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WALLA WALLA COLLEGE BULLETIN

CATALOGUE ISSUE OF
1955-1956



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

VOL. LXV September, 1955

No. 1

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School Calendar 1955-1956

1955		SEPTEMBER					1955
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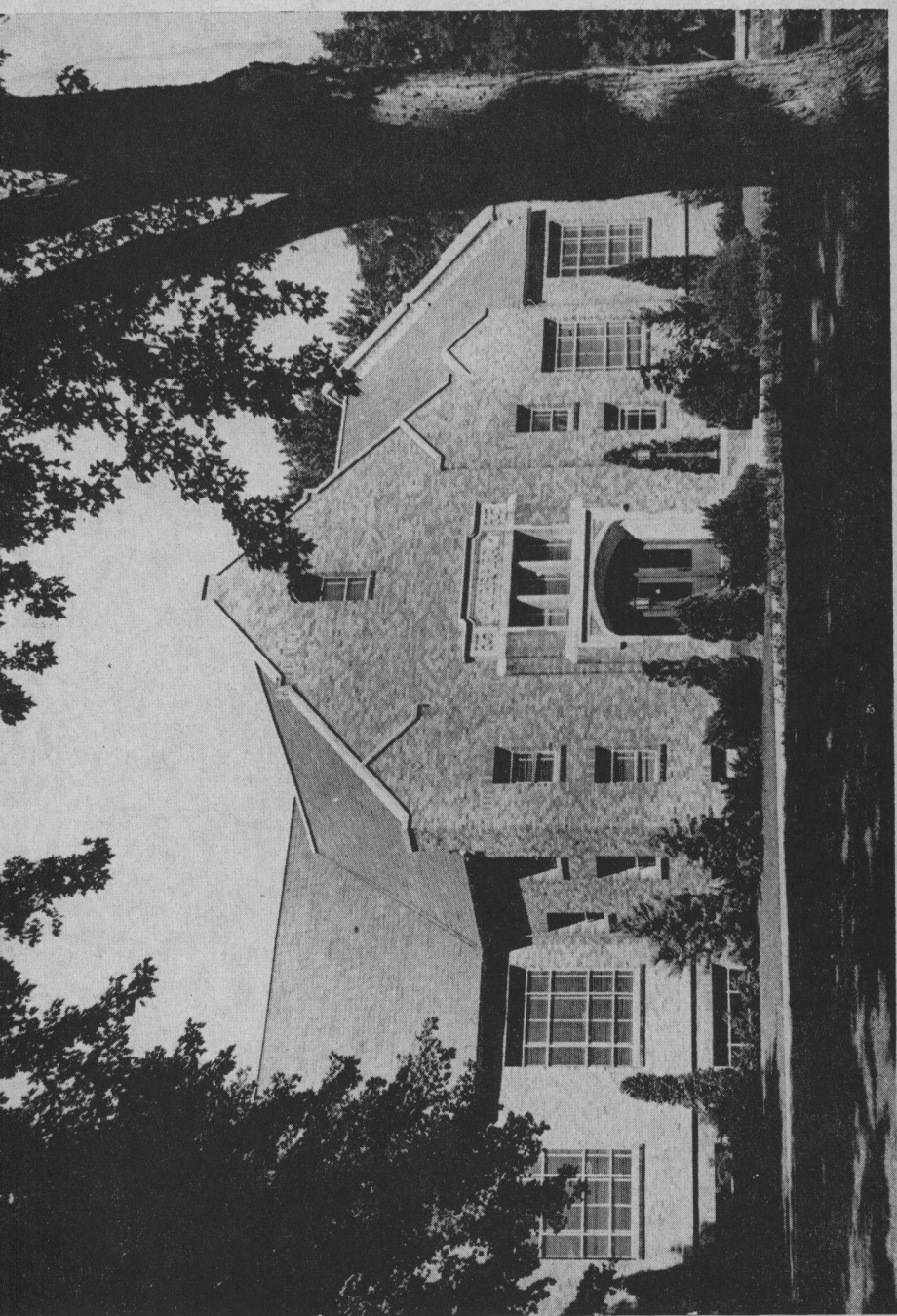
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1956		JUNE					1956	
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Calendar for the Year 1955-'56

SUMMER QUARTER

Registration.....Tuesday, June 7
Close of summer quarter.....Friday, Aug. 19

AUTUMN QUARTER

All freshmen arrive on campus.....Sunday, Sept. 11
Freshman tests, 8:00 a.m., 1:00 p.m.....Monday, Sept. 12
Freshman convocations, attendance required.....Monday, Sept. 12
Registration of sophomores, juniors, and seniors, 9:00 a.m., 1:30 p.m.
Monday, Sept. 12
Registration of freshmen, 8:30 a.m., 1:30 p.m.....Tuesday, Sept. 13
General Registration, 8:30 a.m., 1:30 p.m.....Wednesday, Thursday, Sept. 14, 15
Freshman classes begin, 7:30 a.m.....Thursday, Sept. 15
Faculty-Student reception, 7:30 p.m.....Thursday, Sept. 15
All other classes begin, 7:30 a.m.....Friday, Sept. 16
First vesper service, 7:30 p.m.....Friday, Sept. 16
Annual field day.....Tuesday, Oct. 4
Thanksgiving recess.....Nov. 23, noon, to Nov. 28, 7:30 a.m.
Instruction ends, 12:00 noon.....Friday, Dec. 2

WINTER QUARTER

Registration of new students.....Sunday, Dec. 4
Instruction begins, 7:30 a.m.....Monday, Dec. 5
Christmas recess.....Dec. 21, noon to Jan. 3, 7:30 a.m.
Instruction ends, 12:00 noon.....Wednesday, March 7

SPRING QUARTER

Registration of new students.....Sunday, March 11
Instruction begins, 7:30 a.m.....Monday, March 12
Instruction ends, 12:00 noon.....Friday, May 25
Senior consecration service, 8:00 p.m.....Friday, May 25
Baccalaureate sermon, 11:00 a.m.....Saturday, May 26
Commencement, 2:00 p.m.....Sunday, May 27

PART I

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President
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Dean, Director Summer Session
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- FRANK W. PETERSON
Business Manager Emeritus
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Registrar
- A. J. JOHANSON, B. A.
Dean of Men
- To Be Supplied
Dean of Women
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Dean of Theology

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Assistant Librarian

RICHARD G. UBBINK, B. S.

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Professor of Zoology

Ph. D., Southern California

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M. A., University of Chicago

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 Ph. D., Washington State
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Professor of Chemistry
 Ph. D., Nebraska
- ROBERT H. BROWN
Professor of Physics
 Ph. D., Washington
- PERCY W. CHRISTIAN
Professor of History
 Ph. D., Northwestern
- C. W. DORTCH
Professor of Voice
 M. Mus., Texas State Teachers College
- STERLING K. GERNET
Professor of Piano and Theory
 Ed. D., Temple
- FREDRICK R. HANSON
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
- AGNES L. SORENSON
Professor of Modern Languages
 M. A., Michigan
- CLAUDE E. THURSTON
Professor of Chemistry
 Ph. D., Washington State

• STANLEY E. WALKER

Professor of Theory and Pipe Organ

M. Mus., Northwestern

A. A. G. O.

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Professor of History

Ph. D., Stanford

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Associate Professor of Religion

M. A., Seventh-day Adventist Theological Seminary

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Associate Professor of Mathematics

M. A., Denver

STANLEY BULL

Associate Professor of Education

Ph. D., Michigan

EDWARD F. CROSS

Associate Professor of Engineering

M. E., Stevens Institute of Technology

M. A., Columbia

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Ph. D., California

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Associate Professor of Business Administration

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Associate Professor of Mathematics

M. S., Washington

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Associate Professor of Elementary Education

M. A., Minnesota

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Associate Professor of Chemistry

M. A., Nebraska

• HENRIQUE G. STOEHR

Associate Professor of Modern Languages

Dr., U. P., Paris

RAYMOND A. UNDERHILL

Associate Professor of Biology

Ph. D., Oregon State

MYRTLE WALKER

Associate Professor of Secretarial Science

M. A., Idaho

JOHN O. WALLER

Associate Professor of English

Ph. D., Southern California

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M. A., Michigan

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Assistant Professor of Chemistry

M. A., Catholic University

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M. Mus., Southern California

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M. E., Idaho

ESTHER SONNENBERG

Assistant Professor of English

M. A., Nebraska

CHARLES V. TEMPLE

Assistant Professor of Art

B. A., Colorado College

J. J. WALCKER

Assistant Professor of Industrial Education

B. S., Walla Walla College

GENEVIEVE STABLER-WEAVER

Assistant Professor of Secretarial Science

B. A., Walla Walla College

*Leave of absence, 1955-'56

✓ EUGENE S. WINTER

Assistant Professor of Physical Education

M. S., Washington State

✓ EVELYNNE F. WRIGHT

Assistant Professor of Home Economics

M. A., Oregon State College

✓ LULU HILL-MILLER

Instructor Emeritus in Art

LEWIS H. CANADAY

Instructor in Industrial Education

B. S., Walla Walla College

M. O. CHENEY

Instructor in Secondary Education

B. A., College of Idaho

✓ GEORGE B. GRIESE

Instructor in Secondary Education

M. A., Nebraska

MYRNA JOHNSON

Instructor in Secondary Education

B. A., Walla Walla College

LUCILLE A. JONES

Instructor in Nursing Education

R. N., Florida Sanitarium and Hospital

B. S., Washington Missionary College

MAE MACKLIN-LAY

Instructor in English and Speech

B. A., Walla Walla College

RICHARD L. LITKE

Instructor in Biblical Languages

M. A., California

MYRTLE ROWSE

Instructor in Secondary Education

B. A., Walla Walla College

HAROLD D. SCHWARTZ

Instructor in Secondary Education

M. A., Walla Walla College

J. RANDALL SLOOP

Instructor in Business Administration

B. A., Union College

CALVIN L. TRAUTWEIN

Instructor in Industrial Education

Ed. M., Oregon State

HORACE E. WEAVER

Instructor in Secondary Education

M. A., Seventh-day Adventist Theological Seminary

CECIL ASHLEY

Graduate Assistant in Engineering

B. S. in Engineering, Walla Walla College

GLEN W. COULSON

Graduate Assistant in Industrial Education

B. S., Walla Walla College

DALE SCHULER

Graduate Assistant in Engineering

B. S. in Engineering, Walla Walla College

HELEN PAPPAJOHN-VANDENBURGH

Undergraduate Assistant in Physical Education

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Bakery.....	LOYD HOFFMAN
Bindery.....	W. E. CUSHMAN
Construction.....	STANLEY SARGEANT
Dairy.....	A. O. HIEBERT
Farm and Herd.....	WALTER WERTH
Food Service.....	CLINTON WALL
Heat and Light.....	LELAND PARKER
Laundry.....	MRS. ELMER WHITEHOUSE
Press.....	R. L. COLLINS
Store.....	KATHLEEN KEEN-ZOLBER

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FACULTY SENATE

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ADMISSIONS

F. A. MEIER, IRENE BLACK, A. J. JOHANSON, Dean of Women, MARGUERITE APLINGTON.

PRE-MEDICAL and PRE-DENTAL

F. A. MEIER, L. M. ASHLEY, G. W. BOWERS, R. H. BROWN, A. J. JOHANSON, C. W. SHANKEL, R. A. UNDERHILL.

PERSONNEL

F. A. MEIER, H. J. ALCOCK, C. W. DORTCH, J. W. ROWLAND, LILAH SCHLOTTHAUER, MYRTLE WALKER.

PROGRAM

O. L. BRINKER, MARGUERITE APLINGTON, A. J. JOHANSON, Dean of Women, F. E. MECKLING, H. D. SCHWARTZ, ESTHER SONNENBERG, STANLEY E. WALKER, E. S. WINTER.

PUBLICATIONS

F. A. MEIER, R. L. COLLINS, CHARLES V. TEMPLE, J. O. WALLER.

VISUAL AIDS

E. S. BOOTH, BERNICE SEARLE, BEATRICE EMERY, J. J. WALCKER.

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Associated Students, Graduate Manager.....	R. A. UNDERHILL
<i>The Collegian</i>	JOHN O. WALLER
<i>The Mountain Ash</i>	C. V. TEMPLE
Nominating Committee, Associated Students.....	F. A. MEIER
Religious-Cultural Activities Committee.....	H. G. STOEHR
Social Activities Committee.....	DAISY SCHLUNTZ, MRS. HORACE E. WEAVER
Sabbath School.....	H. E. WESTERMAYER
Missionary Volunteers.....	J. R. SLOOP
Chiquita Sola.....	BEATRICE EMERY
Alpha Kappa Sigma.....	CALVIN TRAUTWEIN
Aurora Duxes.....	CECIL ASHLEY

PART II

The College and Its Aims

Walla Walla College is a four-year liberal arts college fully accredited with the following:

Northwest Association of Secondary and Higher Schools

Association of Seventh-day Adventist Colleges and Secondary Schools

University of Washington

Washington State College

The College 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.

General Information

Walla Walla College is located in the historic and fertile Walla Walla Valley. The scenic Blue Mountains to the east are but a few minutes' drive from the campus. The Old Oregon Trail, near the campus, leads directly to the site of the old Whitman mission and the scene of the Whitman massacre.

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

The campus is located in the town of College Place, and is about two and one-half miles from the city of Walla Walla. An hourly bus service connects College Place and Walla Walla. Transportation facilities to Walla Walla from other points include the Union Pacific and Northern Pacific Railroads, West Coast and United Airlines, and Greyhound Bus Lines. The latter stops at the College campus.

THE SCHOOL PLANT

Administration Building

The Administration Building is a three-story structure located in the center of the campus. Its ivy-covered walls symbolize the academic tradition and a rich history of service to students. The building houses classrooms, laboratories, teacher offices, and administrative offices.

Dormitories

Conard Hall offers every convenience for 218 women. The Conard Hall wing, completed in 1954, adds a large worship room done in church style, a recreation room, a large parlor, and 44 new student rooms. All student rooms have lavatories with hot and cold water. A modern communication system aids in making dormitory life more delightful.

Sittner Hall, the men's home, is one of the newer buildings on the campus. Erected in 1947, it houses 330 men, and is modern in every respect. A spacious lobby and parlor, a worship room seating 400, a recreation room, and attractive student rooms assure comfortable living.

Library

The College Library is a vital part of the educational program at Walla Walla College. The building, completed in 1944, is a fine, convenient, and well-planned library. 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 47,300 volumes besides unbound magazines and pamphlets. Approximately twenty-five hundred books are added annually. Four hundred and twenty-five magazines and newspapers are received regularly.

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 and the Walla Walla College Biological Station at Rosario Beach, Washington, on the Puget Sound.

Chemistry Building

The Chemistry Department is housed in a two-story brick veneer building located southwest of the quadrangle. The rather extensive accommodations include four classrooms, four laboratories, a library, a seminar room, three offices, a research room, and two stockrooms.

Clara E. Rogers Elementary School

The Rogers School, completed in 1952, is one of the most modern elementary school buildings in eastern Washington. The building has 27,000 square feet of floor space and contains nine large classrooms, teacher offices, library, curriculum laboratory, craft room, administrative offices, and a multi-purpose room for such activities as band, orchestra, or choir rehearsal. Five and one-half acres of playground area adjoin the school to the south and west. All these facilities provide an excellent experience for students in teacher-training.

Columbia Auditorium

Columbia Auditorium, a reinforced concrete gymnasium-auditorium with a seating capacity of over 2,000 persons, is equipped with a splendid pipe organ. The building serves the college community

adequately as an auditorium and as a gymnasium. The large floor provides ample space for physical education activities, games, and roller skating, while retaining the galleries for use of spectators.

Engineering Building

The Engineering Department has classrooms, a modern drafting room, a well-equipped materials testing laboratory, an electrical engineering laboratory, and operates the Consulting Engineering Office for both commercial and denominational projects.

Home Economics Cottage

The Home Economics Cottage and Loom House provide facilities for classrooms and laboratories. A new Cafeteria-Home Economics Building, now in the planning stage, is scheduled for erection in the near future.

Johnson Memorial Conservatory

The Conservatory and the annex provide the Music Department with studios, practice rooms, and an auditorium for recital purposes. Regularly scheduled listening hours make the records of a growing record library accessible to interested students.

Student Health Center

A Student Health Center with a full-time registered nurse as director is maintained on the campus. Clinical and hospital facilities, consultation rooms, treatment rooms, and other necessary facilities are available for student use.

Swimming Pool

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

Vocational Buildings

The various vocational departments have been planned to provide vocational training and also to offer students opportunities of partial self-support while in college. Students may learn auto mechanics, baking, book binding, carpentry, dairying, farming, general merchandising, laundering, metal working, poultry raising, printing, and wood-working.

The College Farm, consisting of 287 acres, raises hay, grains, sugar beets, and beans. The new college barn, erected in 1954, is one of the most modern installations in the Walla Walla Valley. A herd of approximately one hundred cows supply milk for the College and for commercial uses.

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 should plan 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 receive the benefits provided by these laws, the veteran must obtain a certificate of Authorization and Training Allowance from the Veterans Administration. Application blanks may be secured at any Veterans Administration Office or at the Office of Veteran Affairs at Walla Walla College.

P.L. 550 and P.L. 894 veterans pay school expenses direct to the business office, as non-veteran students do. Subsistence checks are mailed by the Veterans Administration direct to the trainee at the end of each calendar month; however, these checks are not sent out until

the Veterans Administration has received a certification from the Walla Walla College Office of Veteran Affairs to the effect that the veteran trainee was enrolled in and pursuing an approved program of education and training, and that his conduct, progress, and attendance were satisfactory. 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 1050 offers a training in missionary endeavor and church organization.

The Sabbath School provides leadership training and teaching experiences for 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, and Sunshine, are under the direction of this organization.

Prayer Bands

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

STUDENT ORGANIZATIONS

Associated Students

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

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 for the special interests of their group. These organizations include the Theology Club, Gymkhana Club, Pegasus Club, International Relations Club, Beta Mu, Circulo Castellano, Teachers of Tomorrow, Collegiate Nursing Club, Industrial Education Club, Business Club, A Tempo Club, Chemistry Club, Engineering Club, Biology Club, The Practiques Club, and the Toastmixers 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. 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 10:50 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.

Unexcused absences from dormitory worship are subject to discipline.

Preparatory Students

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

PART IV

Administration of the Curriculum

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.

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

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.

Reading Performance

All freshman students will take an examination to determine the rate of speed and comprehension in reading. Those who fall below an established minimum are expected to register for a course designed to improve their reading performance.

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.

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 $1\frac{1}{2} \times 2$ 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 by the Admissions Committee. Failure to file credentials early may result in delayed acceptance, or unsatisfactory classifications.

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

A student who is allowed to register temporarily may 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 normally required for entrance. Entrance requirements for the collegiate nurses are listed under School of Nursing. See page 122. (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.

†Two units of history are highly recommended for Engineering.

*Algebra and geometry are entrance requirements for Pre-medical and Engineering courses. Collegiate nurses need two units of mathematics, unspecified.

**Physics and chemistry are highly recommended for Engineering.

‡Foreign language not required for Engineering.

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.

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. Applicants who in the opinion of the Admissions Committee are able to carry college work but who do not fulfill the specified pattern for regular admission may be admitted subject to definite arrangements for making up deficiencies.

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 may be asked to withdraw from the College. 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.

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 and the major professor.

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. Sophomores, juniors and seniors may register for 18 quarter credits provided their average for the previous quarter 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 or Chemistry, and to the Master of Arts degree with a major in Education. For details see the respective departments, pages 52 and 73.

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.† An audited course may not be taken for credit at a later time.

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, *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

†Except in Art and Industrial Education, in which case the regular charge is made.

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, 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 or Registrar's office, and are due in the Dean's office two weeks before the close of the quarter. 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 the close of the next quarter.

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.

Ordinarily, 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

However, in counsel with the major professor, a sophomore may be permitted to take Junior numbered courses (100-149) if:

- He has all the prerequisites for the course; and
- His progress in his chosen objective would be jeopardized otherwise; and
- If his scholarship ability has been proven.

All such registrations will be subject to review by the Academic Standards Committee.

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 of the Academic Standards Committee;

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 who wish to receive credit for work done by extension during the regular academic year must receive permission from the Academic Standards Committee. Credits for such extension should be in one 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. Records from all such schools previously attended must be submitted.

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 quarter 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 under thirty years of age 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 requirement 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.

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. A student may take more than one quarter of a single activity provided he meets the above requirements.

PART V

Senior College Curriculum

GRADUATION

Degrees

The College offers courses leading to the following degrees:

Bachelor of Arts

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 on a major for the Bachelor of Arts degree, unless the excess include 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 except in Engineering or Music.

Majors may be obtained in the following:

	Page		Page
Business Administration	58	Medical Technology	41
Chemistry	62	Modern Languages	92
Dietetics	89	Music	95
Education (General Certificate)	68	Nursing, Collegiate	123
Engineering	129	Physical Education*	109
English	79	Physics	113
German	93	Religion	46
History	83	Secretarial Science	116
Home Economics	88	Spanish	92
Industrial Education	134	Zoology	51
Mathematics	91		

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: Biology, Botany, Business Administration, Chemistry, Secondary Education, English, German, History, Home Economics, Industrial Education, Journalism, Mathematics, Music, Physical Education, Physics, Political Science, Recreation, Religion,[†] Secretarial Science, Social 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 in 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

*Two approved minors are required.

**See exception to this in Engineering Department.

†A minor in Religion requires 30 hours.

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.

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.

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., 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 resident three additional quarters.

Vocational Credit

The vocational requirements for a Bachelor's degree may be met by presenting nine credits from: Industrial Education, 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.

Students must earn nine quarter hours of vocational credit in an area other than that in which they are already proficient.

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 or *Bachelor of Science may be conferred upon students who have fulfilled the requirements hereafter indicated:

*See exceptions in Nursing Education and Collegiate Nursing.

1. Complied with all entrance requirements. (See page 27).
2. Completed 192 quarter credits of college work as indicated under the various curriculums. 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, Biology, or Mathematics	12
Vocational	9
Physical Education and Health	6
††Medical Cadet Corps (men only)	3

Students pursuing curriculums in Business, Dietetics, Education (General Certificate), Secretarial Science, Medical Secretary, Home Economics, Industrial Education, Engineering, Medical Technology, Music Education, and Nursing Education may be excused from foreign language, if they have met the entrance requirement of two units.

†The course Fundamentals of Christian Belief or Advanced Bible Doctrines, or the equivalent, is required for graduation of every student. One quarter of Denominational History and Spirit of Prophecy is highly recommended. World Religions and Manuscripts of the Bible do not help satisfy the 24-hour minimum requirement or apply on a minor.

*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.

††Not required of Veterans or students who have had it in an academy or an official Medical Cadet Camp. M.C.C. automatically meets one-half of the Physical Education requirement.

Bachelor of Science—Science or Mathematics Major

This outline is for science students completing a minimum of 90 hours in combined science and mathematics. Three of the elementary courses in Mathematics, Physics, Chemistry or 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 or M.C.C.	$\frac{1}{2}$ -1	Physical Education or M.C.C.	$\frac{1}{2}$ -1	Physical Education or M.C.C.	$\frac{1}{2}$ -1
	17		17		17

SECOND YEAR

Religion	2	Religion	2	Religion	2
Physics	4	Physics	4	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	$\frac{1}{2}$
	16 $\frac{1}{2}$		16 $\frac{1}{2}$		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		—		—
	16		16		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
	16		16		16

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

Bachelor of Science—Medical Technology

FIRST YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Inorganic Chem.	4	Inorganic Chem.	4	Inorganic Chem.	4
Elem. Zoology	4	Elem. Zoology	4	Elem. Zoology	4
Freshman Comp.	3	Freshman Comp.	3	Freshman Comp.	3
U. S. History	3	U. S. History	3	U. S. History	3
Religion	2	Religion	2	Religion	2
Physical Education or		Physical Education or		Physical Education or	
M.C.C.	½-1	M.C.C.	½-1	M.C.C.	½-1
	—		—		—
	17		17		17

SECOND YEAR

Qual. Anal.	3	Elem. Grav. Anal.	3	Elem. Volumetric Anal.	3
Microbiology	5	Anat., Phys., & Health	6	Anat., Phys., & Health	6
Religion	2	Religion	2	Religion	2
Prin. of Education	3	Elective	3	Gen. Psychology	3
Speech	2	Speech	2	Speech	2
Physical Education	½	Physical Education	½	Physical Education	½
	—		—		—
	15½		16½		16½

‡THIRD YEAR

Organic Chemistry	3	Organic Chemistry	3	Organic Chemistry	3
Religion	2	Religion	2	Religion	2
Physics	4	Physics	4	Physics	4
Educ. Psychology	3			Biochemistry	4
†Elective	4	†Elective	7	†Elective	3
	—		—		—
	16		16		16

FOURTH YEAR

The student will transfer to the Laboratory at the Portland Sanitarium and Hospital for his fourth-year program.

†For the third-year electives, the student should give consideration to meeting the Literature requirement for graduation; the balance of his elective should also be directed toward the liberal arts.

‡A student must earn at least 30 hours of upper division credit in his third year.

PART VI

Pre-Professional Curriculums

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 6-12, Quantitative 3-6, Physics 12, Biology (or Zoology) 12, Embryology 3, 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 8-12. Some schools require 9 hours of language and 3-6 hours of quantitative analysis.

PRE-LAW

Students wishing to follow a career in law may enroll at Walla Walla College for three years and then enter upon a combined cooperative degree program at the Willamette University College of Law. Under this arrangement, qualifying students will be awarded the degree of Bachelor of Arts from Walla Walla College upon the satisfactory completion of the first year of law study and will subsequently become eligible for the LL.B. degree at Willamette University.

During the three years of study at Walla Walla College, the student must satisfactorily complete 147 quarter credits which shall include satisfying the degree requirements with a major in Business Administration combined with a minimum of 6 credits in Speech and 3 credits in Political Science. A minimum grade point average of 1.5 must be maintained.

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

MEDICAL TECHNOLOGY

(Laboratory Technicians)

Students taking this course and receiving a degree from Walla Walla College will follow the outline on page 41. Students who plan to receive a degree from the College of Medical Evangelists will include under electives language 12[†] and U. S. Government 3.

Some schools will admit a few students with exceptional scholarship on the completion of two years of college work, but such are not eligible for a degree.

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.

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

This course is not offered but one year of college work can be taken here without discount on the regular course.

PHARMACY

Two years of the five-year course can be taken in any Liberal Arts college, and should include the following:

English, 9; Public Speaking, 3; U. S. History, 9; Principles of Economics, 9; Mathematics, 8; Psychology, 9; Zoology, 9; Botany, 3; Physiology, 5; Bacteriology, 5; Inorganic Chemistry, 15; Quantitative Chemistry, 5; Organic Chemistry, 10.

PRE-NURSING

Prerequisite: The student should consult the bulletin of the school in which she is interested for prerequisites. The minimum requirements are one year of college work. Recommended subjects: Religion, Eng-

[†]The foreign language requirement may be satisfied by two units of foreign language in high school.

lish, General 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 123 and 124 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.

Practical Nurse Training Curriculum

This is a twelve-months' vocational course given at the Portland Sanitarium and Hospital campus of Walla Walla College. Students who satisfactorily complete this course and who desire to complete their degree at Walla Walla College will receive 17 hours of credit toward a degree (12 in Vocational Nursing, 2 in Bible, and 3 in Health Principles). A certificate will be given by the College upon completion of the course.

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 Education, which begin on page 121.

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 is 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 1955-'56.*

The School of Theology

Mr. Heubach, Mr. Rowland, Mr. Alcock, Mr. Balharrie, Mr. Litke, Mr. Stoehr

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

Application for admission and the minimum requirements for entrance into the School of Theology are the same as those of the College.

The selection of candidates for the ministry is made on the basis of scholarship, spiritual qualities, social sympathies and skills, and cultural refinement. Students are admitted to upper division standing in the School of Theology only upon approval of the Theology staff.

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 or lower division Daniel and Revelation.[†]

(b) For sophomores: Fundamentals of Christian Belief. This course, or Advanced Bible Doctrines, or the equivalent, is required of all students for graduation, and, therefore, may be taken by transfer students in their junior or senior year if necessary.

(c) For students on the junior level: upper division 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 junior or senior year, the general college Religion requirement may not be fulfilled with courses in applied theology.

Comprehensive Examinations

The graduates from the School of Theology are required to take a

[†]Religion majors may not elect lower division Daniel and Revelation.

comprehensive examination prior to completing work toward a degree in Religion.

Bachelor of Arts

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 during any quarter of his course the student's grades fall as low as .50 grade point average, he will be placed on probation. If the student does not show improvement during the following quarter, he will no longer be considered a candidate for ministerial internship. Should he desire to continue, he must apply to the Theology staff for special consideration.

For graduation, 192 credits are required, which must include at least one minor. It is strongly recommended that students pursue courses in Education as elective credit in order to meet teaching certification requirements.

Major: A major in Religion requires 57 credits which must include the following:

	credits		credits
Life and Teachings of Jesus	6	Hebrew Prophets	6
Fundamentals of Christian		Advanced Bible Doctrines	6
Belief	6	Theory of Evangelism	4
Daniel and Revelation (u. d.)	9	Field Evangelism	3
Spirit of Prophecy and		New Testament Epistles†	6
Denominational History	6	Seminar	2
Homiletics	3		—
TOTAL			57

The following courses must also be selected by Religion majors:

	credits		credits
Greek I	12	Advanced Public Address	6
Greek II††	6	Ancient History or Archaeology	2
Parliamentary Procedure	2	Philosophy of Science	2
Essentials of Speech	4	Political Science†††	3
Church Music	3	History	16
U. S. History†††	3	Art of Counseling	2
Principles of Accounting	6	Speech (u. d.)	3

Minor: A minor in Religion consists of 30 credits, 9 of which must be upper division. Biblical Backgrounds, Manuscripts of the Bible, and World Religions do not apply on a minor.

†Greek III may be substituted.

††Students with language deficiencies must take 9 credits.

†††Students minoring in history must take 9 credits.

††††Not required of students who minor in history.

Bible Instructors' Curriculum

Young women planning to do Bible work as a life calling should follow the same curriculum as outlined for ministerial students, and receive the same degree. A modern language may be substituted for Greek.

1, 2, 3. *Biblical Backgrounds*. This is an introductory course to the life and times of the Old Testament. It begins with creation and closes with the events immediately preceding the birth of Jesus. It includes a brief survey of the history of God's chosen people through the time of Noah, Abraham, Moses, the Judges, the Kings, divided Israel, captivity of the ten tribes, captivity of the two tribes, the Restoration of the two tribes, and their hope of a promised Messiah. Two credits; autumn, winter, spring; T. Th., 12:05.

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, M. W., 8:25; Sec. D, T. Th., 8:25; Sec. E, T. Th., 10:15. Sec. F, T. Th., 7:30.

11, 12-13. *Daniel and the Revelation*. This is an elementary course in the study of these two books. 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., 10:15; Sec. B, M. W., 10:15; Sec. C, T. Th., 7:30; Sec. D, T. Th., 11:10.

91-92, 93. *Personal Evangelism*. This course is designed for young men and women desiring to learn methods of individual religious instruction, the techniques of meeting objections and the art of securing decisions. The preparation and giving of Bible studies will be featured in class and field activities. During the spring quarter, special attention will be given to Junior and Youth Evangelism. Two credits; autumn, winter, spring; 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. Three credits; autumn, winter, spring; M. W. F., 8:25.

121, 122, 123. *Spirit of Prophecy and Denominational History.* A careful review of the Gift of Prophecy in the remnant church. The bestowal of this gift in the beginning, after the fall of man, and its work during the centuries to the 1844 movement. The rise of the denomination in its connection with the prophetic movement of Revelation 10 and in its development during the last one hundred years is carefully studied. 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., 8:25; Sec. B, T. Th., 10:15.

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

141. *Homiletics.* This course covers the basic principles of sermon construction and delivery. Biblical topics are outlined and organized for public presentation. Students are assigned to various near-by churches where they obtain actual preaching experience throughout the year. During the winter and spring quarters, students should register for Advanced Public Address. (Speech Department) Three credits; autumn; M.W.F., 10:15.

151. *Religion in America.* In this course consideration is given to the rise of denominations in America, the European background, the religious diversity in the colonies, slavery controversy and resultant church schisms, the great religious awakenings and revivals, and the struggle for religious liberty. Three credits; autumn; M.W.F., 7:30.

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., 7:30.

153. *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; spring; M.W.F., 7:30.

155. *Manuscripts of the Bible.* A thorough review of the manuscripts that gave us the Word of God. The translations of the Bible are examined and specific attention is focused on the significant points for the minister and Bible instructor. Recent discoveries and recent work on manuscripts are reviewed. Two credits; winter; T.Th., 12:05.

161, 162, 163. *Advanced Bible Doctrines.* 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. *Theory of 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. Prerequisite: 51, 52, 53; 141. Two credits; autumn, winter; M.W., 11:10.

181A, 182A, 183A. *Field Evangelism*. Experience in evangelism is obtained by participating in the public and personal aspects of evangelistic work conducted in near-by communities and churches. One credit; autumn, winter; F., 11:10; spring as arranged.

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, place of writing, and the purpose for which it was written. Special attention is given throughout the year to those books which stress the fundamental gospel doctrines. The Pauline Epistles will be largely covered during the autumn and winter quarters, while Hebrews and the General Epistles will be studied in the spring quarter. Lectures, library assignments, and written reports. Two credits; autumn, winter, spring; T. Th., 10:15.

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; W., 12:05.

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. *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; arranged.

21, 22, 23. *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; arranged.

31, 32, 33; 131, 132, 133. *Display and Visualization*. The study of the decorative principles used in visualizing an idea, or arranging a display. One credit; autumn, winter, spring; T.Th., 11:10.

*Not offered 1955-1956.

41, 42, 43; 141, 142, 143. *Sculpture*. The study of form in three dimensions worked out in various materials such as wood, plaster, and paper. One credit; autumn, winter, spring; arranged.

51, 52, 53; 151, 152, 153. *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; arranged.

61-62-63; 161-162-163. *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; T. Th., 10:15; lab., T., 2:00-5:00.

71, 72, 73; 171, 172, 173. *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.

83. *Appreciation of Art*. This course will point out the great periods in art history. From examples of master work ideals and methods will be indicated to give meaning and practical application to the needs of today. Two credits; spring; T. Th., 8:25.

121, 122, 123. *Perspective Drawing*. Perspective Drawing is an intensified study of three dimensional representation in pencil, water color, and tempera paint. One credit; autumn, winter, spring; M.W.F., 10:15.

183. *Interior Design*. The comprehensive preparation of visual materials planned to identify and sell interior arrangements, furniture, and fixtures. Two credits; spring; T., 7:30. Laboratory, W., 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 in which a grade of C is earned will be allowed in courses numbered 200.
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 45 credits.
8. A minimum of 12 credits chosen from courses numbered 200 or above, the remainder must be chosen from courses numbered from 150 to 199.
9. 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.
10. 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.

Requirements for a minor in biology:

- (1) A minimum of 27 credits, 7 of which must be upper division.
- (2) Courses 1-2-3, 15-16 are required.

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.

7. *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; Sec. A, M.-Th., 10:15; Sec. B, M.-Th., 11:10.

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., 7:30.

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.

51. *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.

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; Sec. A, M.-F., 10:15; Sec. B, M.-F., 11:10.

55-56. *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.

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; T., 12:05.

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

166. *Sanitary Bacteriology*. Fundamental public health bacteriological procedures on foods, water, milk, blood, etc. Prerequisite: 7. 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., 12:05; 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., 12:05.

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., 12:05; 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 to four credits.

177-178. *Parasitology*. A systematic study of the morphology, life cycle, and the medical aspects of the protozoan, anthropol, 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., 8:25.

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., 11:10.

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., 12:05.

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., 12:05.

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; T., 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 7 miles south of Anacortes, Washington, at Rosario Beach, adjoining Deception Pass State Park. Buildings include 27 cottages of 3 to 4 rooms, a dining hall and kitchen, two laboratory buildings 25 x 30 feet, shop, garage, and supply building. Equipment includes 16 boats, several outboard motors, one 26-foot cabin cruiser, nets, seines, dredges, salt water aquaria, fresh water aquaria, floating dock, and much other equipment moved over from the main campus to the Biological Station just for the summer. During the first term of the summer school for 1955 the following courses will be offered from June 7 to July 15: 153, 181, 182, 183, 201, 202, 211, 229, 230, 235. During the second term, July 18 to August 19, the following courses will be offered: 4, 19, 106, 169, 192, 201, 202, 229, 230, 235. Students should make application with the Registrar for admission. Please ask for the bulletin and application blank of the Biological Station.

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 Alaska, and as far south as Mexico. The next trip will be to Mexico, December 7, 1955, to March 7, 1956, at which time courses 156, 186, 191, 199, and 230 will be offered.

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

Mr. Mehling

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

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
Total	33

Business majors must also meet the specific requirements that pertain to all the departments for the Bachelor of Arts degree except as noted:

1. Vocation requirement is met by Accounting courses.
2. Foreign language requirement may be waived if college entrance requirement of two units has been met.
3. Must complete Secretarial Science course 18, and Art, 2 credits (11 and 12 suggested), or their equivalents.

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

Cost Accounting 141-142-143 and Money and Banking 181-182-183, are required for the Bachelor of Science with a curriculum in Business Administration.

Suggested 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
Office Machines	1	Lettering	1	Lettering or Elec.	1
Physical Education or M.C.C.	$\frac{1}{2}$ -1	Physical Education or M.C.C.	$\frac{1}{2}$ -1	Physical Education or M.C.C.	$\frac{1}{2}$ -1
	—		—		—
	16		16		16

SECOND YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Inter. Accounting	3	Inter. Accounting	3	Inter. Accounting	3
Business Law	2	Business Law	2	Business Law	2
Religion	2	Religion	2	Religion	2
Gen. Psychology	3	Educ. Psychology	3	Prin. of Educ.	3
Science or Math.	4	Science or Math.	4	Science or Math.	4
Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$
Elective	$1\frac{1}{2}$	Elective	$1\frac{1}{2}$	Elective	$1\frac{1}{2}$
	—		—		—
	16		16		16

THIRD AND FOURTH YEARS

Offered in years ending in even numbers, 1955-'56, etc.

Cost Accounting	2	Cost Accounting	2	Cost Accounting	2
Marketing and Adv.	2	Marketing & Adv.	2	Marketing & Adv.	2
Business Management	3	Personnel Management	3	Business Finance	3
Seminar	2	Statistics	2	Statistics	2

Offered in years ending in odd numbers, 1956-'57, etc.

Money and Banking	2	Money and Banking	2	Money and Banking	2
Fund Accounting	3	Accounting Systems	3	Auditing Procedure	3
Tax Procedure	3	Prin. of Insurance	3	Real Estate	3

Selections from these courses will be supplemented with Religion and Minor or Elective to make full load of 16 hours per quarter. Accounting Problems will be offered whenever sufficient demand will fill a class.

Requirements for a minor in Business Administration:

LOWER DIVISION COURSES:

Principles of Economics
Principles of Accounting

Credits
9
9

UPPER DIVISION COURSES: (Elective) Choose 9 credits.

Course	Credits	Course	Credits
<i>Cost Accounting</i>	6	<i>Tax Procedure</i>	3
<i>Marketing and Advertising</i>	6	<i>Prin. of Insurance</i>	3
<i>Business Finance</i>	3	<i>Fund Accounting</i>	3
<i>Money and Banking</i>	6	<i>Real Estate</i>	3
<i>Public Finance</i>	6	<i>Personnel Management</i>	3
<i>Business Management</i>	3		

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.

14-15, 16. *Principles of Accounting*. Introduction to: accounting; books of original entry; ledgers; statements of condition and of operations; controlling accounts; sole proprietorships, partnerships, and corporations. No. 14 and 15 prerequisite to 16. Three credits; autumn, winter, spring; M. W. F., 7:30.

*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.

81, 82, 83. *Office Machines*. Instruction in the use of computing and adding machines. One credit maximum; autumn, winter, or spring; time arranged.

*89 or 139. *Principles of Insurance*. A study of insurance contracts, underwriting organizations, and insurance representation and procedures. Three credits; spring; M.W.F., 11:10.

91. *Special Accounting*. Operating statement; balance sheet; annuities, amortization; depreciation reserves, sinking funds; exercises in journalizing, posting, closing; elements of cost accounting; cost classification; cost systems. Designed for any student who desires a brief survey course in accounting. Not applicable on a Business Administration major or minor. Three credits; autumn; M. W. F., 7:30.

92. *Special 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. Designed for any student who desires a brief survey course in economics. Not applicable on a Business Administration major or minor. Three credits; winter; M. W. F., 7:30.

98. *Machine Accounting*. Training in the operation of the National Book-keeping machines as applied to various accounting systems. Prerequisite: 14-15, 16 or Sec. Sc. 51-52-53. One credit; winter; time arranged.

*Not offered 1955-1956.

*136. *Real Estate*. A survey course in the basic principles and problems of real estate management and appraisal. Three credits; spring; M. W. F., 7:30.

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.

*145. *Accounting Systems*. A study of diversified accounting systems, system construction and installation procedures. Prerequisite: 71-72-73. Three credits; winter; M. W. F., 10:15.

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.

*154-155-156. *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, coordination and production-management. Three credits; autumn; M. W. F., 10:15.

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

165. *Personal Management*. A survey of the human relations problems found in industry today. Three credits; winter; M. W. F., 10:15.

*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. Three credits; autumn; M. W. F., 7:30.

*174. *Fund Accounting*. A study of the application of accounting principles to trust funds, pledged funds, sinking funds, special tax funds and general funds accumulated for special purposes such as plant extension, debt retirement and operation of non-profit enterprises. Three credits; autumn; M. W. F., 10:15.

*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., 10:15.

177, 178, 179. *Accounting Problems*. Studies in equities and control of assets in C.P.A. type problems. Prerequisite: 24 credits of Accounting. Three credits; autumn, winter, spring; 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.

192, 193. *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. Prerequisite: Mathematics 1 or equivalent. No. 192 prerequisite to 193. Two credits; winter, spring; T. Th.. 8:25.

196. *Seminar*. Individual study of problems in the field of business or economics. Open only to majors in business administration. Two credits; offered on sufficient demand.

*197Bk. *Methods of Teaching Bookkeeping in the Secondary Schools*. The basic principles of teaching bookkeeping in the secondary school and the college. Class and laboratory. One credit; arranged.

CHEMISTRY

Mr. Bowers, Mr. Thurston, Mr. Shankel, Mr. Jones

Requirements for a Bachelor of Science degree with a major in Chemistry:

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

	Credits
Inorganic 21-22-23	12
Organic 111-112, 113	12
Analytical 74, 75, 76, 131 or 132	12
Physical 151-152, 153	12
Elect	3-12

51 minimum

Laboratory work must be taken concurrently with the theory.

(b) A minimum of 24 upper division credits.

(c) Minor fields should be in mathematics or physics. A double minor is recommended.

Regardless of minors, the following are required:

Mathematics 21, 22, 23, 51-52-53, Physics 54, 55, 56

Students looking forward to graduate study should plan on a minimum of 60 hours in chemistry.

Requirements for a Bachelor of Arts degree with a major in Chemistry:

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

	Credits
Inorganic	12
Organic and Biological	12
Analytical	9
Physical	8
Electives	7
	48

*Not offered 1955-1956.

Laboratory work must be taken concurrently with the theory.

(b) A minimum of 21 upper division credits are required.

(c) Any minor may be taken.

Regardless of the minor taken, the following are required:
Mathematics 21; Physics 51, 52, 53.

Requirements for a minor in Chemistry:

(a) Courses 21-22-23 and 111-112 or 91-92, 93.

(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; Sec. A, M.W.F., 7:30; Sec. B, 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.

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.

71, or 72. *Elementary Quantitative Analysis*. An introductory course for pre-professional students which outlines the theory and procedures for gravimetric and volumetric determination of various ions. Prerequisite: 21-22-23. Three credits; autumn or winter; T. Th., 8:25. Laboratory, Sec. A, M., 1-5; Sec. B, T., 1-5.

74. *Qualitative Analysis*. A study of the reactions of cations and anions in aqueous solutions together with a laboratory investigation of unknowns. Prerequisite: 21-22-23. Three credits; autumn; T. Th., 10:15. Laboratory, Sec. A, W., 1:00-5:00; Sec. B, Th., 1:00-5:00.

75. *Elementary Gravimetric Analysis*. An introduction to the theory of analytical chemistry which includes procedures for the gravimetric determination of various ions. Prerequisites: 21-22-23 and Mathematics 21. Three credits; winter; T. Th., 10:15. Laboratory, Sec. A, W., 1:00-5:00; Sec. B, Th., 1:00-5:00.

76. *Elementary Volumetric Analysis*. A continuation of course 75 with emphasis on volumetric procedures and laboratory practice in titration methods. Prerequisites: 21-22-23 and Mathematics 21. Three credits; spring; T. Th., 10:15. Laboratory, Sec. A, W., 1:00-5:00; Sec. B, Th., 1:00-5:00.

91-92, 93. *An Introduction to Organic Chemistry*. A short course designed to furnish a basis for the understanding of structural chemistry, systems, and nomenclature, and organic chemical reactions. Open to students in home economics, dietetics, pre dental, and other preprofessional courses not requiring graduation. Prerequisite: 1-2-3 or 21-22-23. Two credits; autumn, winter, spring; T. Th., 7:30.

91A-92A, 93A. *Introduction to Organic Chemistry Laboratory*. A laboratory course to accompany 91-92, 93. One credit; autumn, winter, spring; M., 2:00-5:00.

96. *Physiological Chemistry*. An introduction to the field of biochemistry with emphasis on the composition of foods, the processes of digestion, absorption, and assimilation. Some attention is also given to the products of body metabolism. Prerequisites: 1-2-3 or 21-22-23, and 91-92. Two credits; spring; T. Th., 7:30.

96A. *Physiological Chemistry Laboratory*. To accompany 96. A study of the preparation, properties, and behavior of various food products and related substances. One credit; spring; M., 2:00-5:00.

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.

*121. *Advanced Inorganic Chemistry*. A more detailed study of inorganic substances with emphasis on the metals, their preparation, and uses. Prerequisite: 21-22-23. Two credits; autumn; time arranged.

*123. *Advanced Qualitative Analysis*. A continuation of the theory introduced in 74, but applying more particularly to anions and their separations as well as salts and other solids. Prerequisite: 74. Three credits; spring; time arranged. Laboratory, four to six hours, arranged.

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, or 72. One lecture, one or two laboratories. Two or three credits; autumn, winter, spring; Lecture, arranged; Laboratory, T. Th., 1:00-5:00.

151-152, 153. *Physical Chemistry*. An introductory course in theoretical chemistry and electrochemistry. Prerequisite: Physics 51, 52, 53, or 54, 55, 56, Chemistry 71 or 72 and 111-112, 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. One credit; spring; 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.

*Not offered 1955-1956.



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.

168. *Advanced Organic Chemistry*. A study of the current theories in the field of aliphatic and aromatic chemistry. Prerequisite: 111-112, 113. Two credits; winter; time arranged.

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

EDUCATION

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

Teacher Certification

The Education Department of Walla Walla College is accredited by the State of Washington. A Provisional General Certificate, renewable yearly for a maximum period of five years, is 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 in 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 permitted to continue in a 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	18
(Freshman Composition 9, Speech 6, Literature 3)	
Science	12
(Biological and Physical)	
Health and Physical Education	7
Music	6
Social Studies	12
(U. S. History 9, Washington History and Government 3)	
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 Education, 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 15 to 24 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 an individual's program will vary because of interest area perferences and the need to meet requirements for both general education, and the particular program of concentration chosen.

PHASE II. Initial Teaching Experience.

The period of initial teaching experience is regarded as an integral part of the program of teacher education. During this phase the Provisional General Certificate is issued. This certificate may be renewed for the second year of teaching by outlining a program for a fifth year of teacher education which must include both general content and a time schedule. At least 12 quarter hours of this program must be completed before the certificate is renewed for the third year of teaching. The entire program must be completed within five years.

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 by the second summer or regular school year after the initial teaching experience, preferably the latter. It must be completed within five 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 of the Master of Arts degree in the fifth year of teacher education. possible to meet the General Certificate requirements and also those of the Master of Arts degree in the fifth year of teaching education.

Suggested Curriculum Outline for the Provisional General Certificate
(Elementary Education Concentration)

FIRST YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
†Biblical Backgrounds	2	†Biblical Backgrounds	2	†Biblical Backgrounds	2
Freshman Composition	3	Freshman Composition	3	Freshman Composition	3
Intro. to Education	3	Intro. to Education	3	Gen. Psychology	3
Teachers' Speech	2	Teachers' Speech	2	Teachers' Speech	2
School Arts	3	Prin. of Math.	3	Health Principles	3
School Management	3	Storytelling	1	Teaching of Nature	3
		Teaching of Bible	2		
Physical Education or		Physical Education or		Physical Education or	
M.C.C.	½-1	M.C.C.	½-1	M.C.C.	½-1
	—		—		—
	17		17		17

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
Directed Teaching I	1	Directed Teaching I	1	Directed Teaching I	1
Fund. of Music	2	Music in Ele. Schools	2	Music in Ele. Schools	2
Survey of Zoology	4	Survey of Physical Sci.	4	Survey of Botany	4
Teach. of Reading	3	Teach. of Social Studies	3	Teach. of Language Arts	3
Problems in P. E.	2	Problems in P. E.	2	Elective	2
	—		—		—
	16		16		16

THIRD YEAR

Spirit of Prophecy	2	Spirit of Prophecy	2	Spirit of Prophecy	2
Develop. Psychology	3	Develop. Psychology	3	Prin. of Geography	5
Directed Teaching II	2	Directed Teaching II	2	Directed Teaching II	2
U. S. History	3	U. S. History	3	U. S. History	3
*Elective	6	Child Literature	3	*Elective	4
	—	*Elective	3		—
	16		16		16

*Choose elective courses for broad areas.

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

FOURTH YEAR

Daniel and Rev.	2	Daniel and Rev.	2	Daniel and Rev.	2
Tech. in Sec. Subj.	2	Edu. Eval. & Guid.	3	Hist. of Pacific	
Directed Teaching III	2	Directed Teaching III	2	Northwest	3
*Elective	10-14	*Elective	9-12	Directed Teaching III	2
	—		—	State Manual	1
	16		16	Elective	8-10
					—
					16

*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
Teachers' Speech	2	Teachers' Speech	2	Teachers' Speech	2
Fund. of Music	2	Music in Ele. Sch.	2	Music in Ele. Sch.	2
Physical Education or		Physical Education or		Physical Education or	
M.C.C.	½-1	M.C.C.	½-1	M.C.C.	½-1
	—		—		—
	17		17		17

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
	—		—		—
	16		16		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
	—		—		—
	16		16		16

*Choose elective courses for broad areas.

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

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

FOURTH YEAR

Religion	2	Religion	2	Religion	2
Tech. in Sec. Subj.	2	Ed. Eval. and Guid.	3	Sec. School Curr.	3
Literature	3			Hist. of Pacific Northwest	3
Dir. Teaching III	2	Dir. Teaching III	2	Dir. Teaching III	2
*Electives	7	*Electives	9	*Electives	6
	—		—		—
	16		16		16

DENOMINATIONAL CERTIFICATION

Elementary Certificates

Teachers' elementary certificates are issued by the union conference department of education, with the single exception of the Life Elementary Certificate, which is issued by the General Conference Department of Education upon the recommendation of the union education secretary.

The regular teachers' elementary certificates are the life, the five-year, and the three-year. For complete information concerning these certificates, ask for Educational Leaflet No. 34, Department of Education. In general, the requirements are as follows:

I. *Life Elementary Certificate*

Issued only after successful teaching experience.

II. *Five-Year Elementary Certificate*

Requirements:

1. College graduation with a major in elementary education.
2. College graduation with a minimum of 39 quarter hours in Education, 30 of which shall be in elementary education. The latter credits must include the following:

- 3-5 Principles of Christian Education
- 3-5 Psychology and/or Child Growth and Development
- 3-5 School Management or Elementary School Administration
- 9 Elementary Methods
- 3 Directed Teaching

III. *Three-Year Elementary Certificate*

Requirements:

1. Completion of the requirements of the two or three-year elementary teacher-education curriculums with a minimum of 96 quarter hours. The following must be included:

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

- 9-15 Religion
- 6-8 Practical and Fine Arts
 - 3 Health and Physical Education
- 3-5 Principles of Christian Education
- 3-5 Psychology and/or Child Growth and Development
- 3-5 School Management or Elementary School Administration
 - 9 Elementary Methods
 - 3 Directed Teaching
- 2. College graduation with a minimum of 23 quarter hours professional education which must include all required education courses as listed previously.

Secondary Certificates

The General Conference Department of Education has provided five types of certificates for teachers of secondary subjects:

1. *Life Secondary Certificate*
2. *Five-Year Secondary Certificate*
3. *Provisional Secondary Certificate*
4. *Special Three-Year Vocational Permit*
5. *Honorary Life Secondary Certificate*

For complete information concerning these certificates, ask for Educational Leaflet No. 20, Department of Education.

The general requirements for the Five-Year Secondary Certificate are graduation from a Seventh-day Adventist College, and 27 quarter hours professional education. The 27 hours must include a minimum of 6 quarter hours of Directed Teaching and one course chosen from each of the following major areas.

- a. Principles of Christian Education
- b. Educational or Developmental Psychology
- c. Secondary Methods and Materials

Pursual of courses in the order listed below will prove desirable.

	Credits
1. Introduction to Education, 1, or	3
2. Principles of Education, 63	3
3. General Psychology, 57, 58, or 59	3
4. Educational Psychology, 61, or 62	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, 162, 163	6
10. Optional: Special Methods in Major Field, Counseling and Guidance, History of Education, Audio-Visual Education, School Administration and Supervision	4

Only six quarter credits of Psychology may count toward certification.

In addition to graduation from a college of the Association and 27 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 Education 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 (25-27 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 with 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., 12:05.

57, 58, or 59. *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; winter, M. W. F., 12:05; spring, M. W. F., 12:05.

61 or 62. *Educational Psychology*. This course emphasizes the application of psychological principles to the art of teaching. The responsibility of the school in developing a dynamic, social, and ethical personality is stressed. The practices of the modern school are studied in the light of empirical findings, experimental research, and case studies. Three credits; autumn, M. W. F., 12:05; winter, M. W. F., 11:10.

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

111, 112. *Developmental Psychology*. Two courses 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 acquaint 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 attendance, three hours laboratory, two credits; autumn, winter, spring; T., 5:00.

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; M. W., 2:00-4:00.

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; M. W., 2:00-4:00. 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.

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.

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; T., 4:00-5:00.

†Audio-Visual Education students may complete a maximum of 6 hours in courses of undergraduate and graduate standing.

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. Two credits; autumn, winter, spring; M.-F., time arranged for each student; T., 4:00-5:00.

105. *Child Literature*. A course designed to survey the field of children's literature. Three credits; winter; M. W. F., 12:05.

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. *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. One to six credits; autumn, winter or spring; W., 5:00-6:00 (winter); 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.

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

- 197H.Econ. *Methods of Teaching Home Economics*. See Home Economics.
 198-199Ind. *Methods of Teaching Industrial Education*. See Industrial Education.
 197PE. *Methods of Teaching Physical Education*. See Physical Education.
 197Ph. *Methods of Teaching Physics*. See Physics.
 197Sh. *Methods of Teaching Shorthand*. See Secretarial Science.
 197-198Sp. *Methods of Teaching Speech*. See Speech.
 197Typ. *Methods of Teaching Typing*. See Secretarial Science.

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.

212, 213. *Statistics*. Business Administration 192, 193 with additional topics. Prerequisite: Mathematics 1 or equivalent. No. 212 prerequisite to 213. Two credits; winter, spring; T. Th., 8:25.

†214, 215, 216. *Advanced Audio-Visual Education*. This course gives instruction in 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. In addition, it provides experience in making film strips and slides; in methods of copying material; study of equipment, and making lists of equipment and sources for securing audio-visual aids. Prerequisites: two credits from 171, 172, or 173. One hour attendance, three hours laboratory; two credits; four credits maximum; autumn, winter, or spring; T., 5:00.

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.

222. *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.

†Audio-Visual Education students may complete a maximum of 6 hours in courses of undergraduate and graduate standing.

223. *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. Great Teachers.* Outstanding ideas and ideals in educational theory and practice. 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

247. *Seminar.* Measurements and their social uses; character education; career planning; vocational education. Two credits; summer; T.Th., 10:10-12:00.

248. *Seminar.* Mental Health in Education. Current attitudes and viewpoints. Programs aimed at prevention of emotional maladjustments. Biological and psychological home and school practices conducive to optimal mental health. Two credits; summer; T. Th., 10:10-12:00.

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. Three credits; spring; M.W.F., 7:30.

*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.

291. *Thesis.* 4-6 credits.

ENGLISH and JOURNALISM

Mr. Aplington, Mr. Waller, Miss Sonnenberg, Mrs. Lay

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: 45 credits, 21 of which must be upper division.

DEPARTMENTAL

Credits

<i>Introduction to Literature</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

- **Old and Middle English (171, 172-173)
- English Renaissance Literature* (184, 185, 186)
- Neo-classic Literature* (167-168-169)
- **Dramatic Literature* (124, 125-126)
- **Western World Literature* (107, 108-109)

CHOOSE FROM FOLLOWING 3-12

- The Romantic Period* (161, 162, 163)
- **The Victorian Period* (154-155-156)
- American Literary Masters* (157, 158, 159)
- Literature of the English Bible* (189)
- Twentieth Century Literature* (82)

 45

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.

*Not offered 1955-1956.

**English 172 is prerequisite to English 166 and 173.

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; Sec. J, M. W. F., 11:10.

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. *Introduction to Literature*. A study of the basic principles, the philosophy and nature of literary art, and the technical terminology together with an analysis of examples of the various forms and types of poetry and prose. This is prerequisite to the literature classes unless the student shows that he has a working familiarity with the elements of literature. 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.

*Not offered 1955-1956.

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.

*107, 108-109. *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. 6

*124, 125-126. *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. 9

*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. 6

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.

161, 162, 163. *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., 11:10. 6

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. Prerequisite: 172. Three credits; spring; time arranged. 9

167-168-169. *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; T. Th., 12:05. 6

171, 172-173. *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. 9

184, 185, 186. *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; arranged. 9

189. *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.

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, 3

*Not offered 1955-1956.

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 Education Department courses 24-25, 26. Two credits; autumn, winter, spring.

91-92-93. *Printing II*. See Industrial Education 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.

*105 or 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; time arranged.

*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 credits; spring; time arranged.

*Not offered 1955-1956.

HISTORY, POLITICAL SCIENCE, AND SOCIAL SCIENCE

Mr. Westermeyer, Mr. Meckling, Mr. Hanson, Mr. Heubach

The purpose of the work in history is fivefold: to promote a better understanding of the past and an appreciation of the present; to broaden the cultural outlook and formulate a constructive philosophy of history and of life; to train in skills of research and evaluation; to show the relation between history and prophecy; to prepare teachers and social workers.

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

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

HISTORY

Major: A total of 54 credits including the two basic courses previously mentioned and two credits of seminar in history are required. Nine credits of Political Science and Social Science, selected in consultation with the head of the department, may be included in the 54 credits.

Minor: A total of 28 credits including the two basic courses and one credit of seminar in history are required. Three credits of Political Science or Social Science, selected in consultation with the head of the department, may also be included in the 28 credits.

LOWER DIVISION COURSES IN HISTORY

1, 2, 3. *History of Civilization.* A survey of world history from antiquity 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.

EUROPEAN HISTORY

111. *Archaeology and the Ancient Near East.* The archaeological findings of Babylon, Assyria, Egypt, Medo-Persia and minor nations and their relation to history. Two credits; autumn; T. Th., 12:05.

*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., 12:05.

*Not offered 1955-1956.

*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., 12:05.

*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.

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. Three credits; spring; M. W. F., 8:25.

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.

*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., 8:25.

184. *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.

*Not offered 1955-1956.

AMERICAN HISTORY

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. *American Diplomatic Relations*. 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.

*175. *History of Canada*. The French period, English Colonial period in relation to the United States, the National period, westward expansion. Three credits; winter; M. W. F., 8:25.

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.

*177, 178. *History of the South*. The first phase of this course is a study of the Old South from discovery to 1860. The accent then falls on investigation of reconstruction and the subsequent developments of the South, its role in national affairs and recent changes including the current scene. Two credits; autumn, winter; 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; W., 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; W., 12:05.

197. *Methods of Teaching History in the Secondary Schools*. The basic principles of teaching history in the secondary school. One credit; time arranged.

POLITICAL SCIENCE

The courses offered in Political Science aim to give an understanding of the functions of our government and of international relations, as a part of a liberal education; and a preparation for teaching, for religious liberty work, and for advanced study in law. A Political Science minor requires 28 credits. A minimum of twelve credits in cognate history courses are to be selected in consultation with the head of the department. Courses 53, 101, 151, 153, and

*Not offered 1955-1956.

165 are required. The remaining credits required for the minor may be chosen from the following:

61-62-63. *Business Law*. Six credits.

(See Business Administration)

166. *American Diplomatic Relations*. Two credits.

(See History)

161. *Public Opinion and Propaganda*. Two credits.

(See Social Science)

184. *Twentieth Century Totalitarianism*. Three credits.

(See History)

*53. *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; spring; M.W.F., 10:15.

*101. *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; autumn; M. W. F., 8:25.

151. *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; autumn; T. Th., 8:25 plus workshop.

152. *World Politics and International Relations*. A study of the political objectives of imperialistic nations, the position of the Vatican in world affairs, the relation between the League of nations and the United Nations organization, with emphasis on the emergence of the United States as a world power. Three credits; winter; M. W. F., 11:10.

165. *Political Theory*. A survey of the main schools of political thought from ancient times to the present, with emphasis on the development of democratic theories of government and the present-day clash of ideologies. Three credits; winter; M. W. F., 8:25.

SOCIAL SCIENCE

The courses offered in Social Science are designed to give an understanding of present-day problems of living; and prepare for social work, for foreign mission work, for family life, and for leaders of youth.

A total of 28 credits are required for a minor. Courses 2-3, 104, 172, and 173 are required. General Psychology and Political Science 53 are also required and apply on the minor. The remaining credits

*Not offered 1955-1956.

for the minor may be selected from other Social Science courses or the following courses:

61-62-63. *Business Law*. Six Credits.
(See Business Administration)

111, 112. *Developmental Psychology*. Six credits.
(See Education)

174, 175, or 176. *Recreational Leadership*. Two credits.
(See Physical Education)

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.

104. *The Field of Social Work*. A survey of the fields and methods of social work; the growth, organization, and function of public and private programs in the field of social welfare. For the social worker, as well as for the professions of teaching, nursing, medicine, and the ministry. Field trips arranged. Three credits; autumn; M. W. F., arranged.

105. *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.

107. *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; autumn; M.W.F., 11:10; summer; time arranged.

161. *Public Opinion and Propaganda*. A study of the problems and processes in the formation of public opinion and how public action may be organized through the use of propaganda and pressure groups. Consideration will be given to the influence of newspapers, magazines, pulpit, desk, radio, and television in moulding thought. Three credits; autumn; M. W. F., 8:25.

166. *The Art of Counseling*. Effective techniques will be considered for the solution of personal and personnel problems in family, church, and community. This course will be of special help to social workers, ministers, teachers, doctors, nurses, and others engaged in public work. Two credits; spring; T. Th., 8:25.

172, 173. *Life*. This course aims to contribute to the objectives of "the school that educates for life." Consideration will be given to the mysteries and challenges of life, to culture and refinement, to factors of heredity and environment, to conditions of the underprivileged and needy, to problems of adolescence and juvenile delinquency, to courtship and marriage, to family and community life. This course intends to aid social workers and all those who wish to help others, as well as better themselves.

Life is taught cooperatively by selected staff personnel. Lectures, panel discussions, readings, case studies, Cooperative and individual explorations of social problems, with reports. Two credits; winter, spring; arranged.

HOME ECONOMICS

Miss Schluntz, Miss Wright, Mr. Wall

Bachelor of Arts Degree

General Home Economics: This curriculum is broad and flexible and is designed for the general college student or those preparing for teaching. Those students wishing to teach should also plan to meet certification requirements. The requirements for the major are as follows:

- a. Forty-five credits in Home Economics including 1, 2, 3, 72-73, 171-172, and 186.
- b. Chemistry 1-2-3.
- c. Nine credits of biological science
or
Six credits of biological science and four credits of biochemistry
or
Nine to twenty-four credits modern language.

These courses shall be chosen in consultation with the head of the department.

Requirements for a minor in Home Economics:

- a. A minimum of 27 credits.
- b. Home Economics 1, 2, 3, 72-73, and 186.

Interior Design and Decoration: A curriculum with concentration in the fields of Home Economics and Art designed for those interested in professional areas such as department store, drapery or home furnishing consultants, and interior decoration. The requirements are as follows:

- a. Forty-five credits in Home Economics including 1, 2, 3, 141-142, 163, 171-102, 153, 164, 165, 186, and 196. Students interested in furniture design and construction may substitute selected Industrial Education courses for some of the above courses. Selection must be made in consultation with the head of the Home Economics department.
- b. Thirty credits in Art including 11, 12, 13, 21, 22, 23, 71, 72, 73, 83, 121, 122, 131, 132, 133, 151, 152, 153, 161-162-163, and 183.
- c. Industrial Education 33, 114, 116, 153.
- d. Physical Education and Recreation 124, 125.
- e. French and Chemistry for the language and science requirements are highly recommended.
- f. A four-week apprenticeship in a furniture store, drapery or furniture department, or decorator shop is highly desirable during the summer preceding or following graduation.

Bachelor of Science Degree

Dietetics: This curriculum meets all the requirements of the American Dietetics Association and prepares the student to enter a dietetic internship.

- a. Forty-five credits in Home Economics including 1, 2, 3, 141-142, 163, 171-172, 173, 174-175, 177, 178, and 186.
- b. Chemistry 1-2-3 or 21-22-23, and 91-92, 93.
- c. Biological Science 7 and 53.
- d. Business Administration 1-2-3 or Social Science 2-3.
- e. A minor in Chemistry is highly recommended.

1, 2. *Food Selection and Preparation.* 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, M. or W., 2:00-5:00.

3. *Meal Planning and Table 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, M. or W., 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. *Clothing Fundamentals.* A course presenting the fundamental processes of hand and machine sewing; construction and selection of simple garments. Three credits; autumn; T. Th., 8:25. Laboratory, M. or W., 2:00-5:00.

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. Prerequisite: 71 or its equivalent. Three credits; winter, spring; T. Th., 8:25. Laboratory, M. or W., 2:00-5:00.

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

101-102. *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., 2:00-5:00. Three 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 and Nutrition*. A study of the care and development of young children, with special reference to home education. Three credits; autumn, winter; M. W. F., 11:10.

153. *Advanced Weaving and Upholstering*. Originality in the construction and color combinations of hand-woven materials; upholstery and refinishing furniture. Prerequisite: 101-102. Three credits; spring; T., 2:00-5:00. Three 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; T. Th., 11:10. 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.

*177. *Institutional Food Purchasing*. Marketing operations, buying procedures, food selection and care. Inspection of merchandise at markets and wholesalers. Prerequisites: 1, 2, 3. Three credits; autumn; M. W. F., 10:15.

*178. *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; winter; M. W. F., 10:15.

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.

*186. *Seminar*. Required of all majors and minors. Studies of selected topics and reviews of current literature. Special investigation of problems. Two credits; spring; T. Th., 8:25.

*Not offered 1955-1956.

196. *Advanced Interior Decoration.* Advanced study in interior decoration with advice, estimates, and actual work on decorating problems. Must be taken the last quarter of the senior year. Three credits; spring; time arranged.

*197. *Methods of Teaching.* The principles and practices of teaching Home Economics in secondary schools and adult education classes. Special attention will be given to the newer methods of presentation in classroom, laboratory and community demonstrations. Prerequisite: at least 30 hours of Home Economics. Two credits; autumn; arranged.

LANGUAGES AND LITERATURES

The aim of the courses in 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. Fifteen quarter credits of college language fulfill entrance requirement.

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

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., 7:30.

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.

*Not offered 1955-1956.

*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., 12:05.

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., 11:10.

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., 12:05.

*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. Three credits; winter; M. W. F., 8:25.

165, 166. *Latin American Literature.* A survey of Latin American literature with special emphasis on the South American authors. Three credits; winter, 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., 11:10.

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., 11:10.

*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

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.

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 Conversion.* 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.

*Not offered 1955-1956.

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. Prerequisite: 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., 12:05.

*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.

*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.

GREEK

Mr. Litke

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 its 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; M.-F., 7:30; winter, spring; M.-Th., 7:30.

61, 62, 63. *Greek II*. More extensive readings in I John, Revelation and selections 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., 11:10.

121, 122, 123. *Greek III*. 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., 10:15.

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, 3 of which must be upper division. 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.

1. *Intermediate Algebra*. A prerequisite to Mathematics 21 for students whose Mathematics Placement Test so indicates. Credit does not apply toward a Mathematics major or minor. Four credits; autumn; M.-Th., 8:25.

4-5-6. *Plane Geometry*. This course is designed for students who lack the geometry requirement for college entrance. (No credit if geometry was taken in high school.) Two credits; autumn, winter, spring; T. Th., 11:10.

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, 10:25; winter, M.-Th., 8:25.

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; Spring, M.-Th., 8:25.

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. *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 discriminants. 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.

*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., 7:30.

163. *Advanced Calculus*. Infinite series; implicit functions; Reimann integration. Prerequisite: 53. Four credits; spring; M.-Th., 7:30.

*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.

MUSIC

Mr. Walker, Mr. Dortch, Mr. Trubey, Mr. Gernet, Miss Miller,
my 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.

*Not offered 1955-1956.

Curriculum for Bachelor of Music

FIRST YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Applied Major	4	Applied Major	4	Applied Major	4
†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 or M.C.C.	½-1	Physical Education or M.C.C.	½-1	Physical Education or M.C.C.	½-1
	17		17		17

SECOND YEAR

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

THIRD YEAR

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

Junior Recital

**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.



FOURTH YEAR

Applied Major	4
**Choir, Orchestra, Band, or Small Ensemble	1
Composition	2
Orchestration	2
Instrumental or Choral	
Conducting	3
Religion	2
Elective	2
	—
	16

Applied Major	4
**Choir, Orchestra, Band, or Small Ensemble	1
Composition	2
Orchestration	2
Instrumental or Choral	
Conducting	3
Religion	2
Elective	2
	—
	16

Applied Major	4
**Choir, Orchestra, Band, or Small Ensemble	1
Composition	2
Orchestration	2
Instrumental or Choral	
Conducting	3
Religion	2
Elective	2
	—
	16

Senior Recital

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
Applied Major	2
*Piano	1
Brass Methods	1
**Band, Orchestra, or Choir	0
Theory I	4
Religion	2
Freshman Comp.	3
Hist. of Civilization	3
Physical Education or M.C.C.	$\frac{1}{2}$ -1
	—
	17

Winter Quarter	Credits
Applied Major	2
*Piano	1
Brass Methods	1
**Band, Orchestra, or Choir	0
Theory I	4
Religion	2
Freshman Comp.	3
Hist. of Civilization	3
Physical Education or M.C.C.	$\frac{1}{2}$ -1
	—
	17

Spring Quarter	Credits
Applied Major	2
*Piano	1
Brass Methods	1
**Band, Orchestra, or Choir	0
Theory I	4
Religion	2
Freshman Comp.	3
Hist. of Civilization	3
Physical Education or M.C.C.	$\frac{1}{2}$ -1
	—
	17

SECOND YEAR

Applied Major	2
Woodwind Methods	1
Voice Methods	1
**Band, Orchestra, or Choir	1
Theory II	4
Music Literature	2
Religion	2
General Psychology	3
Physical Education	$\frac{1}{2}$
	—
	16 $\frac{1}{2}$

Applied Major	2
Woodwind Methods	1
Voice Methods	1
**Band, Orchestra, or Choir	1
Theory II	4
Music Literature	2
Religion	2
Educational Psych.	3
Physical Education	$\frac{1}{2}$
	—
	16 $\frac{1}{2}$

Applied Major	2
Woodwind Methods	1
Voice Methods	1
**Band, Orchestra, or Choir	1
Theory II	4
Music Literature	2
Religion	2
Prin. of Education	3
Physical Education	$\frac{1}{2}$
	—
	16 $\frac{1}{2}$

*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.

THIRD YEAR

Applied Major	4	Applied Major	4	Applied Major	4
String Methods	1	String Methods	1	String Methods	1
Percussion Methods	$\frac{1}{2}$	Percussion Methods	$\frac{1}{2}$	Percussion Methods	$\frac{1}{2}$
**Band, Orchestra, or Choir	1	**Band, Orchestra, or Choir	1	**Band, Orchestra, or Choir	1
Directed Teaching	2	Directed Teaching	2	Directed Teaching	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	$\frac{1}{2}$	Elective	$\frac{1}{2}$	Elective	$\frac{1}{2}$
	15		15		15

FOURTH YEAR

Applied Major	4	Applied Major	4	Applied Major	4
Piano Methods	1	Piano Methods	1	Piano Methods	1
**Band, Orchestra, or Choir	1	**Band, Orchestra, or Choir	1	**Band, Orchestra, or Choir	1
Orchestration	2	Orchestration	2	Orchestration	2
Instrumental or Choral Conducting	3	Instrumental or Choral Conducting	3	Instrumental or Choral Conducting	3
History of Music	3	History of Music	3	History of Music	3
Religion	2	Religion	2	Religion	2
	16		16		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	Winter Quarter	Credits	Spring Quarter	Credits
Applied Music	2	Applied Music	2	Applied Music	2
**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
Music Literature	2	Music Literature	2	Music Literature	2
Religion	2	Religion	2	Religion	2
Freshman Composition	3	Freshman Composition	3	Freshman Composition	3
Language	3	Language	3	Language	3
Physical Education or M.C.C.	$\frac{1}{2}$ -1	Physical Education or M.C.C.	$\frac{1}{2}$ -1	Physical Education or M.C.C.	$\frac{1}{2}$ -1
	17		17		17

**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.

SECOND 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
Theory II	4	Theory II	4	Theory II	4
Religion	2	Religion	2	Religion	2
Hist. of Civilization	3	Hist. of Civilization	3	Hist. of Civilization	3
Health Principles	3	**Elective or Minor	3	**Elective or Minor	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 $\frac{1}{2}$

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
General Psychology	3	Educational Psych.	3	Prin. of Education	3
**Elective or Minor	2	**Elective or Minor	2	**Elective or Minor	2
	<hr/> 16		<hr/> 16		<hr/> 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
	<hr/> 16		<hr/> 16		<hr/> 16

Senior Recital

Music Minor

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.

*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 second and third years.

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

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; T. Th., 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.

*Not offered 1955-1956.

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.

***21-22-23. String 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; M. W. F., 8:25.

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

*Not offered 1955-1956.

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; F., 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., 12:05.

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 participate 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.

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., 5:30.

INSTRUMENTAL ENSEMBLES

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

**See courses listed under Music Education.

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; T. Th., 9:20; 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., 7:30-9:30 p.m.; Th., 9:20.

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. If student teachers are available their pupils may receive one-half credit. The grade and credit are jeopardized if the student fails to take the minimum lesson requirement—9 lessons or 18 lessons depending on whether he takes one or two lessons a week.

Music majors are required to take lessons on their chosen instrument each quarter 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 for all majors.

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, Guilmant, 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. Guilmant: 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:* Spohr 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; Spohr 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 Pils, Feldman, Goedicke, Fitzgerald, Haydn, Hindemith. Intensive concentration upon transposition by clef, using Etudes of Sachse and orchestral trumpet parts.

TROMBONE

Trombone I. Clef 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.* Freshman 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; arranged.

4, 5, or 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, or 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; or 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; 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., 12:05.

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; arranged.

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, Mrs. VanDenburgh

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 and 9 hours of upper division.

Requirements for a Minor in Recreation.

27 credits including courses 97, 98, 99, 104, 105, 123, 124, 125, 126; 2 credits from 174, 175, 176; and 187.
Biology minor highly recommended. A minimum of 4 credits of Biology required.

Bachelor of Science—Curriculum in Physical Education

The following suggested curriculum will give a student a Bachelor 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	Language	3	Language	3
Elective	3	Anat., Phys., & Hlth.	6	Anat., Phys., & Hlth.	6
Gen. Psych.	3	Physical Education or		Physical Education or	
Physical Education or		M.C.C.	½-1	M.C.C.	½-1
M.C.C.	½-1				
	—		—		—
	15		15		15

*This can be counted on an Education minor; if so, the student should plan on taking 16 elective credits in P.E.

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
History	3	Ed. Psychology	3	Prin. of Education	3
Literature	3	History	3	History	3
Swimming	1	Elective	3	Elective	3
Elective	3	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.	3	Campcraft & Man.	3
Vocational	3	Vocational	3	Vocational	3
Education	3	Education	3	Education	3
Elective	5	Community Rec.	3	Elective	5
—	—	Elective	2	—	—
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
Elective	5-6	Elective	8-9	Elective	8-9
—	—	—	—	—	—
16		16		16	

1-2-3. *Freshman Physical Education.* Calisthenics, games, and contests in season. Required of all freshman students. One-half credit; autumn, winter, spring; Men, Sec. A, M. W., 12:05; Sec. B, T. Th., 10:15; Sec. C, T. Th., 11:10. Women, Sec. A, T. Th., 8:25; Sec. B, T. Th., 9:20; Sec. C, T. Th., 3:00.

7, 8, 9. *Restricted Physical Education.* A course outlined for those unable to take regular Freshman Physical Education. One-half credit; autumn, winter, spring; time arranged.

**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.

43. *Baseball.* Spring; M. W., 3:00.

46. *Track and Field Sports.* Spring; time arranged.

47, 48, 49. *Roller Skating.* Autumn, winter, spring; T. Th., 7:30.

**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.

- 51, 53. *Golf*. Autumn, spring; M. W., 2:00; T. Th., 2:00.
52. *Basketball*. Winter; Men, M. W., 4:00. Women, T. Th., 5:00.
- 54, 55, 56. *Beginning Swimming*. Autumn, winter, spring; time arranged.
- 57, 58, 59. *Weight Lifting*. Autumn, winter spring; time arranged.
- 61, 62, 63. *Badminton*. Autumn, winter, spring; Men, M. W., 11:10. Women, T. Th., 5:00.
- 64, 65, 66. *Beginning Tumbling*. Autumn, winter, spring; time arranged.
- 67, 68, 69. *Advanced Tumbling*. Autumn, winter, spring; time arranged.
71. *Touch Football*. Autumn; time arranged.
72. *Skiing*. Winter; time arranged.
73. *Tennis*. Spring; Men, Sec. A, M. W., 8:25; Sec. B, M. W., 11:10. Women, Sec. A, T. Th, 7:30; Sec. B, T. Th., 10:15.
- 74, 75, 76. *Tumbling and Apparatus*. Autumn, winter, spring; time arranged.
- 77, 78, 79. *Trampoline*. Autumn, winter, spring; time arranged.
- 81, 82. *Volleyball*. Men, autumn, M. W., 4:00; winter, M. W., 3:00. Women, autumn, T. Th., 5:00.
83. *Archery*. Spring; T. Th., 3:00.
86. *Softball*. Spring; Men, M.W., 11:10. Women, T.Th., 3:00.
- 87, 88, 89. *Advanced Swimming*. Autumn, winter, spring; time arranged.
93. *Water Safety*. Spring; time arranged.
- 95, 96. *Life Saving*. 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 Games and Seasonal Sport Activity*. A course outlined to develop basic skills in tumbling apparatus and various sports activities in the field of physical education. Two credits; autumn, winter, spring; M. W., 2:00-4:00.

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.

*Offered only when school year ends on odd number.

104. *Theory of Play.* A course outlined to provide a basis for the need of recreational activity for all age groups. Three credits; 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.

164, 165, 166. *Advanced Arts and Crafts.* Continuation of 124, 125, 126, with special emphasis upon teaching methods, preparation of teaching aids, sources of material, cost, etc. Two credits; autumn, winter, spring; time arranged.

*174, 175, or 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.

**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; autumn, winter, spring; T. Th., 12:05.

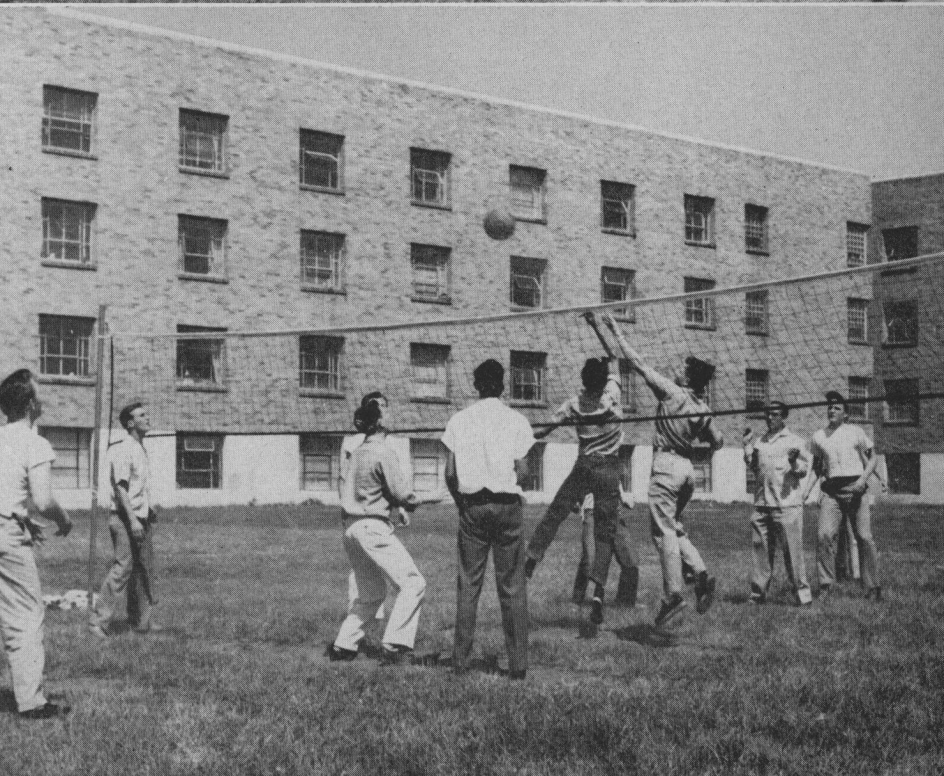
187. *Summer Camps.* A summer course outlined to give practical work in actual camp situations in connection with our denominational camps. Two to five credits; two to six weeks in summer by arrangement.

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.

*Offered only when school year ends on odd number.

**Offered only when school year ends on even number.



PHYSICS

Mr. Brown, Mr. Brinker

The individual with a general interest in physics may elect to take the degree of Bachelor of Arts with a physics major. Those who expect to teach are advised to follow the program outlined on page 40 for the Bachelor of Science degree. For those who plan on a career in scientific research or in engineering research and development, the College offers the degree of Bachelor of Science with curriculum in Physics.

For the degree of Bachelor of Arts or of Bachelor of Science with a physics major, the following courses are required: Industrial Education 71-72-73; Chemistry 21-22-23, and Physics 101, 101A, 103, 103A, 151-152, 161, 162-163, 171. *Mechanical Engineering 51-52 may be substituted for Physics 151-152, and Mechanical Engineering 112 may be substituted for Physics 171.* The general requirements for these degrees are given on pages 36-40. The requirements for the degree of Bachelor of Science with Curriculum in Physics are outlined below.

*Course of Study for Degree of Bachelor of Science
with Curriculum in Physics*

FIRST YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
College Algebra	4	Plane Trigonometry	4	Anal. Geometry	4
Inorganic Chem.	4	Inorganic Chem.	4	Inorganic Chem.	4
Freshman Comp.	3	Freshman Comp.	3	Freshman Comp.	3
Engineering Drawing	3	Engineering Drawing	3	Engineering Drawing	3
Religion	2	Religion	2	Religion	2
Physical Education or M.C.C.	$\frac{1}{2}$ -1	Physical Education or M.C.C.	$\frac{1}{2}$ -1	Physical Education or M.C.C.	$\frac{1}{2}$ -1
	—		—		—
	17		17		17

SECOND YEAR

Calculus	4	Calculus	4	Calculus	4
Surv. of Metal Prac.	3	Surv. of Metal Prac.	3	Surv. of Metal Prac.	3
Introd. Physics	4	Introd. Physics	4	Introd. Physics	4
Qual. Analysis	3	Essen. of Speech	2	Essen. of Speech	2
Religion	2	Religion	2	Religion	2
Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$
	—		—		—
	16 $\frac{1}{2}$		15 $\frac{1}{2}$		15 $\frac{1}{2}$

THIRD YEAR

History of U.S.	3	History of U.S.	3	History of U.S.	3
Religion	2	Religion	2	Religion	2
Optics	3	Optics	3	Optics	3
or Theor. Mech.	3	or Theor. Mech.	3	or Mech. of Mat.	4
Elec. & Magnet.	4	Eng. Electronics	4	Atomic Physics	4
Elec. Measur.	2	Electronics Lab	2	Atomic Physics Lab.	2
Diff. Equations	4	Diff. Equations	4	Adv. Calculus	4
				or Health Prin.	3
	—		—		—
	18		18		18

FOURTH YEAR

Theor. Mech.	3	Theor. Mech.	3	Mech. of Mater.	4
or Optics	3	or Optics	3	or Optics	3
Heat	4	Spec. Prob. in Physics	3	Spec. Prob. in Physics	3
*Relig. & Electives	8-9	*Relig. & Electives	8-9	*Relig. & Electives	5-8
				Health Principles	3
				or Adv. Calculus	4
	—		—		—
	15-16		14-15		15-18

22. *Survey of Physical Science.* 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. Does not apply on a Physics major or minor. Four credits; winter; M. W. F., 10:15. Laboratory arranged.

51, 52, 53. *General Physics.* An introductory course in mechanics, heat, electricity, sound, light, and atomic physics directed specifically to students whose interest in physics is of a general, cultural nature. Emphasis is placed on the contribution of physics to modern thought and experience. Prerequisite: Two units of secondary school mathematics. Physics 51 prerequisite for 52 or 53. Corequisite: Physics 51A, 52A, 53A. Three credits; autumn, winter, spring; M. W. F., Sec. A, 7:30; Sec. B, 8:25.

51A, 52A, 53A. *General Physics Laboratory.* Laboratory course integrated with Physics 51, 52, 53. One credit; autumn, winter, spring; one three-hour period per week.

54, 55, 56. *Introductory Physics.* An introductory course in machines, heat, sound, light, and electricity designed to give the science and the engineering major a preparation for his future work. Basic mathematical principles are emphasized. Physics 54 prerequisite for 55 or 56. Mathematics 51-52-53 and Physics 54A, 55A, 56A, corequisite. Three credits; autumn, winter, spring; M. W. F., 10:15.

54A, 55A, 56A. *Introductory Physics Laboratory.* Laboratory course integrated with Physics 54, 55, 56. One credit; autumn, winter, spring; one three-hour period 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 or 54, 55, 56, and Mathematics 51-52-53. Four credits; autumn; M.-Th., 11:10.

*A minimum of 6 hours upper division religion and 12 hours elective required in the fourth year. Suggested courses for the electives are German 51, 52, 53, 109, Chemistry 151-152, 153, Mathematics 171, 172, 173, and Mechanical Engineering 111, 161-162-163.

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. *Engineering 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 recent developments in nuclear physics. Prerequisite: 51, 52, 53 or 54, 55, 56, 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. Two credits; spring, M W., 2:00-5:00.

*151-152. *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 or 54. Three credits; autumn, winter; 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 or 54, 55, 56, and Mathematics 51-52-53. Three credits; autumn, winter, spring; T. Th., 10:15; laboratory, W., 2:00-5:00.

171. *Heat*. A course in the elementary principles of temperature and heat measurement, kinetic theory, change of state, and thermodynamics. Prerequisite: 51, 52, 53 or 54, 55, 56, and Mathematics 51-52-53. Four credits; autumn; time arranged.

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*. Basic principles of teaching physics in the secondary school and the college. The student may assist with a laboratory section. Registration only upon permission of the supervising instructor. One to three credits; time arranged.

SECRETARIAL SCIENCE

Miss Walker, Mrs. Weaver

Requirements for a major in Secretarial Science leading to the Bachelor of Arts degree shall include courses 51-52-53 (or Business Administration 14-15; 16; 61-62-63; 77-78-79; twenty-two credits in upper division including 157-158-159; 167-168; 181. Cognate requirement: Business Administration 1-2-3; 81, 82, or 83.

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
Office Machines	1	Elective	1	Elective	1
Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$
	16 $\frac{1}{2}$		16 $\frac{1}{2}$		16 $\frac{1}{2}$
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
Lettering (L. D.)	1	Lettering (L. D.)	1	Lettering (L. D.)	1
Elective	2 $\frac{1}{2}$	Elective	2 $\frac{1}{2}$	Elective	2 $\frac{1}{2}$
Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$
	16		16		16
THIRD YEAR					
Religion	2	Religion	2	Religion	2
History	3	History	3	History	3
Science	4	Science	4	Science	4
Display & Visual. (U.D.)	1	Display & Visual. (U.D.)	1	Display & Visual. (U.D.)	1
**Elective	6	**Elective	6	**Elective	6
	16		16		16
FOURTH YEAR					
Religion	2	Religion	2	Religion	2
Office Procedure	3	Office Procedure	3	Office Procedure	3
Adv. Dictation	3	Adv. Dictation	3	Denominational Dic.	3
				Sec. Practice	2
Elective	8	Elective	8	Elective	6
	16		16		16

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

†Special Typing may be substituted by permission of the instructor. See course 13A.

**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.

Requirements for a minor in Secretarial Science:

	Credits
<i>Shorthand.</i> (Above Freshman level)	9
<i>Advanced Typing.</i>	6
<i>Office Procedure.</i>	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 General Chem.	4	‡Zoology or General Chem.	4	‡Zoology or General Chem.	4
Physical Education	1½	Physical Education	1½	Physical Education	1½
	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	Elective	1	Elective	1½
Physical Education	1½	Physical Education	1½	Physical Education	1½
	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	3	History	3	History	3
History of Nursing	3	Elective	2	Elective	2
	16		16		16

FOURTH YEAR

Religion	2	Religion	2	Religion	2
Adv. Dictation	3	Adv. Dictation	3	Medical Dictation	3
Parasitology	3	Parasitology	3	Secretarial Practice	2
Elective	8	Elective	8	Elective	9
	16		16		16

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

†Special Typing may be substituted by permission of the instructor. See course 13A.

‡Students continuing with Nursing should take General Chemistry.

11-12-13. *Typewriting I*. Theory and practice of touch typing; frequency drills; rhythm drills; business letter forms; tabulating; manifold; statement work; figures; speed practice. Minimum speed requirement for six 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.

13A. *Special Typewriting I*. A refresher course 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: 35 words per minute. One credit maximum; spring; M. W. F., 11:10.

18. *Personal Typewriting*. A non-departmental course emphasizing the techniques of touch typewriting as applied to business and personal use. Speed 25-35 words per minute. Five class periods per week. An extra class may be held on a sixth day for those who need it and attendance may be required. Two credits; winter; M.F., 12:05.

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. 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. *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.

54, 55, or 56. *Switchboard*. Instruction in the organization and the operation of a PBX system; thirty hours switchboard practice with special instruction on the development of a pleasing telephone personality. One credit maximum; autumn, winter, or spring; time arranged.

61-62-63. *Advanced Shorthand and Transcription*. Advanced application of principles and phrases of Gregg shorthand; dictation and transcripts covering vocabularies of representative businesses; legal forms and civil service. Prerequisite: 21-22-23 or equivalent. Speed requirements: 120 words per minute with satisfactory transcription. Three credits; autumn, winter, spring; M.W.F., 8:25.

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 six 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., Sec. A, 7:30; Sec. B, 10:15.

88 or 89. *Voice Transcription*. Introduction to the various voice transcription machines available on the campus. Thirty hours transcription practice from the dictaphone, including knowledge of letter forms, punctuation, and related transcription skills. One credit maximum; winter, or spring; time arranged.

97, 98, or 99. *Electric Typewriting*. Development of skill in the operation and use of the electric typewriter. Prerequisite: 77-78-79 plus recommendation of

major professor. Thirty hours per quarter. One credit maximum; autumn, winter, or spring; time arranged.

157-158-159. *Office Procedure*. Instruction in general office duties; letter writing; filing; duplicating; and business ethics. Three hours laboratory per week. Prerequisite: 61-62-63 and 77-78-79 or by special arrangement. Three credits; autumn, winter, spring; T. Th., 10:15; lab. T. 1:00-4:00.

167-168. *Advanced Dictation*. Vocabulary study; advanced phrase writing, speed dictation and transcription. Prerequisite: 61-62-63 or equivalent. Speed requirement: 130 to 140 words per minute with a minimum transcription rate of 35 words per minute. Three credits; autumn, winter; M. W. F., 10:15.

169. *Denominational Dictation*. Denominational vocabulary study; dictation and transcription with special emphasis on denominational terminology. Prerequisite: 167-168. Three credits; spring; M. W. F., 10:15.

*179. *Medical Dictation*. Medical vocabulary study. Dictation and transcription with special emphasis on medical terms. Prerequisite: 167-168, Anatomy, Physiology and Health, and Microbiology. Three credits; spring; M. W. F., 10:15.

181, 182 or 183. *Secretarial Practice*. Practical office experience. Six hours laboratory each week in campus offices. Two credits; autumn, winter or spring; time 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.

SPEECH

Mrs. Lay, Mr. Balharrie

Departmental Requirements

A minor in speech** consists of 27 credits, of which nine must be in the upper division.

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. Walla Walla College operates its own limited broadcast campus radio station, with remote lines from Columbia Auditorium, Conard Hall, the Music Conservatory, the College Chapel, Sittner Hall, College Clinic, Powerhouse, and Laundry.

1-2, or 5-6. *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. Two credits; autumn, winter; Sec. A, T. Th., 7:30; Sec. B, T. Th., 8:25. Two credits; winter, spring; Sec. C, M. W., 8:25.

*Not offered 1955-1956.

**Must include Speech 1-2 or 5-6.

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; M. W., 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., 7:30.

56. *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; spring; T. Th., 8:25.

84-85-86. *Teachers' Speech.* A course designed especially for those working for the General Certificate. The fall and winter quarters are spent in a study of the various types of speech disorders, their diagnosis, and their treatment. In the spring quarter a basic course in the organization and delivery of speeches is given. Special consideration is given to the speech situations which the teacher will meet. Two credits; autumn, winter, spring; T. Th., 12:05.

111, 112. *Speech Composition and Analysis.* A comprehensive treatment of speech organization, content, and delivery. Two credits; autumn, winter; T. Th., 11:10.

113. *Extempore Speech.* A course stressing the practical application of speech to the student's major field of interest. It includes the study of the formal report as well as the study of speeches for social and business occasions with practice both inside and outside the classroom. Two credits; spring; T. Th., 11:10.

123. *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; spring; M. W. F., 11:10.

142, 143. *Advanced Public Address.* Special attention is given to the preparation and delivery of sermons and other types of public speeches. Adequate opportunity for practice is provided by the laboratory facilities of the department and through the numerous speaking appointments available in the surrounding cities and towns. Three credits; winter, spring; M. W. F., 10:15.

161-162. *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 or 5-6. Three credits; autumn, winter; M. W., 12:05; laboratory, Th., 2:00-5:00.

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 of Teaching Speech.* A study of the place of speech in education, basic principles of teaching speech in the secondary school, and a determination of the procedures of criticism and evaluation. Prerequisite: 18 credits of speech, including 1-2 or 5-6. Two credits; autumn, winter; time arranged.

*Not offered 1955-1956.

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 Selfe, Miss Blome, Mrs. St. Clair, Miss Hausler, Miss Wareham, Miss House, Miss Downey, Miss Kempf, Miss DeMerice, Mrs. Braun, Miss Wadsworth, Miss Scheresky

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. 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

Walla Walla College School of Nursing is *fully accredited by the National Nursing Accrediting Service*. The School of Nursing has been approved as a member of the *Association of Seventh-day Adventist Colleges and Secondary Schools*, and as an accredited school by the *Washington State Board of Professional Nurse Registration*. 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 Association for Internships*. The program of the School of Nursing has been given *full approval by the Collegiate Board of Review of the Department of Baccalaureate and Higher Degree Programs of the National League for Nursing*.

Admission

Admission to the School of Nursing is granted by the Admissions Committee of the College. The following credits must be included among the sixteen required for college entrance into the School of Nursing:

Bible 3 units, or 1 unit each year in attendance in a Seventh-day Adventist academy to the extent of 3 units

English 3 units

Mathematics 2 units

History 1 unit

Science 1 unit (biology or physics recommended)

Vocation 1 unit (typing recommended)

In addition to the above, two more units from one or two of the following fields: Mathematics, foreign language, literature or science. (Two units of foreign language recommended.)

Completion of the first three quarters' work at the Campus Division does not automatically admit the student to the Hospital Division.

Nursing classes will enter the Hospital Division of the School twice per year, on the first Monday in January and Monday following June 21. 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.

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 curriculum 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 with a curriculum in nursing education.
- V. Course outline for graduate study in nursing leading to a Master of Arts degree with a major 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
General Chemistry	4	General Chemistry	4	General Chemistry	4
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/> 17 $\frac{1}{2}$		<hr/> 17 $\frac{1}{2}$		<hr/> 17 $\frac{1}{2}$

Hospital Division

4th Quarter	Credits	5th Quarter	Credits	6th Quarter	Credits
Intro. to Nursing	9	Medical Nursing	3	Medical Nursing	2
Physical Therapy	3	Surgical Nursing	2	Surgical Nursing	3
Foods & Nutrition	3	Diet Therapy	3	Pharmacology	2
Intro. to Nurs. Prac.	2	Pharmacology	3	Social Problems	3
		Med. Nurs. Prac.	5	Surg. Nurs. Prac.	5
		Ministry of Jesus		Spir. Min. in Nurs. Care	2
		in Healing	2		
	<hr/> 17		<hr/> 18		<hr/> 17
7th Quarter	Credits	8th Quarter	Credits	9th Quarter	Credits
Adv. Med. & Surg. Spec.	6	Comm. Dis. Nurs.	3	Family Health	2
Tech. & Operating		Med. Nurs. Prac.	2	Instr. Prep. for	
Room Prac.	5	Diet Th. &		Home Nursing	2
Fund. of Christian Belief	2	Phys. Th. Prac.	3	Obstetric Nursing	4
		Fund. of Christian Belief	2	Obstet. Nurs. Prac.	6
	<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
		Pediatric Nurs. Prac.	6	Surg. Nurs. Prac.	3
				(incl. I.V. & Ortho.)	
	<hr/> 10		<hr/> 12		<hr/> 8

13th Quarter	Credits	14th Quarter	Credits
Ward Manag. & Teach.	3	Prof. Adjustments	3
†Public Health		Med. Nursing Prac.	2
Nursing Practice	2-4	Senior Nurs. Prac.	4
Surg. Nurs. Prac.	2-4	Fund. of Christian Belief	2
	—		—
	9		11

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

Group I

15th Qr. (Autumn)	Credits	16th Qr. (Winter)	Credits
Adv. Bible Doct.	3	Adv. Bible Doct.	3
Meth. & Mat. in		Meth. & Mat. in	
Child & Youth Hlth.	3	Com. Hlth. Educ.	3
History of Nursing	3	Trends in Nursing	3
Cultural Foundations	3	Ed. Psych.	3
**Electives	4	**Electives	4
	—		—
	16		16

Group II

15th Qr. (Spring)	Credits	16th Qr. (Summer)	Credits
Adv. Bible Doct.	3	Adv. Bible Doct.	3
Meth. & Mat. in		History of Nursing	3
Child & Youth Hlth.	3	Ed. Psych.	3
Meth. & Mat. in		Cultural Foundations	3
Com. Hlth. Educ.	3		
Trends in Nursing	3		
**Electives	4	**Electives	4
	—		—
	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

**Preferred electives: History, literature, speech, art, music, World Religions.

†When available.

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:

- a. Graduation from an accredited secondary school or its equivalent and meeting school of nursing entrance requirements.
- b. Completion of the pre-nursing curriculum.
- c. Graduation from an accredited Seventh-day Adventist school of nursing or its equivalent.

Students in Nursing Education graduating from non-Collegiate schools are expected to take the Graduate 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
Methods and Materials in Child and Youth Health, or	3
Methods and Materials in Community Health Education	3
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
General Chemistry	12
Microbiology	5
Freshman Composition	9
Education	6
Religion	6
Electives	10

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 and HEALTH

Mr. Hanson, Mrs. Jones, Miss Emery, Miss Schluntz

7. *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; Sec. A, M.-Th., 10:15; Sec. B, M.-Th., 11:10.

14, 15, or 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; or 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. Three credits; autumn; M. W. F., 12:05.

*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 intergrated in this course. Five hours attendance, three hours laboratory. Six credits; winter, spring; Sec. A, M.-F., 10:15; Sec. B, M.-F., 11:10.

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., 12:05.

*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 or 159. *Directed Teaching.* Practical experience in conducting a Red Cross class in home care of the sick. Prerequisite: 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.

*165 or 166. *Principles of Public Health Nursing.* A study of the principles, objectives and development of public health nursing. Functions of the public health nurse will be included. Three credits; winter; M. W. F., 7:30; or spring; M. W. F., 11:10.

167 or 169. *Methods and Materials in Child and Youth Health.* An analysis of the most important health problems of children and youth. A study of the principles, methods, and materials used in teaching health to these age groups. Practice will be given in selection, organization, and presentation of these materials. Three credits; autumn; M. W. F., 7:30; or spring; M. W. F., 7:30.

*Not offered 1955-1956.

*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. Three credits; winter; M. W., 10:15. Field work 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 or 176. *Trends in Nursing.* A seminar and conference class on trends in nursing. Analysis of the needs of the professional nurse. Nursing organizations are studied, and discussion of present conditions and problems in the field of nursing will be included. Three credits; winter or spring; M. W. F., 10:15.

178 or 179. *Methods and Materials in Community Health Education.* A study of the principles, methods, and materials used in disease prevention and health conservation. Experience will be given in participation in such programs in the community. Three credits; winter; M. W. F., 7:30; or spring; M. W. F., 11:10.

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, except on a provisional basis, until such deficiency is removed.

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. An affiliation with Atlantic Union College has been established, following such a plan.

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. Where these conditions do not hold, a grade of D will necessitate repeating the course, whether it is engineering or non-technical in nature.

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 major professor 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 or M.C.C.	$\frac{1}{2}$ -1	Physical Education or M.C.C.	$\frac{1}{2}$ -1	Physical Education or M.C.C.	$\frac{1}{2}$ -1
	17		17		17

SECOND YEAR

Religion	2	Religion	2	Religion	2
Intro. Physics	4	Intro. Physics	4	Intro. Physics	4
Calculus	4	Calculus	4	Calculus	4
Eng. Mech.	4	Eng. Mech.	4	Surveying	4
*Survey of Metal Pract.	3	*Survey of Metal Pract.	3	*Survey of Metal Pract.	3
Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$
	17½		17½		17½

Mechanical Engineering

THIRD YEAR

Religion	2	Religion	2	Religion	2
Special Accounting	3	Special Economics	3	Sanitary Eng.	3
Elec. & Magnet.	4	Eng. Electronics	4	Atomic Phys.	4
Elec. Measure.	2	Electron. Lab.	2	Atom. Phys. Lab.	2
Fluid Mechan.	4	Thermodynamics	4	Mech. Materials	4
Mechanism	2	Mechanism	2	Mechanism	2
Mech. Eng. Lab. I	1	Mech. Eng. Lab. I	1	Mech. Eng. Lab. I	1
	18		18		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
Eng. Materials	2	Eng. Materials Lab.	1	Eng. Materials Lab.	1
Structural Design	3	Structural Design	4	Structural Design	4
Machine Design	2	Machine Design	2	Power Plant Design	3
Mech. Eng. Lab. II	1	Mech. Eng. Lab. II	1		
	18		18		18

*Architectural students should substitute Architectural Design I, 61-62-63.

Architectural Engineering

THIRD YEAR

Religion	2	Religion	2	Religion	2
Special Accounting	3	Special 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	18	18	18

FOURTH YEAR

Religion	2	Religion	2	Religion	2
Eng. Admin.	3	Htg. & Air Cond.	3		
Structural Design	3	Structural Design	4	Structural Design	4
Eng. Materials	2	Eng. Materials Lab.	1	Eng. Materials Lab.	1
Design III	4	Design III	4	Design III	4
Electives	4	Electives	4	Electives	7
—	—	—	—	—	—
18	18	18	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. Three credits; autumn, winter, spring; M. W., 1:15-5:30.

ME 4-5-6. *Mechanical Drafting*. This course is intended for non-engineering students, primarily Industrial Education minors, who need a short but complete course in drafting. The class will meet with the Engineering Drawing section, and will follow a similar sequence of course material; however, time and work requirements will be less. Two credits; autumn, winter, spring; M. W., 1:15-4:15.

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: Introductory 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 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 HV planes; internal combustion cycles; vapor cycles; psychrometry; refrigeration; compressible fluids. Prerequisite: Physics 54, 55, 56; 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 117-118-119. *Mechanism*. A study of velocities, accelerations and motions, as well as a consideration of devices for the transferring of these motions and velocities. Prerequisites: ME 51-52, Physics 54, 55, 56. Two credits; autumn, winter, spring; M. W., 12:05.

*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. 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 54, 55, 56, 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 137, 138, 139. *Mechanical Engineering Laboratory I*. Instrument calibration, instrumentation, testing of heat engines and mechanical equipment, fluid flow. One credit; autumn, winter, spring; T., 2:00-5:00.

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., 2:00-5:00. (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., 2:00-5:00. (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 154, 155. *Mechanical Engineering Laboratory II*. Testing of mechanical equipment, boiler and auxiliaries, fuels and lubricants. One credit; autumn, winter; arranged.

*Not offered 1955-1956.

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; T.Th., 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 51-52, 113. Wood; elementary structural analysis, trusses, floor systems, beams, girders, and columns. Steel; design of simple structures, beams, columns, base plates, connections, bearing plates, portals, trusses, bents, tension and compression members. Reinforced concrete; forms, mixtures, posts, beams, slabs, T-beams, continuity, rigid frames. Three credits; autumn; M. W. Th., 8:25; Four credits; winter, 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. Four credits; autumn, M.-Th., 11:10. Three credits; winter, spring; M.-W., 11:10.

*Not offered 1955-1956.

PART X

Industrial Education

*Mr. Walker, Mr. Canaday, Mr. Trautwein, Mr. Coulson, Mr. Cowin, Mr. Cushman,
Mr. Hoffman, Mr. Losey*

The purpose of the Industrial Education Department is twofold: to prepare students for teaching industrial education or to train for various trades. Students planning on teaching must minor in education and include Industrial Education 194, 198-199. These courses should precede Directed Teaching. Students preparing for the trades should minor in business.

The offerings of the department allow for concentration in the following areas:

- a. Building Trades
- b. Graphic Arts
- c. Metalworking Trades
- d. Woodshop Trades

A combination of these areas may be selected by students preparing for teaching.

Terminal courses, to meet individual needs, are offered. Upon completion of these courses a certificate will be awarded.

Any nine-hour course meets the basic vocational requirement for graduation. Students wishing to fulfill this vocational requirement should contact the instructor involved.

Major: A major requires 54 credits, 24 of which must be upper division. Mechanical Engineering 1-2-3 or 4-5-6 is required† and applies on the major. The following courses may also be applied on the major:

Architectural Engineering 124-125-126, 134-135-136, 171-172-173, 181-182-183, Art 161-162-163, and Home Economics 164, 165.

Cognate requirements for the major are Mathematics 21 and Physics 51, 52, 53.

Minor: A minor requires 27 credits, 6 of which must be upper division. Mechanical Engineering 1-2-3 or 4-5-6 is required† and applies on the minor.

†E except in the Graphic Arts concentration.

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; T. Th., 7:30. Laboratory arranged.

102, or 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: IE 1, 2, 3. Two credits; one hour lecture, three hours laboratory (at garage); winter 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. *Field 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.

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; Sec. C, T., 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*. Basic principles of gas welding, oxy-acetylene cutting, bronze welding and brazing. Particular attention is given during the entire course regarding the safe use of equipment. Three credits; one hour attendance, M., 7:30; laboratory, M. or W., 1:00-6:00. Autumn.

55. *Arc Welding and Forging*. Basic techniques and processes of electric welding with attention to good design, correct and safe use of equipment, together with forging, forming, and heat treating of steel. Three credits; one hour attendance, M., 7:30; laboratory, M. or W., 1:00-6:00. Winter.

56. *Welding Problems*. Application of principles practiced in IE 54, 55, together with further study of special processes, with direct emphasis on production of assigned and student-selected projects. Prerequisite: IE 54 and 55 or equivalent. Three credits; 1 hour attendance, M., 7:30; laboratory, M. or W., 1:00-6:00. Spring.

*Not offered 1955-1956.

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 an Industrial Education 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 in theory and actual manipulation. Bench work, hand operations, and basic machine 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: IE 54 and 55. Two credits; one hour attendance and three hours laboratory; autumn, winter, spring; arranged.

*125. *Sheet Metal*. Pattern drafting and construction of assigned projects in different materials. Prerequisite: ME 4-5-6. Three credits; one hour attendance; W., 7:30; 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, shaping, and grinding, gear calculation and fabrication, with definitely assigned exercises, together with student-selected projects. Three credits; one hour attendance, and six hours laboratory. Autumn, winter, spring. Arranged.

GRAPHIC ARTS

*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.

24-25, 26. *Printing I*. General principles; measurements, straight and display composition. The imposition and locking of forms, and platen press work. Three credits; autumn, winter, spring.

33. *Photography I*. A practical short course designed to acquaint the student with the basic principles involved in both color and black-and-white. Theory and practice of exposure, development, contact printing and enlarging. Study of various types of equipment. Student must furnish his own camera. Two credits; spring; T. Th., 7:30. Offered years ending in even numbers.

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 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.

103. *Photography II*. Principles of composition, photo-chemistry, optics, and advanced study of printing, enlarging and processing of chromatic and monochromatic mediums, with actual manipulative experience. Camera required. Prerequisite: 33 or equivalent. Two credits; spring; one hour attendance, three hours laboratory; arranged. Offered years ending in odd numbers.

*Not offered 1955-1956.

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

34, 35, 36. *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 furniture design and construction. Laboratory 114A optional. Prerequisite: ME 4-5-6. 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: 34, 35, 36 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: four credits from 41, 42, 43. Two credits; spring; Th., 1:00-6:00.

GENERAL

153. *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 Education. Two hours credit; spring; Th., 1:00-5:00.

154, 155, 156. *Machine and Tool Maintenance*. A practical course in the proper methods of care and maintenance of tools, machines, and supplementary equipment. Field of printing, metals, or woodworking to be elected. Two or three credits; autumn, winter, spring; time arranged.

177. *History of Industrial Education.* A study of the origin and growth of Industrial Arts in Education. Emphasis on aims and objectives of practical education and possible progress and its place in the field of education. Two hours credit; autumn; T. Th., 7:30.

191, 192, 193. *Special Problems in Industrial Education.* Course provided for Industrial Education 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 Education Laboratory.* The requirements for this course are the same as for 191, 192, 193. Credit and time arranged.

194. *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; autumn; M. W. F., 10:15.

198-199. *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: 194. Two credits; winter, spring; M. W., 10:15.

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 month, the advance deposit being held in reserve until the last month 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 room rent for the quarter are billed in three equal installments. Statements are rendered at the close of each month and are due on the 10th and past due on the 20th of each month.

In case settlement has not been made by the 20th the student will automatically be called in to review his account with the management. Fees (general, laboratory, physical education, etc.) are payable at the end of the first month of each 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." 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 each quarter are as follows:

	PER QUARTER
Sittner Hall	\$64.50
Conard Hall	64.50
Conard Hall (special)	66.00
Union Hall	63.00
West Hall (running water)	60.00
West Hall	57.00

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.

If a student wishes to room alone, he may be permitted to do so, as long as rooms are available, at an extra charge of \$15.00 per quarter.

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

A \$15.00 deposit is required of all students who plan to reside in one of the school homes. This deposit serves as a room reservation. If rooms are damaged beyond normal wear, or not left in satisfactory condition, an additional charge will be made.

Board

The cafeteria plan of boarding is followed in connection with the operation of the school homes.

Board, Minimum per Month

Men	\$20.00
Women	18.00

TUITION CHARGES

QUARTER CREDITS	PER QUARTER
12-16	\$121.50
11	111.00
10	100.50
9	90.00
8	79.50
7	69.00
1-6 per credit (no general fee).	12.00
Over 16, per credit	12.00

Special Tuition

Physical Education courses carry regular tuition plus fees. Double tuition is charged for Art.

Small classes (by permission of the Academic Standards Committee) : for one student, triple tuition; two to four students, double tuition; five to six, one and one-half tuition; more than six, regular tuition.

General Fee

Fifteen 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
Degree in absentia, Master's	35.00

Laboratory Fees

BULLETIN NO.	COURSE	SCHEDULE OF FEES	
		PER QUAR.	PER QUAR. CREDIT
164, 165, 166	Advanced Arts and Crafts	\$10.00	
214, 215, 216	Advanced Audio-Visual Educ. Laboratory	7.50	
196	Advanced Interior Decoration	5.00	
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	
83	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 (except Design I)		\$4.00
124, 125, 126	Arts and Crafts	10.00	
171, 172, 173	Audio-Visual Laboratory	7.50	
102 or 103	Automotive Engine Tune-up	7.50	
1, 2, 3	Automotive Fundamentals	7.50	
61, 62, 63	Badminton	2.00	
	Biology (each course, with lab. period)	10.00	
21, 22, 23	Book Binding	7.50	
123	Campcraft and Management	7.50	
	Chemistry (each course, with lab. period)	7.50	
105	Child Literature		1.00
71, 72-73	Clothing Fundamentals, Selection and Construction	2.00	
34, 35, 36	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	
61-62-63;			
161-162-163	Design I	4.00	
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	
97, 98, 99	Electric Typewriting		3.00
ME 1-2-3	Engineering Drawing	3.00	
ME 152-153	Engineering Materials Laboratory	7.50	
163	Experimental Cookery	6.00	

BULLETIN NO.	COURSE	SCHEDULE OF FEES	
		PER QUAR.	PER QUAR. CREDIT
1, 2, 3	Food Selection, Meal Planning, Service	6.00	
1A	Freshman Composition, 1A	11.00	
175	Fund Accounting	1.00	
114A, 115A, 116A	Furniture Laboratory	6.00	
54	Gas Welding	9.00	
51, 52, 53	General Physics	7.50	
AE 181-182-183	History of Architecture	2.00	
153	Home Mechanics	1.00	
178	Institutional Management	5.00	
164, 165	Interior Decoration	1.00	
71-72-73	Intermediate Accounting	1.00	
54, 55, 56	Introductory Physics	7.50	
153	Leadership in Camping and Campcraft	7.50	
98	Machine Accounting	10.00	
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	
ME 4-5-6	Mechanical Drafting	2.00	
ME 137, 138, 139	Mechanical Engineering Laboratory I	7.50	
ME 154, 155	Mechanical Engineering Laboratory II	7.50	
84, 85-86	News Writing50	
171-172	Nutrition	3.00	
108	Observation and Problems in Grades 1-8	5.00	
81, 82, 83	Office Machines		3.00
33	Photography I		1.00
103	Photography II	7.50	
Courses above 100	Physics Advanced Laboratories		5.00
ME 143	Power Plant Design	3.00	
14-15, 16	Principles of Accounting	1.00	
161-162	Radio Production	1.00	
202	Research in Botany		5.00
201	Research in Zoology		5.00
11	School Arts	5.00	
51-52-53	Secretarial Accounting	1.00	
125	Sheet Metal	9.00	
72	Skiing	6.00	
208	Special Problems in Grades 1-8	5.00	
191A, 192A, 193A	Special Problems in Industrial Educ. Lab.	6.00	

BULLETIN NO.	COURSE	SCHEDULE OF FEES	
		PER QUAR.	PER QUAR. CREDIT
	Speech (each course except 194-198)	1.00	
BA 192, 193	Statistics	1.00	
Ed. 212, 213	Statistics	1.00	
71-72-73	Survey of Metal Practice	7.50	
22	Survey of Physical Science	3.00	
ME 53	Surveying	7.50	
54, 55, 56	Switchboard	3.00	
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	
88 or 89	Voice Transcription		5.00
101-102	Weaving and Upholstering	4.00	
56	Welding Problems	7.00	
41, 42, 43	Wood Turning I	5.00	
129	Wood Turning II	5.00	

Typewriter Rentals		PER QUARTER
Six hours weekly		6.00

Physical Education Fees	
Physical Education, per credit	\$5.50
Pool—for village students not registered in Physical Education	2.50
Pool—for Rogers School pupils (once a week only)	1.00

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 \$40.00 worth of work each month 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)	\$230	\$260	\$300
Fees (General, Special, and Laboratory)	45	60	85
Board	200	270	330
Books and Stationery	35	45	60
Totals	\$510	\$635	\$775

MUSIC

Tuition

Following are the rates for private lessons per quarter and are in addition to tuition charges. These are not refundable. All charges are payable at the end of the first period of the quarter. Music instructors will be available for a minimum of 9 lessons per quarter.

Piano, Organ, Voice, Strings, Wood-winds, and Brass, one lesson weekly	\$24.00
Student Teachers: one lesson weekly ($\frac{1}{2}$ hr. credit)	16.00

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 hour	.30
Pipe Organ, 12 hours and over, per hour	.25
Reed Organ	
(two manual) 1 to 7 hours per week, per hour	.10
(two manual) 8 to 15 hours per week, per hour	.07
(two manual) 16 hours and over per week, per hour	.05

Practice room with piano

Hours per week	Per Quarter
4	\$ 3.00
6	4.00
8	6.00
16	11.00

Practice Room without Piano—Instrumental, voice, etc.

Hours per week	Per Quarter
4	\$ 2.00
6	3.00
8	4.00
12	6.00

Band and Orchestral Instruments	4.00
Band uniform and choir robe rental	1.50

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 necessary 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, Bertha Schneider Theology Student Loan Fund, Carrie Welch Student Fund, Grettner Student Loan Fund, Hartzell Scholarship Fund, Summer Class of 1953 Loan Fund.

BEQUESTS AND DONATIONS

Since it is highly important that the College Board should not be hampered by a lack of funds in its efforts to give the very best training to 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 the 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 Zoology 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—1954-1955

Students in College Department	1086
Special Students	12
TOTAL	1098
Summer School, 1954	403
GRAND TOTAL	1501

PART XIII

Graduates of 1954

BACHELOR OF ARTS IN RELIGION

Sergei Ethan Arias Block
Leonard Leon Ayers
Howard Vincent Boling
Brent Roy Border
Gerald D. Bras
James O'Dell Brown
Wendell Kent Danielson
Bennie Everett Evans
John William Fisk
Floyd L. Iverson
Ralph H. Jones
Harold M. Keehnell
Robert Lee Larsen
Donald E. Lund
Arthur LeRoy Moore
Robert Edward Rush
Clinton Lloyd Shankel
Ronald D. Spear
William Robert Updegrave
Garland Bruce Wallace
Ernest B. Wentland

BACHELOR OF ARTS

Eileen Blanche Allaway
Norman L. Britton
Richard Floyd Brown
Edwin Dwight Burnett
Dorothy Elaine Clark
James Albert Dahl
Ismet F. Daoud Daikh
James William Davis
Olla Etta Gillham
David L. Gouge
Helen Jean Gray
James Ralph Harris
Marilee Hayes
Charles E. Hellman
James Lee Hillman
Bonnie LaVerne Ireland
Marilyn Sue Johnson
Vera Marie Johnson
Farrell B. Jones
Nadine L. Koehler
Ed Abraham Komarniski
George Krause
John Thomas Lamb, Jr.
Robert L. Large

Robert Dean Larson
Dean H. Lobdell
Leroy Lowrie
Robert R. Ludeman
LeRoy Walter Lusher
Robert L. McDowell
Sharon B. MacDuffie
Carolyn Boyer-McHan
James Albert McHan
Rais A. Marx
Lyman D. Miller
Charles Ross Montgomery
Gordon D. Moore
Paula Kathleen Nagel
Doris Owen
Alfred Dean Paddock
Wallace E. Platner
Poh Tian Sian
Constance Helena Rimmer
Dwayne Taylor Rue
George William Schlinsog
Stewart Wilson Shankel
Walter B. Sheer
Verne Oliver Shotwell
Milo Harold Smith
Esther Brock-Steinke
Glenn Merle Stewart
Doris Evelyn Syme
Sarah Ann Thiebaud
Violet Victoria Wentland
Elbert Wayne Wescott
Clara Helen Westermeyer
Carol Rose Wyman

BACHELOR OF ARTS IN ELEMENTARY EDUCATION

Bernice Jenks-Johnson

BACHELOR OF MUSIC

Robert Leroy Ellis
Max C. Qualley
Melvin Warnock

BACHELOR OF SCIENCE

Patricia Lorraine Adams
Bernice Johnson-Bauer
Marie Elizabeth Bolton
Edna I. Boone
Richard Bradshaw Boose
June Annette Brooks

Eva May Carlill
 Bernice Mew Kim Chang
 Marjorie Lucille Drayson
 Clifford Russell Dunn
 Dorothy Fleshman
 Evonne R. Froman
 Elizabeth E. Genetti
 Olga Smith Getzlaff
 Nona Christine Gish
 Ardice Katherine Green
 Anita Griffin
 Rosellen Charlotte Harris
 Etta Nadine Norman-Iverson
 Hilda Viola Jasman
 Emil Isaac Kafrouni
 Flora Jane Cooley Kincaid
 Sadie S. Kivett
 Richard Jerry Kuhn
 Truman A. Lamson
 Ruth Larsen
 Laine Liiv
 Edith Leonte Linder
 Wilfred M. Livadney
 Pearl R. MacKay
 David McConnachie
 Robert L. McDowell
 Hazel F. Mathewson
 Marie L. Michalik
 Roland F. Moody
 Tadashi Nakamura
 Margaret Ann Peterson
 Audrey Cramer-Redmer
 Constance Helena Rimmer
 Barbara Jane Ritonen
 Agnes Seland
 Dorothy Ann Spady
 Anna Mae Palmer-Stacy
 Grace E. Stoddard

Ernest Ervin Thompson
 Viola Weikum
 Elizabeth Ann Weis
 Marjorie Tupper-Wentland
 Lucille Marie Williams
 Wade Hamilton Wolfe
 Loretta Ann Wood
 Julia Alta Young

BACHELOR OF SCIENCE IN
 ENGINEERING

Harold Cecil Boyd
 James Arthus Brown
 Zouhdi M. Derhalli
 Edson Frank Dunlap
 Harold Harvey Lang
 John Leo Parks
 Jose' Daniel Schmied Boesch
 Marden Tan Hong Seng
 Richard W. Thompson
 Raymond L. Watts

MASTER OF ARTS

Richard Lowell Clapp
 Lyle B. Griffin
 Eldon James-Veitch
 Claude Frank Johnson
 Ellen McCartney
 Victoria Georgia Specht-Miller
 Herman Neuharth
 Henry Earl Rieseberg
 Donald R. Seidel
 Maurice Eugene Smith
 Guy G. Stewart
 Richard Vern White

DOCTOR OF LAWS

Walter R. Beach

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