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BULLETIN

1949-1950

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"THE SCHOOL THAT EDUCATES FOR LIFE"

WALLA WALLA COLLEGE BULLETIN

CATALOGUE ISSUE OF
1949-1950



*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. LVIII

March 1949

No. 1

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WALLA WALLA COLLEGE

THE WALLA WALLA

CATALOGUE

1901-1902



It is the policy of the college to admit students of all races and religions to its doors.

WALLA WALLA, WASHINGTON

WALLA WALLA COLLEGE



Administration Building

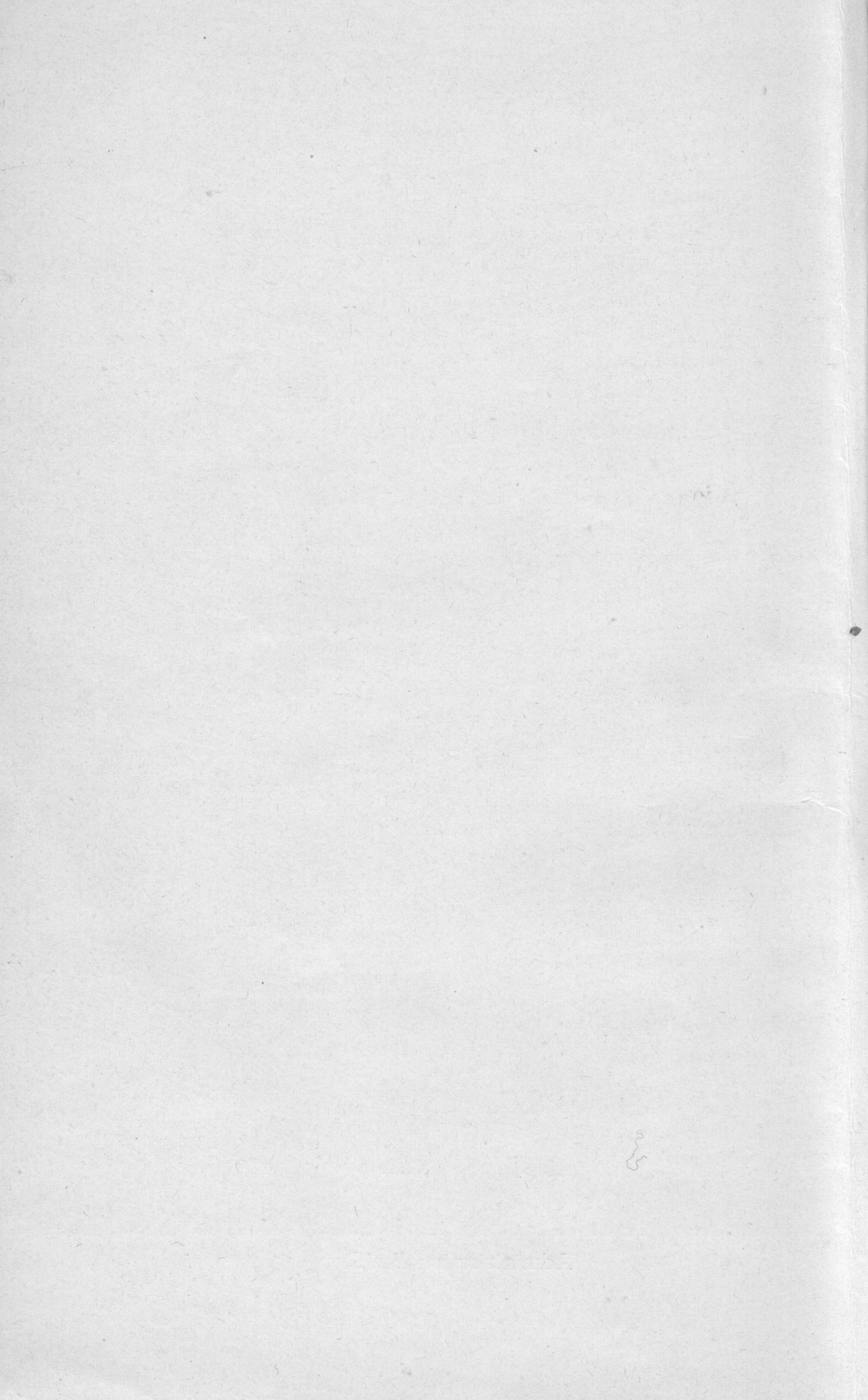


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School Calendar 1949-1950

1949	SEPTEMBER						1949
S	M	T	W	T	F	S	
				1	2	3	
4	5	6	7	8	9	10	
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1949	OCTOBER						1949
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1949	DECEMBER						1949
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1950	JANUARY						1950
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1950	FEBRUARY						1950
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1950	MARCH						1950
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1950	APRIL						1950
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1950	MAY						1950
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28	29	30	31				

1950	JUNE						1950
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18	19	20	21	22	23	24	
25	26	27	28	29	30		

Calendar for the Year 1949-50

SUMMER QUARTER

Registration	Wednesday, June 8
Close of summer quarter	Wednesday, Aug. 24

AUTUMN QUARTER

All freshmen arrive on campus	Sunday, Sept. 25
Freshman tests, 8:00 a.m., 1:00 p.m.	Monday, Sept. 26
Freshman convocations, attendance required	Monday, Sept. 26
Registration of sophomores, juniors, and seniors, 9:00 a.m., 1:30 p.m.	Monday, Sept. 26
Registration of freshmen, 8:30 a.m., 1:30 p.m.	Tuesday, Sept. 27
General Registration, 8:30 a.m., 1:30 p.m.	Wednesday, Thursday, Sept. 28, 29
Freshman classes begin, 7:30 a.m.	Thursday, Sept. 29
Faculty-Student reception, 7:30 p.m.	Thursday, Sept. 29
All other classes begin, 7:30 a.m.	Friday, Sept. 30
First vesper service, 7:30 p.m.	Friday, Sept. 30
Annual field day	Tuesday, Oct. 11
Thanksgiving recess	Thursday, Friday, Nov. 24, 25
Instruction ends, 12:00 noon	Wednesday, Dec. 21

WINTER QUARTER

Registration of new students	Monday, Jan. 2
Instruction begins, 7:30 a.m.	Tuesday, Jan. 3
Instruction ends, 12:00 noon	Thursday, March 23

SPRING QUARTER

Registration of new students	Sunday, March 26
Instruction begins, 7:30 a.m.	Monday, March 27
Instruction ends, 12:00 noon	Friday, June 9
Senior consecration service, 8:00 p.m.	Friday, June 9
Baccalaureate sermon, 11:00 a.m.	Saturday, June 10
Commencement, 2:00 p.m.	Sunday, June 11

PART I

Administration and Instruction

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Dean, Director Summer Session

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Business Manager

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Dean, School of Theology

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Dean, School of Nursing

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Registrar

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Dean of Men

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M. A., Washington

✓ LAURENCE M. ASHLEY

Professor of Zoology

Ph. D., Southern California

✓ ERNEST S. BOOTH

Professor of Zoology

Ph.D., Washington State

GEORGE WINFIELD BOWERS

Professor of Chemistry

Ph. D., Nebraska

✓ C. W. DORTCH

Professor of Voice

M. Mus., Texas State Teachers' College

VERNON E. HENDERSHOT

Professor of Religion

Ph. D., Southern California

✓ GEORGE GUSTAV KRETSCHMAR

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College Physician, Lecturer in Hygiene

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M. S., Nebraska

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Ph. D., Nebraska

✓ AGNES L. SORENSON

Professor of Modern Languages

M. A., Michigan

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Professor of Chemistry

Ph. D., Washington State

STANLEY WALKER

Professor of Piano and Pipe Organ

M. Mus., Northwestern

H. E. WESTERMEYER

Professor of History

Ph. D., Stanford

*ORASON LEE BRINKER

Associate Professor of Mathematics

M. A., Denver

CARL D. CHRISTENSEN

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M. A., Nebraska

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R. N., Mason Memorial Hospital;

M. A., Washington

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M. A., Maryland

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Associate Professor of Business Administration

M. B. A., Oklahoma

✓ BERNICE E. SEARLE

Associate Professor of Elementary Education

M. A., Minnesota

C. W. SHANKEL

Associate Professor of Chemistry

M. A., Nebraska

H. J. ALCOCK

Assistant Professor of Religion

M. A., Michigan

✓ ROBERT H. BROWN

Assistant Professor of Physics

M. S., Nebraska

*Leave of absence

EDWARD F. CROSS

Assistant Professor of Engineering

M. E., Stevens Institute of Technology

M. A., Columbia

*R. D. DRAYSON

Assistant Professor of Ancient Languages and Religion

M. A., Seventh-day Adventist Theological Seminary

BEATRICE I. EMERY

Assistant Professor of Biology

M. S., Nebraska

MARIE HANSEN

Assistant Professor of English

M. A., Washington

✓ ETHEL HENDERSHOT

Assistant Professor of English

B. A., Pacific Union College

MAUDIE CARR-HARTMAN

Assistant Professor of Piano

B. F. A., Nebraska

LUELLE LATHAM-KRETSCHMAR

Assistant Professor of Chemistry

M. S., Washington

HELEN FOREMAN-LITTLE

Assistant Professor of English

M. A., Nebraska

LEON B. LOSEY

Assistant Professor of Agriculture

M. S., Oregon State College

VEDA SUE MARSH

Assistant Professor of Nursing Education

M. A., Peabody Teachers' College, Tennessee

J. G. MEHLING

Assistant Professor of Business Administration

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

✓ JANET MILLER

Assistant Professor of Piano

B. A., Walla Walla College

STANLEY R. PETERSON

Assistant Professor of Religion

B. A., Walla Walla College

*Leave of absence

✓ LILAH GODFREY-SCHLOTTHAUER

Assistant Professor of Mathematics

M. S., Washington

✓ HENRIQUE G. STOEHR

Assistant Professor of Modern Languages

B. A., Walla Walla College

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Assistant Professor of Band and Wind Instruments

M. A., Southern California

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M. A., Texas A. & M.

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M. A., Washington State

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B. Th., Walla Walla College

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B.S., Walla Walla College

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Instructor in Piano

A. T. S. M. Toronto

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Instructor in Voice

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Instructor in Secondary Education

M. A., Nebraska

LILLIAN LARSEN-PATRICK

Instructor in Secondary Education

M. A., Wisconsin

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Instructor in Religion

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M. A., Nebraska

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B. A., Pacific Union College

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Instructor in Industrial Arts

B. S., Walla Walla College

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Instructor in Secondary Education

M. A., Seventh-day Adventist Theological Seminary

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Instructor in Home Economics

B. A., Pacific Union College

ALBERTA DALE

Graduate Assistant in Secretarial Science

B. A., Walla Walla College

RICHARD L. LITKE

Graduate Assistant in Biblical Languages

B. A., Walla Walla College

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PERSONNEL

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PROGRAM

C. W. SHANKEL, MARGUERITE APLINGTON, L. B. LOSEY, C. W. DORTCH, DAN W. PALMER, E. AMELIA SHERRARD, J. G. MEHLING.

PUBLICATIONS

H. L. SONNENBERG, T. A. LITTLE, ELWOOD SHERRARD, R. L. COLLINS.

VISUAL AID

E. S. BOOTH, BERNICE SEARLE, RAY UNDERHILL, O. S. BRINKER.

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INDUSTRIAL SUPERINTENDENTS

H. C. HARTMAN	<i>Superintendent, Industrial Departments</i>
WARREN RUNYAN	<i>Store</i>
E. O. BECKER	<i>Farm</i>
C. A. BERGMAN	<i>Garage</i>
RAY L. COLLINS	<i>College Press</i>
WILLIS E. CUSHMAN	<i>Bindery</i>
LELAND PARKER	<i>Heat and Light</i>
MRS. ELMER WHITEHOUSE	<i>Laundry</i>
KATHLEEN KEEN-ZOLBER	<i>Director of Food Service</i>

PART II

The College and Its Aims

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

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

In harmony with these doctrines, Walla Walla College recognizes that "true education means more than the pursuit of a certain course of study. It means more than the preparation of the life that now is. It has to do with the whole being, and with the whole period of existence possible to man. It is the harmonious development of the physical, the mental and the spiritual powers. It prepares the student for the joy of service in this world, and for the higher joy of wider service in the world to come."

To bring into actuality this conception of education, Walla Walla College declares its specific aims to be:

1. To present the ideals and principles of Christianity in such a way as to promote the development of a consistent Christian life characterized by loyalty to God and service to humanity.
2. To train for leadership in church and community in harmony with the distinctive ideals and world program of the Seventh-day Adventist denomination.
3. To develop character distinguished by power of will and ability of self-control, bringing every motive and desire into conformity to the eternal principles of right established by God and respected by the most enlightened elements of humanity.

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

Historical and Descriptive Sketch

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

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

About two and one-half miles to the northeast is Walla Walla, Washington, a city of about eighteen thousand inhabitants. Two railways enter Walla Walla: the Union Pacific and the Northern Pacific. An hourly bus service connects College Place with Walla Walla. In addition, the Union Pacific stages stop at the College campus. The transcontinental Roosevelt Highway is routed through College Place.

BUILDINGS AND EQUIPMENT

Administration Building

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

Dormitories

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

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

contains a modern dining room, kitchen, refrigeration plant, together with a banquet room and the dormitory worship room. South Hall and West Hall provide additional living quarters for one hundred young women.

Science Hall

The Science Hall, remodeled and expanded, houses the Chemistry Department. Offices, classrooms, laboratories, and stock rooms are provided. An additional building has been provided for the Biology Department. It offers ample space for offices, classrooms, laboratories, the Biology museum, and stock rooms, in addition to a large lecture room.

Music Conservatory

The Johnson Memorial Conservatory has been provided for the Music Department with studios, practice rooms, and an auditorium for recital purposes. In order to accommodate the increased activity of the conservatory an additional building has been provided.

Home Economics Cottage

The Home Economics cottage offers facilities for classrooms and laboratories. It contains modern equipment for students studying in this department.

Columbia Hall

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

Engineering

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

Campus School Building

The Campus School occupies a two-story building, which contains the office of the Director of Teacher Training, the Training School library, and classrooms for the elementary students. Due to the increased enrollment in the Campus School, several grades are now being conducted in an adjacent building.

Library

A new reinforced concrete brick veneer building was occupied by the library in the spring of 1944. This is a modern fire-proof structure with facilities for individual and group study, seminars, microfilm work, leisure-time reading, cataloging and library science laboratory work. The location of the library is adjacent to the administration building and readily accessible from the dormitories. Its two main reading rooms will seat two hundred fifty students.

Swimming Pool

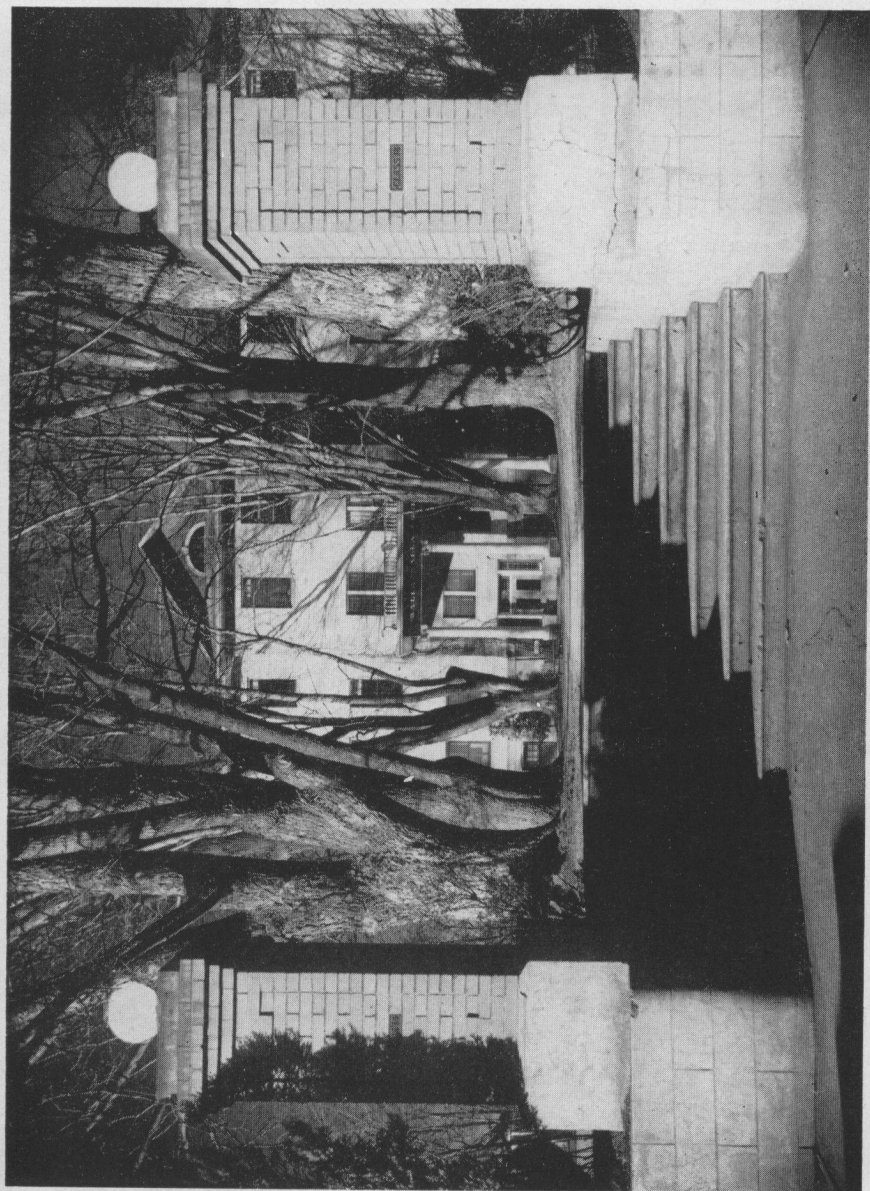
Swimming facilities are provided in a 36 by 60 foot building, containing dressing rooms and a concrete pool. Water is supplied for the pool by the College artesian well. The water issues from the ground at a temperature of 63 degrees. In the winter the water is steam-heated.

Student Health Center

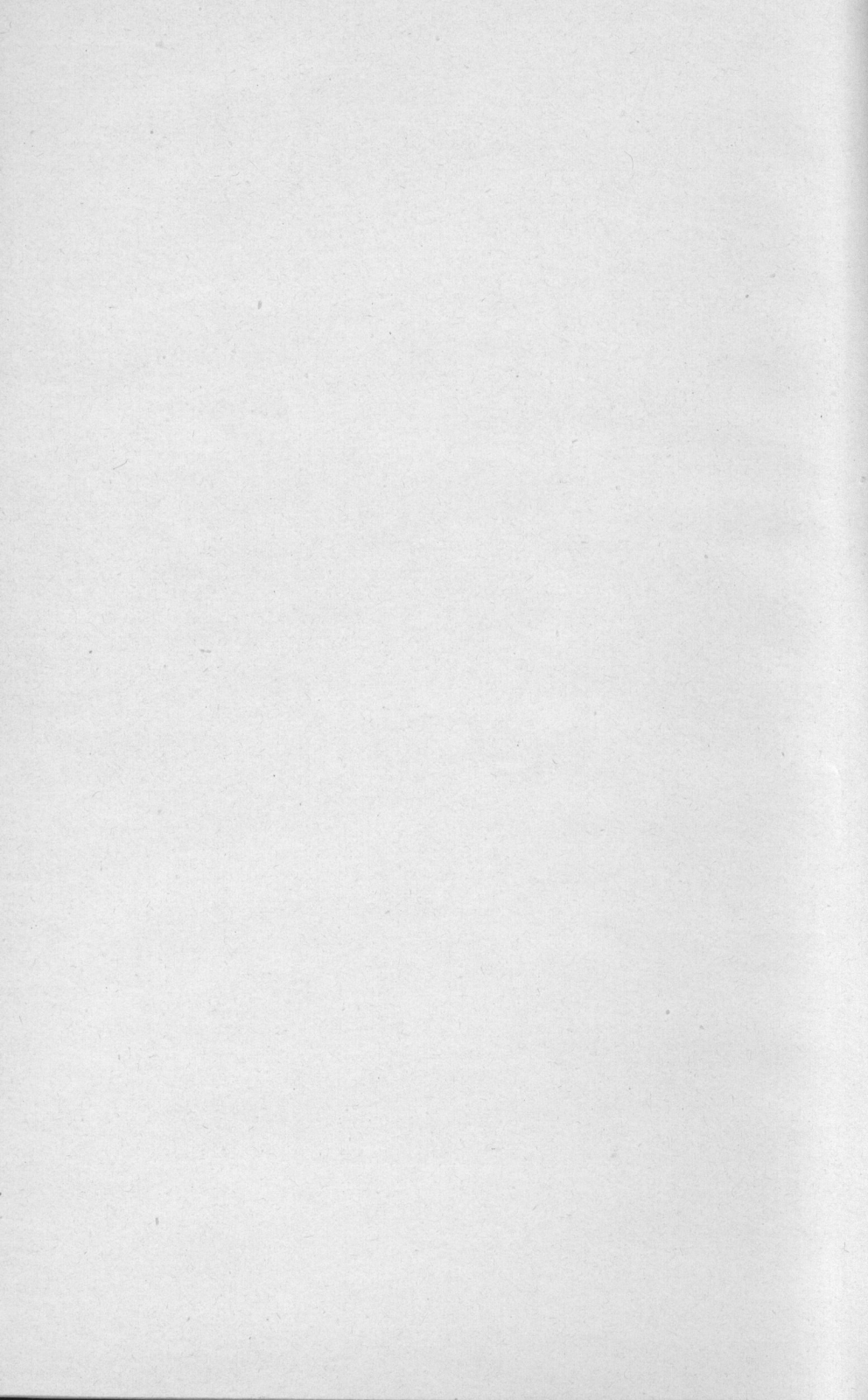
A Student Health Center with a full time registered nurse as director is maintained on the campus. Clinical and hospital facilities, consultation rooms, treatment rooms, and other necessary facilities are housed in a building 25 by 110 feet.

Vocational Equipment

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



Gateway to Service



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

SPECIAL INFORMATION FOR VETERANS OF WORLD WAR II

Walla Walla College has available for married veterans 62 one and two bedroom apartments. Veterans have first priority for the occupancy of these apartments. Single veterans have the privilege of living in our regular dormitories.

The program of veteran education being carried on by the Veterans Administration for the training and rehabilitation of servicemen is now so well-known as to call for but little comment. Veterans are eligible for benefits under Public Law 346 (most commonly known as the "GI Bill of Rights"), or Public Law 16. If the veteran is in doubt as to which is of the greatest advantage to him, he should get in touch with his nearest service center or Veterans Administration office. The business office of the college will be glad to be of help also.

If the veteran has been attending Walla Walla College and has merely interrupted his training for the summer months, or for a quarter or so of school work, he may re-enter by applying for admission to the College and by notifying the office of the Veterans Administration of his school address.

If the veteran has formerly attended Walla Walla College, or if he has used his GI benefits at another school in the meantime; or if he has been attending another school and desires to enter Walla Walla College for the first time, it will be necessary for him to obtain from the Veterans Administration where his records are kept, an "Amended Certificate of Eligibility." This may be secured by submitting to the nearest office of the Veterans Administration on the proper form a statement of honorable dismissal from the school last attended, and a statement of intent to continue at Walla Walla College. Most veterans using their benefits under Public Law 346 will have little difficulty in transferring from one school to another; those under Public Law 16 should make careful

inquiry of their training officer before transferring so as not to place future benefits in jeopardy.

New students entering Walla Walla College for the first time, or those returning to the College after using their benefits elsewhere, are required to present either their original Certificate of Eligibility, or the Amended Certificate of Eligibility upon registration. Students whose veteran records are in another office than that serving Walla Walla College should have these records transferred to the Veterans Administration, Regional Office, 1506 Textile Tower, Seattle 1, Washington. This transfer should be accomplished in advance of registration. It takes sometimes several weeks for a transfer of records, and since no subsistence benefits will be paid until the records are in the Seattle office, it is a good idea to request transfer as far in advance as possible.

Certificates of Eligibility, or Amended Certificates of Eligibility, issued before the opening of the school term in September, 1948, are not valid if they have been inactive. They will have to be renewed with the proper office of the Veterans Administration before they will be acceptable for training or education.

Married students who are planning to use their benefits for the first time should be prepared to present court records of marriage, and, if divorced, court record of divorce proceedings, in order to be considered eligible for the higher living allotment. Details on this matter, or on other matters pertaining to veterans' training, may be obtained from the office of the Veterans Administration, or from 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 one thousand offers a training in missionary endeavor and church organization.

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

Missionary Volunteer Society

The Missionary Volunteer Society has for its object the development, by theory and practice, of efficient missionary workers. Several auxiliary bands, such as foreign mission, literature distribution, sunshine, and correspondence, are under the direction of this organization.

Prayer Bands

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

STUDENT ORGANIZATIONS

Associated Students

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

Societies and Organizations

Student organizations based on residence include Aleph Gimel Ain for the young women of the College dormitories, Omicron Pi Sigma for the young men of the College dormitories and the Chiquita Sola, Aurora Duxes, and Alpha Kappa Sigma for the students living off the College campus. In addition to these a Veterans Club has been organized.

Various departments also sponsor student organizations to the special interests of their group. These organizations include the Theology Club, the Pre-Medical Society, the Pre-Dental Society, the Pegasus Club, the International Relations Club, Beta Mu, Teachers of Tomorrow, Theta Phi Delta, Sigma Rho Theta, Applied Arts, Business Efficiency Club, A Tempo, Science Club, Kappa Gamma, Biology Club, and the Pan Linguistic Society.

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 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.

Walla Walla College publishes a Student Manual which gives detailed information as to the regulations and standards of the College. Students are expected to observe all regulations in the Student Manual as fully as those of the BULLETIN, and they should familiarize themselves with the same. A copy may be secured from the registrar.

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

On three days each week religious services are held in Columbia Auditorium and all students are required to attend. 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 student's devotional service is held on Friday evening. The Sabbath School convenes at 9:30 o'clock Sabbath morning; the church service is held at 11 o'clock. All students are expected to attend these services.

Moral Conduct

Students must abstain from indecent or disorderly behavior, from profane and unbecoming language, from visiting billiard rooms or gambling places, from attending the theater, motion pictures, or any other entertainments not approved by the College, from indulgence in alcoholic beverages, from 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 specific standards which are set forth in the Student Manual.

Use of Vehicles

Unmarried students who are not resident with their parents are not allowed the use of automobiles and therefore should not bring them to school.

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.

Vacation Absences

A penalty of one dollar will be charged (up to a maximum of five dollars) for each class missed before and after each vacation, respectively. This is in addition to late registration fees.

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.

Students who find it necessary to be absent from the home after the retiring hour, should make previous arrangement 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—three sheets, three 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 kimono, and slippers should be provided for use during study hours. All girls expecting to work in the kitchen or laundry should bring three white smocks, 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 per period each.

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

Worship Attendance

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

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

Preparatory Students

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

PART IV

Administration of the Curriculums

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

FRESHMAN WEEK

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

Psychological Examination

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

English Placement

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

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

Physical Examinations

A physical examination is required each year of all students entering the College. The charge for this examination is included in the matriculation 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 1½x2 inches and a \$2.00 application fee (which is not returnable) should be sent to the registrar of the College in

ample time to be reviewed before the acceptance quota of the school is reached. Prospective students should inform themselves through school publications concerning the date set by the Admissions Committee when application should be in. Failure to file credentials early may result in delayed acceptance, or unsatisfactory classifications.

Fifteen dollars (\$15.00) of the advance deposit described on page 132 must be paid by July 15 to make application for acceptance complete. This \$15.00 application deposit, required of all students, will not be returned after August 25, unless the student previously has informed the school of his intention not to enter for the Autumn quarter. This deposit also constitutes a room reservation for students planning to reside in one of the school homes.

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

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

Entrance Requirements

The following credits must be included among the sixteen required for entrance.

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 of laboratory science.

Freshman

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

By Certificate. A graduate of an accredited secondary school provided he has an average of C and can furnish 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 one dollar will be charged for each examination and two dollars and fifty cents for recording each unit of credit.

†Two units of history are highly recommended for engineering.

*Algebra and geometry are entrance requirements for pre-medical, pre-nursing, and engineering courses.

**Physics and chemistry are highly recommended for engineering.

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

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. Students failing to re-register during the specified time for the following quarter must meet the same penalties for vacation absences as though registered, and in addition must pay for late registration. No student will be permitted to register after the first 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 twenty hours	16 credits
From twenty to twenty-four hours	12-14 credits
From twenty-four to thirty hours	10-12 credits

Restricted Enrollment

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

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

Private Lessons

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

CLASS REGULATIONS

Enrollment

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

Class Attendance

The student is responsible for regular attendance at all sessions of classes in which he is enrolled. When a student's absences in a class exceed twice 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 registrar, 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 one dollar 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 registrar's books. Permission for withdrawal must be obtained from the instructor.

Course Load

The normal course load for all students is sixteen quarter

credits per week. No student is allowed to register for less than ten credits of work without permission from the Academic Standards Committee. No freshman will be allowed to carry extra work. Sophomores, juniors and seniors may register for eighteen 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 Committee on Academic Standards.

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. The following classes of students who have been checked by the registrar are eligible for junior class membership:

1. Those completing any three-year course during the current year.
2. Those who can finish a four-year college course by the end of the following school year.
3. Those who are graduating at the close of the 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.

Graduate Study

The College is offering courses leading to the Master of Arts degree with a major in Zoology and minors in Botany or Chemistry. For details see the departmental write-up, page 62.

Special Students

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

Auditors

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

EXPLANATION OF CREDITS

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

Honor Points

Three honor points are given for each quarter credit of work of an A grade, two honor points for each quarter credit of B, and one honor point for each quarter credit of C. A grade of D gives no honor points, and F and Wf deduct one honor point for each credit. A student must be taking fifteen 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. They may be either examinations for credit on work for which credentials cannot be supplied, in which event the student must make application for such during the first three weeks of his initial entry into college, or examinations taken at other than the time set for such regular examinations.

No credit can be earned in this way except by permission of the Committee on Academic Standards.

Credit earned in a subject by examination when the student is not regularly enrolled in the course is charged for at the rate of \$1.00 per quarter credit.

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; I, incomplete; W, withdrawal in good standing; WF, delinquent at time of withdrawal; Au, audit course.

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 if approved 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 Registrar's office. An I must be removed during the quarter following that in which it was incurred; otherwise it becomes E, and the final grade may not be raised above D.

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

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

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

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

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

If a student fails in a course with us and then repeats the course with us, making a satisfactory grade, the failure will not be considered in computing his honor points. No course in which a student has earned a grade of C or above may be repeated for credit.

Altering Grades

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

Transcripts

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

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

LOWER AND UPPER DIVISION COURSES

Course Numbers

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

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

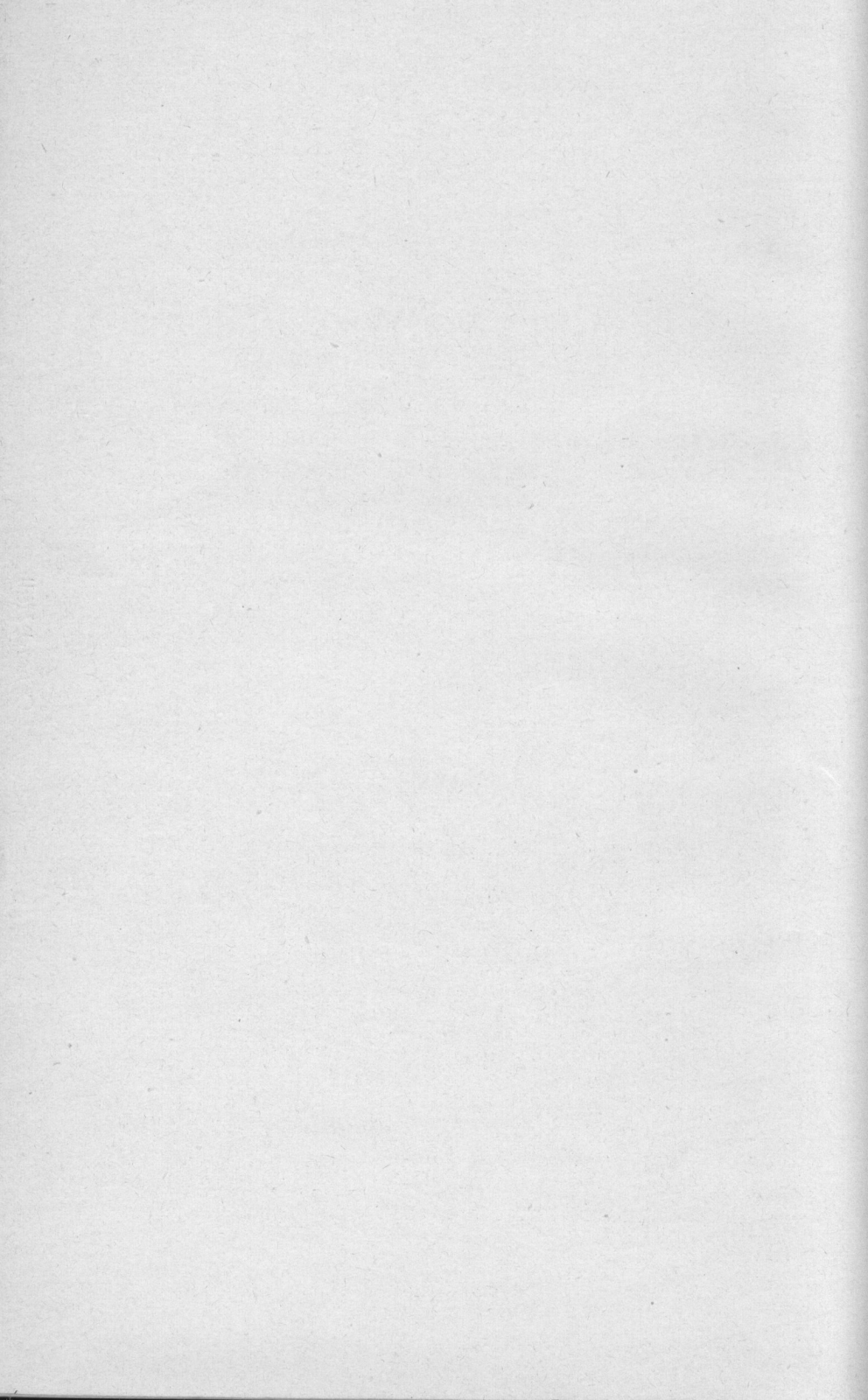
Religion	12 credits
Freshman English	9 credits
Physical Education and Health	6 credits

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

Upper division students may receive upper division credit in a limited number of lower division courses. To receive such credit a student must have permission from his major professor; he must do special work under the direction of



Conard Hall



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.

Sophomores desiring to earn upper division credit in upper division courses must maintain a B average and receive permission from the registrar, to receive such credit.

Students may not earn extra credit in a course by doing additional assigned work unless recommended by the registrar, or dean.

Extension Work

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

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

Transfer Students

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

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

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

Arrangements for examinations for advanced credit must be made before the end of the third week 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 Committee on Academic Standards. 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 dropped from another institution on account 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 dropped.

Credit from Junior College

The maximum amount of credit allowed from a junior college is one hundred eight 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

Three quarter credits in physical education are required for graduation. This work should be taken during the freshman and sophomore years. One quarter of this must be in basic conditioning. If the student is then able to pass the basic condition examination he will be able to enroll in activity classes, otherwise he will be asked to continue in basic physical education. No student will be required to take more than three quarters of basic work.

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

PART V

Senior College Courses

GRADUATION

Degrees and Diplomas

The College offers courses leading to the following degrees:

- Bachelor of Arts
- Bachelor of Science
- Bachelor of Music
- Bachelor of Theology
- Master of Arts

Candidates for graduation from any curriculum are required to file with the registrar, not later than three weeks 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 third quarter of his senior year, file a formal application with the registrar for his degree.

The Graduate Record Examination must be written by each senior.

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

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 forty-five credits of work must be done to obtain a degree. 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 twenty-one to twenty-four credits of a student's major study should be in upper division

courses. No student may complete more than twenty-seven credits of his major in one academic year.

Majors may be obtained in the following:

	Page		Page
Biblical Languages	60	Mathematics	89
Business Administration	68	Music	94
Chemistry	73	Physical Education	105
Engineering	121	Physics	103
English Literature	80	Secretarial Science	69
German	91	Spanish	91
History	84	Speech*	108
Home Economics	87	Theology	114
Industrial Arts	126	Zoology	63

Minor Study

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

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

Music Credit Allowed on a Degree Course

Not more than nine 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 three credits on ensemble work may be used toward graduation from the general college curriculum.

Senior Class Membership

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

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

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

*A second approved major is required.

†See exception to this in Engineering Department.

Residence Work

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

A Second Bachelor's Degree

The College does not issue a second degree of the same kind, but a student who has a B. A. degree may continue his work and earn a B.S., B. Th.,* or vice 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 forty-five credits more and be in residence three additional quarters.

Vocational Credit

The vocational requirements for a Bachelor's degree may be met by presenting nine credits from: Industrial Arts, Agriculture, Auto Mechanics, Baking, Carpentry, Home Economics, Machine Shop, Printing, Typing, Shorthand, Commerical Lettering, Technical Radio, one-half of the Library Science and Accounting courses, Welding and Forging, and Woodworking. A minimum of six credits must be presented in one vocation.

Senior Students Transferring

Senior students 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, and Bachelor of Science, with curriculums in Biology, Chemistry, Industrial Arts, Mathematics or Physics, is conferred upon all students who have fulfilled the following conditions:

1. Complied with all entrance requirements. (See page 26).
2. Completed one hundred ninety-two quarter credits of college work as indicated under the various curriculums. At

*For B.Th. degree requirements see page 114.

least sixty credits must be in upper division courses. The senior year's work of at least thirty-six credits must be done in residence.

3. Maintained a C average on credits applied toward graduation.

4. Earned at least forty-five credits in a major study in one department and a minimum of twenty-seven credits in an appropriate minor study. A minimum of twenty-one 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:

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

Students pursuing curriculums in Business, Secretarial Science, Home Economics, Industrial Arts, Engineering, and Nursing Education may be excused from foreign language, if they have met the entrance requirements of two units. The requirements for the Bachelor of Science with a curriculum in Engineering, and the Bachelor of Music degrees are listed in the departmental section.

Bachelor of Music

The prerequisites for this course are the completion of the preparatory work in the chosen major instrument and a natural gift for music. The student may select curriculums in one of the following fields: voice, piano, organ, violin, band and orchestral instruments, and music education. See course of study for music education curriculum on page 40.

†World Religions and Comparative Religions do not help satisfy the twenty-four hour minimum requirement.

*Principles of Education is required.

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

Course of Study

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
FIRST YEAR					
Applied Major	2	Applied Major	2	Applied Major	2
*Elective	1	*Elective	1	*Elective	1
**Choir, Oratorio, Orchestra, Band, or Small Ensemble	½	**Choir, Oratorio, Orchestra, Band, or Small Ensemble	½	**Choir, Oratorio, Orchestra, Band, or Small Ensemble	½
Theory I	5	Theory I	5	Theory I	5
Bible	2	Bible	2	Bible	2
Freshman Comp.	3	Freshman Comp.	3	Freshman Comp.	3
†Language or Liberal Arts	3	†Language or Liberal Arts	3	†Language or Liberal Arts	3
Physical Education	½	Physical Education	½	Physical Education	½
	17		17		17
SECOND YEAR					
Applied Major	4	Applied Major	4	Applied Major	4
*Elective	2	*Elective	2	*Elective	2
**Choir, Oratorio, Orchestra, Band, or Small Ensemble	½	**Choir, Oratorio, Orchestra, Band, or Small Ensemble	½	**Choir, Oratorio, Orchestra, Band, or Small Ensemble	½
Theory II	3	Theory II	3	Theory II	3
Church Music or Music Literature	1-2	Church Music or Music Literature	1-2	Church Music or Music Literature	1-2
Bible	2	Bible	2	Bible	2
Physical Education	½	Physical Education	½	Physical Education	½
Liberal Arts Elect.	1-2	Liberal Arts Elect.	1-2	Liberal Arts Elect.	1-2
	15		15		15
THIRD YEAR					
Applied Major	4	Applied Major	4	Applied Major	4
*Elective	2	*Elective	2	*Elective	2
**Choir, Oratorio, Orchestra, Band, or Small Ensemble	½	**Choir, Oratorio, Orchestra, Band, or Small Ensemble	½	**Choir, Oratorio, Orchestra, Band, or Small Ensemble	½
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
Bible	2	Bible	2	Bible	2
Elective	1	Elective	1	Elective	1
	16½		16½		16½

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	6
**Choir, Oratorio, Orchestra, Band, or Small Ensemble	$\frac{1}{2}$
Composition	2
Orchestration	2
Instrumental or Choral Conducting	2
Bible	2
Liberal Arts Elective	1
	<hr/>
	15½

Applied Major	6
**Choir, Oratorio, Orchestra, Band, or Small Ensemble	$\frac{1}{2}$
Composition	2
Orchestration	2
Instrumental or Choral Conducting	2
Bible	2
Liberal Arts Elective	1
	<hr/>
	15½

Applied Major	6
**Choir, Oratorio, Orchestra, Band, or Small Ensemble	$\frac{1}{2}$
Composition	2
Orchestration	2
Instrumental or Choral Conducting	2
Bible	2
Liberal Arts Elective	1
	<hr/>
	15½

Senior Recital

Bachelor of Music—Curriculum in Music Education

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

FIRST YEAR

Autumn Quarter	Credits
Major Applied	2
*Piano	2
Brass Methods Class	1
**Band, Orchestra, Choir, or Oratorio	$\frac{1}{2}$
Theory I	5
Bible	2
Freshman English	3
Physical Education	$\frac{1}{2}$
	<hr/>
	16

Winter Quarter	Credits
Major Applied	2
Piano	2
Brass Methods Class	1
Band, Orchestra, Choir, or Oratorio	$\frac{1}{2}$
Theory I	5
Bible	2
Freshman English	3
Physical Education	$\frac{1}{2}$
	<hr/>
	16

Spring Quarter	Credits
Major Applied	2
Piano	2
Brass Methods Class	1
Band, Orchestra, Choir, or Oratorio	$\frac{1}{2}$
Theory I	5
Bible	2
Freshman English	3
Physical Education	$\frac{1}{2}$
	<hr/>
	16

SECOND YEAR

Major Applied	2
Woodwind Methods Class	1
Voice Methods Class	1
Band, Orchestra, Choir, or Oratorio	$\frac{1}{2}$
Theory II	3
Bible	2
European Civilization	3
General Psychology	3
Physical Education	$\frac{1}{2}$
	<hr/>
	16

Major Applied	2
Woodwind Methods Class	1
Voice Methods Class	1
Band, Orchestra, Choir, or Oratorio	$\frac{1}{2}$
Theory II	3
Bible	2
European Civilization	3
Educational Psych.	3
Physical Education	$\frac{1}{2}$
	<hr/>
	16

Major Applied	2
Woodwind Methods Class	1
Voice Methods Class	1
Band, Orchestra, Choir, or Oratorio	$\frac{1}{2}$
Theory II	3
Bible	2
European Civilization	3
Prin. of Education	3
Physical Education	$\frac{1}{2}$
	<hr/>
	16

*These credits may be taken in any other subject providing 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
String Methods Class	1
Percussion Methods	
Class	½
Band, Orchestra,	
Choir, or Oratorio	½
Directed Teaching	2
Form and Analysis	2
Bible	2
American Literature	2
Elective	2
	—
	16

Applied Major	4
String Methods Class	1
Percussion Methods	
Class	½
Band, Orchestra,	
Choir, or Oratorio	½
Directed Teaching	2
Form and Analysis	2
Bible	2
American Literature	2
Elective	2
	—
	16

Applied Major	4
String Methods Class	1
Percussion Methods	
Class	½
Band, Orchestra,	
Choir, or Oratorio	½
Directed Teaching	2
Form and Analysis	2
Bible	2
American Literature	2
Elective	2
	—
	16

FOURTH YEAR

Applied Major	4
Senior Recital	0
Band, Orchestra,	
Choir, or Oratorio	½
Orchestration	2
*Conducting and	
Problems	3
History of Music	3
Bible	2
Elective	1½
	—
	16

Applied Major	4
Senior Recital	0
Band, Orchestra,	
Choir, or Oratorio	½
Orchestration	2
*Conducting and	
Problems	3
History of Music	3
Bible	2
Elective	1½
	—
	16

Applied Major	4
Senior Recital	0
Band, Orchestra,	
Choir, or Oratorio	½
Orchestration	2
*Conducting and	
Problems	3
History of Music	3
Bible	2
Elective	1½
	—
	16

Bachelor of Arts—Music Major

A Bachelor of Arts with a major in Music is a non-professional course 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 course are the completion of the preparatory work in the chosen major instrument and a natural gift for music.

Course of Study

FIRST YEAR

Autumn Quarter	Credits
Applied Music	2
Choir, Oratorio, Or-	
chestra, Band or	
Small Ensemble	½
Theory I	5
Bible	2
English	3
Language	3
Physical Education	½
	—
	16

Winter Quarter	Credits
Applied Music	2
Choir, Oratorio, Or-	
chestra, Band or	
Small Ensemble	½
Theory I	5
Bible	2
English	3
Language	3
Physical Education	½
	—
	16

Spring Quarter	Credits
Applied Music	2
Choir, Oratorio, Or-	
chestra, Band or	
Small Ensemble	½
Theory I	5
Bible	2
English	3
Language	3
Physical Education	½
	—
	16

*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
Choir, Oratorio, Orchestra, Band, or Small Ensemble	½
Theory II	3
Bible	2
History (European)	3
General Psychology	3
Physical Education	½
*Elective or Minor	2
<hr/>	
	16

Applied Music	2
Choir, Oratorio, Orchestra, Band, or Small Ensemble	½
Theory II	3
Bible	2
History (European)	3
Educational Psych.	3
Physical Education	½
Elective or Minor	2
<hr/>	
	16

Applied Music	2
Choir, Oratorio, Orchestra, Band, or Small Ensemble	½
Theory II	3
Bible	2
History (European)	3
Prin. of Education	3
Physical Education	½
Elective or Minor	2
<hr/>	
	16

THIRD YEAR

Applied Music	2
Choir, Oratorio, Orchestra, Band, or Small Ensemble	½
Form and Analysis, Counterpoint, Composition or Orchestration	2
Bible	2
Science	4
Health Principles	3
*Elective or Minor	2½
<hr/>	
	16

Applied Music	2
Choir, Oratorio, Orchestra, Band, or Small Ensemble	½
Form and Analysis, Counterpoint, Composition or Orchestration	2
Bible	2
Science	4
Elective or Minor	5½
<hr/>	
	16

Applied Music	2
Choir, Oratorio, Orchestra, Band, or Small Ensemble	½
Form and Analysis, Counterpoint, Composition or Orchestration	2
Bible	2
Science	4
Elective or Minor	5½
<hr/>	
	16

FOURTH YEAR

Applied Music	3
Music History	3
Bible	2
Elective or Minor	7½
Choir, Oratorio, Orchestra, Band, or Small Ensemble	½
<hr/>	
	16

Applied Music	3
Music History	3
Bible	2
Elective or Minor	7½
Choir, Oratorio, Orchestra, Band, or Small Ensemble	½
<hr/>	
	16

Applied Music	3
Music History	3
Bible	2
Elective or Minor	7½
Choir, Oratorio, Orchestra, Band, or Small Ensemble	½
<hr/>	
	16

Senior Recital

Bachelor of Arts—Music Minor

A Bachelor of Arts with a Minor in music is offered to provide a non-professional background consisting of 29 hours. The prerequisite for the minor is the completion of the preparatory work in a chosen instrument.

Fundamentals of Music will not count toward a Minor and ensemble credit must not exceed 6 hours. The requirements are:

Applied—A chosen instrument in which the prerequisite has been completed	6 to 12 hours
History of Music	9 hours
Elective	14 hours

*The student should plan to meet the nine-hour requirement in Literature-Speech during the second or third years.

Course Outline 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 English	3	Freshman English	3	Freshman English	3
Life and Teachings	2	Life and Teachings	2	Life and Teachings	2
History	3	History	3	History	3
Physical Education	½	Physical Education	½	Physical Education	½
Elective	1½	Elective	1½	Elective	1½
	—		—		—
	16		16		16

SECOND YEAR

Inter. Accounting	3	Inter. Accounting	3	Inter. Accounting	3
Business Law	2	Business Law	2	Business Law	2
Fund. of Ch. Belief	2	Fund. of Ch. Belief	2	Fund. of Ch. Belief	2
Psychology	3	Psychology	3	Prin. of Education	3
Science	4	Science	4	Science	4
Physical Education	½	Physical Education	½	Physical Education	½
Elective	1½	Elective	1½	Elective	1½
	—		—		—
	16		16		16

THIRD YEAR

Cost Accounting	3	Cost Accounting	3	Budgets	3
Market. and Adv.	2	Market. and Adv.	2	Market. and Adv.	2
Business Finance	2	Business Finance	2	Business Finance	2
Taxation	2	Taxation	2	Taxation	2
Bible	2	Bible	2	Bible	2
*Minor or Electives	4	Minor or Electives	4	Minor or Electives	4
	—		—		—
	15		15		15

FOURTH YEAR

Adv. Accounting	2	Adv. Accounting	2	Adv. Accounting	2
Money and Banking	2	Money and Banking	2	Money and Banking	2
Fund Accounting	3	Tax Accounting	3	Auditing	3
Statistics	2	Statistics	2	Seminar	2
Bible	2	Bible	2	Bible	2
Minor or Electives	5	Minor or Electives	5	Minor or Electives	5
	—		—		—
	16		16		16

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

Note: The above course outline for business majors is suggestive only, and need not be followed in detail; however, the student should acquaint himself with the definite requirements for graduation as listed in the business administration section under the Departments of Instruction.

Suggested Course Outline for Major in Secretarial Science

FIRST YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Bible	2	Bible	2	Bible	2
Freshman English	3	Freshman English	3	Freshman English	3
Shorthand I	3	Shorthand I	3	Shorthand I	3
†Typing I	1	†Typing I	1	†Typing I	1
Prin. of Economics	3	Prin. of Economics	3	Prin. of Economics	3
Prin. of Ed.	3	Psychology	3	Psychology	3
Physical Education	½	Physical Education	½	Physical Education	½
Lettering	½	Lettering	½	Lettering	½
	—		—		—
	16		16		16

SECOND YEAR

Bible	2	Bible	2	Bible	2
Secretarial Acctg.	2	Secretarial Acctg.	2	Secretarial Acctg.	2
Shorthand II	2	Shorthand II	2	Shorthand II	2
Typing II	1	Typing II	1	Typing II	1
History	3	History	3	History	3
Physical Education	½	Physical Education	½	Physical Education	½
Health Principles	3				
Elective	2½	Elective	5½	Elective	5½
	—		—		—
	16		16		16

THIRD YEAR

Bible	2	Bible	2	Bible	2
Adv. Dictation	2	Adv. Dictation	2	Adv. Dictation	2
Science	4	Science	4	Science	4
Office Procedure	3	Office Procedure	3	Office Procedure	3
*Elective	5	Elective	5	Business Machines	3
	—		—	Elective	2
	16		16		—
					16

FOURTH YEAR

Bible	2	Bible	2	Bible	2
Business English	2	Business Corresp.	2	Sec. Practice	2
Business Elective	4-6	Business Elective	4-6	Business Elective	4-6
Elective	6-8	Elective	6-8	Elective	6-8
	—		—		—
	16		16		16

Course Outline for a Major in Physical Education

The following suggested course outline 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.

*The student should plan to meet the requirements in Literature and Speech during his third year.

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

FIRST YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Bible	2	Bible	2	Bible	2
English	3	English	3	English	3
Language	3-5	Language	3-5	Language	3-5
Anat. & Physiology	4	Anat. & Physiology	4	Anat. & Physiology	4
History	3	History	3	History	3
Basic P.E.	½	Activity-Elective	1	Activity-Elective	1
Elective	½				
	16		16		16

SECOND YEAR

Bible	2	Bible	2	Bible	2
Anat. & Kinesiology	2	Anat. & Kinesiology	2	Anat. & Kinesiology	2
Techniques in P.E.	2	Techniques in P.E.	2	Techniques in P.E.	2
Gen. Psychology	3	Ed. Psychology	3	Prin. of Education	3
†Language or Elec.	0-3	Language or Elec.	0-3	Language or Elec.	0-3
Health Prin.	3	Elective	3	Elective	3
Swimming & Diving	1	Life Saving	1	Water Safety	1
	16		16		16

THIRD YEAR

Bible	2	Bible	2	Bible	2
History of P.E.	2	Principles of P. E.	2	Teaching Health	2
Theory of Play	3	Community Rec.	3	Campcraft & Man.	3
Vocational	3	Vocational	3	Vocational	3
Education	3	Education	3	Education	3
Elective	2	Elective	2	Elective	2
Activity-Elective	1	Activity-Elective	1	Activity-Elective	1
	16		16		16

FOURTH YEAR

*Bible	2-3	*Bible	2-3	*Bible	2-3
Directed Teaching	2	Directed Teaching	2	Directed Teaching	2
Education	3				
Therapeutics	2	Therapeutics	2	Therapeutics	2
Seminar	1	Seminar	1	Seminar	1
Electives	5-6	Electives	8-9	Electives	8-9
	16		16		16

Outline of Bachelor of Science Course with Science or Mathematics Major

This outline is for science students completing a minimum of 90 hours in combined science and mathematics. The elementary course in mathematics, physics, chemistry and biology is required.

†If it is not necessary for a student to take the second year of language, work on a second minor is suggested.

*By taking a three hour course in Bible a student may be able to minor in this field.

FIRST YEAR								
Autumn Quarter	Credits		Winter Quarter	Credits		Spring Quarter	Credits	
Bible	2		Bible	2		Bible	2	
Freshman English	3		Freshman English	3		Freshman English	3	
Chemistry or Zoology	4		Chemistry or Zoology	4		Chemistry or Zoology	4	
Mathematics	4		Mathematics	4		Mathematics	4	
*Vocational or Language II	3		Vocational or Language II	3		Vocational or Language II	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 $\frac{1}{2}$	
SECOND YEAR								
Bible	2		Bible	2		Bible	2	
Physics	4		Physics	4		Physics	4	
Mathematics or Elective	4-8		Mathematics or Elective	4-8		Mathematics or Elective	4-8	
Health Principles	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								
Bible	2		Bible	2		Bible	2	
Education	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			16			16	
FOURTH YEAR								
Bible	2		Bible	2		Bible	2	
Major or Minor	6-10		Major or Minor	6-10		Major or Minor	6-10	
Elective	4-8		Elective	4-8		Elective	4-8	
	16			16			16	

Bachelor of Science with a Curriculum in Nursing

The College has organized a School of Nursing in conjunction with the Portland Sanitarium and Hospital requiring four calendar years for completion of the R.N. and the Bachelor of Science with a curriculum in Nursing. See pages 119 and 120 for outline of course. Write to Fredrick R. Hanson, Dean of the School of Nursing, College Place, Washington for a bulletin of the School of Nursing.

Bachelor of Science with a Curriculum in Nursing Education

A Bachelor of Science degree with a curriculum in Nursing Education is offered to registered graduate nurses who have met the following prerequisites:

*If the student has a language deficiency for college entrance, he should plan to meet his language requirements during the second and third year as well as the nine-hour Literature-Speech requirement.

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

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

If a student satisfactorily fulfills the above requirements, four quarters will be necessary to complete the work for the degree.

Course Outline for Curriculum in Nursing Education

	Credit hours
Bible (Upper Division)	6
Educational Psychology	3
Tests and Measurements	3
Education (Upper Division)	3
*Introduction to Nursing Education	3
Ward Teaching and Management	3
Teaching of Nursing Arts	3
*Curriculum in Schools of Nursing	3
Supervision in Schools of Nursing	3
*Organization, Adm. of Schools of Nursing	3
Current Trends in Nursing	3
Speech	6
History (Upper Division)	6
Minor (Upper Division credits)	15
*Students electing to take Health Education and Public Health Survey may make the following substitutions for those listed above:	
Survey of Public Health; spring, 3 credits.	
Methods in Public Health Education; autumn, 2 credits; winter, 3 credits.	
Field Work in Health Education; winter, 1 credit	
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 Division 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 Bible requirements during the summer quarter.

Two-Year Course with a Curriculum in Nursing Education

Graduate registered nurses meeting requirements "a" and "c" who have not had the pre-nursing subjects will be required to take 48 hours in addition as follows:

Pre-nursing Chemistry	9 quarter hours
Microbiology	6 quarter hours
English	9 quarter hours
Education	6 quarter hours
Religion	6 quarter hours
Electives	12 quarter hours

Standards of Certification for Teachers in Seventh-day Adventist Secondary Schools

Certificates

The General Conference Department of Education has provided two types of certificates for teachers of secondary subjects, a five-year certificate and a life certificate. The first, the Five-year Secondary Certificate, is based upon graduation from a college within the Association of Seventh-day Adventist Colleges and Secondary Schools, or one of equal rank, and requires a minimum of 23 credits of professional training. The second, the Life Secondary Certificate, is issued to a holder of the Five-year Secondary Certificate who has completed during the life of such certificate 27 months of successful teaching, and who is recommended by the union educational secretary.

Requirement in Professional Training

The minimum requirement of 23 credits in professional training in education shall be chosen from the following subjects, preferred in the order listed:

Principles of Christian Education (required) (59 or 61)	3 credits	3✓
General Psychology (57 or 62)	3 credits	3✓
Educational Psychology (58 or 63)	3 credits	3✓
Principles of Secondary Teaching (134) }	2 credits	2✓
Special Methods (in major subject) (197)	2 credits	2✓
Secondary Directed Teaching (162)	5 credits	
Educational Measurements (136)	3 credits	3
History of Education (149)	3 credits	3
Adolescent Life and Problems (137)	3 credits	3✓
Secondary School Administration (122)	3 credits	

Requirements in Specific Subjects

The following requirements shall be the minimum for certification in the various fields represented below:

Bible. 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 in meeting the English requirement).

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 a standard Seventh-day Adventist College conservatory course in music, or its equivalent, as interpreted by the General Conference Department of Education.

Natural Science. 18 credits in laboratory science subjects, including 9 credits in the specific field in which certification is desired, in addition to the secondary content in the field in which certification is requested, and including a background of at least 2 secondary units of science.

Typewriting. 50 words a minute, net, in a certified 15-minute standard speed test, record to be submitted through registrar to General Conference Department of Education.

Other Subjects. Agriculture, art, bookkeeping, cooking, health, printing, sewing, shorthand, woodworking:

18 credits or the equivalent in the specific field in which certification is desired, secondary units to be evaluated on the basis of 3 credits per semester.

Bachelor of Science with a Curriculum in Elementary Education

Prerequisite: Sixteen units of work in an accredited secondary school which must include the following:

English	3 units
History (including American History and Government)	2 units
Science	1 unit
Mathematics	1 unit
*Bible	3 units

Requirements for the Degree of Bachelor of Science With a Curriculum in Elementary Education

This course, with the major consisting of the courses in Education and Psychology, requires the completion of one hundred ninety-eight (198) credits, 45 of which shall be in residence, divided as follows:

Education and Psychology	45
Introduction to Education (2)	
Principles of Education (3)	
Student Teaching and Techniques (25)	
Psychology and School Management (12)	
Tests and Measurements (3)	
State Manual (0)	

*One unit for each year of attendance at a Seventh-day Adventist Academy—up to three units.

General Academic Requirements	98	
English and Speech (20)		
Art (5)	Music (5)	
Social Studies (23)	Mathematics (3)	
History of Washington (3)	Physical Education (3)	
Health (3)	Religion (18)	
Industrial Arts (5)	Science (11)	
Two Minors (18 upper division) (20 each)	40	
To be selected from the following:		
Biology	French	Business
Chemistry	German	Spanish
Literature	Mathematics	Speech
History	Music	Secretarial Science
Home Economics	Physics	Physical Education
		Industrial Arts

The following schedule of classes is recommended for candidates for the degree of Bachelor of Science with a curriculum in Elementary Education:

Four-Year Course

FIRST YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Bible Survey	2	Bible Survey	2	Bible Survey	2
Freshman English	3	Freshman English	3	Health Principles	3
Intro. to Education	2	Math. Principles	3	Industrial Art	2
Teaching of Art	3	Teaching of Crafts	3	Educ. Psychology	3
Prin. of Education	3	Gen. Psychology	3	Electives	3
Electives	3	School Management	3	Teaching of Nature	3
	—		—	Study	3
	16		17		16

SECOND YEAR

Music Fundamentals	2	Music in Elm. Sch.	2	Music in Elm. Sch.	2
Fund. of Ch. Belief	2	Fund. of Ch. Belief	2	Fund. of Ch. Belief	2
Prob. of El. Phy. Ed.	2	Prob. of El. Phy. Ed.	2	Geography	5
Directed Teaching I	2	Directed Teaching I	2	Directed Teaching I	2
Teaching Techniques	3	Teaching Techniques	3	Teaching Techniques	3
Survey of Zoology	4	Physics Survey	4	Botany	4
Elective	2	Teaching of Bible	2		—
	—		—		—
	17		17		18

THIRD YEAR

U.S. History	3	U.S. History	3	U.S. History	3
Denom. History	2	Denom. History	2	Denom. History	2
American Lit.	2	American Lit.	2	American Lit.	2
Teacher's Speech	2	Teacher's Speech	2	Teacher's Speech	2
Directed Teaching II	2	Directed Teaching II	2		—
Electives	6	Electives	6	Electives	8
	—		—		—
	17		17		17

FOURTH YEAR

Daniel and Rev.	2	Daniel and Rev.	2	Daniel and Rev.	2
Remedial Teaching	3	Tests and Meas.	3	Child Psychology	3
Curric. Workshop	3	Electives	11	Washington History	3
Electives	8			State Manual	0
				Child Literature	2
				Electives	5
	—		—		—
	16		16		15

- NOTES: (1) Three credits of student teaching must be completed at Walla Walla College regardless of the amount of similar work taken elsewhere.
 (2) Students not presenting secondary vocational credit must choose a vocational for an elective.
 (3) Students must select electives in counsel with the Director of Teaching Training.
 (4) Students graduating in Elementary Education should be Master Comrades.

Teacher Certification

The Teacher Training Department of Walla Walla College is accredited by the State of Washington, and students who complete the four-year Teacher Training Course in accordance with the above regulations will be granted an Elementary Certificate by the Department of Education of the State of Washington.

Completion of the following specified requirements will entitle the student to the corresponding Elementary Certificate issued by the Department of Education of the General Conference of Seventh-day Adventists, provided the proper prerequisites have been taken.

I. Two-year Elementary Certificate

Issued to one having not less than forty-five (45) quarter credits of college work, including the following:

9-15 Bible

15-23 Education, to include:

3-5 Principles of Christian Education

6-9 Elementary Methods and Supervised Teaching

3-5 School Management or Technique

3-6 Practical and Fine Arts

II. Five-year Elementary Certificate

Issued to one completing the four-year college curriculum with a major in Elementary Education.

PART VI

Pre-technical Courses

PREPARATORY MEDICAL COURSE

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.

Medical schools require a minimum grade point average of 1.5 computed separately for science and non-science with a total minimum of 144 quarter hours which include: Inorganic 12, Organic 9, Quantitative 3, Physics 12, Biology (or Zoology) 12, Embryology 3, English 9, Language 9, Government 3, Religion 6.

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 hours, Biology 12 hours, Physics 12 hours, Inorganic Chemistry 12 hours, Organic Chemistry 6-10 hours, Genetics** 2 hours. There is no language prerequisite.

LABORATORY TECHNICIANS

The minimum requirements are two years or 90 hours work in College. Required subjects are: Biology 18 hours, with a minimum of 6 in Zoology, Inorganic Chemistry 12 hours, Quantitative Analysis 4 hours. The White Memorial Hospital grants the Bachelor of Science degree to students completing the one-year laboratory technician's course, provided they have on admission 144 quarter hours of college credit which must include the following: English 9 hours, Language 9-18 hours, Government 3 hours, Physics 12 hours, Biology 21 hours, Chemistry 29 hours, Physiology 9 hours, and Religion 6 hours for each year of attendance.

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

**Not required but medical schools highly recommend Genetics.

PHYSICAL THERAPY

The minimum requirements are two years or 90 hours of College work, including Biology 9 hours, elective science 20 hours, Government 3 hours, Composition 9 hours, Religion 12 hours.

X-RAY TECHNICIAN

One year or 45 hours 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 AND PRE-PHARMACY

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

PRE-DIETETICS COURSE

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

FIRST YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Bible	2	Bible	2	Bible	2
General Chemistry	4	General Chemistry	4	General Chemistry	4
Freshman English	3	Freshman English	3	Freshman English	3
Food Study	3	Food Study	3	Food Study	3
Economics	3	Economics	3	Economics	3
Physical Education	½	Physical Education	½	Physical Education	½
	<hr/> 15½		<hr/> 15½		<hr/> 15½

SECOND YEAR

Bible	2	Bible	2	Bible	2
American Govt.	3	Psychology	3	Principles (Philosophy) of Education	3
Psychology	3	Anatomy and Physiology	4	Anatomy and Physiology	4
Elective	4	Elective	7	Elective	7
	<hr/> 16		<hr/> 16		<hr/> 16

PRE-NURSING COURSE

Prerequisite: The following sixteen units in an accredited secondary school, as well as a high C average, are prerequisite in most schools of nursing:

English3 units

Language2 units

(Two units must be in the same language)

Mathematics2 units

History1 unit

Bible1-4 units

(One unit for each year of attendance at a Seventh-day
Adventist academy. One unit for high school graduates.)

Science2 units

(One unit must be chemistry or physics, with preference given to physics).

Pre-nursing students will be required to pass an examination in arithmetic upon entering the College.

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Daniel and Rev.	2	Daniel and Rev.	2	Daniel and Rev.	2
Freshmen English	3	Freshmen English	3	Freshmen English	3
Anatomy and Physiology	4	Anatomy and Physiology	4	Anatomy and Physiology	4
Microbiology	3	Microbiology	3	Health Principles	3
General Chemistry	4	General Chemistry	4	General Chemistry	4
Physical Education	$\frac{1}{2}$	History of Nursing	2	Physical Education	$\frac{1}{2}$
	<hr/> 16 $\frac{1}{2}$	Physical Education	$\frac{1}{2}$	History of Nursing	2
			<hr/> 18 $\frac{1}{2}$		<hr/> 18 $\frac{1}{2}$

(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 in pages 119 and 120 of this bulletin. Write to Fredrick R. Hanson, Dean of the School of Nursing, College Place, Washington, for a bulletin of the School of Nursing.)

PART VII

Departments of Instruction

EXPLANATION

This section contains a list of all courses of study offered in the College. The departments are arranged in alphabetical order after the Bible department.

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 ten applicants except in case of seniors.

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' 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 may credit be obtained by a student for a single quarter of study in such a hyphenated course.

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

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

*Courses preceded by * are not given in 1949-1950.*

RELIGION

*Mr. Hendershot, Mr. Christensen, Mr. Drayson, Mr. Peterson, Mr. Alcock,
Mr. Sherrard.*

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

(a) For freshmen who have had no Bible on the secondary level: Bible Survey; for freshmen who present units in Bible on the secondary level: Life and Teachings of Jesus; for prenursing freshmen: Daniel and Revelation.

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

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

(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 Bible course for the senior year, the general college Bible requirement may not be fulfilled with Homiletics or any course which the School of Theology may wish to limit to ministerial students.

Theology students are referred to the outline of studies for the Bachelor of Theology degree as shown on pages 114, 115.

1, 2, 3. *Bible Survey.* This course is a Bible introduction course. Its aim is a fundamental knowledge of the contents and character of the books of the Bible. Beginning with a simple enumeration of Bible books and an introduction to methods and aims in Bible study, the course will present the background and circumstances of each book, and the persons through whom they were brought into existence. The groundwork will include a survey of the history of the Hebrew people from the beginning, stressing especially the work of the prophets, while outlining essential Hebrew laws and institutions and filling out the picture with selections from Hebrew songs and wisdom books. Archaeological discoveries are reviewed. Added to this, as its logical conclusion, is the growth of the New Testament, from the life of the Saviour through the preaching of the Gospel by his followers. Two credits; autumn, winter, spring; Sec. A, T. Th., 9:20; Sec. B, T. Th., 1:00.

*See outline of course for the B.Th. degree on page 114.

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., 9:20; Sec. C, T. Th., 11:10; Sec. D, T. Th., 1:00; Sec. E, T. Th., 8:25; Sec. F, T. Th., 9:20; Sec. G, M. W., 10:15.

11, 12-13. *Daniel and the Revelation*. This elementary course in the study of these two books is offered primarily for prenursing students. Study will be given to the setting of both prophecies in the history of the time in which they were written and also the prophecies relating to world history, showing their fulfillment and application. Two credits; autumn, winter, spring; T. Th., 7:30.

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 ground-work in the fundamental doctrines held by the Seventh-day Adventist denomination. Lectures, textbook assignments, and library work. Two credits; autumn, winter, spring; Sec. A, T. Th., 8:25; Sec. B, T. Th., 10:15; Sec. C, T. Th., 1:00; Sec. D, M. W., 11:10.

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

111, 112-113. *Daniel and 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 fulfillments and applications. Research work is required. Special emphasis is placed upon the messages which these books have for the church and for our own lives. A good knowledge of history is presupposed. Lectures, discussions, collateral reading and themes. Two credits; autumn, winter, spring; T. Th., 10:15.

121, 122, 123. *Spirit of Prophecy and Denominational History*. A careful review of the Gift of Prophecy in the remnant church. The various volumes of the writings of Mrs. E. G. White are studied systematically. The rise of the denomination during the last one hundred years is carefully traced. The School of Theology has a good supply of out-of-print volumes for use in research projects. A file of quotations is required. Two credits; autumn, winter, spring; Sec. A, T. Th., 8:25; Sec. B, T. Th., 9:20.

134, 135, 136. *Hebrew Prophets*. A study of the major and minor prophets from the viewpoint that these things "were written for our admonition upon whom the ends of the world are come." Attention is given to the historical setting of the prophecies, with careful exegetical study of

the text, emphasizing the fundamentals of the gospel as contained therein. Collateral reading, theme work. Three credits; autumn, winter, spring; Sec. A, M. W. F., 7:30; Sec. B, M. W. F., 11:10.

141-142-143. *Homiletics*. A study of the work of the preacher and his preaching. Biblical topics will be organized for presentation and outlines prepared. Students are assigned in small groups to various nearby churches to assist in Sabbath School and gain experience in performing ministerial work. Three credits; autumn, winter, spring; T. Th., 9:20.

151. *World Religions*. A short study of the greater religions of mankind, such as Animism, Hinduism, Buddhism, Confucianism, Shintoism, Islam, and Christianity. Consideration is given to the historical setting out of which these religions arose, their founders, their basic teachings and rituals, their conceptions of God and man. With this are included discussions of comparisons with and contrasts to the Christian faith, as well as present-day conditions which are of value in the study of missions. Three credits; autumn; Sec. A, M. W. F., 7:30; Sec. B, M. W. F., 1:00.

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

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

166. *Archaeology and the Bible*. A study of the service which archaeology has rendered to the Bible. This will include a presentation of archaeological methods, a survey of excavations in Bible lands, and the results obtained in the decipherment of ancient languages, in information for the history and culture of Bible times, and in understanding the customs and habits. Specific attention is given to facts significant for the Bible student; how the Bible has been illuminated, clarified, and confirmed by ever increasing discoveries. Lectures, pictures, topical studies, collateral reading. Two credits; spring; T. Th., 8:25.

169. *Bible Manuscripts and Translations*. A study of the history of the principal manuscripts and ancient versions of the Bible. The course consists of a survey of the ever-widening spread of the Bible book from the most ancient versions to the numerous translations produced by modern world wide mission. Two credits; spring; T. Th., 11:10.

174, 175, 176. *Advanced Life and Teachings*. An analysis is made of the teachings of Jesus. These teachings are studied in a mature consideration of Christ's theology in order to utilize and apply the practicalness of

the Example. Much time is devoted to verifying the beliefs of the denomination. Textbook assignments, lecture material, reports, and collateral reading. Two credits; autumn, winter, spring; T. Th. 10:15.

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

184, 185, 186. *New Testament Epistles*. An exegetical study of the epistles of the New Testament, attention being given in each case to the time, circumstances, and the place of writing. Special prominence is given to the Thessalonian and the Corinthian letters and the books of Romans, Galatians, James, and Hebrews, stressing the fundamental gospel doctrines of these epistles. Such others of the New Testament books, or portions of them, which especially deal with fundamentals, will be studied. Lectures, library assignments, and theme work. Two credits; autumn, winter, spring; M. W., 10:15.

194-195-196. *Methods of Research in Bible and Religion*. Consideration of approach, definition of problem, search and use of sources, note-taking technique, analysis and synthesis, style and form of presentation, in Biblical and religious research. Some attention is given to problems posed by modern critical scholarship and humanistic philosophies, the temptations of scholasticism and the dominance of present-day methods of empirical sciences. One credit; autumn, winter, spring; time arranged.

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

Mrs. Miller

1, 2, 3. *Art*. Classes in oil, water color, and pastels are offered, in which are taken up the study of color and color combination. "The world is not seen in grays, and an exquisite source of pleasure is to be taken in the arrangement and varieties of colors which it offers." One or two credits; autumn, winter, spring; M. T. W. Th., 8:25; M. T. W. Th., 10:15; M. W., 1:00-3:00.

11, 12, 13. *Lettering*. Formation of certain broad principles on which the student may work, both in regard to the making of letters and their application to practical use. A brief history of letters and their classification is included in the course. With the fundamental principles learned it will be found easy to make many modifications and the possibilities are as unlimited as in any art. One-half credit; autumn, winter, spring; T. Th., 9:20; or T. Th., 11:10.

14, 15, 16. *History of Art.* Lectures and study on history of art will consist of the following: Egyptian art and design; Grecian art; Roman art and appreciation; French and English Gothic architecture and sculpture. The course presents the work of some of the most notable modern painters and designers. One-half credit; autumn, winter, spring; W., 11:10.

21, 22, 23. *Chalk and Felt Illustrating.* Intended primarily for use in illustrating sacred songs and readings. Especially valuable to teacher-training and theological students. One-half to one hour credit; autumn, winter, spring; hours listed for art 1, 2, 3.

BIBLICAL LANGUAGES

Mr. Drayson, Mr. Litke.

The course of study leading to a Bachelor of Arts degree with a major in Biblical Languages parallels, to an extent, the course outlined for a Bachelor of Theology degree in the School of Theology. 210 credits are required.

Requirements for a major in Biblical Languages are:

DEPARTMENTAL

Greek I (1-2-3).

Greek II (51, 52, 53).

New Testament Greek Exegesis (111, 112, 112).

Hebrew I (131-132-133).

Advanced Greek Exegesis (143).

HISTORY

History of European Civilization (1, 2, 3,).

Church History (114, 115, 116).

The following are recommended, although not required:

History of the Ancient Near East (111).

Greece and the Hellenistic Age (112).

Roman Civilizations (113).

RELIGION

Homiletics (141-142-143).

Systematic Theology (161, 162, 163).

Archeology and the Bible (166).

Bible Manuscripts and Translations (169).

Methods of Research in Bible and Religion (194-195).

Requirements for a minor in Greek are:

DEPARTMENTAL

Greek I (1-2-3).

Greek II (51, 52, 53).

New Testament Greek Exegesis (111, 112, 113).

Advanced Greek Exegesis (143).

RELIGION

Methods of Research in Bible and Religion (194-195).

I. GREEK

1-2-3. *Greek I.* An introductory study of the elements of New Testament Greek with experience in translation. This course emphasizes the development of the ability to read the original language, and at the same time it aims to create an interest in approaching the New Testament through the medium divinely selected to give the Message of Salvation to the world. Readings of selected portions, mainly from the Gospel of John; introduction to aids and methods, grammar study, beginnings of exegesis; assignments and workshop. Four credits; autumn, winter, spring; Sec. A, M.-F., 7:30; Sec. B, M.-F. 11:10.

51, 52, 53. *Greek II.* More extensive readings: I John, Revelation, complete; Luke, Acts in part. The emphasis is on exegesis and interpretation, particularly with a view of 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 borne. Problems and texts of special interest will be studied in class. Three credits; autumn, winter, spring; M.-F., 10:15.

111, 112, 113. *New Testament Greek Exegesis.* Reading and exegesis of New Testament scriptures in the original. Verse-by-verse study of several epistles, such as Romans, Thessalonians, Hebrews, Galatians. Topical studies of significant doctrines; investigation of problems; an introduction to the study of textual variants. Three credits; autumn, winter, spring; M. W. F., 10:15.

*143. *Advanced Greek Exegesis.* Reading and careful examination of more difficult passages from the Greek New Testament in the light of the principles of advanced exegesis. Three credits; autumn; time arranged.

II. HEBREW

131-132-133. *Hebrew I.* Reading of selected portions of the Old Testament in Hebrew with the study of the elements of the Hebrew grammar. Introduction to methods and aids for a fruitful use of the Hebrew in Bible study. Four credits; autumn, winter, spring; M.-F., 1:00.

BIOLOGY

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

*Not offered 1949-1950.

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

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.

Requirements for the 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 are required, 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" must be 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 nine credits will be allowed in which a grade of "C" is earned.
4. A reading knowledge of French, German, or Spanish is required.
5. The final examination may be oral, written, or both.
6. Not more than 9 credits may be transferred from another school.
7. A minimum of 12 credits must be chosen from courses numbered 200 or above; the remainder must be chosen from courses numbered from 150 to 199.
8. The graduate program is to be approved by the graduate committee set for the candidate sometime during his first quarter in residence; this committee will include the major professor, the minor professor, the head of the Department of Biological Sciences and one member from another department.

9. A maximum of six years is allowed to complete the work 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 must be presented 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.

Requirements for the Degrees of Bachelor of Arts and Bachelor of Science

Requirements for a major in zoology:

- (1) A minimum of 48 credits, 25 of which must be upper division;
- (2) Courses 1-2-3, 14-15, 106, 117-118-119, 157, 158, 159, 161-162-163, 193, 194-195.
- (3) Minor fields should be in 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 117-118-119, 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 14-15, 106, 164-165 are required of all minors;
- (3) Courses 117-118-119, 157, 158, 159, 193, 194-195 are highly recommended.

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

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

5-6. *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. Two hours attendance,

14-15. *Elementary Botany*. A general survey of the plant kingdom with emphasis on morphology, life histories, and development. Three hours attendance, three hours laboratory. Four credits; winter, spring; M. W. F., 10:15.

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

51-52-53. *Anatomy and Physiology*. This course is designed for those who will complete their nursing training at Portland. A general survey of human anatomy and physiology. Three hours attendance, three hour laboratory. Four credits; autumn, winter, spring; M. W. F., 7:30.

103-104. *Vertebrate Zoology*. A detailed study of the comparative anatomy of fishes, amphibians, reptiles, birds and mammals. Prerequisite: courses 1-2-3. Two hours attendance, six hours laboratory. Four credits; autumn, winter; T. Th., 7:30.

106. *Systematic Botany*. Principles of classification of plants with emphasis on the Spermatophytes. Prerequisite: courses 14-15. Two hours attendance, eight hours laboratory. Four credits; spring; T. Th., 10:15.

113. *Vertebrate Embryology*. A detailed study of the embryology of the frog, chick, and pig, with emphasis on their relation to human embryology. Prerequisite: course 1-2-3. Two hours attendance, six hours laboratory. Four credits; spring; T. Th., 8:25.

117-118-119. *Seminar I*. 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; M., 9:20.

121-122. *Animal Micrology*. A course designed to cover the important methods of technique in making microscopic slide preparations of animal tissues, with a survey of vertebrate histology. Prerequisite: course 1-2-3. One hour attendance, eight hours laboratory. Three credits; autumn, winter; Mon. 2:00; laboratory arranged.

123. *Plant Micrology*. A course designed to cover the important methods of technique in making microscopic slides of plant tissues. Prerequisite: courses 14-15. One hour attendance, eight hours laboratory. Three credits; spring; Mon. 2:00; laboratory arranged.

133. *General Entomology*. A study of insect morphology, ecology, and the general principles of classification. Prerequisite: courses 1-2-3. Two hours attendance, six hours laboratory. Four credits; spring; M. W., 7:30.
151. *Sanitary Bacteriology*. Fundamental public health bacteriological procedures on foods, water, milk, blood, etc. Prerequisites, courses 5-6. Two hours attendance, two three-hour laboratories. Four credits; spring; T. Th., 11:10.
153. *Ornithology*. A systematic study of amphibians, reptiles, and birds, with emphasis on taxonomy and geographical distribution. Prerequisite: course 1-2-3. Two hours attendance, eight hours laboratory. Four credits; spring; T. Th., 8:25.
155. *Systematic Entomology*. A systematic study of insects. Prerequisite: courses 1-2-3. Two hours attendance, eight hours laboratory. Four credits; spring; T. Th., 8:25.
156. *Mammalogy*. A systematic study of mammals with emphasis on taxonomy and geographical distribution. Prerequisite: courses 1-2-3. Two hours attendance, eight hours laboratory. Four credits; spring; T. Th., 7:30.
157. *Paleontology*. A study of plant and animal fossils, with a survey of the principles of geology. Prerequisite: courses 1-2-3. Two credits; autumn; T. Th., 11:10.
158. *Genetics*. A study of the principles of inheritance in plants and animals. Prerequisite: courses 1-2-3, or 14-15. 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. Prerequisite: courses 1-2-3, or 14-15. Two credits; spring; T. Th., 11:10.
- 161-162-163. *Seminar II*. A continuation of courses 117-118-119, to be taken in the senior year. Prerequisite: courses 117-118-119. One hour attendance. One-half credit; autumn, winter, spring; W., 9:20.
- 164-165. *Morphology of Plants*. Detailed studies of the type forms of the main plant groups. Autumn quarter: Thallophytes and Bryophytes; winter quarter: Pteridophytes and Spermatophytes. Prerequisite: course 14-15. Two hours attendance, six hours laboratory. Four credits; autumn, winter; T. Th., 10:15.
169. *Fresh Water Biology*. A systematic study of the animals found in fresh water lakes and streams. Field work includes trips to a large number of lakes and streams. Prerequisite: courses 1-2-3, 14-15. Four credits; spring; T. Th., 10:15.
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. The time varies, but it is always during the summer. Prerequisite: courses 1-2-3, and 14-15. Two credits; summer.
- 177-178. *Parasitology*. A systematic study of the morphology, life cycle, and the medical aspects of the protozoan, anthropolod, and worm parasites of the vertebrates with more emphasis on human parasitology. Prerequisite: courses 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: courses 1-2-3, or 4. Four credits; summer (WWC Biological Station).

182. *Ichthyology*. A systematic study of the fishes found in Puget Sound, but including a survey of the fishes of other waters. Field work includes collecting of specimens. Prerequisite: courses 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 14-15. 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; winter; T. Th., 1:00.

194-195. *Methods in Research*. A study of the entire field of biological literature, with emphasis on the research paper; methods of gathering data; methods of compiling data; methods of writing the finished paper; presentation of an acceptable research paper. One hour attendance. One credit; autumn, winter; M., 5:00.

197. *Methods of Teaching Biology*. The basic principles of teaching Biology in the secondary school and the college. Two hours attendance, four hours laboratory. Three credits; winter; M., 3:00.

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

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

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

203-204-205. *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.

210. *Genetics and Evolution*. A detailed study of the modern theories of evolution. Prerequisite: course 158. Three credits, winter; T. Th., 11:10.

211. *Plant Ecology*. A study of plant communities in the Puget Sound area. Prerequisite: course 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: courses 177-178, 181, 182. Four 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: courses 153, 156, 177-178. Four credits, any quarter. (College of Medical Evangelists)

231. *Seminar in Physiology*. Prerequisite: course in physiology offered at the College of Medical Evangelists. Two credits, any quarter. (College of Medical Evangelists).

232. *Seminar in Nutrition*. Prerequisite: course in physiology offered at the College of Medical Evangelists. Two credits, any quarter. (College of Medical Evangelists).

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

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

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

WALLA WALLA COLLEGE BIOLOGICAL STATION

This is a branch of the Department of Biological Sciences of Walla Walla College, located 3 miles west of Anacortes, Washington, using the property of the Fidalgo Island Packing Company. Buildings include two dormitories with 25 rooms in each, two laboratory buildings 25x80 feet, several cabins, and the caretakers home. During the first term of the summer school for 1949 the following courses will be offered from June 9 to July 15: 17, 106, 153, 181, 182. During the second term, July 18 to August 24, the following courses will be offered: 4, 106, 169, 183. Equipment includes several motor boats, nets, seines, dredges, salt water aquaria, and much other equipment moved over from the main campus to the biological station just for the summer. Students are accepted only after personal application (or by mail) to the director, Ernest S. Booth. Please ask for the bulletin of the Biological Station for additional information, and for the application blank.

FIELD SCHOOL OF BIOLOGY

This is a summer traveling school offering courses in botany and zoology. Students camp in various areas of North America, traveling either by bus or private cars, and study one or more of the courses listed above. Trips during the past have been as far north as Jasper Park, Alberta, and as far south as Mexico. Nothing offered in 1949.

SCHOOL OF TROPICAL AND PREVENTIVE MEDICINE

This is primarily a graduate school for research in tropical diseases. The main campus is at Loma Linda, California, but there are tropical stations in several foreign countries. Courses will be offered from year to year in several of the tropical stations, as well as on the main campus in California. Stu-

dents desiring to work in this school must spend at least one quarter on the main campus at Walla Walla College before being permitted to attend the School of Tropical and Preventive Medicine.

COLLEGE OF MEDICAL EVANGELISTS

Through arrangements made between Walla Walla College and the College of Medical Evangelists, it is possible for students interested in graduate work in physiology and nutrition to spend one-half of the residence time carrying on study and research at the College of Medical Evangelists, Loma Linda, California. This time is counted toward the advanced degree. For additional information, see the Bulletin of the Graduate School of Biological Sciences.

BUSINESS ADMINISTRATION

SECRETARIAL SCIENCE

Mr. Schneider, Mr. Mehling, Miss Dale, Miss Walker

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

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

LOWER DIVISION COURSES:

Principles of Economics. Nine credits.

Principles of Accounting. Nine credits.

Business Law. Six Credits.

Intermediate Accounting. Nine credits.

UPPER DIVISION COURSES:

A total of 21 credits in courses numbered 100 or above including Cost Accounting B. A. 141-142 are required for the Bachelor of Arts degree.

A total of 43 credits in courses numbered 100 or above including B. A. 141-142, 181-182, are required for the Bachelor of Science with a major in Business Administration.

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

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

Requirements for a minor in Business Administration:

LOWER DIVISION COURSES:

- Principles of Economics.* Nine credits.
- Principles of Accounting.* Nine credits.

UPPER DIVISION COURSES: (Elective) Choose nine credits.

- Cost Accounting.* Six credits.
- Budgets.* Three credits.
- Marketing and Advertising.* Six credits.
- Business Finance.* Six credits.
- Money and Banking.* Six credits.
- Taxation.* Six credits.

Requirements for the Major in Secretarial Science:

Prerequisite: College entrance requirements.

LOWER DIVISION COURSES:

- Principles of Economics.* Nine credits.
- Secretarial Accounting.* Six credits.
- Shorthand.* Fifteen credits.
- Typewriting.* Three credits. (Above the freshman level).
- Lettering.* One and one-half credits.

UPPER DIVISION COURSES:

- Choose 24 credits including 1, 2, 3, and 4.
1. *Advanced Dictation.* Six credits.
 2. *Office Procedure.* Nine credits.
 3. *Secretarial Practice.* Two credits.
 4. *Business Machines.* Three credits.
 5. *Business English.* Two credits.
 6. *Business Correspondence.* Two credits.
 7. *Marketing and Advertising.* Six credits.
 8. *Business Finance.* Six credits.
 9. *Money and Banking.* Six credits
 10. *Taxation.* Six credits.

Requirements for a minor in Secretarial Science:

- Shorthand I.* Nine credits.
- Advanced Shorthand.* Six credits.
- Advanced Typing.* Three credits.
- Office Procedure.* Nine credits.

Students graduating from commercial high school and having met the requirements for Shorthand I, will add Advanced Dictation to the above requirements.

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., 8:25.

7-8-9. *Secretarial Accounting*. An accounting course designed to acquaint the student with basic accounting concepts. To develop the fundamental principles of accounting and apply these principles to the accounting narrative of transactions; opening accounts, journalizing, posting, balancing accounts and preparations of statements and schedules. (Open to Secretarial and non-departmental students). Two credits; autumn, winter, spring; T. Th., 11:10.

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. Speed requirement for three credits: 40 words per minute. Three class periods per week; two laboratory periods per week. One credit; autumn, winter, spring; M. W. F., 1:00.

11A-12A. *Special Typewriting I*. A refresher course for all students; designed especially to enable secretarial majors to meet the required entrance speed of 50 words per minute for advanced typewriting. Speed requirement: 50 words per minute. Prerequisite speed: 35 words per minute. One credit maximum; autumn, winter; T. Th., 10:15.

11B, 12B, 13B. *Introductory Typing*. Theory and practice of touch-typing offered principally to non-departmental students. Three class periods per week. One credit; autumn, winter, spring; M. W. F., 7:30.

14-15-16. *Principles of Accounting*. Introduction to accounting; books of original entry; ledgers; statements of condition and of operations; controlling accounts. Sole proprietorships and partnerships. Prerequisite: One unit of bookkeeping. Three credits; autumn, winter, spring; M. W. F., 11:10.

14A. *Introduction to Accounting*. A special laboratory course in accounting designed to provide a background of bookkeeping technique for beginning students in accounting who lack a background in elementary bookkeeping. No credit; autumn; M and/or W, 2-5:00.

21-22-23. *Shorthand I*. Theory of Gregg shorthand; practical application of theory in dictation; developing speed in writing, reading, and transcribing. Typing 11-12-13 must be taken concurrently with this course unless the student has had the equivalent. Speed requirement: 100 words per minute with satisfactory transcription. Three credits; autumn, winter, spring; M.-F., 7:30.

21A-22A-23A. *Shorthand IA*. Designed for students who have received secondary school credit for Shorthand I but who are unable to qualify for Shorthand II. No credit is given autumn quarter which is devoted to a review of Gregg Shorthand theory. Winter and spring quarters are devoted to application of principles and phrases of Gregg Shorthand; dictation and transcription. No credit autumn; three credits, winter, spring; M.-F., 8:25.

51-52-53. *Advanced Shorthand*. Advanced application of principles and phrases of Gregg shorthand; dictation and transcripts covering vocabularies of representative businesses; legal forms, civil service and denominational dictation. Prerequisites: courses 21-22-23 or equivalent. Speed requirements: 120 words per minute with satisfactory transcription. Two credits; autumn, winter, spring; M. W. F., 10:15.

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, and 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 B. A. 16. 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 three credits; 65 words per minute based upon international rules. Three class periods; two laboratory periods per week. One credit; autumn, winter, spring; M. W. F., 11:10.

81. *Engineering Economics*. Business organization; finance; monetary aspects; capital cost, increment cost, sunk cost; bond yields, business cycles; pricing system; sharing of income; personnel and labor relations. Open to engineering students only. Three credits; autumn; M. W. F., 7:30.

82. *Engineering Accounting*. Operating statement; balance sheet; annuities, amortization; depreciation reserves, sinking funds. Exercises in journalizing, posting, closing. Elements of cost accounting; cost classification; cost systems. Open to engineering students only. Three credits; winter; M. W. F., 7:30.

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

*95. *Economics of Labor*. Social aspects of labor in its relation to the employing agencies; labor's economic problems; governmental regulation and intervention relative to collective bargaining, wages, hours, and social security. Three credits; autumn; M. W. F.

101, 102, 103. *Office Procedure*. Instruction in general office duties; letter writing; filing; duplicating; and business ethics. Three hours laboratory per week. Prerequisite: B. A. 53 and 79 or by special arrangement. Three credits; autumn, winter, spring; T. Th., 9:20; lab. T. and/or W., 2:00-5:00.

104-105-106. *Taxation*. 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.

141-142. *Cost Accounting*. Theory and practice in keeping cost records for manufacturing concerns. Job order, process, and standard cost systems. Prerequisite: B. A. 14-15-16. Three credits; autumn, winter; M. W. F., 7:30.

131. *Business English*. Thorough study of spelling, punctuation, grammar, vocabulary building; sentence and paragraph structure. Two credits; autumn; T. Th., 8:25.
132. *Business Correspondence*. Modern practices in business correspondence; analysis and writing of all types of correspondence. Two credits; winter; T. Th., 8:25.
133. *Secretarial Practice*. Practical office experience. Six hours laboratory each week in campus offices. Two credits; spring; arranged.
143. *Budgets*. Theory of planning future business activities. Budgets as a means of forecasting; budgetary control; flexibility in budgeting. Prerequisite: B. A. 71-72-73, or consent of business department. Three credits; spring; M. W. F., 7:30.
- 151-152-153. *Marketing and Advertising*. A study of the principles underlying marketing and market organizations in connection with the psychology and science of advertising. Two credits; autumn, winter, spring; T. Th., 8:25.
- *161-162-163. *Business Finance*. A study of the fundamental principles of financial policy in the organization and management of corporate enterprises. Two credits; autumn, winter, spring; T. Th., 10:15.
- 167-168-169. *Advanced Dictation*. Vocabulary study; advanced phrase writing; speed dictation and transcription. Prerequisite: courses 51-52-53 or equivalent. Speed requirement: 140 words a minute with a satisfactory transcription. Three credits; autumn, winter, spring; M. W. F., 8:25.
- *171-172-173. *Advanced Accounting*. A thorough study of comparative and consolidated statements including branch house accounting. Prerequisite: B. A. 71-72-73. Two credits; autumn, winter, spring; T. Th., 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. Prerequisite: Registration or credit in B. A. 71-72-73. Three credits; autumn; M. W. F., 10:15.
175. *Tax Procedure*. A study of tax regulations and accounting records necessary to facilitate proper tax accounting and the determination of tax liability for individuals, partnerships and corporations. Prerequisite: B. A. 73 or consent. Three credits; winter; 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: B. A. 73 or consent. Three credits; spring; M. W. F., 10:15.
- 181-182-183. *Money and Banking*. A study of the functional activities of the institutions which comprise our financial system; emphasizing the nature and functions of money, credit, and banking. Two credits; autumn, winter, spring; T. Th., 11:10.
- 191-192. *Statistics*. Collection, analysis, and interpretation of statistical data used in business and economics. A thorough study of the various means of presenting statistical data in the construction of charts and graphs. A study of the arithmetic mean, median, and the mode as measures of central tendency. Two credits; autumn, winter; T. Th., 9:20.

*Not offered 1949-1950.

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

*194. *Methods of Teaching Typing in the Secondary Schools*. This course is required of all majors obtaining certification. One credit; autumn; T., arranged.

*195. *Methods of Teaching Shorthand in the Secondary Schools*. This course is required of all majors in secretarial science obtaining certification. One credit; winter; T., arranged.

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

CHEMISTRY

Mr. Thurston, Mr. Shankel, Mrs. Kretschmar.

Requirements for a major in Chemistry:

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

Inorganic chemistry	12-15 credits
Organic chemistry	12-15 credits
Analytical chemistry	12-15 credits
Physical chemistry	12 credits
Courses 141, 142, 143; 181; 184.	

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

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

1. Mathematics should be started in the freshman year.

2. Physics should be started in the sophomore year.

Requirements for a minor in chemistry:

(a) Courses 23 and 63 are required.

(b) A minimum of 27 hours is required including six 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—for Nursing, Home Economics and Dietetics students, M. W. F., 7:30; Sec. B—for students taking theology and general Arts courses, 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. 8:00-11:00; Sec. B, Sun., 1:00-4:00; Sec. C, Mon, 2:00-5:00.

*Not offered 1949-1950.

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

21A-22A-23A. *Inorganic Chemistry Laboratory*. This course accompanies chemistry 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., 7:30-11:00; Sec. B, Wed., 2:00-5:00; Sec. C, Th., 7:30-11:00.

51. *Organic Chemistry for Nurses*. Chemistry 3 is a prerequisite. A survey of organic chemistry as applied to the field of medicine. Three credits; autumn; M. W. F., 8:25.

53. *Food Chemistry*. A study of physiological chemistry with emphasis on composition, function, and utilization of foods. Three hours attendance. Prerequisite: General Chemistry 3. Three credits; spring; M. W. F., 8:25.

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

61-62-63. *Elementary Organic Chemistry*. A study of the preparations, reactions, and constitution of the aliphatic and aromatic compounds of carbon. Prerequisite: Chemistry 23. Two hours attendance. Two credits; autumn, winter, spring; T. Th.; Sec. A, 9:20.

61A-62A-63A. *Experimental Organic Chemistry*. A laboratory course to accompany Chemistry 61-62, 63. 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; Sec. C, Th., 2:00-5:00.

102, 103. *Elementary Analysis*. This course outlines the general principles underlying qualitative and quantitative analysis of the anions and cations. Emphasis is also placed on chemical arithmetic. Prerequisite: Chemistry 23. Two hours attendance. Two credits; winter, spring; T. Th., 10:15.

102A, 103A. *Analytical Laboratory*. The characteristic reaction of the cations and anions are studied on a qualitative and quantitative basis. The analysis of unknowns is a required part of the course and helps to train the student in systematic and individual analysis. Four hours laboratory. One or two credits; winter, spring. Sec. A, Tu., 1:00-5:00; Sec. B, W. 1:00-5:00; Sec. C, Th., 1:00-5:00.

112. *Biochemistry for Science Students*. A study of the chemistry of foods, digestion and body metabolism. Prerequisite: Chemistry 63. Three credits; winter; M. W. F., 8:25.

112A. *Biochemistry Laboratory*. Experimental work on foods, digestive processes and their products to accompany Chemistry 112. Three hours attendance. One credit; winter; Mon., 1:00-4:00.

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

122. *Inorganic Synthesis*. The course includes the preparation of a variety of inorganic compounds to illustrate standard methods of procedure employed in inorganic preparations. One conference and six to eight hours of laboratory per week. Three credits; winter.

123. *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.

141, 142, 143. *Seminar*. One hour attendance. One-half credit; autumn, winter, spring. Time arranged.

151-152, 153. *Physical Chemistry*. An introductory course in theoretical chemistry and electrochemistry. Prerequisite: Physics 53, Chemistry 63 and 103, and Mathematics 53. Three hours attendance. Three credits; autumn, winter, spring; M. W. F., 10:15.

151A-152A, 153A. *Practical Physical Chemistry*. This course provides a series of experiments covering the fundamental topics of 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.

161, 162, 163. *Quantitative Analysis*. This course includes the study of typical gravimetric and volumetric methods, and the practical examination of ores and commercial products. Prerequisite: course 103. Six to eight hours laboratory and conference. Three credits; autumn, winter, spring; conference, T., 9:20; Lab. W. Th., 1:00-5:00.

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

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

184. *Special Problems*. Four to ten hours laboratory work on assigned investigations. May be taken any quarter. One to three hours credit.

193. *History of Chemistry*. Two hours attendance. Two credits. Spring; Time arranged.

197. *Methods in Teaching Chemistry*. One to three hours laboratory. One credit. Time arranged.

EDUCATION

Mr. Smith, Miss Searle, Miss Stoddard

1. *Introduction to Education*. A study of school practice and management dealing especially with types of lessons, organization, and the functions and principles of education. Two credits; autumn; T. Th., 8:25.

57, 62. *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., 1:00.

61, 59. *Principles of Education*. A study of the underlying principles of Christian education. Three credits; autumn; M. W. F., 1:00; spring; M. W. F., 11:10.

58, 63. *Educational Psychology*. This course emphasizes the application of psychological principles to the art of teaching. The responsibility of the school in developing a dynamic, social, and ethical personality is stressed. The practices of the modern school are studied in the light of empirical findings, experimental research, and case studies. Three credits; winter, 11:10, M. W. F.; spring; 1:00, M. W. F.

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.

71, 72, 73. *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 stripes, charts, maps, posters, opaque projection, flat pictures, and blackboard illustrations. One hour credit; autumn, winter, spring; Tues. 5:00.

71A, 72A, 73A. *Laboratory in Audio-Visual Education*. Laboratory work done in connection with the course (71, 72, 73), providing experience in making film strips, slides, and methods of copying material; study of equipment, and making of lists of equipment, and sources for renting audio-visual aids. Three hours attendance; one credit; autumn, winter, spring; time to be arranged.

112. *Child Psychology*. A study of the most significant facts and principles of the mental and physical development of the child, together with the psychological laws that govern child behavior. Three credits; spring; M. W. F., time to be arranged.

116. *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. The philosophy and history of education are interwoven in this course. Three credits; spring; 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.

122. *Secondary 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 education and the improvement of school work. Prerequisite: Course 121 or the equivalent. Three credits; winter; M. W. F., 7:30.

*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.

133. *Psychology of Learning.* The course includes an analysis of the mechanisms involved in the learning process. The physiological and psychological bases for functional learning are discussed, and the experimental evidence supporting psychological hypotheses are reviewed. Three credits; spring; M. W. F., 8:25.

136. *Educational Tests and Measurements.* Designed to give the student a comprehensive view of the uses of standard tests and scales in elementary and secondary subjects, the value and limitation to the teacher and supervisor of these tests, and their statistical treatment. Opportunity will be provided for the application of the scales and studies. Prerequisite: Psychology. Fee: \$2.00. Three credits; winter; M. W. F., 8:25.

137. *Adolescent Life and Guidance.* Principles and methods involved in educational, vocational, and general guidance of the adolescent pupil. Attention is given to the nature and behavior of adolescents leading to facility in understanding and teaching pupils at the secondary level. A study of the methods of psychotherapy and the outcomes of its application is included. Prerequisite: General and Educational Psychology. Three credits; autumn; M. W. F., 7:30.

143. *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: General or Educational Psychology and course 121. Two credits; spring; T. Th., 8:25.

*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.

ELEMENTARY TEACHER TRAINING

Miss Searle, Miss Stoddard

11. *School Arts.* A course to prepare the teacher to direct activities in the schoolroom such as clay modeling, poster-making, art, lettering, crayola, pencil, watercolor, crafts and appreciation. Three credits; autumn, Time to be arranged.

12. *Teaching of Crafts.* A course to prepare the teacher to direct all activities in the craft line in the school room. Such as weaving construction work of various types. Textile painting, leather craft, and work with cork, felt, brass, and gimp. Three credits; winter, time to be arranged.

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

21. *School Curriculum.* Content and materials used in connection with the course of study. A course to acquaint the teacher with what is taught in the elementary school. Three credits; autumn; M. W. F., 11:10.

22. *School Management*. A course in organization, administration, and supervision of the elementary school. Three credits, winter, 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, time to be arranged.
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., 10:15.
61. *Teaching of Nature Study*. Content, methods, materials, and units used in the teaching of nature study. Three credits; spring, time to be arranged.
71. *Teaching Techniques*. Objectives and modern methods in the teaching of reading. Three credits; autumn; M. W. F., 8:25.
72. *Teaching Techniques*. 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 Techniques*. 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 teaching in the Training School. Problems of method, management, and testing of achievement are met and solved in practical classroom situation. Enrollment only with permission of the Director of the Training School. Prerequisite: Scholarship average of C. Two credits; autumn, winter, spring; M-F.; time arranged for each student; Thurs. 4-5.
- 101, 102, 103. *Directed Teaching II*. Observation and teaching in the Training School. Each student is expected to take full charge of his class and is responsible for the progress of the child during his teaching time. Enrollment only with permission of the Director of the Training School. Prerequisite: Scholarship average of C. Time to be arranged for each student.
104. *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; time to be arranged.
105. *Remedial Reading*. A diagnosis of reading difficulties through the use of diagnostic devices and tests. A study of remedial procedures in reading, study of cases, clinic procedures, and suggestions for remedial work. Three credits; winter, time to be arranged.
106. *Child Literature*. A course designed to survey the field of children's literature. Two credits; spring; time to be arranged.
151. *Curriculum Workshop*. A workshop course in building the curriculum of the elementary school. Three credits; summer and fall, time to be arranged.
162. *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 sixth grade room. Registration limited. Three credits; winter, M-F. Time to be arranged.

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. No credit; spring, time to be arranged.

SECONDARY TEACHER TRAINING

*Mr. Smith, Mr. Palmer, Miss Sonnenberg, Mr. Weaver,
Mr. Patrick, Mrs. Patrick*

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.

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

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

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

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

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

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

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

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

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

SOCIOLOGY

Mr. Smith, Miss Marsh, Mrs. Sherrard

1. *Survey of Sociology.* An introductory study of social organization, the nature of social relations, and the influences that shape society. Three credits; autumn, or winter; M. W. F., 8:25.

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

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

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

ENGLISH and JOURNALISM

*Mr. Little, Mr. Aplington, Mrs. Hendershot, Miss Hanson, Mrs. Smith,
Miss Trefz*

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

The requirements for a major in English are:

DEPARTMENTAL	Credits
<i>Literary Elements</i> (51) (Sophomore)	3
<i>American Literature</i> (64-65-66) (Soph. or Junior)	6
<i>English Literature</i> (74, 75-76) (Sophomore)	6-9
One writing course above the freshman level	6
* <i>Historical Grammar and Linguistics</i> (166) [Prescribed for those seeking departmental recommendation as teachers]	0-3
<i>Pro-Seminar</i> (197-198-199) (Senior)	3
CHOOSE FROM FOLLOWING:	6-15
* <i>Old and Middle English</i> (101, 102-103)	
<i>English Renaissance Literature</i> (107-108, 109)	
<i>Neo-classic Literature</i> (117-118-119)	
<i>Dramatic Literature</i> (184, 185-186)	
<i>Western World Literature</i> (161, 162-163)	
CHOOSE FROM FOLLOWING:	3-12
<i>The Romantic Period</i> (121-122-123)	
<i>The Victorian Period</i> (124-125-126)	
<i>American Literary Masters</i> (137, 138, 139)	
<i>Literature of the English Bible</i> (152-153)	
<i>Twentieth Century Literature</i> (82)	

45

EXTRA-DEPARTMENTAL

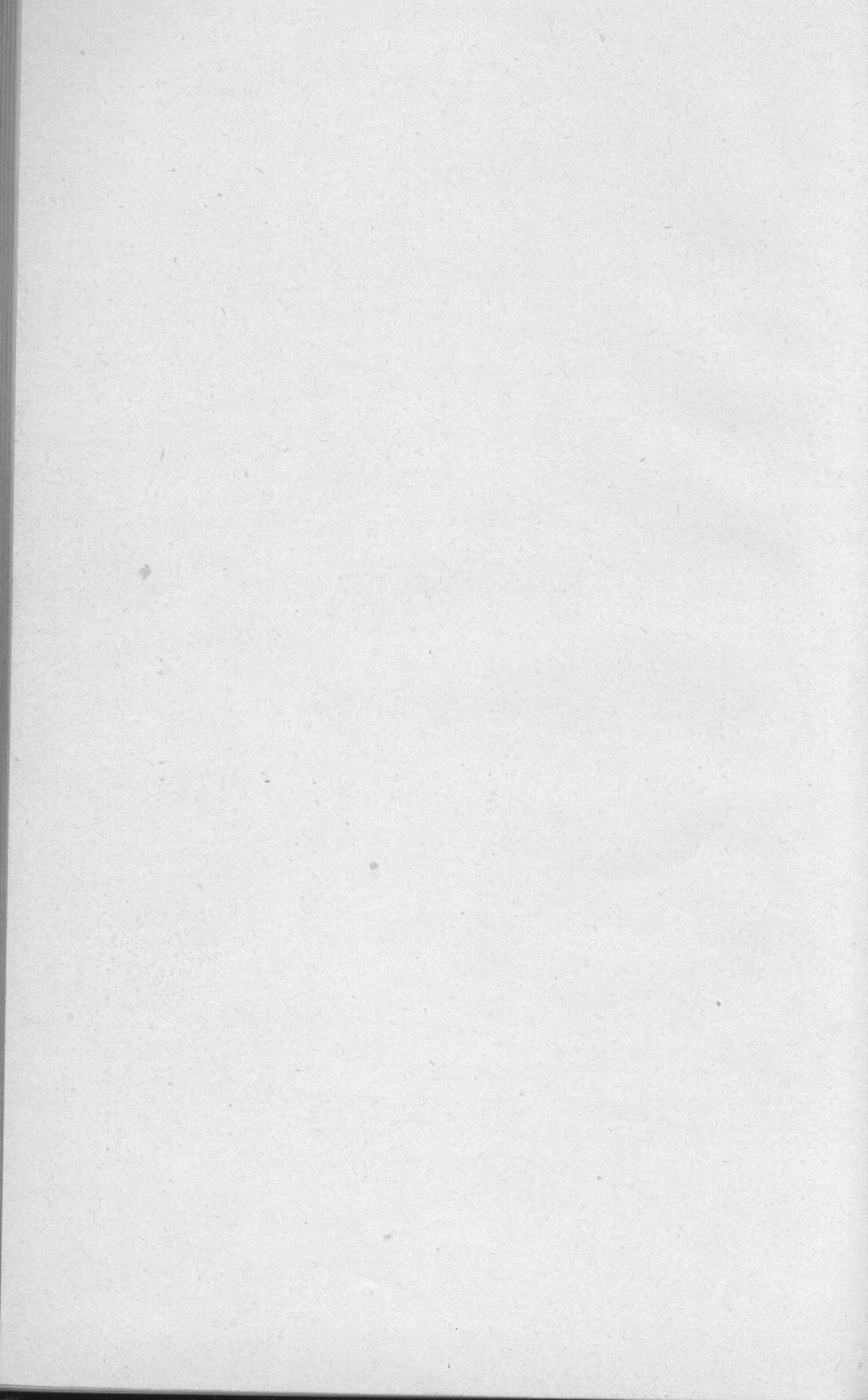
1. English history (required) and United States history (recommended)
2. A minor in a field with logical correlation, such as history, modern language, journalism, speech

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.

*English 102 is prerequisite to English 166 and 103.



Library



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. The first two quarters of the regular Freshman Composition may be taken to meet the requirements for six hours of Freshman English on the degree of Bachelor of Science with a curriculum in Elementary Education. Three credits; autumn, winter, spring; Sec. A, M. W. F., 7:30; Sec. B, M. W. F., 8:25; Sec. D, M. W. F., 8:25; Sec. E, M. W. F., 11:10; Sec. G, M. W. F., 10:15; Sec. I, M. W. F., 10:15; Sec. J, M. W. F., 10:15; Sec. K, M. W. F., 1:00; Sec. L, M. W. F., 1:00.

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. C-1A, M.-F., 8:25; Sec. F-1A, M.-F., 10:15; Sec. H-1A, M.-F., 10:15.

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

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

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

LITERATURE

51. *Literary Elements*. A study of the basic principles, the philosophy and nature of literary art, and the technical terminology together with an analysis of the various forms and types of poetry and prose. This is prerequisite to the literature classes unless the student shows that he has a working familiarity with the elements of literature. Three credits; autumn; M. W. F., 7:30.

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., 8:25.

74, 75-76. *English Literature*. A chronological study of English literature with emphasis on the major writers and movements from Beowulf up 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., 8:25.

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., 7:30.

*Not offered 1949-1950.

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

*101, 102-103. *Old and Middle English*. An examination and study in its historical setting of English literature from the earliest Anglo-Saxon remains up 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., arranged.

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

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

*121-122-123. *The Romantic Period*. An analytical examination of the emergence of Romantic ideals and their manifestation in literature, beginning with the pre-Romantic school and going to 1832. Two credits; autumn, winter, spring; T. Th., 9:20.

124-125-126. *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., 9:20.

137, 138, 139. *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., arranged.

153. *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.

*161, 162-163. *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.

166. *Historical and Modern Grammar and Linguistics*. This study, designed for English majors and minors who intend to be teachers, includes a survey of linguistics and historical grammar, but the chief emphasis is on present-day grammar and its tendencies. Three credits; spring, M. W. F., 2:00.

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

*Not offered 1949-1950.

197-198-199. *English Pro-seminar*. An integrating course required of English majors in the senior year and recommended to minors. The study includes: aims, methods, and materials of English scholarship; investigation of problems peculiar to the class personnel; group conferences and reports. One credit; autumn, winter, spring; W., 5:00.

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.

23-24-25. *Printing I*. See Printing Department courses 23-24-25. Two credits; autumn, winter, spring.

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

84-85-86. *News Writing*. A practical course in gathering news and writing news stories, simple feature stories, and editorials. Copy editing and other desk exercises are designed to aid the student in developing skill in producing acceptable newspaper copy. Prerequisite: proficiency in English 1-2-3. Two credits; autumn, winter, spring; T. Th., 11:10.

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

131-132-133. *Copy-desk Editing*. This is a practice course for those who have done acceptable work in News Writing 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 down to the present time with parallel attention to the principles that guide the best newspapers. Three hours; winter.

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

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

*Not offered 1949-1950.

HISTORY

Mr. Westermeyer, Mr. Meckling

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

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

***Requirements for a major in history include:**

History of European Civilization (1, 2, 3)	9 credits
History of the United States (51, 52, 53)	9 credits
Seminar in History (197, 198)	2 credits
Upper-division courses in European history	6 credits
Upper-division courses in American history	6 credits
Elective courses in history	22 credits

Total required for a *major in history* 54 credits

***Requirements for a minor in history include:**

History of European Civilization (1, 2, 3)	9 credits
History of the United States (51, 52, 53)	9 credits
Seminar in History (197)	1 credit
Upper-division courses in history	9 credits

Total required for a *minor in history* 28 credits

***Requirements for a B.Th. minor in history include:**

History of European Civilization	9 credits
Church History	9 credits
Upper division courses in history	9 credits
Seminar in History (197)	1 credit
Total required for a B.Th., history minor	28 credits

LOWER-DIVISION COURSES IN HISTORY

1, 2, 3. *History of European Civilization.* A survey of European history and its world relationships from the Roman Empire to the present. Three credits; autumn, winter, spring; M. W. F.; Sec. A, 10:15; Sec. B, 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; M. W. F.; Sec. A, 7:30; Sec. B, 8:25.

UPPER-DIVISION COURSES IN EUROPEAN HISTORY

[Prerequisite: *History of European Civilization* (1, 2, 3), nine credits.]
101, 102, 103. *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.

111. *History of the Ancient Near East.* The civilizations of Babylon, Assyria, Egypt, Medo-Persia and minor nations and their relation to the history of the Hebrew race. Two credits; autumn; T. Th., 7:30.

*Three hours of American Government are required as a cognate course and may be applied as a non-history elective.

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., 7:30.

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., 7:30.

*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.

131. *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.

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

133. *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.

*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., 8:25.

*141, 142, 143. *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., 9:20.

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., 9:20.

157, 158, 159. *The Far East.* This course offers a survey of the history and culture of Far Eastern people, with emphasis on the interplay of political and cultural influences among the various eastern groups and between them and the Occident. Two credits; autumn, winter, spring; T. Th., 10:15.

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.

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

*Not offered 1949-1950.

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

*174. *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.

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

UPPER-DIVISION COURSES IN AMERICAN HISTORY

[Prerequisite: *History of the United States* (51, 52, 53), nine credits.]

*164, 165, 166. *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, spring.

*172. *Diplomatic History of the United States*. A study of relations between the United States and other nations, outstanding controversies and their settlement, and the development of recognized foreign policies. Three credits; winter; M. W. F., 10:15.

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

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

191, 192, 193. *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.)

194, 195, 196. *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, spring; hours to be arranged.

*Not offered 1949-1950.

197. *Seminar in History.* An orientation and research course in problems connected with historical materials and methods. This course is required of all history majors and minors, including B. Th. students. One credit; autumn; M. 4:00.

198. *Seminar in History.* A continuation of course 197 for history majors. One credit; winter; M. 4:00.

HOME ECONOMICS

Miss Schluntz, Miss Wright, Mrs. Zolber

For those majoring in Home Economics and preparing for graduate study in the field or for work as professional dietitians, the following courses are required in addition to 45 credits in Home Economics: Chemistry 1-2-3, and 51, Microbiology 5-6, and eight credits in Physiology. Those preparing for secondary school teaching take the following courses: Chemistry 1-2-3 and nine hours of biological science. The following biology courses are suggested: Microbiology 5-6, Sanitary Bacteriology 151, Physiology. Food Chemistry 53, may be substituted for four hours of biological science.

Twenty-seven hours are required for a minor in Home Economics including courses 1, 2, 3, and 71-72-73.

1, 2. *Food Study.* Discussion of the fundamental problems of food in relation to health: study of the composition, nutritive value, and digestibility of common foods; principles of food selection and preparation. Three credits; autumn, winter; T. Th., 9:20. Laboratory, M., T., W., or Th. 2:00-5:00.

3. *Food Preparation and Service.* A course in menu planning and table service. Preparation and practice in serving formal and informal dinners, buffet suppers, luncheons, etc. Prerequisite: Course 1, 2. Three credits; spring; T. Th., 9:20; laboratory, M. T. W., or Th., 2:00-5:00.

41-42. *Applied Design.* Instruction in the use of art elements giving consideration to line, form and color as applied in the fundamental principles of design and the various aspects of the home, clothing and everyday living. Problems in selecting and designing. Three credits; autumn, winter; M. W. F., 8:25.

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

71-72-73. *Clothing Selection and Construction.* Aims to develop good taste in dress and to give an appreciation in selection of clothing from standpoint of beauty, health, and economy. Fundamental processes of hand and machine sewing. Study of alterations, fitting problems and use of commercial patterns. Construction of cotton, wool and silk garments. Consideration of fabrics to determine fundamental differences and to develop judgment in buying clothing. Three credits; autumn, winter, spring. T. Th., 8:25. Lab. 2:00-5:00 M. or W.

87. *Home Arts*. Study of line, form and color as applied to textile painting, block-printing and simple leather work. Three credits, spring. T. Th., 2:00-5:00.

*88. *Textiles*. A study of fabrics to determine fundamental differences and to develop judgment in buying clothing and house furnishing materials. Three credits; winter; T. Th., 10:15.

*89. *Costume Design*. A study of line, color, and texture as they are used in costume for different types and occasions. Problems in selecting and designing. Prerequisite: Course 41. Three credits; spring; T. Th., 10:15.

91-92. *Weaving and Home Furnishings*. The history and development of weaving. Construction of hand-woven materials. Practical work such as remodeling and refinishing furniture, and making draperies, bedspreads and slip covers. Prerequisite: ability to sew. Three credits; autumn, winter; T. 7:30. Six hours laboratory arranged.

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

121. *Interior Decoration*. A study of the principles governing the planning of a home and the selection and arrangement of its furnishings. Instruction in the use of color combinations and art elements as a guide to an understanding of what is good, true and beautiful in home decoration. A course designed especially for students in architectural engineering. Three credits; autumn; M. W. F., 10:15.

122-123. *Interior Decoration*. A study of period furniture and the decorative arts of the past as a background for an understanding of what is good, true and beautiful in home decoration. Instruction in and application of the principles governing the selection of furniture, textiles, pictures, and other furnishings for the home and their arrangement with appropriate backgrounds. Prerequisite: courses 41-42. Three credits; winter, spring; M. W. F., 10:15.

125. *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., 8:25.

134-135. *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: Course 71-72-73. Three credits: autumn, winter. T. Th., 2:00-5:00.

*136. *Advanced Clothing Construction*. This course offers advanced work in clothing construction and design. Making of dress forms, patterns, and garments. Three credits; winter; M. W., 1:00-4:00.

141-142. *Child Development*. A study of the care and development of young children, with special reference to home education. Three credits; autumn, winter; M. W. F., 8:25.

*Not offered 1949-1950.

161-162. *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: Course 1-2-3, and General Chemistry. Three credits; autumn, winter; M. W. F., 11:10.

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: Course 1-2-3, and General Chemistry. Three credits; spring; M. W. F., 10:15. Lab. arranged.

172. *Institutional Training*. This course offers practical work in the school cafeteria for those who are interested in being food service directors or cafeteria managers. Three credits; winter; time arranged.

177. *Advanced Institutional Training*. This course gives advanced training in the supervision of the school cafeteria and other institutional activities. Two credits; winter; time arranged.

183-184-185. *Home Economics Seminar*. Required of all majors. Studies of selected topics and reviews of current literature. Special investigation of problems. Prerequisite: at least thirty credits in Home Economics. One credit; autumn, winter, spring; arr.

LIBRARY SCIENCE

Miss Blackney

31-32-33. *Library Science*. Instruction in library methods, arrangement, classification, cataloging; the care and use of books and periodicals. Practice work required. Three credits; autumn, winter, spring; time arranged.

MATHEMATICS

Mr. Brinker, Mrs. Schlotthauer, Mrs. Johnstone

A major in mathematics shall consist of 45 credits, including courses 1, 2, 3, 51-52-53, 21 of which must be upper division. A minor shall consist of 27 credits, including courses 1, 2, 3, 51-52-53.

0. *Plane Geometry*. Given for college entrance. No credit. T. Th., 9:20; 11:10.

1. *Freshman Algebra*. A course for those who have had but one year of algebra in the preparatory school. It reviews briefly the fundamental principles of first-year algebra and continues with a further study of the quadratic equation, radicals, and fractional exponents. Four credits; autumn; M. T. W. Th., 8:25; 10:15; 11:10; 1:00.

2. *Trigonometry*. A study of the six trigonometric functions and their use in the solution of the triangle. Four credits; winter; M. T. W. Th., 8:25; 10:15; 11:10; 1:00.

3. *Analytical Geometry*. The equations of the straight line and conic sections and their relation to the rectangular and polar coordinates. Four credits; spring; M.-Th., 8:25; 10:15; 11:10; 1:00.

51-52-53. *Calculus*. The elements of differential and integral calculus with many problems in its application. Four credits; autumn, winter, spring; Sec. A., M.-Th., 7:30; Sec. B., M.-Th., 8:25.

61. *Solid Geometry*. The methods of plane geometry as applied to the geometry of space with many problems in practical application. Two credits; autumn; T. Th., 9:20.

101. *Spherical Trigonometry*. Elements of trigonometry as applied to the spherical triangle and to navigation and astronomy. Two credits; winter; T. Th., 9:20.

103. *Solid Analytical Geometry*. Typical equations of the plane, sphere, paraboloid, hyperboloid, and ellipsoid and their relation to rectangular and polar coordinates. Two credits; spring; T. Th., 9:20.

*123. *College Geometry*. A course in plane geometry including constructions, properties of the triangle, similarity, and harmonic points and lines. Four credits; spring; M. T. W. F., 11:10.

*131. *Theory of Equations*. Further study of complex numbers, solution of cubic and quadratic equations, symmetric functions, determinants, resultants, and discriminates. Four credits; autumn; M. T. W. F., 11:10.

141, 142. *Differential Equations*. The solution of the various types of differential equations with applications to problems in physics, engineering, and geometry. Four credits; autumn, winter; M. T. W. Th., 10:15.

*152. *College Algebra*. A discussion of further algebraical topics, including permutations and combinations, multinomial theorem, inequalities convergency and divergency of series. Four credits; winter; M. T. W. F., 11:10.

*163. *Advanced Calculus*. A study of power series, definite integral, partial differentiation, multiple integrals, and other topics. Four credits; spring; M. T. W. F., 10:15.

171. *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; to be arranged.

MODERN LANGUAGES AND LITERATURES

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

*Not offered 1949-1950.

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 nine credits in college if he continues the same language. If the same language is not continued then it will be necessary to obtain twenty-four credits in college. No credit will be allowed toward graduation from the Liberal Arts course for less than two years of any modern language taken either in college or preparatory school.

A major in any one language consists of forty credits, exclusive of any elementary course, or fifty-eight credits if two languages with the grouping of thirty-six and twenty-two credits respectively.

A minor consists of twenty-four credits exclusive of any elementary course.

SPANISH

Miss. Sorenson

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

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

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

101, 102, 103. *Introduction to Spanish Literature.* A survey of the history of Spanish literature. Lectures, reports, outside reading. The main currents of the development of the various branches of Spanish literature with a study of representative authors. Three credits; autumn, winter, spring; M. W. F., 7:30.

*104. *Spanish Essay.* A study of the important Spanish essayists and their representative essays. Three credits; autumn; M. W. F., 7:30.

*105. *Spanish Poetry.* This course includes a study of the history of Spanish poetry with the reading of representative Spanish poems. Winter; M. W. F., 7:30.

*106. *Latin American Literature*. A survey of Latin American literature with especial emphasis on the South American authors. Spring; M. W. F., 7:30.

153. *Spanish Pronunciation*. An analysis of the difficulties of Spanish pronunciation. Abundance of individual drill and practical directions for remedial exercises. Two credits; winter.

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; time to be arranged.

157. *Advanced Conversation*. Prerequisite: 54, 55, and 56. Practice in conversation for those preparing to teach. Two credits; spring; T. Th., 7:30.

FRENCH

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

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

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

GERMAN

Mr. Stoehr, Mr. Sonnenberg

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

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. *Composition and Conversation*. A comprehensive and thorough review of grammar. Facility in oral and written expression. Study of common idioms. Analysis of difficult points of German syntax. Two credits; autumn, winter, spring; T. Th., 10:15.

*Not offered 1949-1950.

*59. *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. Three credits; spring. Time arranged.

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.

105. *Classic 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.

106. *Advanced 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.

107. *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.

*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.

*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.

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., 9:20.

MUSIC*

Mr. Walker, Mr. Dortch, Mr. Trubey, Mr. Lobsien, Miss Miller, Mrs. McCoy, Mrs. Maxwell, Mrs. Hartman, Miss Myers

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.

The Bachelor of Music course with a curriculum in Piano, Organ, Voice, Violin, and 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 course consists of 192 credits. Students having an adequate background in their chosen major instrument may take 24 of the 72 applied music credits in secondary applied fields.

Students who wish a purely cultural training in music may choose a Bachelor of Arts degree with a major or minor in music.

Any student who appears publicly in any musical capacity must first have the approval of his major instructor in applied music.

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., 10:15.

4-5-6. *Theory I.* Prerequisite: The ability to play hymns on the piano at sight. A composite course including Harmony, Keyboard Harmony, Dictation, Sight Singing. Five credits; autumn, winter, spring; M-F., 8:25. Two laboratory periods to be arranged.

51-52-53. *Theory II.* Prerequisite: Theory I. A composite course that continues the work begun in Theory I. Three 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., 11:10.

*See outlines of courses for degrees in Music on pages 38-42.

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., 9:20.

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; time arranged.

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., 8:25.

MUSIC EDUCATION

11, 12, 13. *Brass Methods Class*. 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*, *Bari-tone*, 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 Class*. 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. *String Methods Class*. 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.

23. *Percussion Methods*. Methods of teaching and instruction in the various percussion instruments. One-half credit; autumn, winter, and 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., 10:15.

114, 115, 116. *Directed Teaching*. Research, observation, and practice teaching in the applied instrument in which the student is majoring. Two credits; autumn, winter, spring; time arranged.

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

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

CHURCH MUSIC

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

*CONDUCTING

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

ENSEMBLE

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

24, 25, 26. *Elementary Vocal Ensembles*. The study and practice in combinations such as duets, trios, quartets, sextets, etc. Autumn, winter, spring; credit and time arranged.

64, 65, 66. *The Treble Clef Club*. Two, three, and four-part music for ladies' voices will be studied and performed in concert. One-half credit; autumn, winter, spring; time arranged.

67, 68, 69. *The Male Chorus*. Original and arranged compositions for men's voices will be studied and performed in concert. One-half credit; autumn, winter, spring; time arranged.

*See courses listed under Music Education.

71, 72, 73. *The Oratorio Chorus*. The Oratorio Chorus will be made up mainly from the membership of the other choral organizations and will be organized for the purpose of presenting one or two oratorios or cantatas from leading choral composers. Membership of this and all other choral organizations is by individual audition. One-half credit; autumn, winter, spring; 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. All members of the choir are required to sing in the Oratorio Chorus. One credit; autumn, winter, spring; M. T. W. Th., 5:00.

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

INSTRUMENTAL ENSEMBLES

27, 28, 29. *Elementary Instrumental Ensembles*. These organizations consist of various combinations. Autumn, winter, spring; credit and time arranged.

77, 78, 79. *The Walla Walla College Concert Band*. This organization is composed of members of the entire college and 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, Fillmore, King, Olivadoti, and others, standard overtures, orchestral transcriptions, folk song medleys and symphonic selections of modern band composers. The woodwind color, the brilliance of the brass and rhythm of the percussion drums makes the band an attractive organization. Any college student capable of reading music of average difficulty is encouraged to join a good musical time. One-half credit; autumn, winter, spring; T. Th., 5:00.

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 various concerts performed by various members of the music faculty and students as well as choral organizations. One-half credit; autumn, winter, spring; M. W., 5:00.

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

APPLIED MUSIC

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

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

PIANO

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

TECHNIC:

Major and Minor scales legato and staccato, one, two, three, and four notes to a beat up to four octaves at a moderate tempo.

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.

STUDIES:

Czerny—Op. 109 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—Waltz

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, Nocturne Birds 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 and others.

ORGAN

Prerequisites:

The candidates will be expected to perform, to the satisfaction of the head of the organ department, technic, studies and pieces comparable in difficulty and style to those listed under piano prerequisites.

Organ I. Organ instruction book: Preparatory manual and pedal exercises. Dupre: Choral Preludes. Bach: Short Preludes and Fugues. Easier movements from the Sonatas of Mendelssohn, Guilman, and Rheinberger. Selections by other standard composers. Hymns.

Organ II. Continuation of technical studies to suit individual needs. Dupre: Chorale Preludes. Rheinberger: Trios. Bach: Choral Preludes from the Orgelbuchlein; Fugue in G Minor. Franck: Fantasia in C Major. Sonatas and other selections from the standard organ repertoire.

Organ III. Bach: Toccato and Fugue in D Minor; Chorale Preludes. Franck: Cantabile; Pastorale. Guilman: Sonata in D Minor. Boellman: Gothique Suite. Other compositions that are comparable in difficulty.

Organ IV. Bach: Chorale Preludes; Fantasia and Fugue in G Minor; Prelude and Fugue in D Major. Franck: Chorales; Piece Heroique. Widor: Fifth Symphony.

VOICE

Prerequisites: Possession of a good voice, ability to read and sing a simple song at sight and on pitch, ability to sing a folk song, a patriotic song or a hymn from memory to demonstrate voice, instinctive interpretive ability and sense of rhythm.

The candidate must be able to satisfy the head of the vocal department by individual examination regarding foundational piano attainments.

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 II. German songs from Schubert, Schumann, R. Strauss, Beethoven, Grieg, and others, songs in English from Lully, Handel, Tchaikovsky, 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 Oratorio Chorus and 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.

Voice majors and all members of the A Cappella Choir are required to sing in the Oratorio Chorus.

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: Krentzer; Rode Caprices; *Sonatas:* Handel, Tartini in G Minor; *Concertos:* Sphor Nos. 2, 6, Viotti Nos. 22, 23, Mozart A Major.

Major and Minor three octave scales; also thirds; sixths, simple octaves, and tenths.

Violin II

Etudes: Dont, Op. 35; Cavinies 24 Matinees; *Concertos:* Bach, A Minor; Vivaldi, A Minor and G Minor; Nardini; Mozart, D Major and E-flat Major.

Three octave scale plus arpeggios up to C in 4 octaves: Continue thirds, sixths, tenths.

Violin III

Etudes: Bach Sonatas for Violin alone; Paganini Caprices; Wieniawski Modern School Op. 10. *Concertos:* Wieniawski No. 2; Bruch G Minor; Mendelssohn; Saint Saens B Minor; Lalo Spanish Symphony; Sphor Nos. 8 and 9.

Violin IV

Bach Sonatas for Violin alone; Paganini Concerto; Ernst, F-sharp Minor; Bruch, D Minor; Beethoven; Brahms; Beethoven and Franck Sonatas.

He should further demonstrate adequate ability in sight reading and should be able to sight read simple piano accompaniments.

CLARINET

Clarinet I. Rose: Forty Studies. Langenus: Virtuoso Studies. Langenus: Scale Studies. Weber: Concertino; Fantasy and Rondo.

Clarinet II. Rose: Twenty Studies after Rode. Jeanjean: Twenty-five Studies. Perrier: Thirty Studies after Bach, Hendel, 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: Rhapsodie for Clarinet.

TRUMPET

Trumpet I. The prerequisite for this course is an embouchure already well formed approximately in the center of the mouth with no physical characteristics which would impair ultimate potential achievement. The emphasis in this grade is upon a review, if necessary, of material listed

in the Preparatory Department with the purpose of acquiring a correct and lasting command of the fundamental skills. The adaptation and study of a daily practice routine suitable to each individual, using additional material by introduction to transposition by clefs.

Trumpet II. Concentration upon basic technique; slurs, scales, chords, intervals, single, double and triple articulations in the cycle of major and minor keys—using standard works such as Arban, St. Jacone and Clarke.

The development of tone production and its application to a variety of styles, using as material vocalises, Lieder of Schubert, Brahms, Schumann and others, and melodic studies by Duhem. Continued study of transposition by clef using the Williams School of Transposition and orchestral trumpet parts.

Trumpet III. The study of etudes from more advanced sections of Wurm, Laurent, Chavanne, Fricke, Clarke, Petit, Arban and St. Jacone. Solo repertory by Goedicke, Scriabin, Wormser, Busser, Fitzgerald, Vidal, Barat, Goeyens, and Boeck.

Continuation of transposition by clef.

Trumpet IV. Advanced etudes by Charlier, Clarke, Pietzsch, Laurent, Petit, and others. Concerti and Sonatas by Pilsas, Feldman, Goedicke, Fitzgerald, Haydn, Hindemith. Intensive concentration upon transposition by clef, using Etudes of Sachse and orchestral trumpet parts.

TROMBONE

Trombone I. 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.

NURSING EDUCATION

Mr. Hanson, Miss Marsh

26. *History of Nursing, (Collegiate)* A survey course in nursing history designed to meet the needs of the students in the degree program in nursing. Four credits; spring; M.-Th., 11:10.

31. *Pharmacology I.* A review of basic mathematical procedures necessary for the nurse to know in the preparation and administration of drugs and solutions. A study of the common types of medical preparations and the methods of administration. Prerequisite: Knowledge of fundamental mathematical processes as indicated by pre-test. Two credits; spring; T. Th. 8:25.

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.

152. *Teaching of Nursing Arts.* Principles and methods of teaching nursing arts to student nurses. Selection and organization of teaching units with emphasis upon integration of theory with ward practice. Observation and directed teaching. Open only to graduate nurses. Two credits; winter; T. Th., 7:30. One credit (Directed Teaching); spring; to be arranged.

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

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: Nursing Education 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., 8:25.

170. *Methods of Health Education I.* A study of principles and methods in health education and their application especially in conference nursing and evangelistic efforts. It includes field work in evangelistic efforts and churches. Open to graduate nurses only. Two credits; autumn; M. W., 10:15. One credit (Field work); winter; to be arranged.

171. *Methods of Health Education II.* 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 economic students, and others upon application. Prerequisite: Health Principles. Three credits; winter; M. W. F., 10:15.

172. *Survey of Public Health.* A survey of the development of Public Health Nursing with special emphasis upon the various types of organizations and the possibilities of integration and correlation with other community activities. Consideration will be given to present trends, and observational field trips to nearby health centers will be included. Open to graduate nurses only. Three credits; spring; M. W. F., 11:10.

173. *Trends in Nursing.* Seminar class required of all majors in Nursing Education. Prerequisite: Open only to registered nurses. Readings and discussions of present conditions and problems in the field of nursing. Three credits; spring; M. W. F., 11:10.

PHYSICS

Mr. Brown, Mr. Kretschmar

Major students are required to take courses 101, 101A, 102, 102A, 103, 103A, 121, 121A, 122, 122A, 123, 151, 152 and courses 1, 2, 3, and 51-52-53 in mathematics.

21. *Descriptive Astronomy.* A comprehensive course in general astronomy including a study of solar and stellar motions and known facts of the solar system and the galactic system. A limited amount of observational work and laboratory work will be done, including some problem and observational work in the determination of time, latitude, and longitude. Four credits; autumn; M. T. W. Th., 11:10.

22. *Physics Survey.* A short course covering the basic elements of physics, with most of the time spent on practical aspects. The principle of mechanics, heat, electricity, and optics as they apply in home and school or in the hospital will be studied. Demonstrations and laboratory work are an integral part of the course. Designed for students in Elementary Education, Collegiate Nursing, and Home Economics. Does not apply on physics major or minor. Four credits; winter; M. T. W. Th., 11:10.

33. *Photography.* A practical short course designed to acquaint the student with the basic principles involved. Both color and black and white processes will be presented. The theory and practice of exposure, development, contact printing and enlarging. Study of various types of equipment. Student must furnish his own camera. One hour lecture and three hours laboratory. Two credits; spring; T., 11:00. Laboratory, T. or Th., 2:00-5:00.

41, 42, 43. *General Physics.* An introductory course in mechanics and heat, electricity, wave motion, sound, light and modern physics. Demonstrations, lectures, problems, and laboratory work. Basic mathematical principles are emphasized. The laboratory is integrated closely with the class work by means of a demonstration type of laboratory in which most of the fundamental physical principles are illustrated. Prerequisite: one full year of college mathematics which must include the principles of trigonometry. Four credits; autumn, winter, spring; M. W. F., 8:25. Laboratory, T., or Th., 2:00-5:00.

51, 52, 53. *General Physics.* (For students majoring in Chemistry, Engineering, or Physics.) This course follows closely the outline given for the preceding course, except that the problem requirements are greater. Calculus is required, but it may be taken concurrently. Five credits; autumn, winter, spring; M. W. F., 7:30, and laboratory T. or Th., 2:00-5:00.

101. *Electricity and Magnetism.* A course in general principles and theory of electricity and its applications, with special reference to the needs of advanced physics students. Prerequisites: Math. 51, Physics 51, 52, 53. Four credits; autumn; M. W. F., 11:10.

101A. *Electrical Measurements.* A laboratory course to accompany course 101. Two credits; autumn; M. W., 2:00-5:00.

102. *Electronics.* The principles and applications of electronic devices, such as triode vacuum tubes and photo-electric cells will be taken up in detail. Physics 101 and 101A or their equivalent is prerequisite. Four credits; winter; M. W. Th. F., 11:10.

102A. *Electronics Laboratory*. A laboratory course designed to accompany Course 102. Radio frequency measurements and experimental work with oscillators, rectifiers, amplifiers, and electronic devices. Two credits; winter; M. W., 2:00-5:00.

103. *Atomic Physics*. A course designed to acquaint the student with present-day developments in the rapidly expanding field of modern physics. Atomic structure is studied in detail from the viewpoint of radioactive and X-ray considerations. Atomic models, the Bohr theory, and the contributions of spectroscopy are studied. Four credits; spring; M. W. Th. F., 11:10.

103A. *Atomic Physics Laboratory*. A laboratory course in which some of the classical experiments are performed. Designed particularly to give the student a little background in modern physics. Will cover experiments similar to the outline in *Electron Physics*, by Hoag. Prerequisite: Physics 101, 102 and 101A. Two credits; spring; M. W., 2:00-5:00.

121. *Heat*. A course in the principles of temperature and heat measurement, Kinetic theory, change of state, and thermodynamics. Three credits; autumn; M. W., 8:25.

121A. *Heat Laboratory*. A laboratory course to accompany Course 121 Two credits; autumn; M. W., 2:00-5:00.

*122, 123. *Physical Optics*. An introduction to the study of light and optical phenomena. Reflection, refraction, dispersion, and interference are taken up. Polarization and spectra are studied. The electro-magnetic theory is studied in some detail and the quantum theory of radiation is considered briefly. Three credits; winter, spring; M. W. F., 8:25.

*122A. *Optics Laboratory*. A laboratory course to accompany Course 122. Two credits; winter; M.-W., 2:00 5:00.

151-152. *Theoretical Mechanics*. An elemental mathematical course covering the general principles of force, motion, statics of particles and rigid bodies, work and energy, equations of motion, central forces, motion of particles and rigid bodies. Three credits; autumn, winter; M. W. F., 11:10.

153. *Applied Mechanics*. A course in the physical and mathematical ideas underlying the mechanics of materials. A study of stress, shear, torsion, moments of inertia, as applied to beams and columns. Text book and problem work based on practical data is required. Three credits; spring; M. W. F., 11:10.

161, 162, 163. *Practice Teaching in Physics*. The student takes charge of one laboratory section in General Physics. Student should obtain instructor's approval before registering. One credit; autumn, winter, spring; time arranged.

PHYSICAL EDUCATION

Mr. Winter

The aim of the Physical Education Department is to develop the physical well being of the individual by providing activities which stimulate the habit of regular exercise, develop a reasonable skill and interest in activities which may

*Not offered 1949-1950.

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.

Because of the amount of supervision necessary for conducting the work of this department, a fee in addition to regular tuition is charged the student for all credit in physical education. Upper division majors and minors are not charged this fee.

Requirements for a Major in Physical Education.

a. Anatomy & Physiology	12 hours
Anatomy & Kinesiology	6 hours
Techniques in P. E.	6 hours
Theory of Play	3 hours
Principles of P. E.	2 hours
Dir. Teaching in P. E.	6 hours
Seminar	3 hours
Activity courses (elective)	8½ hours
Elective credits in P.E. in addition to above	10½ hours
	<hr/>
	57 hours

- b. 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 85-86-87 and 97, 98, 99 plus nine hours of upper division.

Students not majoring or minoring in Physical Education may not apply more than three quarter hours of credit in activity courses toward graduation.

1, 2, 3. *Basic physical education.* Men—calisthenics, simple drills, games and contests, ability tests and developmental exercises. One-half credit; autumn, winter, spring; M. W., 11:10, 1:00, 3:00; T. Th. 11:10.

4, 5, 6. *Basic physical education.* Women—same as 1, 2, 3. One-half credit; autumn, winter, spring; T. Th. 8:25, 9:20, 10:15, 4:00.

7, 8, 9. *Restricted physical education.* One-half credit; autumn, winter, spring; time arranged.

ACTIVITY COURSES

The following activity courses may be taken for either one or one-half credit depending upon the wishes of the student. 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.

17. *Beginning Archery.* Spring T. Th., 3:00.
18. *Advanced Archery.* Spring, T. Th., 4:00.
19. *Weight Lifting.* Autumn, winter, spring; time arranged.
24. *Beginning Badminton.* Autumn, winter, spring. Men—M. W., 10:15. Women—T. Th., 5:00.
25. *Advanced Badminton.* Winter, spring. Men—M. W., 3:00. Women—T. Th., 9:20.
26. *Beginning Skiing.* Winter; time arranged.
- Student must carry personal accident insurance.
27. *Advanced Skiing.* Winter; time arranged.
28. *Beginning Baseball.* Spring; M. W., 3:00.
29. *Advanced Baseball.* Spring; M. W., 4:00.
31. *Beginning Basketball.* Winter. Men—M. W., 11:10 and 1:00. Women—M. W., 10:15.
32. *Advanced Basketball.* Winter. Men—M. W., 4-6 and time arranged. Women—T. Th., 4:00.
35. *Beginning Tennis.* Spring; time arranged.
36. *Advanced Tennis.* Spring; time arranged.
37. *Softball.* Spring; Men—M. W. 11:10, 1:00; Women—T. Th., 10:15.
38. *Beginning Touch-football.* Autumn; M. W., 3:00.
39. *Advanced Touch-football.* Autumn; M. W., 4:00.
41. *Beginning Trampoline.* Time and credit to be arranged.
42. *Advanced Trampoline.* Time and credit to be arranged.
43. *Volleyball.* Autumn, Men—M. W., 5:00, Women—T. Th., 3:00; Winter, Men—T. Th., 3:00.
61. *Beginning Swimming.* Men—Autumn, winter, spring, M. W., 10:15, T. Th., 2:00.
62. *Beginning Swimming.* Women—Autumn, winter, spring, M. W., 2:00, T. Th., 10:15.
63. *Swimming.* Men—Autumn, winter, spring, M. W., 2:15, T. Th., 3:00.
64. *Swimming.* Women—Autumn, winter, spring; T. Th., 8:25, M. W., 3:00.
65. *Life Saving.* Winter; time arranged.
66. *Water Safety.* Spring; time arranged.
67. *Beginning Tumbling.* Men—Autumn, winter, spring; M. W., 8:25.
68. *Beginning Tumbling.* Women—Winter; T. Th. 10:15.
69. *Advanced Tumbling.* Winter, spring; M. 10:15, 2:00.
74. *Tumbling and Apparatus.* Autumn, winter, spring; time arranged.
75. *Advanced Tumbling and Apparatus.* Autumn, winter, spring; time arranged.
76. *Track and Field Activities,* Spring; M. W., 4:00 and 5:00.
- 11-12-13. *Anatomy and Physiology.* See Biology 11-12-13.
- 14, 15, 16. *Health Principles.* See Non-Departmental.
- 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 and one-half credits; autumn, winter, spring. Th. 1:00-5:00.

71, 72, 73. *Medical Cadet Corps Advanced Course*. Men in this class act as the non-commissioned officers of the beginning class. Instruction in the art of leadership, commanding, and administration. Prerequisite; medical Cadet Corps 21-22-23 and 61, 62, 63. Basic conditioning is advised. One-half credit; autumn, winter, spring; time to be arranged.

77, 78, 79. *Seasonal Recreation*. This course is offered to afford opportunity for those who have completed their physical education requirements but still wish to participate in regular activity. It will be limited to juniors and seniors and does not apply toward filling the physical education requirements for graduation. Autumn, winter, spring; time arranged.

85, 86, 87. *Applied Anatomy and Kinesiology*. Prerequisite: Anatomy and Physiology. 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, 93. *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, camp craft, nature study, etc. Two-credits; autumn, winter, spring; T. Th.

96. *First Aid and Training Course*. Conditioning for activity; massage; bandaging, taping; first aid. Three credits; autumn; time arranged.

97-98-99. *Techniques in Physical Education*. A course outlined to develop basic skills in tumbling, apparatus and various sports activities in the field of physical education. Autumn, winter, spring; 2 credits. Men—M., W., 1:00-4:00. Women, T., Th., 1:00-4:00.

101. *History of Physical Education*. Two credits; autumn; T. Th., 8:25.

102. *Principles of Physical Education*. A study of the principles upon which a program of Physical Education should be based. Two credits; winter; T. Th., 8:25.

103. *Principles of Health Education*. The principles and methods underlying the educational procedures in the health education program. Three credits; spring; T. Th. F., 8:25.

104. *Theory of Play* A course outlined to provide a basis for the need of recreational activity for all age groups. Three hours; autumn; M. W. F., 7:30.

106. *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 hours; winter M. W. F., time arranged.

*111. *Physiology of Exercise*. The effect of exercise on the tissues, system and organs of the body. Prerequisite: 11, 12, 13. Three credits; autumn, M. W. F., time arranged.

116-117-118. *Therapeutics*. Theory and practice in the use of remedial gymnastics for physical defects. Two credits; autumn, winter, spring, T. Th., time arranged.

121. *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.

130-131-132. *Administration of Secondary Physical Education*. Study of problems in schedules, organization, group activities and testing needed on the secondary level. Two credits. Two classes per week with laboratory work in the form of actual supervision of academy physical education classes. Autumn, winter, spring; T. Th., 1:00.

150-151-152. *Directed Teaching in Physical Education*. One lecture and four teaching periods a week. Application of principles, selection, classification, arrangement, and presentation of the various activities of the physical education program. Two credits; autumn, winter, spring. Prerequisite: senior standing. Time arranged.

161-162-163. *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; autumn, winter, spring; time arranged.

POLITICAL SCIENCE

Mr. Westermeyer

51. *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. This course is required of all B. Th. students in their sophomore year, as well as of all regular majors and minors in history. Three credits; autumn; M. W. F., 11:10.

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

*151. *World Politics*. A study of the political objectives of imperialistic nations, the clash of modern ideologies, the position of the Vatican in world affairs, the relation between the League of Nations and the United Nations organization, with emphasis on the emergence of the United States as a world power. Three credits; spring; M. W. F., 10:15.

SPEECH

Mr. Emmerson, Mrs. Palmer

Departmental Requirements

Major: 45 Credits, including 24 credits in the upper division. Required: Speech 1-2-3, 126-127-128, 197-198. In addition, all senior students must demonstrate a reasonable degree of platform proficiency in public speaking and reading. A second major in an accepted field is required.

*Not offered 1949-1950.

Speech 85-86-87 does not apply on a major. May apply on minor if student's major field is elementary education.

Minor: 27 credits, including Speech 1-2-3 and 9 credits in the upper division.

Speech 21-22-23 and six credits in another field will fulfill the vocational requirements.

Equipment and Facilities

The Department of Speech is equipped with a Sound Mirror Tape recorder, a standard Presto disc recorder, and a public address system, with facilities for broadcasting from a sound-proof studio over KUJ, Walla Walla's 5000 watt Mutual station. The Radio club is an affiliate of the Inter Collegiate Broadcasting System and operates its own limited broadcast campus radio station, with remote lines from Columbia Auditorium, the Village Church, Conard Hall Dining Room, the Music Conservatory, the College Chapel, and Sitter Hall Worship Room.

Speech Correction

Introductory work in the field of Speech Correction, including private assistance in the treatment of speech disorders is available by arrangement with the head of the Department of Speech.

LOWER DIVISION COURSES

1-2, 3. *Essentials of Speech*. An introduction to the procedure of public speaking with emphasis on the acquirement of ease before an audience, a conversational attitude, and reasonable facility in pronunciation, articulation, and voice production. Instruction in the use of a public address system is included. Open for freshmen. Two credits; autumn, winter spring; Sec. A, T. Th., 9:20; Sec. B, T. Th., 11:10.

21-22-23. *Technical Radio*. A course in the fundamentals of radio electronics. Includes instruction in building a power unit and in the operation of a control room panel with opportunity for practical experience in a control room. One credit; autumn, winter, spring; Time arranged.

54. *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 a Permanent organization, and the writing of a constitution. Two credits; autumn; T. Th., 7:30.

55. *Oral Reading*. A course in reading from the printed page with fluency and effectiveness, with special emphasis placed on reading the Scriptures. No memory work. Two credits; winter; T. Th., 7:30.

56. *Art of Interpretation.* A study of the various types of interpretative literature with a view toward its understanding for the purpose of public presentation. Practice in memoriter reading. Prerequisite: four credits in speech. Two credits; spring; T. Th., 7:30.

66-67-68. *Speech Fundamentals.* A course especially constructed to meet the theology speech requirement. Includes instruction in the essentials of public speaking with emphasis on the acquirement of ease before an audience, a conversational attitude, reasonable facility in pronunciation, articulation and voice production with special emphasis the last quarter on building the sermon. Two credits; autumn, winter, spring; Sec. A. T. Th., 8:25; Sec. B, T. Th., 10:15.

70. *Extemporaneous Speaking.* Practice in extemporaneous speaking on subjects of current interest with attention to content, the organization of speech material, the essentials of effective oral presentation. Three credits; autumn, winter or spring; M. W. F., 11:10.

85-86-87. *Teacher's Speech.* A course designed especially for elementary and secondary teachers. Some practice in the organization and delivery of speeches. Emphasis is placed on the development of a fluent, pleasing speech style. Opportunity is allowed for the student to observe and conduct group and individual therapy in the improvement and correction of minor speech disorders. Two credits; autumn, winter, spring; T. Th., 1:00. Clinic time arranged.

111. *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. Prerequisite: Speech 1-2-3. Three credits; autumn; M. W. F., 7:30.

*112. *Persuasive Speaking.* Psychological aspects. A study of the value and practice of emotional content in persuasive speaking. Prerequisite: Speech 111. Three credits; winter; M. W. F., 7:30.

*113. *Public Lecturing.* A course in the use of illustrative and demonstrative material as well as in the presentation of the straight platform speech of greater length. Prerequisite: Speech 1-2-3. Three credits; spring; M. W. F., 7:30.

*126. *American Phonetics.* A study of the sound of the English language. Special consideration is given to pronunciation standards. Three credits; autumn; M. W. F., 8:25.

*127. *Voice and Diction.* Studies in the development of a well modulated, pleasing voice. Each student, by close observation of himself and the group, proceeds to eliminate the undesirable qualities of pitch, tone, accent, and other speech anomalies from his own voice. Three credits; autumn; M. W. F., 8:25.

*128. *Introduction to Speech Correction.* A detailed analysis of the causes, symptoms, and remedial treatment of all types of speech defects. Introduction to speech pathology and clinical practice in speech correction. Prerequisite: Speech 126-127. Three credits; spring; M. W. F., 8:25.

*Not offered 1949-1950.

141-142-143. *Radio Production*. A study of microphone technique, practice in announcing, and preparation and presentation of programs for broadcasting. Practical experience with announcing and technical shifts on the Campus Radio Station. Prerequisite: Speech 1-2-3. Two credits, autumn, winter, spring. Membership limited. M., 3:15-5:15; laboratory arranged.

*155-156. *Advanced Interpretation*. The course aims to develop further skill in analysis; and understanding of various types of literature. A study of the finer techniques of oral expression. Prerequisite: Speech 55-56. Three credits; autumn, winter; M. W. F., 10:15.

*157. *World Oratory*. A study of the times and orations of the great orators from ancient Greece to modern times: Demosthenes, Cicero, Savonarola, Luther, Webster, Bryan, Roosevelt, Churchill, and others. Three credits; spring; M. W. F., 10:15.

174-175-176. *Radio II*. Continued study in the techniques of radio broadcasting, with special emphasis on writing, speaking, and directing. Experience in writing, directing and producing an original half-hour radio play. Prerequisite: Speech 141-142-143. One credit: autumn, winter, spring; time arranged.

197-198. *Methods in Teaching Speech*. Experience in conducting laboratories for Speech 1-2-3 in which the principles of teaching speech are studied. Prerequisite: 18 hours of speech, including Speech 1-2-3. Two credits; autumn, winter; time arranged.

199. *Research*. An intensive study of special problems carried on by advanced students under the direction of the head of the Department of Speech. 1-3 credits; spring; time arranged.

MALAY

Mr. Hendershot, Mrs. Hendershot

51-52-53. *Malay I*. A thorough foundation in the grammar and idiom of the language as spoken in British Malaya, Borneo, and the Dutch East Indies. The first year provides a basic vocabulary of at least a thousand words and phrases in the English Romanized form of the language. Some time is devoted to a study of Malay customs and traditions. Conversational drill is emphasized with the object of developing fluency in speaking and writing. Biblical language is introduced through the medium of brief selections from the gospels. Four credits; autumn, winter, spring; M.-F., 7:30.

101-102-103. *Malay II*. A review of the fundamental principles of Malay grammar. Drills in composition, idiom, letter-writing and Malay proverbs. Considerable emphasis is placed on Biblical language as exemplified in the gospels and the book of Revelation. Both the British and the Dutch Romanizations are utilized to make possible an appreciation of the two types. Reports to the class on assigned topics and brief Bible studies in the Malay language are required. Four credits; autumn, winter, spring; M.-F., 7:30.

*151-152-153. *Malay III*. The student is given the opportunity to acquaint himself with the terminology of both the Old and the New Testament. Practice in giving sermons and Bible Readings will be offered. The

*Not offered 1949-1950.

fundamental principles of the Dutch language, spoken in the Dutch East Indies, are taught including a speaking knowledge of said language. Since the Arabic characters are in general use throughout Southern Asia and Northern Africa, the student is also taught to read the Malay language in said characters. The usual objections made by Moslems against the Christian religion are thoroughly studied. Two credits; autumn, winter, spring; T. Th., arranged.

NON-DEPARTMENTAL OFFERINGS

4. *Freshman Orientation.* A course designed to help the incoming freshman evaluate himself, develop adequate methods of study, improve his reading habits, and explore his vocational possibilities. Two credits; autumn; T. Th., 7:30.

14, 15, 16. *Health Principles.* A study of the healthy, wholesome personality including the underlying principles governing the harmonious development of the human body. It includes our denominational health principles and stresses both personal and community health. Three credits; autumn; Sec. A, M. W. F., 11:10; Sec. B, M. W. F., 1:00; winter, Sec. C, M. W. F., 11:10; spring, Sec. D, M. W. F., 10:15; Sec. E, M. W. F., 1:00.

AERONAUTICAL INSTRUCTION

1. *Ground School Training* in connection with course 1A. One hundred sixteen 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.

PART VIII

The School of Theology

Organization

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

Admission

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

Application for admittance must be made to the Registrar.

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

Courses of Study

Students who are not able to present two units of modern language from a secondary school will be required to make up this deficiency by taking fifteen quarter credit hours of modern language in college in addition to the regular Theology Course. However, students who have demonstrated an above-average proficiency in English in the secondary school may take three years of Greek and thus meet their college entrance deficiency and the language requirements for the Bachelor of Theology degree.

The curriculum of the School of Theology provides three different courses of study. The first requires 210 quarter unit hours and leads to the degree of Bachelor of Theology; the second is a four-year course for Bible Instructors which leads to a Bachelor of Arts degree. The Bible Instructors' course is open to women students only. Many students prefer to specialize in Biblical languages. When this is done, the re-

sulting degree is Bachelor of Arts in Religion. These courses are prescribed, the major field of study being outlined in the course. A student taking these courses, in addition to the prescribed major, must present a regular minor in one of the fields of study as outlined on page 36.

At the discretion of the Dean competent students may supplement their theological schedules with work from the College. For students who so desire, certain supplementary courses in education or history may be worked into the present schedule as electives, for teaching certification.

Entrance and Comprehensive Examinations

All entering Freshman are required to take an Entrance Examination before entering upon the work of the Theology Course. Likewise the graduates from the School of Theology are required to take a Comprehensive Examination upon completing work toward a degree in theology.

Requirements for Theology Degree

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. Students must have obtained at least a C average before being admitted to senior standing. If at any time during his course the student's grades fall as low as .50 grade average, he will be placed on probation. If during the quarter following he does not show improvement, he will be asked to drop his work in the School of Theology.

For graduation 210 quarter credit hours are required. All work in Bible and Homiletics must be of at least C grade and a student majoring in Biblical languages must also receive C grade in the Biblical language courses.

Outline of Theology Course

FIRST YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Life & Teachings	2	Life & Teachings	2	Life & Teachings	2
Greek I	4	Greek I	4	Greek I	4
Freshman Comp.	3	Freshman Comp.	3	Freshman Comp.	3
European Civilization	3	European Civilization	3	European Civilization	3
Basic Science	4	Basic Science	4	Basic Science	4
Physical Ed.	$\frac{1}{2}$	Physical Ed.	$\frac{1}{2}$	Physical Ed.	$\frac{1}{2}$
	<hr/> 16 $\frac{1}{2}$		<hr/> 16 $\frac{1}{2}$		<hr/> 16 $\frac{1}{2}$

SECOND YEAR

Fund. of Ch. Belief	2	Fund. of Ch. Belief	2	Fund. of Ch. Belief	2
Greek II	3	Greek II	3	Greek II	3
Speech Fundamentals	2	Speech Fundamentals	2	Speech Fundamentals	2
Conducting	1	Conducting	1	Conducting	1
Church Music	1	Church Music	1	Church Music	1
*Vocation	3	*Vocation	3	**Health Principles	3
American Govt.	3				
Physical Education	½	Physical Education	½	Physical Education	½
Elective	1	Electives	4	Electives	4
	16½		16½		16½

THIRD YEAR

Daniel & Revelation	2	Daniel & Revelation	2	Daniel & Revelation	2
Hebrew Prophets	3	Hebrew Prophets	3	Hebrew Prophets	3
Church History	3	Church History	3	Church History	3
Homiletics	3	Homiletics	3	Homiletics	3
Spirit of Prophecy &		Spirit of Prophecy &		Spirit of Prophecy &	
Denom. History	2	Denom. History	2	Denom. History	2
Elective	3	Elective	3	Elective	3
	16		16		16

FOURTH YEAR

Systematic Theology	3	Systematic Theology	3	Systematic Theology	3
New Test. Epistles	2	New Test. Epistles	2	New Test. Epistles	2
Evangelism	3	Evangelism	3	Evangelism	3
History (upper div.)	3	History (upper div.)	3	History (upper div.)	3
World Religions	3	Comparative Religion	3	Electives	5
Seminar in History	1	Electives	2		
Electives	2				
	17		16		16

SUMMER SCHOOL

Education	9
Elective	6

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

ELECTIVE COURSES

Bible	Education
Advanced Teachings of Jesus	Students desiring certification may elect
Archaeology and the Bible	professional educational subjects as listed
Bible Manuscripts and Translations	on page 48.
Methods	General
Research Methods	Music
Bible Teaching Methods	Art

NOTES

1. In Education, to fulfil requirements, a sequence such as General Psychology, Educational Psychology, Principles of Education is suggested. Those who wish to add other courses in Education, with a view to teacher certification, are referred to requirements for this printed in the College Bulletin.

*Six units in vocation are to be earned during the four-year course.

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

2. In music in addition to instrumental and vocal training, the courses, Fundamentals of Music, Directing, and Church Music are recommended.
3. Electives are not required subjects in the degree course.

Bible Instructor's Course

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

Outline of Course for Bible Instructors (For Women Students Only)

FIRST YEAR

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

SECOND YEAR

Fundamentals	2	Fundamentals	2	Fundamentals	2
Electives or		Electives or		Electives or	
Language	0-5	Language	0-5	Language	0-5
Speech I	2	Speech I	2	Speech I	2
Home Economics	3	Home Economics	3	Home Economics	3
Church Music	1	Church Music	1	Health Principles	3
Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$	Church Music	1
Education	3	Education	3	Physical Education	$\frac{1}{2}$
	<hr/> 16 $\frac{1}{2}$		<hr/> 16 $\frac{1}{2}$		<hr/> 16 $\frac{1}{2}$

THIRD YEAR

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

FOURTH YEAR

Systematic Theology	3	Systematic Theology	3	Systematic Theology	3
Evangelism	3	Evangelism	3	Evangelism	3
World Religions	3	Comparative Religion	3	*Elective	10
*Elective	7	*Elective	7		—
	—		—		16
	16		16		

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

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

The School of Nursing

Mr. Hanson, Miss Marsh, Miss Stratton Miss Brenner, Miss Wimer, Miss Baer, Miss O'Neil, Miss Neufeld, Miss Belz, Miss Rackliff, Miss Storey

In recent years the level of nursing education has been steadily rising. Nursing leaders have now recommended that the term "Professional" when applied to nursing education be restricted to nursing schools operated by schools of higher learning. In keeping with this trend Walla Walla College and the Portland Sanitarium and Hospital have combined their facilities in the establishment of a School of Nursing known as the Walla Walla College School of Nursing. The course in Nursing has been so organized that it may be completed in four calendar years. Six quarters are spent on the college campus and ten quarters on the Sanitarium campus. Upon the completion of the required course the student is eligible to write the State Board examinations for the R.N. and will receive the degree of Bachelor of Science with a curriculum in Nursing.

Organization

During the first six quarters of the course the members of the School of Nursing are subject to all the general regulations of the College. The academic year, periods of examinations, etc., run concurrently with those of the College, and all its facilities for study and manual work are at the disposal of the school. During the last ten quarters the members of the School of Nursing are under the direction of the faculty of the Hospital Division of the school.

Admission

Admission to the School of Nursing is granted by the Admission Committee of the College. Completion of the first six quarters' work does not automatically admit the student to the Hospital Division. Requirements for admission are the same as for the college as listed on page 33. Students who have not completed two units of modern language in a secondary school will be required to make up this deficiency by taking fifteen quarter credit hours of modern language in college in addition to the regular course.

Nursing classes will enter the Hospital Division of the School in January and July. Students who have received their college preparation in other schools should plan to transfer their credits to Walla Walla College and enroll as a college student. Their acceptance to the Hospital Division will then be considered by the College Admission 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.

"The Lord wants wise men and women, who can act in the capacity of nurses, to comfort the sick and suffering,"—*Counsels on Health*, p. 388.

Requirements for the Degree of Bachelor of Science With a Curriculum in Nursing

Sixteen quarters' work as prescribed in the Bulletin of the School of Nursing (write Fredrick R. Hanson, Dean, School of Nursing, Walla Walla College, College Place, Washington for the bulletin) are required for graduation. Also, for graduation, a C average in the College Division and a C average in the Hospital Division is required. Nursing students should be prepared to pass an examination in arithmetic upon entering college. It is also required that all students must be successful in meeting the requirements for the R.N. before receiving the Bachelor of Science Degree.

Outline of Bachelor of Science with a Curriculum in Nursing

College Campus Division:

FIRST YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Bible	2	Bible	2	Bible	2
English	3	English	3	English	3
Gen. Chemistry	4	Gen. Chemistry	4	Gen. Chemistry	4
Gen. Psychology	3	Physics Survey	4	History of Nursing	4
Zoology	4	*Electives	3	Ed. Psychology	3
Physical Education	½	Physical Education	½	Physical Education	½
<hr/>		<hr/>		<hr/>	
16½		16½		16½	

SECOND YEAR

Anatomy & Phys.	4	Anatomy & Phys.	4	Anatomy & Phys.	4
Food Study	3	Food Study	3	Bible	2-3
Organic Chemistry	3	Sociology	3	Sociology	3
Microbiology	3	Microbiology	3	Pharmacology	2
Electives	3	Electives	3	Electives	3
—	—	—	—	Electives (suggest	—
16	16	16	16	lettering)	1
				—	—
				16	16

Hospital Division
Portland Sanitarium and Hospital

7th Quarter	Credits	8th Quarter	Credits	9th Quarter	Credits
Religion I	2	Religion II	2	Religion III	2
Prof. Problems in Nursing I	1	Pharmacology II	3	Med. Nursing II	2
Nursing Arts	8	Med. Nursing I	2	Surg. Nursing II	2
Physical Therapy	4	Surgical and Operating Room Nursing	3	Diet Therapy	2
Pathology and Intro to Medical Science	2	Practice in Med. & Sur. Nursing	5	Practice Operating Room Service	3
—	—	—	—	Prac. Phys. Therapy	2
17	17	15	15	—	—
				13	13
10th Quarter	Credits	11th Quarter	Credits	12th Quarter	Credits
Obstetrical Nursing	4	Religion IV	2	Pediatric Nur. Affil.	5
Physical Education	0	Adv. Med & Surg. Specialties	2	Prac. in Ped. Nur. Affiliation	5
Surgical Specialties	3	Com. Disease Nur.	3	—	—
Prac. in Med. Nurs.	3	Prac. in Obstet. Nur.	5	—	—
Prac. in Diet Ther.	2	—	—	—	—
—	—	12	12	10	10
12	12				
13th Quarter	Credits	14th Quarter	Credits	15th Quarter	Credits
Psych. Nur. Affil.	5	Religion V	2	Religion VI	2
Prac. in Psych. Nur. Affiliation	5	Soc. Prob. in Nur. Social Prob. in Nursing Service	2	Intro. to Pub. Health Nursing	4
—	—	Prac. in Adv. Med. & Surgical Nur.	5	Prac. Senior Ward Nursing	3
10	10	—	—	Health Service Prac. in Community	2
		9	9	—	—
				11	11
16th Quarter	Credits				
Religion VII	2				
Prof. Problems II	3				
Prac. in Com. Disease Nursing (Elective)	2				
Prac. in Sen. Ward Nursing	3				
—	—				
10	10				

*Preferred Electives: History, American Government, Education, Speech, Biology, and Economics.

PART X

Engineering

The College offers courses leading to the Bachelor of Science with a curriculum in engineering. For the first two years all engineering students take the same courses. Thereafter the student may, at his option, concentrate his work either in the field of architectural engineering or that of mechanical and electrical 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.

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 should consider taking the engineering course.

Since there is no clear distinction between major and minor courses, the grade of D in any subject will be interpreted as follows: a grade of D may be accepted for credit toward the degree provided there are no more than two such marks in any given quarter, and further provided that the grade-point average for that quarter is not lower than 1.0. Where these conditions do not hold, a grade of D will necessitate repeating the course.

Students pursuing the engineering curriculum must successfully complete each of the courses listed in the outline following according to the chosen field of emphasis.

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.

Engineering

FIRST YEAR (Same for all engineering students)					
Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Bible	2	Bible	2	Bible	2
English	3	English	3	English	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
Phys. Ed	$\frac{1}{2}$	Phys. Ed.	$\frac{1}{2}$	Phys. Ed	$\frac{1}{2}$
<hr/>		<hr/>		<hr/>	
16½		16½		16½	

SECOND YEAR (Same for all engineering students)

Bible	2	Bible	2	Bible	2
Physics	4	Physics	4	Physics	4
Calculus	4	Calculus	4	Calculus	4
Eng. Mech.	4	Eng. Mech.	4	Surveying	4
Carpentry or		Carpentry or		Carpentry or	
Auto Mechanics	3	Auto Mechanics	3	Auto Mechanics	3
Phys. Ed.	$\frac{1}{2}$	Phys. Ed.	$\frac{1}{2}$	Phys. Ed.	$\frac{1}{2}$
	<hr/> 17 $\frac{1}{2}$		<hr/> 17 $\frac{1}{2}$		<hr/> 17 $\frac{1}{2}$

Mechanical and Electrical Engineering

THIRD YEAR

Bible	2	Bible	2	Bible	2
Eng. Economics	3	Eng. Accounting	3	Sanitary Eng.	3
Elec. & Magnet.	4	Electronics	4	Atomic Phys.	4
Elec. Measure.	2	Electron Lab.	2	Atom. Phy. Lab.	2
Fluid Mechan.	4	Thermodynamics	4	Mech. Materials	4
Machine Shop	3	Machine Shop	3	Machine Shop	3
	<hr/> 18		<hr/> 18		<hr/> 18

FOURTH YEAR

Bible	2	Bible	2	Bible	2
DC-AC Mach	5	DC-AC Mach	5	DC-AC Mach	5
Eng. Admin.	3	Htg. & Air Cond.	3	Steam Power	3
Materials	2	Materials Lab.	1	Materials Lab.	1
Struc. Des. Wood	3	Struc. Des. Steel	4	Struc. Des. Reinf.	
				Concrete	4
Machine Des.	3	Elec. Des.	3	Power Pl. Des.	3
	<hr/> 18		<hr/> 18		<hr/> 18

Architectural and Structural Engineering

THIRD YEAR

Bible	2	Bible	2	Bible	2
Eng. Economics	3	Eng. Accounting	3	Sanitary Eng.	3
Mech. Equip.	2	Elect. Equip.	2	Plumbing	2
Hist. Arch.	3	Hist. Arch.	3	Hist. Arch.	3
Fluid Mech.	4	Thermodynam.	4	Mech. Materials	4
Archit. Drawing	3	Archit. Drawing	3	Archit. Drawing	3
	<hr/> 17		<hr/> 17		<hr/> 17

FOURTH YEAR

Bible	2	Bible	2	Bible	2
Eng. Admin.	3	Htg. & Air. Cong.	3	Steam Power	3
Struc. Des. Wood	3	Struc. Des. Steel	4	Struc. Des. Reinf.	
				Concrete	4
Materials	2	Materials Lab.	1	Materials Lab.	1
Arch. Des. Theory	4	Arch. Des. Theory	4	Arch. Des. Theory	4
Arch. Design	4	Arch. Design	4	Arch. Design	4
	<hr/> 18		<hr/> 18		<hr/> 18

ME 1-2-3. *Engineering Drawing*. Use and care of instruments; lettering practice; theory of projections—orthographic views, sections, auxiliary views, pictorial representation, dimensioning, conventional practices; sketching; pencil and ink tracings; conventional representation of threads, fasteners, standard parts; detail and assembly drawings. Basic projection principles for points, lines, and planes; representation and graphical solutions of related problems; sections, developments and intersections of various surfaces and solids. Applications to practical engineering problems, with emphasis on visualization and analysis. Prerequisites: none. Three credits; autumn, winter, spring; M. T. Th., 2:00-5:00.

ME 51-52 *Engineering Mechanics*. Statics, two and three dimensional; mathematical and graphical methods of solution; kinetics; work and energy; dynamics of rotating bodies; impulse, momentum, impact. Corequisite: Physics, Calculus. Four credits; autumn, winter; M. T. W. 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: Algebra, trigonometry; also ME 1-2-3 for engineering students. Four credits; spring; M. W., 11:10, S. W., 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; non-steady flow. Prerequisite: ME 51-52, Calculus. Four credits, autumn, M. T. W. Th., 10:15.

ME 112 *Thermodynamics*. Properties of gases and vapors; entropy; PV, TS, HS, and PH planes; internal combustion cycles; vapor cycles; psychrometry; refrigeration; compressible fluids. Prerequisite: Physics, Calculus, ME 111. Four credits; winter; M. T. W. Th., 10:15.

ME 113. *Mechanics of Materials*. Stress-deformation relations; stresses, deformations and deflections of posts, shafts, beams, columns; combined stresses; photoelasticity; theories of failure; energy methods; curved bars; plates. Prerequisite: ME 51-52. Four credits; spring; M. T. W. Th., 10:15.

*ME 121. *Engineering Administration*. Preparation of contracts and specifications; advertising, bidding procedures, bonds, claims, arbitration. Office organization and management; personnel problems, preparation of drawings, field supervision, bookkeeping and cost accounting, forms, orders, fees, commissions. Prerequisites: None. Three credits; autumn; M. W. F., 7:30.

*ME 122. *Heating and Air Conditioning*. Principles and practice of heating, ventilating and air conditioning to meet public, residential, and industrial needs; heat losses and gains; automatic control equipment. Prerequisites: Algebra, Physics. Three credits; winter; M. W. F., 7:30.

*ME 123. *Steam and Diesel 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; oil engine design and performance characteristics, fuel injection pumps and spray nozzles; piping, automatic controls, instruments. Prerequisites: ME 112, Chemistry. Three credits; spring; M. W. F., 7 30.

*Not offered 1949-1950.

ME 141. *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; M. T. Th., 2:00-5:00.

ME 142. *Electrical Machine Design*. Specifications, calculations, design of electrical machines and equipment. Prerequisites: ME 141, 161, 162. Three credits; winter; M. T. Th., 2:00-5:00.

ME 143. *Power Plant Design*. Small isolated power plants; heat balance; plant layout; piping; selection of equipment. Prerequisites: ME 123, 141, 142. Three credits; spring; M. T. Th., 2:00-5:00.

ME 151-152-153. *Engineering Materials*. Materials of construction—lime, cement, stone, brick, sand, timber, ores, cast iron, wrought iron, steel, nonferrous metals and alloys; chemical and physical properties, uses, testing methods, unit stresses; behavior in tension, compression, torsion, shear, bending. Prerequisites: ME 113. Four credits (total); autumn: T, Th., 9:20; winter, spring; F. 10:15-12:00.

ME 161-162-163. *Direct and Alternating Current Machinery and Circuits*. Theory, construction, operation, applications of direct current generators and motors; armature reaction and commutation; voltage regulation, speed control; starting control, regulating devices; storage batteries. Theory, construction, operation, applications of alternating current generators, transformers, induction motors, synchronous motors, converters, rectifiers; starting, control, and regulating devices. Transmission, distribution, control circuits; networks, calculations. Prerequisites: Calculus, Electricity and Magnetism. Five credits; autumn, winter, spring; M. T. W. Th., 10:15. Lab. W. 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 111. *Mechanical Equipment of Buildings*. A study of the mechanical plants and their relation to building. Prerequisite: None. Two credits; autumn; T. Th., 9:20.

AE 112. *Electrical Equipment of Buildings*. A study of electrical problems and illumination as encountered in buildings. Prerequisite: None. Two credits; winter; T. Th., 9:20.

AE 113. *Plumbing*. Rules and regulations, codes, requirements for buildings, and other problems connected with the plumbing and sanitary practices with reference to buildings. Prerequisite: None. Two credits; spring; T. Th., 9:20.

AE 121-122-123. *Architectural Drawing*. Architectural detail and its relation to the building. Working drawings. Prerequisite: ME 1, 2, 3. Three credits; autumn, winter, spring; S, 1:00-5:00; W, 2:00-5:00.

AE 131-132-133. *Structural Design*. Prerequisites: ME 51, 52, 113.

AE 131. Wood; elementary structural analysis; the design and computations required for designing wood trusses, floor systems, beams, girders, and columns. Three credits; autumn; M. W. Th., 8:25.

AE 132. Steel; design of simple steel structures; beams, columns, base plates, connections, bearing plates, purlins, girts, lintels, portals, roof trusses, bents, anchor bolts, rivets, tension and compression members. Steel design for a small building. Four credits; winter; M.-Th., 8:25.

AE 133. Reinforced concrete; forms, mixtures, posts, beams, slabs, T-beams, surfaces, formulae, and working stresses. Four credits; spring; M. T. W. Th., 8:25.

AE 171-172-173. *Architectural Design*. Laboratory course in the design of buildings, sketching and rendering, giving particular attention to the planning of churches, schools, and other buildings required by our evangelistic, educational, and mission workers. Complete original designs are required, of quality sufficient to permit use in erection of building without major changes. Prerequisites: ME 1, 2, 3, AE 121, 122, 123, 191, 192, 193. Four credits: autumn, winter, spring; M. T. W. Th., 2:00-5:00.

*AE 181-182-183. History of Architecture. A study of the historical style, influences, building materials, and methods of construction used in Egyptian, Babylonian, Greek, Roman, Early Christian, Byzantine, Romanesque, Gothic, Renaissance, and Modern architecture. Prerequisite: None. Three credits; autumn, winter, spring; M. W. Th., 11:10.

AE 191-192-193. *Architectural Design Theory*. Study of the factors involved in design and composition. Modeling, sketching, use of color and form. Prerequisites: None. Four credits; autumn, winter, spring; M.-Th., 11:10.

*Not offered 1949-1950.

PART XI

Industrial Arts

INDUSTRIAL ARTS

Courses in Industrial Arts are offered leading to the Bachelor of Science degree. The student has the option of selecting either an outline of courses which is intended to be of particular design for those interested in teaching Industrial Arts, or courses planned for those who desire to use the Arts in a commercial way.

A major consists of 45 credits, 21 of which must be of upper division courses. Required courses listed for graduation on page 38 and also the following: Mathematics 1, 2; and Physics 51, 52, 53.

Requirements for teaching option:

- (a) M.E. 1-2-3; I.A. 35-36-37.
- (b) Choose two of the following:
 - I.A. 71, 72, 73.
 - I.A. 4-5-6.
 - I.A. 29-30-31.

(A minor in *Education* must be included)

Requirements for the trade option:

- (a) M.E. 1-2-3; I.A. 29-30-31; I.A. 35-36-37.
- (b) Choose two of the following:
 - I.A. 71, 72, 73; I.A. 4-5-6; I.A. 1,2,3.
- (A Business minor is recommended)

Requirements for a *minor* in Industrial Arts:

- (a) M.E. 1-2-3; I.A. 35-36-37.
- (b) A minimum of 27 hours is required including 3 hours of upper division courses.

M.E. 1-2-3; A.E. 121-122-123, and H.E. 121 will count on an Industrial Arts *major*.

Any nine hour course in this department fulfills the basic vocational requirements for graduation.

AUTO MECHANICS

Mr. Cowin

1, 2, 3. *Automotive Mechanics I.* A comprehensive and basic course on the subject of automotive mechanics. The various components of the automobile are studied in nontechnical fashion with information on the physical principles involved. The power plant, including the engine and the fuel, cooling, lubrication and electric systems, and power train, chassis units, and body, will be studied while devoting some time to shop practice and the use of tools. Each topic is considered in about the following

order: theory of operation, construction, possible troubles that might occur, service procedures and correction of troubles, including some disassembly and reassembly in the laboratory. Three credits. Two hours lecture and recitation and one hour laboratory. M. W. 1:00-2:00, one lab. 2:00-5:00.

*101, 102, 103. *Automotive Mechanics II*. A study of service operations which will include assigned work in the shop or garage. It is intended to aid students who are interested in using this skill in a commercial way. Service salesmanship, job cost and shop upkeep will be included. Pre-requisite—Automotive Mechanics I. Three credits: one hour lecture, two hours lab. T. Th., 1:00-2:00. Lab. arranged.

GENERAL AGRICULTURE

Mr. Losey

16-17-18. *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.

23. *Industrial Arts Agriculture*. This course takes up a general survey of agriculture adaptable to the elementary student. Soils cultivation, gardening, animal husbandry, poultry, and flowers are studied. Class and laboratory. Two hours credit; spring. Time to be arranged.

BAKING

10, 11, 12. *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.

66, 67, 68. *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

Mr. Walcker

29-30-31. *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 coldest part of the winter, the class makes intensive study of house plans; wide reading is required. Typical plans are critically examined to discover what features are desirable and what might be improved. Three credits; autumn, winter, spring; T. Th., Laboratory, W., 2:00-5:00.

*Not offered 1949-1950.

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 Underwriters rules and regulations. Elements of illumination principles and practice. One hour lecture and three hours laboratory. Two credits; autumn; W., 2:00-5:00; Th., 7:30.

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. Emphasis on national building code. One hour lecture and three hours laboratory. Two credits; winter; W., 2:00-5:00; Th., 7:30.

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; W., 2:00-5:00; Th. 7:30.

123-124. *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: I. A. 29-30-31 and H. E. 122. Two credits; winter, spring; Th., 9:20 and Laboratory, Th., 2:00-5:00.

182. *Agreements, Estimating*. This course is designed to acquaint the student with the legal aspects of the building trades. Contracts, specifications and agreements will be carefully considered. Emphasis on estimate making. Estimating will be based on cost analysis figures accumulated from many previous jobs. Two credits; winter; T. Th., 8:25.

183. *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. Prerequisite: I. A. 29-30-31. (One hour outside reading required). Two credits; spring; Sunday, 7:00-12:00.

METAL TRADES

4-5-6. *Welding and Forging*. Bending, shaping, upsetting, and welding of iron; hardening and tempering steel; brazing; elementary acetylene and electric welding; care of equipment. Two credits; one hour attendance and three hours laboratory; autumn, winter, spring; M., 1:00-5:00.

*104, 105, 106. *Advanced Welding*. A course designed to give the students who wish to follow this work a wider knowledge of arc welding, oxyacetylene welding, cutting, and brazing, as well as projects in forge work. Structural steel designs, jigs for mass production, as well as costs of welding structures will be studied. Prerequisite: Welding and Forging 4-5-6. Two credits; one hour lecture and three hours laboratory; autumn, T., 1:00-5:00.

71, 72, 73. *Machine Shop Practice*. A course in practical machine shop practice which will include textbook work, bench work, and assigned projects in metal working on the lathe, shaper, and milling machine. Two

*Not offered 1949-1950.

or three credits; autumn, winter, spring; Sec. A, M. W., 1:00-5:00; Sec. B, T. Th., 1:00-5:00.

*171, 172, 173. *Advanced Machine Shop Practice*. This course consists of advanced work in the following machine operations; milling, shaping, grinding, bearing scraping, surface gauge scraping and machine maintenance. Three credits; autumn, winter, spring; two hours attendance and six hours laboratory; time arranged.

23-24-25. *Printing I*. General principles; measurements, straight and display composition. The imposition and locking of forms, and platen press work. Two credits; autumn, winter, spring.

91-92-93. *Printing II*. Further study of job composition, drafting, platen and cylinder press work. Imposition of forms is given. Five hours of actual shop practice and one hour of textbook study is required. The student is expected to develop speed, accuracy, and independent thinking in shop practice to the point of acceptable commercial efficiency. He may specialize in composition or in press work. Two credits; autumn, winter, spring.

*107-108-109. *Printing III*. Linotype composition. Keyboard practice, machine construction; care of matrix; care of metal; study of fundamental principles of operation. Two credits; autumn, winter, spring.

WOODCRAFT

Mr. Walcker, Mr. Lee

35-36-37. *College Woodworking*. Designed for students who have had no previous college woodshop experience. A study of hand tools, their purposes, use and maintenance; woods, their characteristics, properties, and use; principles of construction of furniture; finishing materials and methods. At the discretion of the instructor use of power tools may be granted. At least one project of the student's choice, in addition to the assigned project, is to be completed each quarter. Projects are limited to fifteen cubic feet. Material ticket, shop apron and text are required. Three credits. Autumn, winter, spring. Time: Tues. 1:00; Laboratory: T. Th., 2:00-5:00.

41, 42, 43. *Wood Turning I*. Spindle, face plate, chuck turning, and metal spinning. Exercises, assigned projects, and original designs. Wood finishing. Material ticket required. Two credits; autumn, winter, spring; T. Th., 2:00-5:00, or M. W., 2:00-5:00.

116. *Furniture Construction*. A study of power machines, jigs, attachments, and their application to furniture making. Laboratory I. A. 116A optional. Prerequisite I. A. 35-36-37. Two credits. Autumn, T. Th., 8:25.

117. *Furniture Finishing*. Study of wood finishing materials, their composition and applications, selection and care of equipment and materials as applied to furniture finishing. Laboratory I. A. 117 A, optional. Two credits, winter; T. Th., 8:25.

118. *Furniture Design*. Study of types of furniture, principles of design and their application in cabinet drawing and furniture construction. Laboratory I. A. 118A optional. Prerequisite M.E. 1-2-3; two credits, spring; T. Th., 8:25.

*Not offered 1949-1950.

116A, 117A, 118A. Furniture Construction laboratory to accompany I.A. 116, 117, 118, 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 I. A. 116. Two credits, autumn, winter, spring; M. W., 2:00-5:00.

128, 129, 130. *Wood Turning II*. Emphasis on more intricate cuts and turning processes, special chucking devices and fancy turning. Material ticket required. Prerequisite: I.A. 41, 42, 43. Two credits: autumn, winter, spring; T. Th., 2:00-5:00.

*135-136-137. *Machine and Tool Maintenance*. A practical course in the proper methods of care and maintenance of woodworking tools, machines and supplementary equipment. Prerequisite I.A. 116-117-118. One credit; autumn, winter, spring. Time: Autumn, M. or T. 2:00-5:00. Winter and spring, Tues. 2:00-5:00 only.

141, 142, 143. *Special Problems in Industrial Arts*. This course is provided for Industrial Arts Majors who because of their previous trade or teaching experience have been granted a waiver of lower division requirements and need additional upper division credit for graduation. To be elected only after consultation with the head of the department. 141A, 142A, 143A. Same as Special Problems in Industrial Arts. Credit and time to be arranged.

196. *History of Industrial Arts*. A study of the origin and growth of industrial arts in education. Special emphasis on the aims and objectives of the shop program. Senior standing. Three credits; autumn; M. W. F., 8:25.

197. *Methods of Teaching Industrial Arts*. Methods and Techniques in selection, presentation and testing in Industrial Arts subjects. Senior standing. Three credits. Winter, M. W. F., 8:25.

198. *Shop Administration*. A study of school shop planning, supplies, personnel organization, shop management. Senior standing; three credits. Spring, M. W. F., 8:25.

Outline of Courses

The following is a suggested schedule of courses which are particularly designed for students interested in teaching Industrial Arts. It includes a minor in Education.

FIRST YEAR					
Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Bible	2	Bible	2	Bible	2
English	3	English	3	English	3
Physical Education	½	Physical Education	½	Physical Education	½
Mathematics	4	Mathematics	4	Surveying	4
Carpentry I	3	Carpentry I	3	Carpentry I	3
Engineering Drawing	3	Engineering Drawing	3	Engineering Drawing	3
Elective	½	Elective	½	Elective	½
	—		—		—
	16		16		16

*Not offered 1949-1950.

SECOND YEAR

Bible	2	Bible	2	Bible	2
History	3	History	3	History	3
Prin. of Ed.	3	Gen. Psychology	3	Ed. Psychology	3
Physical Education	½	Physical Education	½	Physical Education	½
Physics	4	Physics	4	Physics	4
Elective	1½	Elective	1½	Elective	1½
College Woodworking	3	College Woodworking	3	College Woodworking	3
—	—	—	—	—	—
17	17	17	17	17	17

THIRD YEAR

Health Prin.	3	Bible	3	Bible	3
Hist. of Ind. Art	3	Special Methods	3	Shop Arm.	3
Welding & Forg.	2	Welding & Forg.	2	Welding & Forg.	2
Teach. of Sec. Sub.	2	Sec. School Adm.	3	Wood Turning	2
Elective	6	Elective	5	Elective	6
—	—	—	—	—	—
16	16	16	16	16	16

FOURTH YEAR

Bible	2	Bible	2	Bible	2
Adol Life & Guid	3	Tests & Measure.	3	Photography	2
Student Teaching	2	Student Teaching	2	Student Teaching	2
Furn. Const.	3	Furn. Finishing	3	Furniture Design	3
Machine & Tool	1	Machine & Tool	1	Machine & Tool	1
Elective	5	Elective	5	Elective	6
—	—	—	—	—	—
16	16	16	16	16	16

Students who are interested in using the Arts in a commercial way will pursue the suggested courses outlined for the first and second year in the previous schedule and follow the courses suggested below for their third and fourth year. It includes a minor in business. Physics should be taken in the sophomore year in place of machine shop.

THIRD YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Health Prin.	3	Bible	3	Bible	3
Economics	3	Economics	3	Economics	3
Accounting	3	Accounting	3	Accounting	3
Sheet Metal	2	Agreements Estmat.	2	Masonry	2
Interior Dec.	3	Carpentry II	2	Carpentry II	2
Machine Shop	3	Machine Shop	3	Machine Shop	3
—	—	—	—	—	—
17	17	16	16	16	16

FOURTH YEAR

Bible	2	Bible	2	Bible	2
Cab. Making II	2	Cab. Making II	2	Cab. Making II	2
Cost Acct.	3	Cost Acct.	3	Budgets	3
Arch. Drawing	4	Arch. Drawing	4	Arch. Drawing	4
Arch. Des. Theory	4	Arch. Des. Theory	4	Arch. Des. Theory	4
Elective	2	Elective	2	Elective	2
—	—	—	—	—	—
17	17	17	17	17	17

PART XII

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:

Home Students	\$90.00
Village Students	45.00

This deposit takes the place of the advance charge for tuition and home expenses. (See Admission to College, page 26). The student will then pay his actual school charges at the close of each six weeks, holding the deposit in reserve until the last period of the school year or until he leaves school. A clearance card is issued at the business office when the deposit is made, and students are expected to present same to the deans, registrar, and at the dining hall, to show that financial arrangements have been made to enter school.

Expenses

Tuition and school expense are divided into six periods of six weeks each. Statements are rendered at the close of each six weeks and are due and payable two weeks after the close of each school period.

In case settlement has not been made within two weeks the student may be asked to discontinue his school work. Fees (entrance, laboratory, library, etc.) are payable at the end of the first, third, and fifth periods and are charged by the quarter. Students who register late are required to pay tuition for the quarter in the subjects in which they receive credit.

By action of the Board of Walla Walla College, all students are required to pay accounts in full before degrees, or transcripts are granted. A student whose account is overdue may not be permitted to take the final examination at the close of a quarter.

Refunds

A refund for dormitory charges is made for absences of more than two weeks caused by serious illness.

How to Remit

In most cases it will be better for the parents to send money direct to the College. In doing so, draw all drafts, checks, orders, etc., in favor of "Walla Walla College." Students need but little spending money, and parents are urged to require a monthly statement of expenses from their children. Mail for the College pertaining to money matters should be addressed "Business Manager." Mail pertaining to the department of instruction should be addressed "Dean."

HOME EXPENSES

With two students occupying one room, the home expenses for each student for a six weeks' period are as follows:

Sittner Hall	\$24.50 per period
Conard Hall	24.50 per period
Union Hall	22.50 per period
West Hall (running water)	22.50 per period
West Hall	20.50 per period
South Hall	20.50 per period
North Hall	20.50 per period

The above charges include plain laundering not to exceed .60 weekly, and room furnished with steam heat and electric lights up to 200 watts. This does not include student board.

Students are required to sew name tapes to all articles of clothing sent to the College Laundry. Name tapes can be secured at department stores or mail order houses.

Student Health Center

The Health Center is equipped with twelve beds and clinical facilities. The health fee, paid by each student, makes available to dormitory and village students the clinical and hospital facilities of the Health Center, together with a limited supply of medicines. Bed occupancy in excess of seven days per illness is charged the student at a reasonable rate. The services of a physician rendered outside of the Health Center are not included in the health fee. For serious illness

and surgery the Walla Walla General Hospital provides a complete health service at a discount to students.

Room Reservation

The \$15.00 deposit which is required of all students to complete their acceptance also serves as a room reservation for students planning to reside in one of the school homes.

Board

The cafeteria plan of boarding is followed in the College home.

Board, Minimum for Six Weeks

Men	\$25.00
Women	22.00

(Students not living in the school homes are charged 25 per cent more with no minimum).

TUITION CHARGES

(For a Period of Six Weeks)
QUARTER CREDITS OF CLASS WORK

Fifteen or sixteen credits	\$44.00	✓
Fourteen credits	41.30	✓
Thirteen credits	38.35	✓
Twelve credits	35.40	✓
Eleven credits	32.45	✓
Ten credits (Minimum for regular students)	29.50	✓
Less than ten credits, per credit	3.20	✓
Over sixteen credits, per credit	2.75	✓

Special Tuition

Physical education courses carry regular tuition plus a fee. Art with other subjects is charged double tuition; when taken alone, 50c for each two hours attendance per week.

Tutoring (by permission of Academic Standards Committee): for one student, triple tuition; for two to four students, double tuition; for more than four, regular tuition.

Fees

Six dollars for each quarter of attendance will be charged each student to cover matriculation, library, lyceum, and gymnasium. Four dollars for each quarter of attendance is charged to cover services rendered by the Health Center.

Since each student automatically becomes a member of the Associated Students of Walla Walla College, a fee of \$2.50 will

be charged to each student for each quarter of attendance. This covers cost of *Collegian*, *Mountain Ash*, and the Association.

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	1.00
Recording of Preparatory School credit, per unit	2.50
Transcript of grades	
First transcript	no charge
Each succeeding transcript	\$1.00
Degree	7.50
Degree in absentia	17.50

Laboratory Fees

	AMT. PER QUARTER	PER QUARTER CREDIT
Advanced Accounting	\$1.00	
Archery	2.00	
Architectural Drawing	3.00	
Architectural Design	4.00	
Art		\$1.50
Astronomy	1.00	
Audio-Visual Laboratory		7.50
Auto Mechanics	5.50	
Badminton	2.00	
Biology (Each course)	7.50	
Business Machines		3.00
Chemistry (Each course)	7.50	
Child Literature		1.00
China Painting	1.50	
Clothing50
College Woodworking		2.00
Cost Accounting	1.50	
Crafts	5.00	
DC-AC Laboratory	7.50	
Design	1.00	
Directed Teaching I & II		1.00
Electrical Machine Design	3.00	
Engineering, Drawing, and Descriptive Geom.	3.00	
Experimental Cookery	5.00	
Food Study	5.00	
Furniture Construction		2.00
History of Architecture	2.00	
Home Arts	1.50	
Industrial Arts		2.00
Interior Decorating	1.00	
Intermediate Accounting	1.00	
Machine Design	3.00	

Machine Shop	7.50	
Masonry Techniques		3.00
Materials Laboratory	7.50	
News Writing50	
Nursing Arts	9.00	
Nutrition		1.00
Observation and Problems Grades I-VIII		1.00
Photography	3.50	
Physics (Each course)	7.50	
Power Plant Design	3.00	
Prin. of Accounting	1.00	
Radio Speech	1.00	
School Arts		1.00
School Curriculum		1.00
Sheet Metal	5.50	
Skiing	4.00	
Social Studies Workshop	1.00	
Special Problems in Industrial Arts		2.00
Statistics	1.50	
Student Teaching25
Surveying	7.50	
Tailoring	2.00	
Techniques in Social Studies Workshop		1.00
Tests and Measurements	2.00	
Visual Education	7.50	
Weaving and Home Furnishings	1.00	
Welding and Forging	9.00	
Wood Finishing		2.00
Wood Turning I		2.00
Wood Turning II		2.00

Physical Education

AMT. PER QUARTER

Physical Education (per credit hour)	\$5.25
Pool (for village students not registered in Physical Education)	1.00
Pool (for normal training pupils) once a week only50

Typewriter Rentals

AMT. PER QUARTER

Three hours weekly	\$1.50
Six hours weekly	2.75
Nine hours weekly	3.75

Estimated Expenses for Home Students

The following estimate is based upon the supposition that a student is carrying full work, is doing \$16.00 worth of work each school period for which he is credited, and is not taking any special work such as music or art:

Tuition, Room, and Laundry	LOW	AVERAGE	LIBERAL
(Labor deducted)	\$280.00	\$290.00	\$300.00
Fees (Library, Industrial, and			
Laboratory	20.00	35.00	50.00
Board	180.00	220.00	270.00
Books and Stationery	25.00	35.00	45.00
Totals	\$505.00	\$580.00	\$665.00

MUSIC

Charges

Following are the rates of tuition for a period of six weeks. All charges are payable strictly at the end of each period.

Piano, Violin, Voice, 'Cello, or Organ, one lesson weekly	9.00
Student Teachers:	
Piano, one lesson weekly	6.00

Piano, Violin, and Vocal Production Classes

Classes in Piano and Vocal Production meet twice a week. The charges are three dollars a period. Class enrollment is limited to ten.

Rentals

Pipe Organ, one to seven hours per week, per hour	\$.35
Pipe Organ, eight to eleven hours per week, per hour30
Pipe Organ, sixteen hours, and over, per hour25
Reed Organ	
(two manual) one to seven hours per week, per hour10
(two manual) eight to fifteen hours per week, per hour07
(two manual) Sixteen hours and over, per week05
Piano, grand, one hour each day, per period	2.50
Piano, upright, one hour each day, per period	2.00
Piano rent for vocal students, per period	1.50

College Choir, Glee Club, Band, and Orchestra

All College Choir members will be charged \$1.00 per quarter to cover part of the expenses of music, robes, advertising, and programs.

All Glee Club, Band, and Orchestra members will be charged \$1.00 a quarter to cover part of the expenses for music, advertising, programs, etc.

Lessons

Lesson charges are made by the period. Refunds will be made only in case of prolonged illness. Lessons missed by the teacher will be made up during the quarter. Lessons missed

by the student cannot be made up unless the instructor is notified within a reasonable length of time before the lesson period.

Withdrawal

Students are expected to make arrangements for withdrawal, and must settle accounts at the business office before leaving. A statement from the instructor must be submitted by each student pursuing a laboratory course, certifying that he has returned or satisfactorily arranged for all apparatus used by him.

SCHOLARSHIP PLAN

Students who enter the colporteur work for the purpose of earning school expenses have available the following five plans. The amounts in the last line are the delivery values which the student must deposit with his Book and Bible House in order to receive credit at the College Business Office in 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	\$300.00	\$400.00	\$500.00	\$600.00	\$700.00
Scholarship Award, 30 per cent	90.00	120.00	150.00	180.00	210.00
Amount for Student to Earn	\$210.00	\$280.00	\$350.00	\$420.00	\$490.00
Amount for Student to Deliver	420.00	560.00	700.00	840.00	980.00

Students wishing to avail themselves of the 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 have not 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. One 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 36). 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 management and 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. Merchandise and textbooks will not be sold on account unless students have a cash deposit at the business office in addition to the regular school deposit.

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.

ALUMNI ASSOCIATION STUDENT LOAN FUND

The Alumni Association of Walla Walla College has available certain funds for assisting worthy students who have reached their senior year in the institution. All those who desire loans should make application with the registrar regarding such loans.

EVELYN McNAY-STEEN SCHOLARSHIP FUND

This is a fund primarily for assisting worthy young women beyond the freshman year. For information, apply to the registrar.

GRETTNER SCHOLARSHIP LOAN FUND

This is a fund for assisting worthy young men beyond the freshman year. For details apply to the registrar.

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 XIII

The Summer Session

The summer session is a regular quarter of the school term. It 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, and (4) teachers who desire to take additional courses of professional or general interest.

The summer session is divided into two terms. Students completing requirements for graduation during the summer will receive their degrees or diplomas 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—1947-1948

Students in College Department	1247
Special Students	8
TOTAL	1255
Summer School, 1948	342
GRAND TOTAL	1597

Graduates of 1948

BACHELOR OF THEOLOGY

James Benjamin Andres
Oscar Melvin Bankhead
Irmin Eugene Burke
Donald Marion Dealy
William Edward Dopp
Albert C. Hehn
Paul Whitney Johnson
J. Sigvard E. Jonasson
Dorothy May Kuester
Ellsworth Preston Smith
Eldon E. Stratton
Arlene Opal Wilson

BACHELOR OF ARTS

Vilas Jennings Adamson
Kathryn Marjory Andrews
Bernard Gregory Arellano
Robert V. Axford
Donna Marie Geier-Banta
Robert Ruth Beane
H. John Bergman
Ralph Weller Bolton
Gerald L. Casebolt
Neil Coeur-Barron
Joan Elizabeth Cayo
William V. Clements
Donald Marion Dealy
Donald George Deming
Margaret Ann Deming
Harold Arthur Drake
Orval L. Driskell
Frank Edwin Edgecombe
William Dale Engeberg
Edward L. Esteb
Gerald Ivan Ferguson
Ethel Clary-Ferguson
Lucile Elizabeth Fahl-Fiedler
Lawrence Carson Folkes
Lois Louise Fouts
Elsie Baxter-George
Fredrick C. Gordon
Lyle B. Griffin
Harold Wilton Halverson
Lyle Duane Hanson
Harold G. Hebard, Jr.
Melvin N. Hempel
Henry Hirsch

Vernon Alvin Jennings
Charlyne Fern Jensen
Donald Arthur Jutzy
John Kendrick
Evert Erwin Kuester
Elroy Wilbert Lang
Harold G. Lawson
H. Lloyd Leno
Richard L. Litke
Helen Litvin
Sunny W. C. Liu
Mary McCartney
Juanita Jeanne McCloughan
Elwood Le Noir Mabley
Virginia Alene Miller-Mabley
Gordon H. Maxwell
Verona Maurine Montanye
Phyllis June Morford
Kathleen Thompson-Nelson
Orpha Nadine Osborne
Virginia Louise Proctor
Clifford D. Reiber
William Saxon
Carmen Schlotthauer
Erling Iris Schmidt
Lenoa Peebles-Silver
Robert E. Silver
Louis Livingston Smith
Edwin A. Stebner
Roland B. Stoddard
Conrad Donald Stoehr
Henrique G. Stoehr
Eldon E. Stratton
Evelyn Stratton
Theodore R. Tryon
Melvin F. Whiting
Reta Muriel Williams
Reva Mildred Williams
Roger Norman Witzel
Mary Ella Johnson
A. John Zumwalt

BACHELOR OF ARTS IN ELEMENTARY EDUCATION

Maye Elisabeth Aerni
Patricia Jean Andrews
Elva McKinnis-Ashley
Cyrus P. Balser

Mary McIntyre-Deming
Eva States-Drury
Sybil Morrison-Kyle
Mary Charlotte McConnell
Hilda Johnson-Qualley
Margery Ewa Smith
Allan T. Wiegardt

BACHELOR OF MUSIC

Betty Ryerson-Pullen

BACHELOR OF SCIENCE

Paul M. Gruzensky
Mervin Burtlin York

**BACHELOR OF SCIENCE IN
BUSINESS ADMINISTRATION**

Richard G. Dutro
John W. Griffin
Alf Godthard Johnson
Clarence H. Lang
William Richard Lawson
John McCartney
Richard Gerritt Ubbink

**BACHELOR OF SCIENCE IN
MANUAL ARTS**

Karl Columbus Fischer
Cleve Bissitt Henriques
Cleo M. Rusch
Arthur J. Ziegele

**BACHELOR OF SCIENCE IN
NURSING EDUCATION**

Ruth Rose Ames
Delora Jean Abbey
Anna Allen-Dawes
Viola V. Eisenbach
Elnora Gundrum
Bonnie Marie Losey
Margaret E. Newell
Belle S. O'Neil
Helen Marie Prien
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