemble is required for each year a student is in residence regardless of the number of credits accumulated. Voice majors must be in the choir, string majors must be in the orchestra, and brass and woodwind majors must be in the orchestra or the band.

†Voice majors are required to take language. Diction in several languages will be given in the private voice lessons.

‡Not offered 1953-1954.

SECOND YEAR

Applied Major	4
*Elective	2
**Choir, Orchestra, Band, or Small Ensemble	1
Theory II	4
Church Music or Music Literature	1-2
Religion	2
Physical Education	½
Liberal Arts Elec.	1-2
—	—
	16½

Applied Major	4
*Elective	2
**Choir, Orchestra, Band, or Small Ensemble	1
Theory II	4
Church Music or Music Literature	1-2
Religion	2
Physical Education	½
Liberal Arts Elec.	1-2
—	—
	16½

Applied Major	4
*Elective	2
**Choir, Orchestra, Band, or Small Ensemble	1
Theory II	4
Church Music or Music Literature	1-2
Religion	2
Physical Education	½
Liberal Arts Elec.	1-2
—	—
	16½

THIRD YEAR

Applied Major	4
*Elective	1
**Choir, Orchestra, Band, or Small Ensemble	1
Form & Analysis	2
Counterpoint	2
History of Music	3
Religion	2
Elective	1
—	—
	16

Applied Major	4
*Elective	1
**Choir, Orchestra, Band, or Small Ensemble	1
Form & Analysis	2
Counterpoint	2
History of Music	3
Religion	2
Elective	1
—	—
	16

Applied Major	4
*Elective	1
**Choir, Orchestra, Band, or Small Ensemble	1
Form & Analysis	2
Counterpoint	2
History of Music	3
Religion	2
Elective	1
—	—
	16

Junior Recital

FOURTH YEAR

Applied Major	6
**Choir, Orchestra, Band, or Small Ensemble	1
Composition	2
Orchestration	2
Instrumental or Choral Conducting	3
Religion	2
—	—
	16

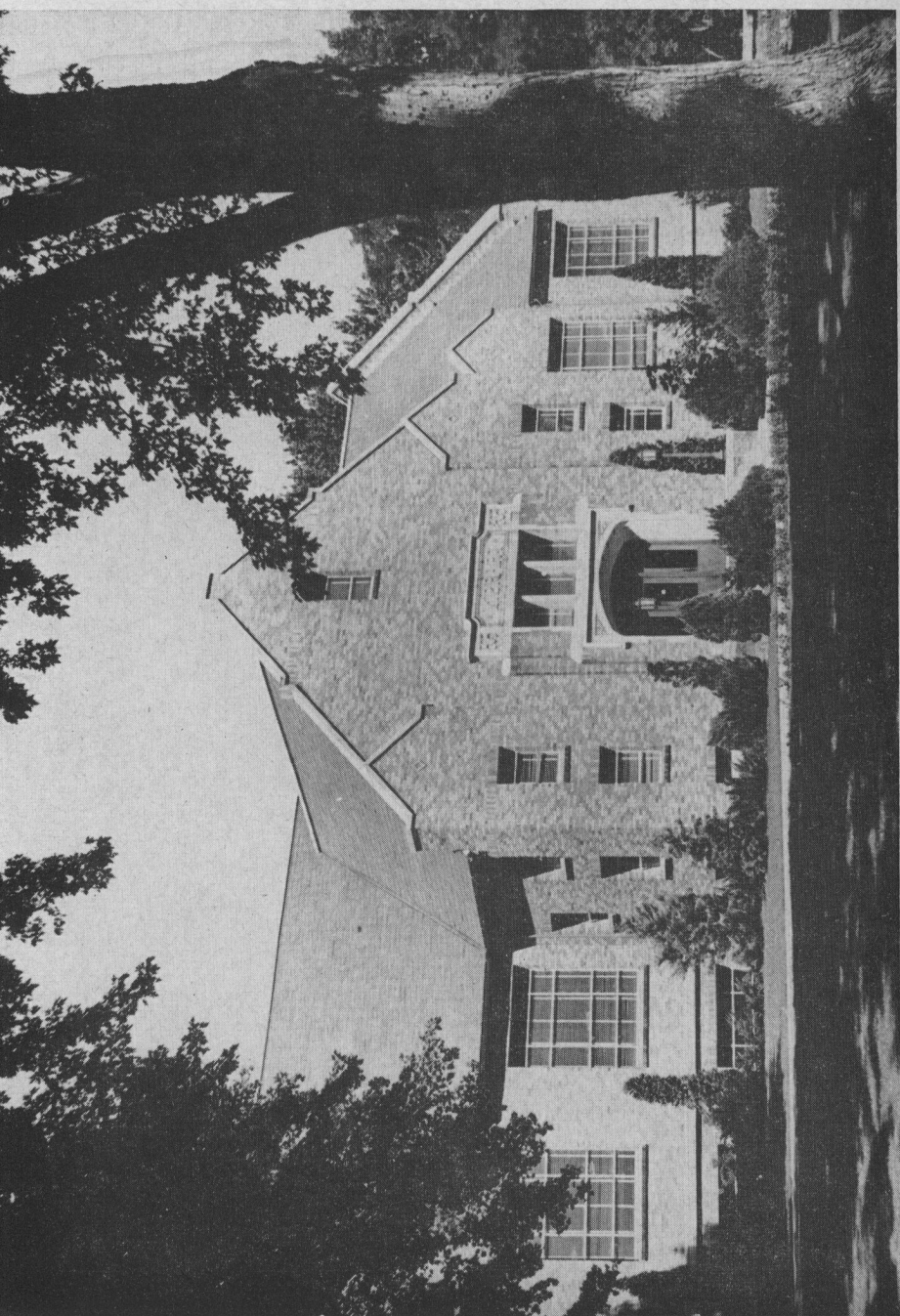
Applied Major	6
**Choir, Orchestra, Band, or Small Ensemble	1
Composition	2
Orchestration	2
Instrumental or Choral Conducting	3
Religion	2
—	—
	16

Applied Major	6
**Choir, Orchestra, Band, or Small Ensemble	1
Composition	2
Orchestration	2
Instrumental or Choral Conducting	3
Religion	2
—	—
	16

Senior Recital

*This elective must be taken in piano until an examination can be satisfactorily passed.

**Ensemble is required for each year regardless of the number of credits accumulated. Voice majors must be in the choir, string majors must be in the orchestra, and brass and woodwind majors must be in the orchestra or band.



LIBRARY

Bachelor of Music—Music Education Major

This curriculum is designed especially for students interested in teaching music in the secondary school. Certification is highly recommended.

FIRST YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Applied Major	2	Applied Major	2	Applied Major	2
*Piano	1	*Piano	1	*Piano	1
Brass Methods Class	1	Brass Methods Class	1	Brass Methods Class	1
**Band, Orchestra, or Choir	0	**Band, Orchestra, or Choir	0	**Band, Orchestra, or Choir	0
Theory I	4	Theory I	4	Theory I	4
Religion	2	Religion	2	Religion	2
Freshman Comp.	3	Freshman Comp.	3	Freshman Comp.	3
European Civilization	3	European Civilization	3	European Civilization	3
Physical Education	½	Physical Education	½	Physical Education	½
<hr/> 16½		<hr/> 16½		<hr/> 16½	

SECOND YEAR

Applied Major	2	Applied Major	2	Applied Major	2
Woodwind Methods Class	1	Woodwind Methods Class	1	Woodwind Methods Class	1
Voice Methods Class	1	Voice Methods Class	1	Voice Methods Class	1
**Band, Orchestra, or Choir	1	**Band, Orchestra, or Choir	1	**Band, Orchestra, or Choir	1
Theory II	4	Theory II	4	Theory II	4
Music Literature	2	Music Literature	2	Music Literature	2
Religion	2	Religion	2	Religion	2
General Psychology	3	Educational Psych.	3	Prin. of Education	3
Physical Education	½	Physical Education	½	Physical Education	½
<hr/> 16½		<hr/> 16½		<hr/> 16½	

THIRD YEAR

Applied Major	4	Applied Major	4	Applied Major	4
String Methods Class	1	String Methods Class	1	String Methods Class	1
Percussion Methods Class	½	Percussion Methods Class	½	Percussion Methods Class	½
**Band, Orchestra, or Choir	1	**Band, Orchestra, or Choir	1	**Band, Orchestra, or Choir	1
Directed Teaching III	2	Directed Teaching III	2	Directed Teaching III	2
Form and Analysis	2	Form and Analysis	2	Form and Analysis	2
Religion	2	Religion	2	Religion	2
American Literature	2	American Literature	2	American Literature	2
Elective	½	Elective	½	Elective	½
<hr/> 15		<hr/> 15		<hr/> 15	

*These credits may be taken in any other subject provided an examination can be passed satisfactorily. On the other hand, study must be continued beyond these hours until satisfactory attainment has been reached.

**Ensemble is required for each year regardless of the number of credits accumulated. Voice majors must be in the choir, string majors must be in the orchestra, and brass and woodwind majors must be in the orchestra or band.

FOURTH YEAR

Applied Major	4
Piano Methods Class	1
*Band, Orchestra, or Choir	1
Orchestration	2
Instrumental or Choral Conducting	3
History of Music	3
Religion	2
<hr/>	
	16

Applied Major	4
Piano Methods Class	1
*Band, Orchestra, or Choir	1
Orchestration	2
Instrumental or Choral Conducting	3
History of Music	3
Religion	2
<hr/>	
	16

Applied Major	4
Piano Methods Class	1
*Band, Orchestra, or Choir	1
Orchestration	2
Instrumental or Choral Conducting	3
History of Music	3
Religion	2
<hr/>	
	16

Senior Recital

Bachelor of Arts—Music Major

A Bachelor of Arts with a major in Music is a non-professional curriculum having 24 credits in one applied instrument. A student must complete the requirements of the sophomore year in whatever applied instrument he chooses. The prerequisites for this curriculum are the completion of the preparatory work in the chosen major instrument and a natural gift for music.

Curriculum for Bachelor of Arts—Music Major

FIRST YEAR

Autumn Quarter	Credits
Applied Music	2
*Choir, Orchestra, Band, or Small Ensemble	0
Theory I	4
Music Literature	2
Religion	2
Freshman Composition	3
Language	3
Physical Education	$\frac{1}{2}$
<hr/>	
	$16\frac{1}{2}$

Winter Quarter	Credits
Applied Music	2
*Choir, Orchestra, Band, or Small Ensemble	0
Theory I	4
Music Literature	2
Religion	2
Freshman Composition	3
Language	3
Physical Education	$\frac{1}{2}$
<hr/>	
	$16\frac{1}{2}$

Spring Quarter	Credits
Applied Music	2
*Choir, Orchestra, Band, or Small Ensemble	0
Theory I	4
Music Literature	2
Religion	2
Freshman Composition	3
Language	3
Physical Education	$\frac{1}{2}$
<hr/>	
	$16\frac{1}{2}$

SECOND YEAR

Applied Music	2
*Choir, Orchestra, Band, or Small Ensemble	1
Theory II	4
Religion	2
History (European)	3
General Psychology	3
Physical Education	$\frac{1}{2}$
<hr/>	
	$15\frac{1}{2}$

Applied Music	2
*Choir, Orchestra, Band, or Small Ensemble	1
Theory II	4
Religion	2
History (European)	3
Educational Psych.	3
Physical Education	$\frac{1}{2}$
<hr/>	
	$15\frac{1}{2}$

Applied Music	2
*Choir, Orchestra, Band, or Small Ensemble	1
Theory II	4
Religion	2
History (European)	3
Prin. of Education	3
Physical Education	$\frac{1}{2}$
<hr/>	
	$15\frac{1}{2}$

*Ensemble is required for each year regardless of the number of credits accumulated. Voice majors must be in the choir, string majors must be in the orchestra, and brass and woodwind majors must be in the orchestra or band.

THIRD YEAR

Applied Music	2	Applied Music	2	Applied Music	2
*Choir, Orchestra, Band, or Small Ensemble	1	*Choir, Orchestra, Band, or Small Ensemble	1	*Choir, Orchestra, Band, or Small Ensemble	1
Form and Analysis, Counterpoint, Com- position or Orches- tration	2	Form and Analysis, Counterpoint, Com- position or Orches- tration	2	Form and Analysis, Counterpoint, Com- position or Orches- tration	2
Religion	2	Religion	2	Religion	2
Science	4	Science	4	Science	4
Health Principles	3	**Elective or Minor	5	**Elective or Minor	5
**Elective or Minor	2				
	16		16		16

FOURTH YEAR

Applied Music	3	Applied Music	3	Applied Music	3
Music History	3	Music History	3	Music History	3
Religion	2	Religion	2	Religion	2
Elective or Minor	7	Elective or Minor	7	Elective or Minor	7
*Choir, Orchestra, Band, or Small Ensemble	1	*Choir, Orchestra, Band, or Small Ensemble	1	*Choir, Orchestra, Band, or Small Ensemble	1
	16		16		16

Senior Recital

Bachelor of Arts—Music Minor

A Bachelor of Arts with a minor in music is offered to provide a non-professional background consisting of 30 hours. The prerequisite for the minor is the completion of the preparatory work in a chosen instrument.

Fundamentals of music will not count toward a minor. The requirements are:

	credits
Applied—A chosen instrument in which the prerequisite has been completed	6
History of Music	9
Theory I	12
Ensemble	3

*Ensemble is required for each year regardless of the number of credits accumulated. Voice majors must be in the choir, string majors must be in the orchestra, and brass and woodwind majors must be in the orchestra or band.

**The student should plan to meet the nine-hour requirement in Literature-Speech and Vocation during the third year.

THEORY AND COMPOSITION

1. *Fundamentals of Music*. May not be counted toward a major or a minor. A basic course intended to lay a foundation in the following: notation, rhythm, scales, key-signatures, chords, terms, form, sight-singing, and conducting. An elementary knowledge of the piano is beneficial but not a prerequisite. Two credits; autumn; T. Th., 7:30.

4-5-6. *Theory I*. Prerequisite: The ability to play hymns on the piano at sight. A composite course including harmony, keyboard harmony, diction, sight singing. Four credits; autumn, winter, spring; M.-F., 8:25.

51-52-53. *Theory II*. Prerequisite: Theory I. A composite course that continues the work begun in Theory I. Four credits; autumn, winter, spring; M.-F., 7:30.

*101-102-103. *Counterpoint*. A study of 16th century polyphony through an analysis of 16th century composition and written exercises in the various modes in the five species for two, three, and four voices. Two credits; autumn, winter, spring; T. Th., 10:15.

104-105-106. *Form and Analysis*. Prerequisite: Theory II. A study of the structure of music from the period to the sonata, rondo, and variation forms. Two credits; autumn, winter, spring; T. Th., 10:15.

151-152-153. *Orchestration*. A study of musical instruments and the art of arranging various compositions for full band or orchestra. Two credits; autumn, winter, spring; T. Th., 8:25.

*154, 155, 156. *Composition*. A study of the art of writing responses, hymns, anthems, and instrumental compositions in the smaller forms. Two credits; autumn, winter, spring; time arranged.

HISTORY AND APPRECIATION

57, 58, 59. *Survey of Musical Literature*. An appreciation and orientation course in the classics of musical literature. Two credits; autumn, winter, spring; M. W., 11:10.

157, 158, 159. *History of Music*. A course covering the development of music from its beginning through the Ancient, Medieval, Renaissance, Classical, Romantic, and Modern periods. Three credits; autumn, winter, spring; M. W. F., 10:15.

MUSIC EDUCATION

11-12-13. *Brass Methods*. A class in brass instruments is 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, Mellophone, French Horn, Trombone, Baritone, and Tuba*. Active participation in a training band constitutes a part of this course. One credit; autumn, winter, spring; time arranged.

*14-15-16. *Woodwind Methods*. A class conducted as an introduction to the teaching of such woodwinds as *Clarinet, Oboe, Flute, and Bassoon* with demonstrations of the class teaching of these instruments. One credit; autumn, winter, spring; time arranged.

17-18-19. *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. One credit; autumn, winter, spring; time arranged.

*Not offered 1953-1954.

*21-22-23. *Spring Methods*. A class in playing of *Violin, Viola, Cello*, and *Bass* as an introduction to the teaching of these instruments and as a demonstration of class teaching. One credit; autumn, winter, spring; time arranged.

24-25-26. *Percussion Methods*. Methods of teaching and instruction in the various percussion instruments. One-half credit; autumn, winter, and spring; time arranged.

27-28-29. *Piano Methods*. A class conducted as an introduction to the teaching of piano and will include the study of keyboard and pedal technique, sight reading, interpretation, and repertoire. One credit; autumn, winter, spring; time arranged.

55-56. *Music in the Elementary School*. Prerequisite: Fundamentals of Music or its equivalent. 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. Two credits; winter, spring; T. Th., 7:30.

*161-162-163. *Choral Conducting and Organization*. Tone production, baton technique and interpretation, and repertoire. Organization of choirs and choruses at different grade levels. Materials and methods. Concerts and Sabbath services. Practical experience in conducting various vocal organizations on the campus. Three credits; autumn, winter, spring; time arranged.

171-172-173. *Instrumental Conducting and Organization*. Baton technique, score reading, interpretation, repertoire, problems of material, instruction, tone quality, balance, organizing the music library, planning and conducting concerts, organization within the band and orchestra, point systems, grading, and other topics, practical experience in conducting various organizations on the campus. Three credits; autumn, winter, spring; time arranged.

CHURCH MUSIC

61, 62, 63. *Church Music*. A course designed primarily for students registered in the School of Theology but which is also open to music majors. The ministry of music in the various phases, relationship of the pastor with the church musician, study of evangelistic music. Attention is given to representative hymnody, solos, duets, trios, quartets and anthems, elementary conducting and choir organization. One credit; autumn, winter, spring; T., 8:25.

**CONDUCTING

7-8-9. *Conducting I*. Prerequisite: Fundamentals of Music (1). This course is particularly designed to meet the needs of those who wish to direct evangelistic, church, and community singing. One-half hour a week laboratory practice is required for which there is an accompanist fee of \$1.50 per period. One credit; autumn, winter, spring; Th., 1:00.

ENSEMBLE

All music students are invited to take advantage of the excellent opportunities offered in the various ensemble activities. Students majoring in voice or orchestral instruments are required to partici-

*Not offered 1953-1954.

**See courses listed under Music Education.

pate in their respective organizations each year that they are in residence regardless of the ensemble credits accumulated. Piano and organ majors are also required to take some type of ensemble each year of residence.

No student will be given credit for any single quarter of Choir, Band or Orchestra until he has completed satisfactorily the spring quarter's work.

VOCAL ENSEMBLES

31, 32, 33. *Elementary Vocal Ensembles*. The study and practice in combinations such as duets, trios, quartets, sextets, etc. Autumn, winter, spring; credit and time arranged.

64, 65, 66. *The Treble Clef Club*. Two, three, and four-part music for ladies' voices will be studied and performed in concert. One-half credit; autumn, winter, spring; T. Th., 9:20.

67, 68, 69. *The Male Chorus*. Original and arranged compositions for men's voices will be studied and performed in concert. One-half credit; autumn, winter, spring; T. Th., 9:20.

74-75-76. *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; M.-Th., 5:00.

107-108-109. *Advanced Vocal Ensemble*. The study and practice in combinations such as duets, trios, quartets, sextets, etc. Autumn, winter, spring; credit and time arranged.

INSTRUMENTAL ENSEMBLES

34, 35, 36. *Elementary Instrumental Ensembles*. These organizations consist of various combinations. Autumn, winter, spring; credit and time arranged.

77-78-79. *The Walla Walla College Concert Band*. This organization is composed of musicians from all departments of the College and from the community. Frequent secular and sacred concerts are given to the student body and community as well as performances in various cities. The repertoire includes brilliant military marches of Sousa, King, and others; orchestral transcriptions from such composers as Beethoven, Wagner, and Schubert; original symphonic compositions by Holst, Fauchet, Creston, and others. The woodwind color, the brilliance of the brass, and rhythm of the percussion makes the band an attractive organization. All college students of average music reading ability or better are encouraged to join. Auditions are required for the purpose of assigning chairs. Only those should apply who wish to do their part in building a fine band by being

present and on time at all rehearsals. One credit; autumn, winter, spring; A Band, M. W., 9:20; B Band, T. Th., 9:20; A and B Bands, F., 2:00.

81-82-83. *The Walla Walla College Little Symphony Orchestra.* This organization is made up of the best violinists, violists, violincellists and double bass performers of the college and community. The woodwind and brass performers represent the best soloists of the college band. 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. Public and radio concerts are given several times a year. Throughout the year 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; T. 4-6 and Th., 7:30-9:30 p. m.

111-112-113. *Advanced Instrumental Ensembles.* These organizations consist of various combinations that study and perform chamber music literature in concert and on radio programs. Autumn, winter, spring; credit and time arranged.

APPLIED MUSIC

Applied music credit is based on the amount of practice and the number of lessons taken. For each credit hour the student is expected to do a minimum of four hours practice a week. Two lessons a week are required for more than two hours credit.

Music majors are required to take lessons on their chosen instrument each year they are in residence regardless of the amount of credit accumulated.

Each student enrolled in applied music is requested to secure the approval of his teacher before taking part in any public programs.

Attendance at recitals is required of all majors and minors.

The minimum piano requirements for those majoring in Voice, Violin, Clarinet, Trumpet, Trombone, and other orchestral instruments are as follows:

Technique: Major and harmonic minor scales, one, two, three, and four notes to a beat; major, minor, diminished, and augmented triads; solid and broken arpeggios.

Repertoire: Easier classics of Bach, Clementi, Mozart, and Haydn; compositions by nineteenth and twentieth century composers; hymns.

Sight reading: Second-grade material.

PIANO

Prerequisite: The candidate will be expected to perform, to the satisfaction of the head of the piano department, technique, studies, and pieces comparable in difficulty and style to the following works:

TECHNIQUE:

Major and Minor scales legato and staccato, one, two, three, and four notes to a beat up to four octaves at a moderate tempo (M.M. quarter note = 80).

Major and Minor arpeggios in root position, first and second inversions legato one, two, three, and four notes to a beat up to four octaves at a moderate tempo (M.M. quarter note = 80).

STUDIES:

Czerny—Op. 299 Bk. I.

Heller—Op. 47

Bach—Little Preludes and Two-part Inventions

PIECES:

Haydn—Sonatas No. 11, No. 20 (Schirmer)

Mozart—Sonatas No. 3, No. 13 (Schirmer)

Beethoven—Sonata Op. 49, No. 1

Brahms—Waltzes

Piano I. Bach, Two or Three Part Inventions, a Prelude and Fugue, movements from the French and English Suites; Beethoven, Sonata, Op. 14, No. 1; Romantic and Modern selections such as Mendelssohn's Songs Without Words.

Piano II. Bach, a continuation of Inventions, Suites, Preludes and Fugues; Beethoven, Sonatas such as Op. 2, No. 1, and Op. 26, Concertos such as the C Major or C Minor; Mendelssohn, Concerto in G Minor; chopin, Polonaise in C Sharp Minor, Waltz in E Minor; Schumann, Bird as Prophet; other Romantic and Modern selections of similar difficulty.

Piano III. Bach, Preludes and Fugues, Suites, Partitas; Beethoven, Sonatas equal to Op. 31, No. 3; Chopin, Etudes, Nocturnes, Preludes, Polonaises; other Romantic and Modern selections.

Piano IV. Bach, transcriptions of organ works by Busoni, Tausig, Liszt; Beethoven, Sonatas equal to Op. 53, Op. 57; Chopin, Etudes, Ballades, Scherzi; Liszt, Rhapsodies, Etudes; Schumann, Sonata in G Minor, Concerto in A Minor; selections by Debussy, Ravel, Prokofieff, Shostakowitch, Kabelevsky, etc.

ORGAN

Prerequisites:

The candidates will be expected to perform, to the satisfaction of the head of the organ department, technique, studies and pieces comparable in difficulty and style to those listed under piano prerequisites.

Organ I. Organ instruction book: Preparatory manual and pedal exercises. Dupre: Choral Preludes. Bach: Short Preludes and Fugues. Easier movements from the sonatas of Mendelssohn, Guilman, and Rheinberger. Selections by other standard composers. Hymns.

Organ II. Continuation of technical studies to suit individual needs. Dupre: Chorale Preludes. Rheinberger: Trios. Bach: Choral Preludes from the Orgelbuchlein; Fugue in G Minor. Franck: Fantasia in C Major. Sonatas and other selections from the standard organ repertoire.

Organ III. Bach: Toccato and Fugue in D Minor; Chorale Preludes. Franck: Cantabile; Pastorale. Guilman: Sonata in D Minor. Boellman: Gothique Suite. Other compositions that are comparable in difficulty.

Organ IV. Bach: Chorale Preludes; Fantasia and Fugue in G Minor; Prelude and Fugue in D Major. Franck: Chorales; Piece Heroique. Widor: Fifth Symphony.

VOICE

Prerequisites: Possession of a good voice, ability to read and sing a simple song at sight and on pitch, ability to sing a folk song, a patriotic song or a hymn from memory to demonstrate voice, instinctive interpretive ability and sense of rhythm.

Voice I. Classification of the voice, procedures leading to correct tone production, and simple classics and contemporary songs to assist tone production through articulation and interpretation. Study is given to the form and content of representative song material and to the easier arias and recitatives from the major oratorios.

Voice II. Continuation of technical studies for development of the individual qualities of the voice. Additional songs, recitatives and arias from standard oratorios and operas.

Voice III. German songs from Schubert, Schumann, R. Strauss, Beethoven, Grieg, and others, songs in English from Lully, Handel, Tschaikovsky, Rachmaninoff, Campbell-Tipton, Charles, Malotte and others; Italian and French songs from leading composers.

Voice IV. Continuation of French, German, and Italian diction is required. Additional songs in English, French, German, and Italian are selected from the composers' best works; selected recitatives, arias and solos from other standard composers. Preparation of program for graduation recital, appearance as soloist with the College orchestra upon recommendation of the Conservatory faculty. At the end of four years, the student should have a repertoire of at least one hundred well-learned songs, many of which are memorized.

VIOLIN

Prerequisites:

Before entering the freshman year, students must be prepared to be examined in any of the following preparatory materials:

Kayser Etudes Op. 20, bk. 2; Rode Caprices, Dont, Op. 37 and 38; Seitz Concertos; Rode Concerto Nos. 4, 7; Major and Minor Scales in 1st-5th positions.

Violin I. Etudes: Kretzer; Rode Caprices; *Sonatas:* Handel Tartini in G Minor; *Concertos:* Sphor Nos. 2, 6, Viotti Nos. 22, 23, Mozart A Major.

Major and Minor three octave scales; also thirds; sixths, simple octaves, and tenths.

Violin II. Etudes; Dont, Op. 35; Cavinies 24 Matinees; *Concertos:* Bach, A Minor; Vivaldi, A Minor and G Minor; Nardini; Mozart, D Major and E-flat Major.

Three octave scale plus arpeggios up to C in 4 octaves: Continue thirds, sixths, tenths.

Violin III. Etudes: Bach Sonatas for Violin alone; Paganini Caprices; Wieniawski Modern School Op. 10. *Concertos:* Wieniawski No. 2; Bruch G Minor; Mendelssohn; Saint-Saens B Minor; Lalo Spanish Symphony; Sphor Nos. 8 and 9.

Violin IV. Bach Sonatas for Violin alone; Paganini Concerto; Ernst, F-sharp Minor; Bruch, D Minor; Beethoven; Brahms; Beethoven and Franck Sonatas.

He should further demonstrate adequate ability in sight reading and should be able to sight read simple piano accompaniments.

CLARINET

Clarinet I. Rose: Forty Studies. Langenus: Virtuoso Studies. Langenus: Scale Studies. Weber: Concertino; Fantasy and Rondo.

Clarinet II. Rose: Twenty Studies after Rode. Jeanjean: Twenty-five Studies. Perrier: Thirty Studies after Bach, Handel, Dont, etc. Orchestra studies. Weber: Concerti.

Clarinet III. Jeanjean: Eighteen Studies. Perrier: Collection of Twenty Sonatas. Orchestra Studies. Brahms: Sonati.

Clarinet IV. Jeanjean: Sixteen Studies in the Modern Style. Perrier: Twenty-two Studies in the Modern Style. Continue Twenty Sonatas. Bach: Four Sonatas arranged for clarinet by Corroyez. Spohr and Mozart: Concerti. Debussy: Rhapsody for Clarinet.

TRUMPET

Trumpet I. The prerequisite for this course is an embouchure already well formed approximately in the center of the mouth with no physical characteristics which would impair ultimate potential achievement. The emphasis in this grade is upon a review, if necessary, of material listed in the Preparatory Department with the purpose of acquiring a correct and lasting command of the fundamental skills. The adaptation and study of a daily practice routine suitable to each individual, using additional material by introduction to transposition by clefs.

Trumpet II. Concentration upon basic technique; slurs, scales, chords, intervals, single, double and triple articulations in the cycle of major and minor keys—using standard works such as Arban, St. Jacone and Clarke.

The development of tone production and its application to a variety of styles, using as material vocalises, lieder of Schubert, Brahms, Schumann and others, and melodic studies by Duhem. Continued study of transposition by clef using the Williams School of Transposition and orchestral trumpet parts.

Trumpet III. The study of etudes from more advanced sections of Wurm, Laurent, Chavanne, Fricke, Clarke, Petit, Arban and St. Jacone. Solo repertory by Goedicke, Scriabin, Wormser, Busser, Fitzgerald, Vidal, Barat, Goeyens and Boeck.

Continuation of transposition by clef.

Trumpet IV. Advanced etudes by Charlier, Clarke, Pietzsch, Laurent, Petit, and others. Concerti and Sonatas by Pilsas, Feldman, Goedicke, Fitzgerald, Haydn, Hindemith. Intensive concentration upon transposition by clef, using Etudes of Sachse and orchestral trumpet parts.

TROMBONE

Trombone I. Clet work covering all scales and chords; intensive study of slurs and legato playing for relaxation of embouchure; exercises in breath control; exercises in surety of attack in various intervals; songs and standard solos. Muller, King, Blume methods. Rochut, Book I.

Trombone II. Additional clef work; pieces for two or more trombones; special transcriptions of vocal technical studies. Lafosse, Blume, Rochut, Book II, Muller, Blasewitsch methods.

Trombone III. Advanced technical studies; intensive study of orchestra parts. Group playing. Couillaud; Rochut, Book No. 3; Blusser, Blume, Lefosse methods.

Trombone IV. Study of the "F" trombone; advanced studies in passing from one clef to the other; etudes in all rhythms and styles; concertos by Bigot, Salzedo, Saint-Saens, Stojowski; Flandrin method; Blasewitsch studies; symphonic works.

NON-DEPARTMENTAL

0. *Freshman Lectures.* A course designed to help the incoming freshman evaluate himself, develop adequate methods of study, improve his reading habits, and explore his vocational possibilities. No credit; autumn; M., 9:20.

1. *Remedial Reading.* Freshmen students, who fail to meet a specified minimum score in the Reading Test, are required to register for the course in remedial reading. Emphasis is given to increasing the student's rate of comprehension and speed in reading. One-half credit; autumn; T., 7:30.

4, 5, 6. *Driver Education.* A course designed to develop sound habits of safe driving. In the classroom the student will learn how an automobile is put together, how it runs, what makes a good driver, the serious responsibility of driving, courtesy and sportsmanship in driving. On the road, behind the wheel of a dual-control practice car, the student will get actual practice. One-half credit; autumn, winter, or spring; time to be arranged.

14, 15, 16. *Health Principles.* A study of the healthy, wholesome personality including the underlying principles governing the harmonious development of the human body. It includes our denominational health principles and stresses both personal and community health. Three credits; autumn, M. W. F., 10:15; winter, M. W. F., 10:15; spring, M. W. F., 8:25.

21-22-23. *Medical Cadet Corps Basic and Technical Training.* While accorded non-combatant status, Seventh-day Adventists believe in serving their country in any capacity which does not include the active bearing of arms. This course is intended to prepare young men to render acceptable service to their country along non-combatant lines. Principles of first aid; instruction in the care of the wounded; personal and camp hygiene; close order, physical, and litter drill. One credit; autumn, winter, spring; T., 2:00-5:00.

33. *Photography.* A practical short course designed to acquaint the student with the basic principles involved. Both color and black and white processes will be presented. The theory and practice of exposure, development, contact printing and enlarging, and basic principles of photo-chemistry. Study of various types of equipment. Student must furnish his own camera. One hour lecture and three hours laboratory. Two credits; spring; to be arranged.

41-42-43. *Library Methods.* Instruction in 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; T. Th., 1:00

71, 72, 73. *Medical Cadet Corps Advanced Course.* Men in this class act as the non-commissioned officers of the beginning class. Instruction in the art of leadership, commanding, and administration. Prerequisite; Medical Cadet Corps 21-22-23. Basic conditioning is advised. One-half credit; autumn, winter, spring; T., 2:00-5:00.

AERONAUTICAL INSTRUCTION

1. *Ground School Training* in connection with course 1A. 116 hours instruction. Four credits; autumn, winter, or spring. Time arranged. Tuition \$81.20.

1A. *Flight Training*. Maximum of 40 hours flight instruction. Open only to students who, upon application to the president, are admitted to the training. One credit. Tuition maximum \$496.50.

PHYSICAL EDUCATION AND RECREATION

Mr. Winter

The aim of the Physical Education Department is to develop the physical well being of the individual by providing activities which stimulate the habit of regular exercise, and develop a reasonable skill and interest in activities which may be enjoyed after graduation; thereby equipping the individual with the methods of keeping his body physically fit throughout life.

All students using the gymnasium must wear gymnasium shoes and suits. Suits are purchasable at the time the student enters the class.

Requirements for a Major in Physical Education.

	Credits
a. Anatomy & Kinesiology	6
Techniques in P. E.	6
Theory of Play	3
Foundations of P. E.	3
*Dir. Teaching and Methods in P. E.	6
Seminar	2
Activity courses (elective)	3
Administration of Secondary P. E.	6
Elective credits in P. E. in addition to above	10
	—
	45
b. Anatomy, Physiology and Health (Biology 52-53)	12
c. Physical Education majors are required to have a double minor. A second major would automatically satisfy this requirement.	

Requirements for a Minor in Physical Education.

27 credits including courses 84, 85, 86 and 97, 98, 99 plus 9 hours of upper division.

Bachelor of Science—Curriculum in Physical Education

The following suggested curriculum will give a student a Bachelor

*This can be counted on an Education minor; if so, the student should plan on taking 16 elective credits in P.E.

of Science degree with a major in Physical Education and a minor in Education. Biology is suggested as the second minor.

FIRST YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Religion	2	Religion	2	Religion	2
Freshman Composition	3	Freshman Composition	3	Freshman Composition	3
Language	3-5	Language	3-5	Language	3-5
Literature	3	Anat., Phys., & Hlth.	6	Anat., Phys., & Hlth.	6
History	3	History	3	History	3
Basic P. E.	1½	Activity Elective	1½	Activity Elective	1½
Elective	½				
	—		—		—
	15		17½		17½

SECOND YEAR

Religion	2	Religion	2	Religion	2
Anat. & Kinesiology	2	Anat. & Kinesiology	2	Anat. & Kinesiology	2
Techniques in P. E.	2	Techniques in P. E.	2	Techniques in P. E.	2
Gen. Psychology	3	Ed. Psychology	3	Prin. of Education	3
**Language or Elec.	3	Language or Elec.	3	Language or Elec.	3
Electives	3	Elective	3	Elective	3
Swimming & Diving	1	Life Saving	1	Water Safety	1
	—		—		—
	16		16		16

THIRD YEAR

Religion	2	Religion	2	Religion	2
Theory of Play	3	Foundations of P.E.	2	Campcraft & Man.	3
Vocational	3	Community Rec.	3	Vocational	3
Education	3	Vocational	3	Education	3
Elective	5	Education	3	Elective	5
	—	Elective	3		—
	16		16		16

FOURTH YEAR

Religion	2-3	Religion	2-3	Religion	2-3
Dir. Teaching III	2	Dir. Teaching III	2	Dir. Teaching III	2
Education	3				
Methods	1	Seminar	1	Seminar	1
Adm. Sec. P.E.	2	Adm. Sec. P.E.	2	Adm. Sec. P.E.	2
Electives	5-6	Electives	8-9	Electives	8-9
	—		—		—
	16		16		16

1. *Basic Physical Education.* Calisthenics, simple drills, games and contests, ability tests and developmental exercises. One-half credit; autumn; Men, Sec. A, M. W., 11:10; Sec. B, M. W., 5:00; Sec. C, T. Th., 11:10. Women, T. Th.; Sec. A, 8:25; Sec. B, 10:15; Sec. C, 4:00.

7, 8, 9. *Restricted Physical Education.* One-half credit; autumn, winter, spring; time arranged.

**If it is not necessary for a student to take the second year of language, work on a second minor is suggested.

**ACTIVITY COURSES

The remainder of the Physical Education requirements may be selected from the following activity courses. The beginning courses will deal with rules, nomenclature and special techniques of the activity as well as considerable time in actual participation in the activity. Advanced students will be held responsible for all the requirements of the beginners and display superior ability to qualify for the advanced class.

2. *Basketball*. Winter; Men, T. Th., 11:10; Women, Sec. A, T. Th., 10:15; Sec. B, T. Th., 4:00.

3. *Archery*. Spring; T. Th., 3:00.

5. *Skiing*. Winter; time arranged. Student must carry personal accident insurance.

6. *Baseball*. Spring; M. W., 3:00.

17, 18, 19. *Weight Lifting*. Autumn, winter, spring; time arranged.

24, 25, 26. *Badminton*. Autumn, winter, spring; Men, M. W., 8:25; Women, T. Th., 5:00; Men and women, M. W., 1:00.

27, 28, 29. *Beginning Tumbling*. Men, autumn, winter, spring; M. W., 8:25.

31, 32, 33. *Beginning Swimming*. Women, autumn, winter, spring; Sec. A, T. Th., 2:00; Sec., B, M. W., 10:15. Men, autumn, winter, spring; Sec. A, T. Th., 10:15; Sec. B, M. W., 3:00.

34. *Touch Football*. Autumn; M. W., 3:00.

35. *Beginning Tumbling*. Women, winter; T. Th., 10:15.

36. *Tennis*. Spring; Women, T. Th., section A, 8:25; B, 10:15. Men M. W., section A, 8:25; B, 10:15.

37, 38, 39. *Tumbling and Apparatus*. Autumn, winter, spring; time arranged.

41, 42. *Beginning Trampoline*. Autumn, winter; time and credit to be arranged.

43. *Softball*. Spring; Men, Sec. A, M. W., 11:10; Sec. B, T. Th., 11:10; Women, Sec. A, T. Th., 10:15; Sec. B, T. Th., 4:00.

44, 45. *Volleyball*. Autumn, winter; Men, Sec. A, M. W., 4:00; Sec. B, M. W., 10:15; Women, T. Th., 3:00.

47, 48. *Roller Skating*. Women, autumn, T. Th., 3:00; winter, T. Th., 7:30.

52. *Advanced Skiing*. Winter; time arranged.

53. *Advanced Archery*. Spring, T. Th., 3:00.

54, 55, 56. *Swimming*. Autumn, winter, spring; Men, T. Th., 8:25; Women, M. W., 8:25.

58. *Advanced Basketball*. Winter; Men, M. W., 4-6 and time arranged.

59. *Advanced Baseball*. Spring; M. W., 4:00.

**Activity courses carry one-half hour credit, with the exception of Skiing which is one credit. Majors or minors in P.E. may make arrangements for one hour credit in these courses.

- 64, 65, 66. *Advanced Swimming*. Men, autumn, winter, spring; M. W., 2:15; Women; autumn, winter, spring; T. Th., 3:00.
- 68, 69. *Advanced Tumbling*. Winter, spring; time arranged.
- 82, 83. *Life Saving*. Winter, spring; time arranged.
89. *Water Safety*. Spring; time arranged.
- 95, 96. *Advanced Tumbling and Apparatus*. Winter, spring; time arranged.

THEORY COURSES

*84, 85, 86. *Applied Anatomy and Kinesiology*. Review of anatomy, study of joint and muscular mechanism, leverage, gravity and resistance as they pertain to physical activity. Two credits; autumn, winter, spring; T. Th., 7:30.

*91, 92. *Problems in Teaching Elementary Physical Education*. Study given to the physical education program of the elementary grades. Coordination of physical education and Junior Progressive classwork. Actual experience with juniors in form of hiking, campcraft, nature study, etc. Two credits; autumn, winter; T. Th., 11:10.

*94. *First Aid and Training Course*. Conditioning for activity; massage; bandaging, taping; first aid. Three credits; autumn; time arranged.

*97, 98, 99. *Techniques in Physical Education*. A course outlined to develop basic skills in tumbling apparatus and various sports activities in the field of physical education. Autumn, winter, spring; 2 credits; T. Th., 1:00-4:00.

*102. *Foundations of Physical Education*. A study of the principles upon which a program of physical education should be based. Three credits; winter; M. W. F., 7:30.

104. *Theory of Play*. A course outlined to provide a basis for the need of recreational activity for all age groups. Three hours; autumn; M. W. F., 7:30.

**105. *Community Recreation*. A course intended to fill the need for recreational leadership among our young people. Intensive study of recreational problems among our youth. Three credits; winter; M. W. F., time arranged.

123. *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; M. W. F., time arranged.

124, 125, 126. *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. Various hobby crafts, such as, leathercraft, plastic craft, wood carving, textile painting, lapidary, and others, will be offered. Two credits; autumn, winter, spring; one hour lecture, three hours laboratory; M. W., 4:00-6:00.

153. *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 123. Prerequisites: Course 123 and permission of instructor. Two credits; spring; time arranged.

*174, 175, 176. *Recreational Leadership*. Practical recreation direction in connection with the community recreation program of College Place. Two credits limit; autumn, winter or spring; three hours laboratory; arranged.

*Offered only when school year ends on odd number.

**Offered only when school year ends on even number.

*181, 182, 183. *Administration of Secondary Physical Education*. Study of problems in schedules, organization, group activities and testing needed on the secondary level. Two credits. Two classes per week with laboratory work in the form of actual supervision of academy physical education classes. Autumn, winter, spring; T. Th., 1:00.

187. *Summer Camps*. A summer course outlined to give practical work in actual camp situations in connection with our denominational camps. Open to Physical Education majors and minors and Recreational Leadership minors only. Two to five credits; two to six weeks in summer by arrangement.

192, 193. *Seminar in Physical Education*. Prerequisite: Senior standing. A study of the modern trends in physical education. Group discussion and presentation of current material in the field. One hour attendance per week. One credit; winter, spring; time arranged.

197. *Methods of Teaching Physical Education*. One credit; one hour lecture per week; time arranged.

PHYSICS

Mr. Brown, Mr. Brinker

Major students are required to take courses 101, 101A, 102, 102A, 103, 103A, 152-153, 161, 162-163, and Mathematics courses 21, 22, 23, 51-52-53, 161, 162, and are advised to take Mathematics 163. Physics majors should elect Industrial Arts 74-75-76 for their vocational requirement.

*22. *Survey of Physics*. A short course covering the basic elements of mechanics, heat, light, sound, and electricity. Most of the time is spent on practical aspects of interest in the home and the school room. Designed for students working for the General Certificate and does not apply on a Physics major or minor. Four credits; winter; M.-Th., 10:15.

51, 52, 53. *General Physics*. An introductory course in mechanics, heat, electricity, sound, light, and atomic physics. Designed to give the science and engineering major a preparation for his future work and to give the general student more profitable contacts with his physical environment. Basic mathematical principles are emphasized. Prerequisite: Mathematics 21 and 22 or equivalent. Physics 51 prerequisite for 52 or 53. Four credits; autumn, winter, spring; M.-F., Sec. A, 8:25; Sec. B, 10:15. Tuesday or Thursday period is used for discussion and drill work. Three hours laboratory per week.

101. *Electricity and Magnetism*. A course in the basic principles of electricity, magnetism, and circuit analysis, presented with particular reference to the needs of students who will do advanced work in physics or who will take Mechanical Engineering 161. Prerequisite: 51, 52, 53, and Mathematics 51-52-53. Four credits; autumn; M.-Th., 11:10.

*Not offered 1953-1954.

**Offered only when school year ends on even number.

101A. *Electrical Measurements*. A laboratory course accompanying 101 to familiarize the student with apparatus and techniques for the basic direct and alternating current measurements. Two credits; autumn; M. W., 2:00-5:00.

102. *Electronics*. Emphasis is placed on the principles basic to the operation of electron tubes and to the applications of electron tubes in rectifiers, amplifiers, oscillators, and detectors. Prerequisite: 101 and 101A or equivalent. Four credits; winter; M.-Th., 11:10.

102A. *Electronics Laboratory*. A laboratory course integrated with 102. The student designs, constructs and tests rectifiers, amplifiers, oscillators, detectors, and other electronic devices. Two credits; winter; M. W., 2:00-5:00.

103. *Atomic Physics*. A course designed to acquaint the student with the modern understanding of atomic structure and with recent developments in nuclear physics. Prerequisite: 51, 52, 53 and Mathematics 51-52-53. Four credits; spring; M.-Th., 11:10.

103A. *Atomic Physics Laboratory*. A laboratory course to accompany 103, in which the student performs some of the classical experiments in electron and nuclear physics. Prerequisite: 101, 101A, 102. Two credits; spring, M. W., 2:00-5:00.

112. *Heat*. A course in the elementary principles of temperature and heat measurement, kinetic theory, change of state, and thermodynamics. Prerequisite: 51, 52, 53 and Mathematics 51-52-53. Four credits; winter; M.-Th., 10:15.

112A. *Heat Laboratory*. A laboratory course to accompany 112. Two credits; winter; T. Th., 2:00-5:00.

*152-153. *Theoretical Mechanics*. A mathematical course covering the basic principles of force, work, motion, energy, and the statics and dynamics of particles and rigid bodies. Prerequisite: Mathematics 51-52-53, and Physics 51. Three credits; winter, spring; M. W. F., 10:15.

161, 162-163. *Optics*. The basic elements of geometrical and physical optics. Reflection, refraction, dispersion, diffraction, interference, polarization, spectra, and a brief treatment of the electromagnetic and quantum theories of radiation. Prerequisite: 51, 52, 53 and Mathematics 51-52-53. Three credits; autumn, winter, spring; T. Th., 10:15; laboratory, W., 2:00-5:00.

177. *Special Problems in Physics*. Under the direction of the instructor the student does independent study or carries out laboratory investigations on selected advanced topics. Registration only on permission of the instructor. Credit arranged.

197. *Methods of Teaching Physics*. The student assists with a laboratory section in General Physics or does practice teaching in secondary school physics. Registration only upon permission of the supervising instructor. One to three credits; time arranged.

POLITICAL SCIENCE

Mr. Westermeyer

52. *American Government.* A study of the origin and establishment of our national government; its executive, legislative, and judicial functions with emphasis on church-state relations and the position of the United States as a world power. State and municipal governments also receive consideration. Three credits; winter; M. W. F., 1:00.

*102. *Comparative European Governments.* A study of the Political developments of the major European states, with emphasis placed on contemporary problems. Prerequisite: History 1, 2, 3. Three credits; winter; M. W. F., 10:15.

152. *World Politics and International Relations.* A study of the political objectives of imperialistic nations, the clash of modern ideologies, 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; M. W. F., 10:15.

153. *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. A workshop will be conducted as an integral part. Three credits; spring; T. Th., 8:25 plus workshop.

SPEECH

Mr. Prall.

Departmental Requirements

Major: 45 Credits, including 24 credits in the upper division. Required: Speech 1-2-3, 151, 152, 153, 197, 198. In addition, all senior students must demonstrate a reasonable degree of platform proficiency in public speaking and reading. Two minors in accepted fields are required.

Speech 85-86-87 does not apply on a major. May apply on minor if student's major field is elementary education.

Minor: 27 credits, including Speech 1-2-3 and 9 credits in the upper division.

A reasonable number of credits from the following courses may be applied toward the major: 3 credits in Voice, Education 42, Journalism 106, and Religion 141-142-143, 181-182-183. However, permission to make such use of these credits must be secured from the Head of the Speech Department before the courses are taken.

*Not offered 1953-1954.

Equipment and Facilities

The Department of Speech is equipped with tape recorders, a standard Presto disc recorder, and a public address system, with facilities for broadcasting from a sound-proof studio over KUJ, Walla Walla's 5000-watt Mutual station. The Radio Club is an affiliate of the Inter-Collegiate Broadcasting System and operates its own limited broadcast campus radio station, with remote lines from Columbia Auditorium, the Village Church, Conard Hall Dining Room, the Music Conservatory, the College Chapel, and Sittner Hall Worship Room.

Speech Correction

Introductory work in the field of speech correction, including private assistance in the treatment of speech disorders is available by arrangement with the head of the Department of Speech.

1-2-3. *Essentials of Speech.* An introduction to the procedure of public speaking with emphasis on the acquirement of ease before an audience, a conversational attitude, and reasonable facility in pronunciation, articulation, and voice production. Open to freshmen. Two credits; autumn, winter, spring; T. Th., Sec. A, 7:30; Sec. B, 10:15; Sec. C, 11:10.

51. *Parliamentary Procedure.* The theory and practice of parliamentary law, with much participation by all class members in an actual organization. Projects include the forming of a temporary and permanent organization, and the writing of a constitution. Two credits; autumn; T. Th., 8:25.

52. *Discussion and Debate.* The theory and methods of group discussion; practice in forums, committee meetings, panels; the essentials of public debate; practice in research, analysis, organization, delivery. Two credits; winter; T. Th., 8:25.

53. *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; spring; T. Th., 8:25.

85-86-87. *Teacher's Speech.* A course designed especially for those working for the General Certificate. Some practice in the organization and delivery of speeches. Emphasis is placed on the development of a fluent, pleasing speech style. Opportunity is allowed for the student to observe and conduct group and individual therapy in the improvement and correction of minor speech disorders. Two credits; autumn, winter, spring; T. Th., 1:00. Clinic time arranged.

111. *Speech Composition.* A comprehensive treatment of speech organization, content, and delivery. Three credits; autumn; M. W. F., 10:15.

112. *Persuasive Speaking.* Logical aspects: A study of analysis and investigation of supporting material; participation in group discussion for problem

solution, organization of a persuasive campaign. Psychological aspects: A study of the value and practice of emotional content in persuasive speaking. Three credits; winter; M. W. F., 10:15.

113. *The Short Speech*. The organization and delivery of various types of occasional speeches. Among those forms studied are speeches of introduction, welcome, response, presentation, acceptance and farewell. Three credits; spring; M. W. F., 10:15.

*151 *American Phonetics*. A study of the sounds of general American speech. Special consideration is given to pronunciation standards. Three credits; autumn; M. W. F., 11:10.

*152. *Voice Science*. Anatomical, physiological and acoustical characteristics of normal speech and hearing mechanisms. Three credits; winter; M. W. F., 11:10.

*153. *Introduction to Speech Correction*. A detailed analysis of the causes, symptoms, and remedial treatment of all types of minor speech defects. Introduction to speech pathology and clinical practice in speech correction. Three credits; spring; M. W. F., 11:10.

161, 162, 163. *Radio Production*. A study of microphone technique, practice in announcing, and preparation and presentation of programs for broadcasting. Practical experience in announcing programs prepared for the campus radio station and for the Walla Walla stations. Prerequisite: 1-2-3. Three credits; autumn, winter, spring. M. W. F., 8:25; laboratory arranged.

194, 195, 196. *Projects in Speech*. A course designed to offer the advanced student opportunity to pursue investigation in special fields under the direction of the head of the Department of Speech. One or two credits each quarter; autumn, winter, spring; time arranged.

197, 198. *Methods in Teaching Speech*. Experience in conducting laboratories for speech classes in which the principles of teaching speech are studied. Prerequisite: 18 credits of speech, including 1-2-3. Two credits; autumn, winter; time arranged.

PART VIII

The School of Nursing

Mr. Hanson, Mrs. Jones, Miss Emery, Miss Stratton, Miss Gowan, Miss Sumner, Miss Wimer, Miss Baer, Miss O'Neil, Mrs. Boech, Miss Stafford, Miss Young, Miss House, Miss Downey, Miss Kempf, Miss DeMerice, Miss Leazer, Mrs. Braun, Miss Wadsworth, Mrs. Cowie, Mrs. Boose, Miss Schevesky

In recent years the level of nursing education has been steadily rising. Nursing leaders have recommended that the term "Professional" when applied to nursing education be restricted to nursing schools operated by schools of higher learning. Walla Walla College School of Nursing is a collegiate nursing school which offers the Pre-clinical and Post-clinical work on the College Campus, and the clinical work at Portland Sanitarium and Hospital.

Organization

The curriculum in Nursing has been so organized that it may be completed in four calendar years. Five quarters are spent on the college campus and eleven quarters on the Sanitarium campus. Upon the completion of the required curriculum, the student is eligible to write the denominational examinations and the State Board examinations for the R.N. and will receive the degree of Bachelor of Science with a curriculum in Nursing.

During the five quarters of the course at the College Campus Division, the students of the School of Nursing are subject to all the general regulations of the College. The academic year, periods of examinations, etc., run concurrently with those of the College, and all its facilities for study and manual work are at the disposal of the school. During the eleven quarters at the Hospital Division, the members of the School of Nursing are under the direction of the college faculty at Portland Sanitarium and Hospital.

Accreditation

The School of Nursing has been approved as a member of the *Association of Seventh-day Adventist Colleges and Secondary Schools*, as an accredited school by the *Washington State Board of Professional Nurse Registration*, and the request for five year *national accreditation* of the School of Nursing has been granted by the *National Nursing Accreditation Service*. In addition, the clinical division of Walla Walla College School of Nursing at Portland Sanitarium and Hospital is approved by the *American College of Surgeons*, the *American*

Medical Association, the American Hospital Association, and the Council on Medical Education and Hospitals for the American Medical Associations for Internships.

Admission

Admission to the School of Nursing is granted by the Admissions Committee of the College, and the requirements for admission are the same as for the College. See page 26. Completion of the first three quarters' work at the Campus Division does not automatically admit the student to the Hospital Division. Students who have not completed two units of modern language in a secondary school, will be required to make up this deficiency by taking 15 credits of modern language in college in addition to the regular course. One unit of geometry is also required.

Nursing classes will enter the Hospital Division of the School twice per year on the first Monday in February and August. Students who have received their college preparation in other colleges should plan to have their credits sent to Walla Walla College. Their acceptance to the Hospital Division will then be considered by the College Admissions Committee.

Walla Walla College School of Nursing admits qualified men students in both its college and hospital divisions. The regular program of studies is adjusted to meet the educational needs of the man student. Many men are now being attracted to the nursing profession since nursing has become a part of the college program. There are ever-increasing opportunities for well-qualified men in mission fields, colleges, and medical specialties.

"The Lord wants wise men and women, who can act in the capacity of nurses."—*Counsels on Health*, p. 388.

Bachelor of Science—Nursing Curriculum

Sixteen quarters' work as prescribed in the Bulletin of the School of Nursing are required for graduation. A C average in the College Division and a C average in the Hospital Division are also required. Nursing students should be prepared to pass an examination in arithmetic upon entering college.

Five curriculums are offered to meet the various needs of students interested in the field of nursing as follows:

- I. The collegiate nursing program with basic courses leading to the Bachelor of Science degree with a curriculum in Nursing.

- II. Course outline for pre-nursing students who wish to transfer to the Collegiate degree in nursing.
- III. Curriculum for graduate nurses who have completed pre-nursing and desire a degree with a curriculum in nursing education.
- IV. Course outline for graduate nurses who have not had pre-nursing and who wish a degree in nursing education.
- V. Course outline for graduate study in nursing on a Master of Arts degree in Education.

CURRICULUM I

Bachelor of Science—Nursing Curriculum

College Campus Division

FIRST YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Religion	2	Religion	2	Religion	2
Freshman Comp.	3	Freshman Comp.	3	Freshman Comp.	3
Microbiology	5	Anat., Phys., & Hlth.	6	Anat., Phys., & Hlth.	6
Nurse's Chemistry	3	Nurse's Chemistry	3	Nurse's Chemistry	3
General Psychology	3	Survey of Sociology	2	Survey of Sociology	2
Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$
	<hr/> 16 $\frac{1}{2}$		<hr/> 16 $\frac{1}{2}$		<hr/> 16 $\frac{1}{2}$

Hospital Division

4th Quarter	Credits	5th Quarter	Credits	6th Quarter	Credits
Prin. of Nurs. Arts	9	Medical Nursing	3	Medical Nursing	2
Physical Therapy	4	(Integ. appl. phys. ther.)		Surgical Nursing	3
Foods & Nutrition	3	Surgical Nursing	2	(Integ. appl. phys. ther.)	
Prac. in Nurs. Arts & Clin. Instruc.	2	Diet Therapy	3	Pharmacology	2
	<hr/> 18	Pharmacology	3	Social Problems	3
		Med. Nurs. Prac.	5	Surg. Nurs. Prac.	5
		Spir. Min. in Nurs. Care	2	Spir. Min. in Nurs. Care	2
			<hr/> 18		<hr/> 17
7th Quarter	Credits	8th Quarter	Credits	9th Quarter	Credits
Med. & Surg. Spec.	6	Comm. Dis. Nurs.	3	Comm. Nurs.	3
Operating Room		Med. Nurs. Prac.	5	Obstetric Nursing	4
Tech. & Prac.	5	(incl. Diet Th. & Phys. Th. Prac.)		Obstet. Nurs. Prac.	5
Fund. of Christian Belief	2	Fund. of Christian Belief	2	Fund. of Christian Belief	2
	<hr/> 13		<hr/> 10		<hr/> 14
10th Quarter	Credits	11th Quarter	Credits	12th Quarter	Credits
Psychiatric Nursing	4	Pediatric Nursing	4	Tuberculosis Nursing	2
Psych. Nurs. Prac.	6	Intro. Child Behavior	2	Tuberc. Nurs. Prac.	3
	<hr/> 10	Pediatric Nurs. Prac.	6	Surg. Nurs. Prac.	3
			<hr/> 12	(incl. I.V. & Ortho.)	<hr/> 8

13th Quarter	Credits	14th Quarter	Credits
Hlth. Educ. in Com.	2	Professional Adjust.	3
Ward Manag. & Teach.	3	History of Nursing	3
†Public Health		Senior Service	6
Nursing Practice	2-4		
Surg. Nurs. Prac.	4-2		
	—		—
	11		12

Note: Students will be rotated in clinical areas. A general average of 30 hours per week of clinical practice is considered minimum for each service. A minimum of 2 hours of planned clinical instruction is given each week. Credit for clinical instruction is included in credit for clinical practice.

College Campus Division

15th Quarter	Credits	16th Quarter	Credits
Health Admin.	3	Trends in Nrsg.	3
*Applied Christianity	6	Human Relations	2
**Electives	7	Cultural Foundations	3
		Health Evangelism	2
		Ed. Psychology	3
		**Electives	3
	—		—
	16		16

CURRICULUM II

Students transferring from Pre-nursing from other schools to the degree program may have the following deficiencies, which should be completed before they enter the curriculum for the Hospital Division beginning the fourth quarter:

	Credits
Survey of Sociology	4
General Psychology	3

CURRICULUM III

Bachelor of Science—Nursing Education Curriculum

A Bachelor of Science degree with a curriculum in Nursing Education is offered to registered graduate nurses who have met the following prerequisites:

- Graduation from an accredited secondary school or its equivalent.
- Completion of the pre-nursing curriculum.
- Graduation from an accredited Seventh-day Adventist school of nursing or its equivalent.

Students in Nursing Education are expected to take the Graduate

*May include advanced courses in religion such as Adv. Bible Doctrines, Upper Division Daniel and Revelation, Hebrew Prophets, and Adv. Life and Teachings of Jesus.

**Preferred electives: History, literature, speech, art, music, world religions.

†When available.

Nurse Qualifying Examination during the first quarter of residence. A charge is made for the costs of the test.

If a student satisfactorily fulfills the above requirements, four quarters will be necessary to complete the work for the degree.

Requirements:

	Credits
Religion (upper division)	6
Educational Psychology	3
Educ. Eval. and Guidance	3
Education (upper division)	3
Introduction to Nursing Education	3
or School Health	3
Ward Teaching and Management	3
Teaching of Nursing Arts	2
Directed Teaching	1
Curriculum in Schools of Nursing	3
or Health Evangelism	3
Supervision in Schools of Nursing	3
Organization and Admin. of Schools of Nursing	3
or Health Administration	3
Current Trends in Nursing	3
Speech	6
History (upper division)	6
Minor (Upper Division credits)	15

Suggested Minors: Biological Science, Physical Education, and Home Economics. See minor professor for requirements.

For students who wish to complete their course during the summer quarter, it may be possible for them to meet a portion of the requirements for the biological science minor at the Biological Station of the College at Anacortes. For those who have other minors it is suggested that they complete their minor requirements during the school year session and meet their education and Religion requirements during the summer quarter.

CURRICULUM IV

Two-year Curriculum in Nursing Education

For graduate nurses who have not had Pre-nursing

Graduate registered nurses meeting requirements "a" and "c" of

Curriculum III who have not had the Pre-nursing subjects will be required to take 48 quarter credits in addition as follows:

	Credits
Nursing Chemistry	9
Microbiology	5
Freshman Composition	9
Education	6
Religion	6
Electives	13

CURRICULUM V

GRADUATE STUDY IN NURSING

Nursing students, who desire graduate work, may select Nursing Education courses as part of their Education major for the Master of Arts degree in Education. Fifteen credits in Nursing Education courses with numbers above 150 may be chosen as approved by the Graduate Council.

For other requirements the student should consult the departments of Education and Nursing Education.

NURSING EDUCATION

Mr. Hanson, Mrs. Jones, Miss Emery, Miss Schluntz

5. *Microbiology*. The nature of bacteria and disease-producing organisms with their life habits and methods of reproduction. The relation of these organisms to disease in the human body. Four hours attendance, three hours laboratory. Five credits; autumn; M.-Th., 10:15.

14, 15, 16. *Health Principles*. A study of the healthy, wholesome personality including the underlying principles governing the harmonious development of the human body. It includes our denominational health principles and stresses both personal and community health. Three credits; autumn, M. W. F., 10:15; winter, M. W. F., 10:15; spring, M. W. F., 8:25.

24. *History of Nursing*. A survey course in nursing history designed to meet the needs of the students in nursing. Four credits; autumn; M.-Th., 11:10.

32. *Home Care of the Sick*. A course in home nursing and care of the sick, covering the Red Cross course and the basic denominational procedures. This course meets the requirements in home nursing for Master Guides and is open to others interested. One credit; winter; to be arranged.

52-53. *Anatomy, Physiology, and Health*. This course is designed for those who will complete their nursing curriculum at Portland. A general survey of human anatomy and physiology. Health principles will be integrated in this course. Five hours attendance, three hours laboratory. Six credits; winter, spring; M.-F., 10:15.

151. *Introduction to Nursing Education*. A course which is designed to give the student a broad overview of nursing education as it has developed from the past to the present time. Three credits; autumn; M. W. F., 7:30.

155. *Curriculum in Schools of Nursing.* A course dealing with the general principles of construction, revision and administration of the curriculum in schools of nursing. Integration of the health point of view in the curriculum is considered. Three credits; winter; M. W. F., 10:15.

156. *Teaching of Nursing Arts.* Principles and methods of teaching Nursing Arts. Three credits; spring; T. Th., 11:10. (Two credits if student has taken directed teaching.)

*158, 159. *Directed Teaching.* Practical experience in conducting a Red Cross class in home care of the sick. Prerequisite: Course No. 156. One credit; winter or spring; time arranged.

161. *Ward Teaching and Management.* Principles, procedures and problems of organization; methods for carrying out an effective clinical ward teaching program in a school of nursing. Three credits; autumn; M. W. F., 8:25.

162. *Supervision in Schools of Nursing.* The principles underlying effective supervision. The problems of supervision and methods of supervision in the clinical field in a nursing school. Prerequisite: 161. Three credits; winter; M. W. F., 7:30.

163. *Organization and Administration of Schools of Nursing.* This course includes a study of the fundamental principles which underlie the organization and administration of schools of nursing with special reference to selection of students, nursing school budget, faculty, records, and educational policies. Three credits; spring; M. W. F., 11:10.

*171. *School Health.* A study of the educational aspects of the school health program and the personnel relationships involved. It includes the organization, methods, and procedures in health education as related to elementary and secondary schools. Projects are carried on in actual school situations. Open to nurses, elementary and secondary teachers, Home Economics, Physical Education students, and others upon application. Prerequisite: Health Principles. Three credits; autumn; M. W. F., 10:15.

*172. *Health Evangelism.* A study of principles and methods in health education and their application especially in conference nursing and evangelistic efforts. It includes field work in evangelistic efforts and churches. Open to graduate nurses only. Two credits; winter; M. W., 10:15. One credit (Field work); winter; time arranged.

*173. *Health Administration.* A study of the administration of health programs in secondary schools and colleges. Participation in health activities is included. Open to graduate nurses only. Three credits; spring, M. W. F., 11:10.

*175. *Advanced Professional Problems in Nursing.* A study of professional organizations, legislation, accreditation, opportunities in the profession, and other similar topics. Three credits. Arranged.

176. *Trends in Nursing.* Seminar class required of all majors in Nursing Education. Prerequisite: Open only to registered nurses. Readings and discussions of present conditions and problems in the field of nursing. Three credits; spring; M. W. F., 8:25.

*183. *Survey of Public Health.* A survey of the development of public health nursing with special emphasis upon the various types of organizations and the possibilities of integration and correlation with other community activities. Consideration will be given to present trends, and observational field trips to nearby health centers will be included. Open to graduate nurses only. Three credits; spring; M. W. F., 11:10.

*Not offered 1953-1954.

PART IX

Engineering

The College offers courses leading to the degree of Bachelor of Science in Engineering. For the first two years all engineering students take approximately the same courses. Thereafter the student may, at his option, concentrate his work either in the field of architectural engineering or that of mechanical engineering. Admissions to engineering will be made only in September. Furthermore, students should understand that attendance for all three quarters is essential; any other plan of action will seriously affect one's progress.

The aim of the engineering course is to prepare students to practice professional engineering, which involves the application of mathematics and the sciences to the design and construction of machines and structures, for the benefit of mankind.

Academy students who plan to enter as Engineering freshmen, should have a strong background of Mathematics, Physics, Chemistry, and English. No student with less than two years of preparatory training in Mathematics can be admitted to the Engineering course, until such deficiency is removed.

It is expected soon to announce a plan under which students who pursue a 3-year pre-engineering course in other liberal arts colleges may complete the requirements for an engineering degree at Walla Walla College.

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 1.0. Where these conditions do not hold, a grade of D will necessitate repeating the course.

Students pursuing the Engineering curriculum must successfully complete each of the courses listed in the outline following according to the chosen field of emphasis.

Granting of the degree in Engineering will be contingent upon successful performance of two years of part-time work, or two summers, in the engineering office, power plant, maintenance or construction crews. The equivalent in approved outside employment will

be accepted. The student should confer with his advisor when arranging this work schedule.

Non-engineering students may take any of those courses for which there are no stipulated prerequisites, and any others for which they hold prerequisite credits.

Curriculum for Bachelor of Science in Engineering

FIRST YEAR (Same for all engineering students)

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Religion	2	Religion	2	Religion	2
Freshman Composition	3	Freshman Composition	3	Freshman Composition	3
Algebra	4	Trigonometry	4	Anal. Geometry	4
Inorg. Chem.	4	Inorg. Chem.	4	Inorg. Chem.	4
Eng. Drawing	3	Eng. Drawing	3	Eng. Drawing	3
Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$
	<hr/> 16 $\frac{1}{2}$		<hr/> 16 $\frac{1}{2}$		<hr/> 16 $\frac{1}{2}$

SECOND YEAR

Religion	2	Religion	2	Religion	2
Physics	4	Physics	4	Physics	4
Calculus	4	Calculus	4	Calculus	4
Eng. Mech.	4	Eng. Mech.	4	Surveying	4
*Carpentry or Automotive Fund.	3	*Carpentry or Automotive Fund.	3	*Carpentry or Automotive Fund.	3
Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$
	<hr/> 17 $\frac{1}{2}$		<hr/> 17 $\frac{1}{2}$		<hr/> 17 $\frac{1}{2}$

Mechanical Engineering

THIRD YEAR

Religion	2	Religion	2	Religion	2
Eng. Accounting	3	Eng. Economics	3	Sanitary Eng.	3
Elec. & Magnet.	4	Electronics	4	Atomic Phys.	4
Elec. Measure.	2	Electron. Lab.	2	Atom. Phys. Lab.	2
Fluid Mechan.	4	Thermodynamics	4	Mech. Materials	4
Survey of Metal Prac	3	Survey of Metal Prac.	3	Survey of Metal Prac.	3
	<hr/> 18		<hr/> 18		<hr/> 18

FOURTH YEAR

Religion	2	Religion	2	Religion	2
DC-AC Mach.	5	DC-AC Mach.	5	DC-AC Mach.	5
Eng. Admin.	3	Htg. & Air Cond.	3	Steam Power	3
Materials	2	Materials Lab.	1	Materials Lab.	1
Struc. Des. Wood	3	Struc. Des. Steel	4	Struc. Des. Reinf.	
				Concrete	4
Machine Design	3	Machine Design	3	Power Plant Design	3
	<hr/> 18		<hr/> 18		<hr/> 18

*Architectural students should substitute Architectural Design I, 61-62-63.

Architectural Engineering

THIRD YEAR

Religion	2	Religion	2	Religion	2
Eng. Accounting	3	Eng. Economics	3	Sanitary Eng.	3
Equip. Bldgs.	2	Equip. Bldgs.	2	Equip. Bldgs.	2
Hist. Arch.	4	Hist. Arch.	3	Hist. Arch.	3
		Thermodynam.	4	Mech. Materials	4
Arch. Drawing	2	Arch. Drawing	2	Arch. Drawing	2
Arch. Design II	5	Arch. Design II	2	Arch. Design II	2
	—		—		—
	18		18		18

FOURTH YEAR

Religion	2	Religion	2	Religion	2
Eng. Admin.	3	Htg. & Air Cond.	3	Struc. Des. Reinf.	
Struc. Des. Wood	3	Struc. Des. Steel	4	Concrete	4
Materials	2	Materials Lab.	1	Materials Lab.	1
Design III	4	Design III	4	Design III	4
Electives	4	Electives	4	Electives	7
	—		—		—
	18		18		18

Mechanical Engineering

ME 1-2-3. *Engineering Drawing*. Use and care of instruments; lettering practice; theory of projections—orthographic views, sections, auxiliary views, pictorial representation, dimensioning, conventional practices; sketching; pencil and ink tracings; conventional representation of threads, fasteners, standard parts; detail and assembly drawings. Basic projection principles for points, lines, and planes; representation and graphical solutions of related problems; sections, developments and intersections of various surfaces and solids. Applications to practical engineering problems, with emphasis on visualization and analysis. Prerequisites: none. Three credits; autumn, winter, spring; M. W., 1:15-5:30.

ME 51-52. *Engineering Mechanics*. Statics, two and three dimensional; mathematical and graphical methods of solution; kinetics; work and energy; dynamics of rotating bodies; impulse, momentum, impact. Corequisite: Physics, Calculus. Four credits; autumn, winter; M.-Th., 11:10.

ME 53. *Surveying*. Measurement of distances; use and adjustment of transit and level; systematic methods for notes and computations; measurements of angles; transit traverse, stadia survey; differential and profile leveling, contours; land surveying and mapping. Prerequisite: Math. 21, 22; also ME 1-2-3 for engineering students. Four credits; spring; M. W., 11:10; Field work S. 8:00-12:00, 1:00-5:00.

ME 81. *Engineering Accounting*. Operating statement; balance sheet; annuities, amortization; depreciation reserves, sinking funds; exercises in journalizing, posting, closing; elements of cost accounting; cost classification; cost systems. Open to engineering students only. Three credits; autumn; M. W. F., 7:30.

ME 82. *Engineering Economics*. Business organization; finance; monetary aspects; capital cost, increment cost, sunk cost; bond yields, business cycles; pricing system, sharing of income; personnel and labor relations. Open to engineering students only. Three credits; winter; M. W. F., 7:30.

ME 111. *Fluid Mechanics*. Fluids at rest, internal equilibrium; momentum and energy theorems for steady motion; friction; nozzles, orifices, weirs, impulse

and reaction turbines; pipe flow. Prerequisite: ME 51-52, Math. 51-52-53. Four credits; autumn; M.-Th., 10:15.

ME 112. *Thermodynamics*. Properties of gases and vapors; entropy; PV, TS, HS, and PH planes; internal combustion cycles; vapor cycles; psychrometry; refrigeration; compressible fluids. Prerequisite: Physics 51, 52, 53; Math 51-52-53; ME 111. Four credits; winter; M.-Th., 10:15.

ME 113. *Mechanics of Materials*. Stress-deformation relations; stresses, deformations and deflections of posts, shafts, beams, columns; combined stresses; theories of failure; energy methods; Prerequisite: ME 51-52. Four credits; spring; M.-Th., 10:15.

*ME 121. *Engineering Administration*. Preparation of contracts and specifications; advertising, bidding procedures, bonds, claims, arbitration. Office organization and management; personnel problems, preparation of drawings, field supervision, bookkeeping and cost accounting, forms, orders, fees, commissions. Prerequisites: None. Three credits; autumn; M. W. F., 7:30.

*ME 122. *Heating and Air Conditioning*. Principles and practice of heating, ventilating and air conditioning to meet public, residential, and industrial needs; heat losses and gains; automatic control equipment. Prerequisites: Math. 21, Physics 51, 52, 53, ME 111, 112. Three credits; winter; M. W. F., 7:30.

*ME 123. *Steam Power*. Performance characteristics and design features of steam generators, prime movers, condenser and feed-water equipment, evaporators, economizers, deaerators, air preheaters, superheaters, pumps, fans, fuel-burning equipment, coal and ash-handling equipment. Prerequisites: ME 112, Chemistry 21-22-23. Three credits; spring; M. W. F., 7:30.

ME 141-142. *Machine Design*. Practical applications of kinematics, materials, mechanics, mechanical processes to the design of machines and machine elements, with due regard to selection of materials, constructions, lubrication, safety, and cost. Calculations, layout and detail drawings as required. Prerequisites: ME 1-2-3, 51-52, 113. Three credits; autumn, winter, M. W., 1:15-5:15. (Outside preparation required).

ME 143. *Power Plant Design*. Small isolated power plants; heat balance; plant layout; piping; selection of equipment. Prerequisites: ME 111, 112, 123. Three credits; spring; M. W., 1:15-5:15. (Outside preparation required).

ME 151-152-153. *Engineering Materials*. Materials of construction—lime, cement, stone, brick, sand, timber, ores, cast iron, wrought iron, steel, non-ferrous metals and alloys; chemical and physical properties, uses testing methods, unit stresses; behavior in tension, compression, torsion, shear, bending. Prerequisite ME 113. Four credits (total); autumn: Class T. Th., 7:30; winter, spring: Lab. Th. 2:00-5:00.

ME 161-162-163. *Direct and Alternating Current Machinery and Circuits*. Theory, construction, operation, applications of direct current generators and motors; armature reaction and commutation; voltage regulation, speed control; starting control, regulating devices; storage batteries. Theory, construction, operation, applications of alternating current generators, transformers, induction motors, synchronous motors, converters, rectifiers; starting, control, and regulating devices. Transmission, distribution, control circuits; networks, calculations. Prerequisites: Math. 51-52-53, Physics 101. Five credits; autumn, winter, spring; M.-Th., 10:15; Lab T. 2:00-5:00.

Architectural Engineering

AE 61-62-63. *Architectural Design I*. Sketching and rendering in the various art media, modeling, sculpturing. Three credits; autumn, winter, spring; M. W., 10:15; Lab., T., 2:00-5:00.

AE 103. *Sanitary Engineering*. Water supply, purification, softening, distribution; sewage systems, sewage treatment and disposal; collection, treatment and disposal of municipal and industrial wastes; engineering aspects of disease and food control. Three credits; spring; M. W. F., 7:30.

AE 114-115-116. *Equipment of Buildings*. A study of mechanical, electrical, and plumbing plants and their relation to the building. Rules, regulations, codes. Two credits; autumn, winter, spring; T. Th., 8:25.

AE 124-125-126. *Architectural Drawing*. Architectural detail and its relation to the building. Working drawings. Prerequisite: ME 1-2-3. Two credits; autumn, winter, spring; Lab. S., 8:00-12:00, 1:00-4:00.

AE 131-132-133. *Structural Design*. Prerequisites: ME 5I-52, 113.

AE 131. Wood; elementary structural analysis; the design and computations required for wood trusses, floor systems, beams, girders, and columns. Three credits; autumn; M. W. Th., 8:25.

AE 132. Steel; design of simple steel structures; beams, columns, base plates, connections, bearing plates, purlins, girts, lintels, portals, roof trusses, bents, anchor bolts, rivets, tension and compression members. Steel design for a small building. Four credits; winter; M. Th., 8:25.

AE 133. Reinforced concrete; forms, mixtures, posts, beams, slabs, T-beams, surfaces, formulae, and working stresses. Four credits; spring; M. Th., 8:25.

AE 134-135-136. *Architectural Design II*. Elements of architecture; proportion and scale; integration of elements; design of simple architectural forms and buildings. Class, two credits; autumn; M. W., 1:00-2:00; Lab. three credits; autumn; M. W., 2:00-5:00; Lab., two credits; winter, spring; M. W., 2:00-5:00.

AE 171-172-173. *Design III*. Laboratory course in the mechanical, electrical and structural design of buildings. Complete original designs are required of quality sufficient to permit use in erection of building without major changes. Prerequisites: ME 1-2-3, AE 124-125-126. Four credits; autumn, winter, spring; M. W., 1:00-5:00.

*AE 181-182-183. *History of Architecture*. A study of the historical style, influences, building materials, and methods of construction used in Egyptian, Babylonian, Greek, Roman, Early Christian, Byzantine, Romanesque, Gothic, Renaissance, and Modern architecture. Prerequisite: None. Four credits; autumn, M. Th., 11:10. Three credits; winter, spring; M. W., 11:10.



PART X

Industrial Arts

*Mr. Walcker, Mr. Trautwein, Mr. Cowin, Mr. Cushman,
Mr. Collins, Mr. Losey*

Courses in Industrial Arts are offered leading to the Bachelor of Science degree. For this degree a total of 192 quarter hours is required, together with a compliance to the general graduation requirements listed on page 39.

Either a teaching or trade option may be incorporated in the major, and a minor or terminal course may be elected.

A major is 54 hours, 24 of which must be upper division, including Math. 21, 22, ME 1-2-3, IA 35-36-37, and Physics 51, 52, 53.

A teaching option includes in the major IA 195, 197 to be taken in the year preceding Directed Teaching. The remaining hours are to be selected in conference with the departmental advisor.

A trade option includes in the major IA 27-28-29. A business minor is recommended.

A minor is 27 hours, 6 of which must be upper division, including ME 1-2-3, and IA 35-36-37.

Terminal courses are offered to satisfy particular student needs, and a certificate will be given to show work completed.

Any nine-hour course meets the basic vocational requirement for graduation. All classes in the department are necessarily limited in size. Students wishing to fulfill vocational requirements must contact the department head or instructor to insure entrance.

Architectural Engineering 61-62-63, 124-125-126, 134-135-136, 171-172-173, 181-182-183, and Home Economics 164, 165 may be applied toward an Industrial Arts major.

Following is a suggested schedule particularly designed for students interested in teaching industrial arts, and it includes a minor in Education.

FIRST YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Religion	2	Religion	2	Religion	2
Freshman Composition	3	Freshman Composition	3	Freshman Composition	3
Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$
Algebra	4	Trigonometry	4	Surveying	4
Carpentry I or College Woodwork	3	Carpentry I or College Woodwork	3	Carpentry I or College Woodwork	3
Engineering Drawing	3	Engineering Drawing	3	Engineering Drawing	3
Elective	$\frac{1}{2}$	Elective	$\frac{1}{2}$	Elective	$\frac{1}{2}$
—	—	—	—	—	—
16	16	16	16	16	16

SECOND YEAR

Religion	2	Religion	2	Religion	2
History	3	History	3	History	3
Gen. Psychology	3	Ed. Psychology	3	Prin. of Ed.	3
Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$
Gen. Physics	4	Gen. Physics	4	Gen. Physics	4
Elective	1 $\frac{1}{2}$	Elective	1 $\frac{1}{2}$	Elective	1 $\frac{1}{2}$
College Woodwork or Carpentry I	3	College Woodwork or Carpentry I	3	College Woodwork or Carpentry I	3
—	—	—	—	—	—
17	17	17	17	17	17

THIRD YEAR

Health Prin.	3	Religion	3	Religion	3
Shop Administration	3	Arc Weld. & Forging	3	Meth. of Tch. Ind. Sub.	3
Gas Welding	3	Sec. School Admin.	3	Arc Welding Problems	3
Tech. of Sec. Sub.	2	Elective	8	Wood Turning I	2
Elective	6	—	—	Elective	6
—	—	—	—	—	—
17	17	17	17	17	17

FOURTH YEAR

Religion	2	Religion	2	Religion	2
Directed Teaching III	2	Directed Teaching III	2	Directed Teaching III	2
Furn. Design	2	Furn. Const.	2	Furn. Finish.	2
Mach. & Tool Maint.	3	Mach. & Tool Maint.	3	Mach. & Tool Maint.	3
Elective	7	Educ. Eval. & Guid.	3	Elective	6
—	—	Elective	4	—	—
16	16	16	16	15	15

For a trade option, the following schedule should be substituted for the third and fourth years. It includes a minor in business.

THIRD YEAR

Health Prin.	3	Religion	3	Religion	3
Prin. of Economics	3	Prin. of Economics	3	Prin. of Economics	3
Prin. of Accounting	3	Prin. of Accounting	3	Prin. of Accounting	3
Agree. & Estim., or	2	Agree. & Estim., or	2	Agree. & Estim., or	2
Mach. Tool Prac. I	3	Mach. Tool Prac. I	3	Mach. Tool Prac. I	3
Elective	4-5	Carpentry II	2	Carpentry II	2
—	—	Elective	2-3	Elective	2-3
16	16	16	16	16	16

FOURTH YEAR

Religion	2	Religion	2	Religion	2
Furniture Design	2	Furniture Const.	2	Furniture Finishing	2
Cost Acct.	2	Cost Acct.	2	Cost Acct.	2
Arch. Drawing	2	Arch. Drawing	2	Arch. Drawing	2
Arch. Design I	3	Arch. Design I	3	Arch. Design I	3
**Elective	6	Elective	6	Elective	6
—	—	—	—	—	—
17		17		17	

AUTO MECHANICS

1, 2, 3. *Automotive Fundamentals*. A comprehensive, basic course on the subject of automotive mechanics. (a) Automotive engines, (b) automotive electricity, (c) automotive chassis. An understanding of why and how automotive vehicles work, how to inspect, find what to do. How to repair and make usable. Disassembly and reassembly of automotive parts required. Three credits; two hours lecture, three hours laboratory; autumn, winter, spring; Sec. A, M, 1:00-6:00; Sec. B, T., 1:00-6:00.

*101, 103. *Automotive Engine Tune-up*. A course designed for those who wish a wider knowledge of the automotive fuel and electrical systems. Carburetor design, repair, and adjustment will be featured along with electrical service and trouble shooting using *Sun Testing Equipment*. Prerequisite: IA 1, 2, 3. Two credits; one hour lecture, three hours laboratory (at garage); autumn or spring. Time arranged.

AGRICULTURE

14-15-16. *General Agriculture*. A survey course covering in a general way the various phases of plant production and animal husbandry. Special attention will be given to gardening, dairying, and poultry husbandry. Autumn, Dairying; Winter, Poultry Husbandry; Spring, Gardening. One hour class work and two hours laboratory. Two credits; autumn, winter, spring; time arranged.

19. *Industrial Arts Agriculture*. This course takes up a general survey of agriculture adaptable to the elementary student. Soils cultivation, gardening, animal husbandry, poultry, and flowers are studied. Class and laboratory. Two credits; spring. Time arranged.

BAKING

11, 12, 13. *Baking I*. A practical course in baking, taking up the study of flours and the various ingredients used in the manufacture of breads and rolls, the scientific manufacture of bread, and essential factors influencing bread quality. Sixty hours laboratory per quarter gives practice in baking in actual commercial production. Class recitation one hour per week. Three credits; autumn, winter, spring; time arranged.

67, 68, 69. *Baking II*. Special attention given to study of baking formulas, problems of bakery management, and cost control. Sixty hours laboratory per quarter with practice in cake, pie, cookie, and sweet goods production. Three credits; autumn, winter, spring; time arranged.

*Not offered 1953-1954.

**Should include 3 credits upper division business.

BOOK BINDING

21, 22, 23. *Book Binding*. A practical and basic course in the art and craft of book binding, designed to afford the student a comprehensive knowledge of the steps in the process of rebinding books, and applied crafts. Two credits; one hour lecture, three hours laboratory; autumn, winter, spring; class, T. 1:00; laboratory, T. 2:00-5:00.

BUILDING TECHNIQUES

27-28-29. *Carpentry I*. This class works on a house or other building during the school year. Each student is given the opportunity to become familiar with the details of house construction through actual practice. Textbook and lecture work precedes each of the building operations that the student may attack the work intelligently. During the autumn and spring quarters the class spends six hours on the project with one hour lecture; and during the winter quarter and cold weather, three hours on the project with two hours of lecture. The class makes intensive study of house plans. Wide reading is required. Three credits; autumn, winter, spring; T., 8:25. Laboratory Sec. A, S., 1:00-6:00.; Sec. B, Th., 1:00-6:00.

66. *Masonry Techniques*. A course devoted to the consideration of the various materials used in bricklaying and in brick masonry construction. It is designed to give the student technical information of the physical properties of materials and a technical knowledge of construction. (One hour outside reading required). Two credits; spring; S., 7:00-12:00.

81. *Practical Electricity*. Basic instruction in practical electricity, covering principles of wiring systems and safe wiring practice for the installation of electric motors, control systems, communication and signal systems, and lighting systems. Special emphasis on Underwriter's rules and regulations; also elements of illumination principles and practice. One hour lecture and three hours laboratory. Two credits; autumn; T., 10:15; Laboratory, arranged.

82. *Plumbing Practice*. A practical, on-the-job course in plumbing covering all phases of installation and upkeep of supply, waste, and drainage systems for residence and industrial building; installation and selection of fixtures, with emphasis on national building code. One hour lecture and three hours laboratory. Two credits; winter; T., 10:15. Laboratory, arranged.

83. *Heating Practice*. A practical course covering the principles of installation and operation of steam, hot water, and hot air heating systems, stressing building code requirements; basic principles of pipe-fitting, radiation, conduction, and convection; pipe insulation materials and their application. One hour lecture and three hours laboratory. Two credits; spring; T., 10:15. Laboratory, arranged.

122, 123. *Carpentry II*. A course in exterior and interior finishing of houses which will include textbook and assigned work in actual finishing projects. Included will be stair building, door hanging, and cabinet installation. Prerequisites: 27-28-29. Two credits; winter, spring; Th., 10:15. Laboratory, arranged.

181-182, 183. *Agreements and Estimating*. This course is designed to acquaint the student with the legal and technical aspects of the building trades. Contracts, specifications, and agreements will be carefully considered in the autumn

quarter. Actual estimating and job analysis will be made. Emphasis is on estimate making. Estimating will be based on cost analysis and figures accumulated from many previous jobs. Two credits; autumn, winter, spring; T. Th., 8:25.

METAL TRADES

54. *Gas Welding*. Forging, forming and heat treating of steel, followed by gas welding, oxy-acetylene cutting and brazing. Particular attention given entire course regarding safe use of equipment. Three credits; one hour attendance, M., 7:30, and six hours laboratory, M. W., 2:00-5:00. Autumn.

55. *Arc Welding and Forging*. Basic techniques and processes of electric welding with attention to good design, correct and safe use of equipment. Three credits; one hour attendance, Th., 8:25; and six hours laboratory, M. W., 2:00-5:00. Winter.

56. *Arc Welding Problems*. Application of principles practiced in IA 54 and 55, together with further study of arc processes, with direct emphasis on production of assigned and student selected projects. Prerequisite: 54 and 55 or equivalent. Three credits; 1 hour attendance, Th., 8:25; six hours laboratory, M. W., 2:00-5:00. Spring.

71-72-73. *Survey of Metal Practice*. Designed particularly for mechanical engineering and physics majors, to give a broad and less detailed introduction to a variety of operations involving metals, together with factors influencing design and production. Will not apply toward Industrial Arts major. Three credits; two hours attendance, M. W., 8:25; three hours laboratory, T. or Th., 2:00-5:00. Autumn, winter, spring.

74-75-76. *Machine Tool Practice I*. Processes of basic machine tools are studied by theory and actual participation. Bench work, hand operations, and basic machines operations will be combined with prescribed and student selected projects. Three credits; one hour attendance, T., 8:25; laboratory, M., 1:00-6:00. Autumn, winter, spring.

*104, 105, 106. *Advanced Welding*. Continuation of arc welding, oxy-acetylene welding, cutting, and brazing. Structural steel designs, jigs for mass production, costs of welding structures. Prerequisites: 54, 55. Two credits; one hour lecture and three hours laboratory; autumn, winter, spring.

125. *Sheet Metal*. Pattern drafting and construction of assigned projects in sheet metals of different types. Prerequisite: ME 1-2-3. Three credits; one hour attendance; laboratory, T., 1:00-6:00. Winter.

*171-172-173. *Machine Tool Practice II*. Advanced processes of turning and hand work together with operations involving milling machine, shaper and grinder. Gear calculation and fabrication, with definitely assigned exercises, plus student selected projects. Three credits; one hour attendance, and six hours laboratory. Autumn, winter, spring. Arranged

PRINTING

24-25, 26. *Printing I*. General principles; measurements, straight and display composition. The imposition and locking of forms, and platen press work. Two credits; autumn, winter, spring.

*Not offered 1953-1954.

91-92-93. *Printing II.* Further study of job composition, drafting, platen and cylinder press work. Imposition of forms is given. Five hours of actual shop practice and one hour of textbook study is required. The student is expected to develop speed, accuracy, and independent thinking in shop practice to the point of acceptable commercial efficiency. He may specialize in composition or in press work. Two credits; autumn, winter, spring.

107-108-109. *Printing III.* Linotype composition. Keyboard practice; machine construction; care of matrix; care of metal; study of fundamental principles of operation. Two credits; autumn, winter, spring.

WOODCRAFT

35, 36, 37. *College Woodwork.* This is a fundamentals course devoted to the development of basic skills and knowledge in the woodworking field. A study of the processes, tools and materials in the following phases: (a) bench and machine work; (b) wood finishing; (c) blue print reading and sketching. The student may choose the area of his interest. Two or three credits; autumn, winter, spring; Class Th., 8:25; Laboratory, T., 1:00-6:00.

41, 42, 43. *Wood Turning I.* Spindle, face plate, and chuck turning. Assigned projects, and original designs. Wood finishing. Material ticket required. Two credits; autumn, winter, spring; Sec. A, M., 1:00-6:00; Sec. B, T., 1:00-6:00; Sec. C, W., 1:00-6:00.

61, 62, 63. *Applied Woodwork.* A laboratory course which further applies the fundamentals learned in college woodwork with emphasis on use of machines and skill of operation. Phases offered: (a) machine woodworking; (b) wood finishing; (c) upholstery; (d) basic drafting. The student may choose the phase desired. Two or three credits; autumn, winter, spring; Class Th., 8:25; Laboratory, W., 1:00-6:00.

114. *Furniture Design.* Study of types of furniture, principles of design and their application in cabinet drawing and furniture construction. Laboratory 114A optional. Prerequisite: ME 1-2-3. Two credits; autumn; M. W., 8:25.

115. *Furniture Construction.* A study of power machines, jigs, attachments, and their application to furniture making. Laboratory 115A optional. Prerequisite 35, 36, 37 or 61, 62, 63. Two credits; winter; M. W., 8:25.

116. *Furniture Finishing.* Study of wood finishing materials, their composition and application, selection and care of equipment and materials as applied to furniture finishing. Laboratory 116A optional. Two credits; spring; M. W., 8:25.

114A, 115A, 116A. *Furniture Laboratory.* To accompany 114, 115, 116. Practical application of power machines, finishing methods and design as applied to household furniture. Assigned projects and projects of the student's choice which are approved by the instructor. Prerequisite or concurrent: 114. Two credits; autumn, winter, spring; M., 1:00-6:00.

129. *Wood Turning II.* Emphasis on more intricate cuts and turning processes, special chucking devices, fancy turning. Prerequisite: 41, 42, 43. Two credits; spring; Th., 1:00-6:00.

*134. *Machine and Tool Maintenance.* A practical course in the proper

*Not offered 1953-1954.

methods of care and maintenance of tools, machines and supplementary equipment. Three credits.

191, 192, 193. *Special Problems in Industrial Arts.* Course provided for Industrial Arts majors who, looking towards teaching or a trade future, may avail themselves of actual experience in a supervisory capacity in shop or in the field project. Prerequisite: *Senior standing.* Area to be selected in counsel with the head of the department. Credit and time arranged.

191A, 192A, 193A. *Special Problems in Industrial Arts Laboratory.* The requirements for this course are the same as for 191, 192, 193. Credit and time arranged.

195. *Shop Administration and Planning.* A study of school shop planning, supplies, personnel organization, and shop management. This course is required of those students planning to do directed teaching in the department. To be taken in the junior year. Three credits; winter; M. W. F., 10:15.

197. *Methods of Teaching Industrial Subjects.* Methods and techniques in the selection, presentation, and testing content material in industrial subjects. To be taken in the junior year. Prerequisite: 195. Three credits; spring; M. W. F., 10:15.

53. *Home Mechanics.* A non-technical course covering simple repair and maintenance of common appliances and devices used in and about the home. May not be applied toward a major, and only in certain cases toward a minor in Industrial Arts. Two hours credit; spring; Th., 1:00-5:00.

PART XI

Cost of Attendance

GENERAL INFORMATION

Deposit

The College operates on a cash basis and requests that the students do the same. Before matriculating, students are required to make an advance deposit as follows:

Dormitory Students (veterans and non-veterans)	\$95.00
Village Students (veterans and non-veterans)	50.00

The student will pay his actual school charges at the close of each six weeks, the advance deposit being held in reserve until the last period of the school year or until he leaves school. A clearance card is issued at the business office when the deposit is made, and students are expected to present same to the deans, registrar, and at the dining hall, to show that financial arrangements have been made to enter school.

Expenses

Tuition and school expenses are divided into six periods of six weeks each. Statements are rendered at the close of each six weeks and are due and payable two weeks after the close of each school period which is the date of statement.

In case settlement has not been made within two weeks the student may be asked to discontinue his school work. Fees (general laboratory, physical education, etc.) are payable at the end of the first, third, and fifth periods and are charged by the quarter. Students who register late are required to pay tuition for the quarter in the subjects in which they receive credit.

By action of the Board of Walla Walla College, all students are required to pay accounts in full before degrees or transcripts are granted. A student whose account is overdue may not be permitted to take the final examinations at the close of a quarter.

Refunds

A refund for dormitory charges is made for absences of more than two weeks caused by serious illness.

How to Remit

In most cases it will be better for the parents to send money direct to the College. In doing so, draw all drafts, checks, orders,

etc., in favor of "Walla Walla College." Students need but little spending money, and parents are urged to require a monthly statement of expenses from their children. Mail for the College pertaining to money matters should be addressed "Business Manager." Mail pertaining to the department of instruction should be addressed "Dean."

HOME EXPENSES

With two students occupying one room, the home expenses for each student for a six weeks' period are as follows:

	Per Period
Sittner Hall	\$30.00
Conard Hall	30.00
Conard Hall (special)	31.00
Union Hall	28.00
West Hall (running water)	28.00
West Hall	26.00
South Hall	26.00
North Hall	26.00

The above charges include plain laundering not to exceed \$1.00 weekly, and room furnished with steam heat and electric lights up to 200 watts. This does not include student board.

Students are required to sew name tapes to all articles of clothing sent to the College Laundry. Name tapes can be secured at department stores or at the College Laundry.

Student Health Center

The Health Center is equipped with twelve beds and clinical facilities. Bed occupancy in excess of four days per quarter is charged the student at a reasonable rate. For serious illness and surgery, the Walla Walla General Hospital provides a complete health service at a discount to students.

Room Reservation

The \$15.00 deposit which is required of all students to complete their acceptance also serves as a room reservation for students planning to reside in one of the school homes.

Board

The cafeteria plan of boarding is followed in connection with the operation of the school homes.

Board, Minimum for Six Weeks

Men	\$28.00
Women	25.00

TUITION CHARGES

Quarter credits	Per Six-weeks Period
13-16	\$56.00
12	52.25
11	48.50
10 (Minimum for regular students)	44.75
Less than 10, per credit	4.50
Over 16, per credit	4.25

Special Tuition

Physical Education courses carry regular tuition plus fees. Double tuition is charged for Art when taken with other subjects; when taken alone, 25 cents for each hour of attendance is charged.

Tutoring (by permission of the Academic Standards Committee): for one student, triple tuition; for two to four students, double tuition; four to six, one and one-half tuition; more than six, regular tuition.

General Fee

Twelve dollars for each quarter of attendance will be charged each student to cover matriculation, library, lyceum, health service, and gymnasium.

Associated Students Fee

Since each student automatically becomes a member of the Associated Students of Walla Walla College, a fee of \$3.00 will be charged to each student for each quarter of attendance. This covers cost of *Collegian*, *Mountain Ash*, and Student Association dues.

Special Fees

Late registration, per day (Maximum \$5.00)	\$1.00
Change of program	1.00
Special examination	1.00
Advanced standing credit by examination, per quarter credit	2.00
Recording of Preparatory School credit, per unit	2.50
Transcript of grades	
First transcript	no charge
Each succeeding transcript	\$1.00
Degree, Bachelor's	7.50
Degree in absentia, Bachelor's	17.50
Degree, Master's	25.00

Laboratory Fees

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Laboratory Fees

SCHEDULE OF FEES PER QUAR. CREDIT

BULLETIN NO.	COURSE	PER QUAR.	CREDIT
153	Advanced Weaving and Upholstering	\$4.00	
104, 105, 106	Advanced Welding	9.00	
41-42	Applied Design	1.00	
61, 62, 63	Applied Woodwork	6.00	
55	Arc Welding and Forging	9.00	
56	Arc Welding Problems	9.00	
3	Archery	2.00	
AE 61-62-63	Architectural Design I	4.00	
AE 134-135-136	Architectural Design II	4.00	
AE 124-125-126	Architectural Drawing	3.00	
	Art		\$2.00
124, 125, 126	Arts and Crafts	10.00	
171A, 172A, 173A	Audio-Visual Laboratory		7.50
1, 2, 3	Automotive Fundamentals	7.50	
24, 25, 26	Badminton	2.00	
	Biology (each course)	10.00	
21, 22, 23	Book Binding	7.50	
123	Campcraft and Management	7.50	
	Chemistry (each course)	7.50	
106	Child Literature		1.00
71, 72-73	Clothing Selection and Construction	2.00	
35, 36, 37	College Woodwork	6.00	
105	Community Recreation	7.50	
7-8-9	Conducting	3.00	
141-142-143	Cost Accounting	1.00	
91-92-93	Curriculum Methods and Materials		1.00
203	Curriculum Workshop		1.00
(ME 161-162-163)	DC-AC Laboratory	7.50	
AE 171-172-173	Design III	2.50	
201	Diagnostic and Remedial Teaching	3.00	
81, 82, 83	Directed Teaching I		1.00
101, 102, 103	Directed Teaching II		1.00
4, 5, 6	Driver Education	25.00	
118	Educational Evaluation and Guidance	2.00	
ME 1-2-3	Engineering Drawing	3.00	
(ME 152-153)	Engineering Materials Laboratory	7.50	
163	Experimental Cookery	6.00	
1, 2, 3	Food Study, Food Preparation and Serv.	6.00	
1A	Freshman Composition, 1A	11.00	
114A, 115A, 116A	Furniture Laboratory	6.00	
54	Gas Welding	9.00	
AE 181-182-183	History of Architecture	2.00	
164, 165	Interior Decoration	1.00	
71-72-73	Intermediate Accounting	1.00	
153	Leadership in Camping and Campcraft	7.50	

SCHEDULE OF FEES
PER QUAR. CREDIT

BULLETIN NO.	COURSE	PER QUAR.	CREDIT
ME 141-142	Machine Design	3.00	
74-75-76	Machine Tool Practice I	7.50	
171-172-173	Machine Tool Practice II	7.50	
84, 85-86	News Writing50	
171-172	Nutrition	3.00	
108	Observation and Problems in Grades 1-8	5.00	
83	Office Machines		3.00
161, 162, 163	Participation and Directed Teaching III		1.00
33	Photography	7.50	
	Physics Advanced Laboratories		5.00
51, 52, 53	Physics (General)	7.50	
22	Physics Survey	3.00	
ME 143	Power Plant Design	3.00	
14-15-16	Principles of Accounting	1.00	
161, 162, 163	Radio Production	1.00	
11	School Arts	5.00	
7-8-9	Secretarial Accounting	1.00	
125	Sheet Metal	9.00	
5	Skiing	4.00	
208	Special Problems in Grades 1-8	5.00	
191A, 192A, 193A	Special Problems in Industrial Arts Lab.	6.00	
	Speech (each course except 194-198)	1.00	
BA 191, 192	Statistics	1.00	
Ed. 211, 212	Statistics	1.00	
71-72-73	Survey of Metal Practice	7.50	
ME 53	Surveying	7.50	
181-182	Tailoring	3.00	
13	Teaching of Crafts, lower division	7.50	
113	Teaching of Crafts, upper division	10.00	
73	Teaching of Language Arts	1.00	
156	Teaching of Nursing Arts	3.00	
71	Teaching of Reading	1.00	
72	Teaching of Social Studies	1.00	
89	Textile Painting and Related Arts	3.00	
	Towel and Locker25	
91-92	Weaving and Upholstering	4.00	
41, 42, 43	Wood Turning I	5.00	
129	Wood Turning II	5.00	

Typewriter Rentals

Six hours weekly	PER QUARTER 5.00
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Physical Education Fees

Physical Education, per credit	\$5.50
Pool—for village students not registered in Physical Education	1.00
Pool—for Campus School pupils (once a week only)50

ESTIMATED EXPENSES FOR HOME STUDENTS

The following estimate of expenses for the regular school term is based upon the supposition that a student is carrying full class work, is doing \$25.00 worth of work each school period for which he is credited, and is not taking any special work such as Music or Art.

	LOW	AVERAGE	LIBERAL
Tuition, Room, and Laundry (Labor deducted)	\$330	\$360	\$380
Fees (General, Special, and Laboratory)	45	50	65
Board	180	240	290
Books and Stationery	35	40	45
Totals	\$590	\$690	\$780

MUSIC

Tuition

Following are the rates of tuition for private lessons per quarter. These are not refundable. All charges are payable at the end of the first period of the quarter.

Piano, Organ, Voice, Strings, Wood-winds, and Brass, one lesson weekly	\$22.00
Student Teachers: one lesson weekly	15.00

Applied Music—Class Instruction

Class Membership of four or more	\$ 9.00 each per quarter
Class Membership of three	11.00 each per quarter
Class Membership of two	14.00 each per quarter

Rentals

Pipe Organ, 1 to 7 hours per week, per hour	\$.35
Pipe Organ, 8 to 11 hours per week, per hour30
Pipe Organ, 12 hours and over, per hour25
Reed Organ	
(two manual) 1 to 7 hours per week, per hour10
(two manual) 8 to 15 hours per week, per hour07
(two manual) 16 hours and over per week, per hour05

Practice room with piano

Hours per week	Per quarter
4	\$ 2.66
6	4.00
8	5.32
16	10.64

Practice Room without Piano—Instrumental, voice, etc.

Hours per week

4	\$ 2.00
6	3.00
8	4.00
12	6.00
Band and Orchestral Instruments	3.00
Band uniform and choir robe rental	1.00

Musical Organizations

A fee of \$2.00 per quarter will be charged those participating in these organizations to cover part of the expenses for music, advertising, programs, etc.

SCHOLARSHIP PLAN

Students who enter the colporteur work for the purpose of earning school expenses, have available the following plans. The amounts in the last line are the delivery values, 50% of which the student must have as a cash credit with his Book and Bible House in order to receive credit at the College Business Office in the amount as indicated in the corresponding place in the first line. These scholarships are to be used for tuition, fees, board, room, and laundry.

Amount of Scholarship	\$550	\$650	\$750	\$850
Scholarship Award, 30 per cent	165	195	225	255
Amount for Student to Earn	385	455	525	595
Amount for Student to Deliver	\$770	\$910	\$1050	\$1190

Students wishing to avail themselves of 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.

TUITION ACQUIRED BY LABOR

Frequently, students who do not have sufficient money to defray their expenses at the College, are given employment in some industry connected with the institution. Thus many are assisted by the College management in their efforts to secure an education. The student should not, however, expect to earn his entire expenses, as this is not compatible with good school work. Students are expected to take at least 10 credits of class work a quarter and are therefore limited in the amount which they can earn through labor. (See page 28). Concerning employment of such help, the College Board has found it neces-

Practice Room without Piano—Instrumental, voice, etc.

Hours per week

4	\$ 2.00
6	3.00
8	4.00
12	6.00
Band and Orchestral Instruments	3.00
Band uniform and choir robe rental	1.00

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sary to establish the following regulations: that where contracts are made with students to labor for tuition, if individuals thus earning tuition find it impossible to attend College, the Board will not obligate itself to redeem such tuition in cash; nor is it transferable, except by special arrangement with the Board.

The rate per hour to be paid the student will be set each period by the business manager in council with the heads of the vocational departments and will be based on ability, industry, and faithfulness of the student. Work assignments are made at the Business Office.

MISCELLANEOUS

Stationery, textbooks, and such other material as students need in their school work may be obtained at the College Store at reasonable prices. These items are to be paid for by cash at the time of purchase.

All rates quoted in this bulletin are subject to change without notice.

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 available scholarship and loan funds to a limited degree. These are primarily for assisting worthy students beyond the freshman year. For information, apply to the Business Manager. The funds are known as follows: Alumni Association Student Loan Fund, Carrie Welch Student Fund, Grettner Student Loan Fund, Hartzell Scholarship 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 our 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. The following friends of the college have made substantial gifts during recent years: Clyde H. Harris, Dr. William Heidenreich, Dr. W. B. Holden, Dr. Florence Keller, Dr. E. S. Mortensen, Dr. M. E. Mullinnex, Dr. Phillip Nelson, Dr. Reuben Nelson, Dr. F. W. Peterson, Dr. J. E. Potts, Dr. E. E. Rippey, Dr. Lester G. Steck, and Eugene Tausick.

PART XII

The Summer Session

The summer session is especially adapted to the needs of (1) students who desire to shorten the time usually required to complete a college course; (2) students who have found it necessary to take a partial load during the regular school year, but who desire to complete a college course in the usual length of time; (3) students who have been forced by circumstances to miss a quarter of regular school year; (4) teachers who desire to take additional courses of professional or general interest; (5) teachers who are advancing from the "qualifying" to the "general certificate" in the State of Washington; (6) persons who are interested in completing the requirements for a Master of Arts degree in Biology or Education.

The summer session is divided into two terms. Students completing requirements for graduation during the summer will receive their degrees at the end of the summer session.

Because of the smaller enrollment, it is possible to give personal attention, instruction, and supervision to a greater extent during the summer session.

Further details regarding the session may be obtained in the annual summer session bulletin.

College Enrollment—1952-'53

Students in College Department	1076
Special Students	12
	<hr/>
TOTAL	1088
Summer School, 1952	321
	<hr/>
GRAND TOTAL	1409

PART XIII

Graduates of 1952

BACHELOR OF THEOLOGY

Marvin Dale Bischoff
Gordon Franklyn Dalrymple
Ottis C. Edwards
Paul A. Gordon
Vernon Howard Hoefer
Norman Charles Maberly
William Bernard Mallory
Marshall Parmele
Quentin E. Qualley
Dale Malcolm Robinson
Estel David Clark Richardson
Charles Pearson Standley
Elmer V. Unterseher
Clifton A. Walter
Ernest F. Waters, Jr.

BACHELOR OF ARTS IN RELIGION

Harold Fay Downer
Lynn Goyne, Jr.
Allen Lee Habekost
Delbert R. Lewis
Frank Gerald McMurry
Olen Henry Nations
Rolland R. Otterstrom
Roy N. Shearer
Kenneth Elmer Widstrand

BACHELOR OF ARTS

Clifford Ackerman
Bonner Hamilton Allen
Keith LaMur Argraves
Kenneth Omar Baldwin
Betty Hassing-Barnett
Ray Isaac Berryman
Ervin Hadley Bigham
Margaret Agnes Bowers
George W. Brock
Bette Arlene Brown
Harry S. Bruington
Edmund L. Burke
Margery Jean Burton
Lillian Maxine Casebolt
Ruth Elaine Cass
Juanita Pearl Chernenkoff
Lois Elaine Christensen
Otis O. Cleary
Gordon Franklyn Dalrymple

Harold Kent Dawson
La Versa Heidinger-Dettwiler
Lowell C. Dobyns
Richard Allen Gingrich
Peter Goh Seng Tze
Richard Stewart Guthrie
Lester LeRoy Hall
Norman Wayne Hanley
James Howard Hansen
Ralph O. Hartnell
Beulah Marie Heidinger
Irlene Mae Hempel
Norman Leroy Henderson
Melvin Gordon Holm
Barbara Jean Hough
Aubin S. Jeter
Wilma Lee Johnson
Robert H. Juler
Warren T. Kanen
Ardys W. Kelly
Charles Samuel King, Jr.
J. Dean Kortzeborn
Robert S. Kyle
Charles E. Leeper
J. Stewart Lloyd
Donald Merrill Mack
Patrick L. Maguire
Roy E. Mathews
Lloyd Leonard Miller
Henry Stanley Montgomery
Jackie H. Moody
Gordon E. Mooney
Ferd. A. Moreno
Helen Marilyn Morley
Arthur Eldon Nichols
Harry C. S. Park
Poh Tian Hoe
Emery Calvin Roberts
Findlay Ewing Russell
James A. Sodoyama
Ernest Robert Schaak
Richard C. Schneider
Donald R. Seidel
Wynton G. Shaw
Elinor Margaret Smith
Roy A. Sparks, Jr.
Virginia Bechtel-Sparks

Leland Clair Spaulding
 Guy G. Stewart
 Catherine Nissen-Strode
 Claire Mayard Strong
 Kenneth Thompson
 Dale Orville Wagner
 James Andrew Ward
 Edgar Eugene Weaver
 Lila Sharley-Weir
 Raymond Jinkichi Zakahi

BACHELOR OF MUSIC

Robert D. Benfield

BACHELOR OF SCIENCE

Claude C. Barnett
 Melvin F. Bergvall
 Nadine Williams-Britton
 Ellen Lorraine Carter
 Mark Paul Christianson
 Glen W. Coulson
 John Rudolph Dettwiler
 Leo James Dorgan
 Harriet Rachel Williamson-
 Douglas
 Arlene R. Fischer
 Edith Lorraine Gillham
 Ruth Frances Goodman
 John Anton Gruzensky
 Shirley Ann Hansen
 Melvin Gordon Holm
 Robert Lewis James
 Dorothy May Jenkins
 Dwight Winnett Johnson
 Faye Jull
 Arlene M. Jutzy
 Hilda Clare Kilby
 Don R. Kirkman
 Mereta Mae Kuhnke
 Vi Eetta A. Lewis
 Laurence Elvin McConnehey
 Vivian Long-McDowell
 Stella Mae McMullen
 Doris June Mabley

Wesley James Masterjohn
 Donald L. Matterand
 Herbert E. Meador
 Joan Haussler-Merrill
 Phyllis E. Miller
 Ruth Miller
 Marjorie Betty Cornwell-Moxon
 Ethel S. Naught
 Udo Kurt Niehaus
 Richard B. Paine
 Norman Glenn Peterson
 Dorothy Marie Ray
 Marvin Lloyd Schiller
 Dale Albert Schuler
 Kenneth Lee Scott
 Joan Elizabeth Selfe
 Grover Lee Starr
 Florence Helen Stratton
 Thais Verdelle Thrasher
 Margaret Maybeth Toop
 Bessie Catherine Towler
 Joshua J. Wall
 Mary Folkes-Walter
 William R. Watson
 Albert Will
 Alvin Wence Williams
 Virgil Preston Wilson
 Rhoda Craig-Winkler
 Roberta Louise Yaw
 Yumio Yonezawa
 Bryce Junior Young

MASTER OF ARTS

Harold G. Coffin
 Harold Arthur Drake
 John Laurence Gililland
 William B. James
 Earl Wesley Lathrop
 Elwood S. McCluskey
 Kjell Muller Skyllstad
 Arnold Sparks
 Gordon LaVerne Tohm

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