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BULLETIN

1947-1948

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WALLA WALLA COLLEGE
COLLEGE PLACE, WASHINGTON
SOCIAL MENTAL SPIRITUAL
HOLY BIBLE

"THE SCHOOL THAT EDUCATES FOR LIFE"

WALLA WALLA COLLEGE LIBRARY

WALLA WALLA COLLEGE BULLETIN

CATALOGUE ISSUE OF 1947-1948

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. LVI June, 1947 No. 1

Entered as Second-class mail matter, College Place, Wash.
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School Calendar 1947-1948

1947 SEPTEMBER 1947

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The College Calendar

1947-1948

SUMMER QUARTER

Registration ..... Wednesday, June 11
Close of summer quarter ..... Tuesday, Aug. 26

AUTUMN QUARTER

All freshmen arrive on campus..... Tuesday, Sept. 23
Freshman convocation, attendance required, 8 a.m..... Wednesday, Sept. 24
Freshman tests, 9:00 a.m., 2:00 p. m..... Wednesday, Sept. 24
Freshman convocation, attendance required, 8:00 p.m..... Wednesday, Sept. 24
Registration of freshmen, 9:00 a.m., 2:00 p.m..... Thursday, Sept. 25
General registration, 9:00 a.m., 2:00 p.m..... Friday, Sept. 26
First vesper service, 7:30 p.m..... Friday, Sept. 26
General registration, 9:00 a.m., 2:00 p.m..... Sunday, Sept. 28
Faculty-Student reception, 8:00 p.m..... Sunday, Sept. 28
Classes Begin (all students), 7:30 a.m..... Monday, Sept. 29
Annual field day ..... Tuesday, Oct. 7
Thanksgiving recess ..... Thursday, Friday, Nov. 20, 21
Registration for winter quarter..... Dec. 1 to Dec. 15
Instruction ends, 12:00 noon..... Tuesday, Dec. 23

WINTER QUARTER

Registration of new students, 2:00 p.m..... Sunday, Jan. 4
Instruction begins, 7:30 a.m..... Monday, Jan. 5
Registration for spring quarter..... Feb. 23 to March 12
Instruction ends, 12:00 noon..... Thursday, March 18

SPRING QUARTER

Registration of new students, 2:00 p.m..... Sunday, March 21
Instruction begins, 7:30 a.m..... Monday, March 22
Instruction ends, 12:00 noon..... Friday, June 4
Senior consecration service, 8:00 p.m..... Friday, June 4
Baccalaureate sermon, 11:00 a.m..... Saturday, June 5
Commencement, 10:00 a.m..... Sunday, June 6

PART I

Administration and Instruction

Board of Trustees

V. G. ANDERSON, *President* ..... Portland, Oregon
G. W. BOWERS, *Secretary* ..... College Place, Washington
H. C. HARTMAN, *Treasurer* ..... College Place, Washington
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G. W. CHAMBERS ..... Portland, Oregon
J. T. PORTER ..... Portland, Oregon
E. S. HUMANN ..... Portland, Oregon

Faculty

ADMINISTRATION

GEORGE WINFIELD BOWERS, Ph. D.
President

HENRY L. SONNENBERG, Ph. D.
Dean, Director Summer Session

H. C. HARTMAN, M. A.
Business Manager

VERNON E. HENDERSHOT, Ph. D.
Dean, School of Theology

FRED HANSON, R. N., M. A.
Dean, School of Nursing

IRENE SMITH-BLACK, B. A.
Registrar

LEON B. LOSEY, M. S.
Dean of Men

ANNE BLACKNEY, B. S., (L.S.), M. A.
Librarian

VIVIAN SLATER, R. N., B. S.
Director of Health Service

DAN W. PALMER, M. A.
Principal, Walla Walla College Academy

MARGUERITE APLINGTON, B. A.
Accountant

TEACHING STAFF

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

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

C. W. DORTCH
Professor of Music
M. A., Texas State Teachers College

VERNON E. HENDERSHOT
Professor of Religion
Ph. D., Southern California

GEORGE GUSTAV KRETSCHMAR
Professor of Physics
Ph. D., Chicago

THOMAS A. LITTLE
Professor of English
M. A., North Carolina

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

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

WALTER IRVINE SMITH
Professor of Secondary Education
Ed. D., George Washington

AGNES L. SORENSON
Professor of Modern Languages
M. A., Michigan

CLAUDE E. THURSTON
Professor of Chemistry
M. S., Washington

H. E. WESTERMEYER
Professor of History
Ph. D., Stanford

KENNETH APLINGTON
Associate Professor of English
M. A., Washington

FREDERICK R. HANSON
Associate Professor of Nursing Education
R. N., Mason Memorial Hospital;
M. A., Washington

FRANK E. MECKLING
Associate Professor of History
M. A., Maryland

C. W. SHANKEL
Associate Professor of Chemistry
M. A., Nebraska

HENRY L. SONNENBERG
Associate Professor of Modern Languages
Ph. D., Nebraska

STANLEY WALKER
Associate Professor of Piano and Pipe Organ
M. Mus., Northwestern

ORASON LEE BRINKER
Assistant Professor of Mathematics
M. A., Denver

*ROBERT H. BROWN
Assistant Professor of Physics
M. S., Nebraska

CARL D. CHRISTENSEN
Assistant Professor of Religion
M. A., Nebraska

EDWARD CROSS
Assistant Professor of Engineering
M. E., Stevens Institute of Technology
M. A., Columbia

MARIE HANSEN
Assistant Professor of English
M. A., Washington

ETHEL HENDERSHOT
Assistant Professor of English
B. A., Pacific Union College

LUELLA LATHAM-KRETSCHMAR
Assistant Professor of Chemistry
M. S., Washington

LEON B. LOSEY
Assistant Professor of Agriculture
M. S., Oregon State College

---

*Leave of absence.

LILAH GODFREY-SCHLOTTHAUER
Assistant Professor of Mathematics
M. S., Washington

*WILBERT SCHNEIDER
Assistant Professor of Business Administration
M. B. A., Oklahoma

BERNICE E. SEARLE
Assistant Professor of Elementary Education
M. A., Minnesota

*RAYMOND A. UNDERHILL
Assistant Professor of Biology
M. A., Texas A. & M.

H. J. ALCOCK
Instructor in Religion
M. A., Michigan

R. D. DRAYSON
Instructor in Ancient Languages and Religion
M. A., Seventh-day Adventist Theological Seminary

BEATRICE I. EMERY
Instructor in Biology
M. S., Nebraska

VERNON W. EMMERSON
Instructor in Speech
B. Th., Walla Walla College

MYRON K. HUBBARD
Instructor in Chemistry
M. D., College of Medical Evangelists

THELMA JOHNSON
Instructor in Piano
B. A., Walla Walla College

JULIAN LOBSIEN
Instructor in Violin

J. G. MEHLING
Instructor in Business Administration
B. B. A., Walla Walla College

LULU HILL-MILLER
Instructor in Art

*Leave of absence.

JANET MILLER
Instructor in Piano
B. A., Walla Walla College

MARY E. OLIVER
Assistant Librarian
B. A., Walla Walla College

DAN W. PALMER
Instructor in Secondary Education
M. A., Washington

J. BYRON PATRICK
Instructor in Secondary Education
B. A., Union College

LILLIAN LARSEN-PATRICK
Instructor in Secondary Education
M. A., Wisconsin

STANLEY R. PETERSON
Instructor in Religion
B. A., Walla Walla College

ESTHER SONNENBERG
Instructor in Secondary Education
M. A., Nebraska

HORACE E. WEAVER
Instructor in Secondary Education
M. A., Seventh-day Adventist Theological Seminary

EUGENE WINTER
Instructor in Physical Education
B. A., Walla Walla College

ALBERTA DALE
Graduate Assistant in Business Administration
B. A., Walla Walla College

VIOLA ELVIN-EMMERSON
Graduate Assistant in Elementary Education
B. A., Walla Walla College

ILENE MAXSON-JOHNSTONE
Graduate Assistant in Mathematics
B. A., Walla Walla College

BERTHA LEISKE-HEMPEL
Assistant Registrar
B. A., Washington Missionary College

ROBERT MEHLING
Graduate Assistant in Chemistry
B. S., Walla Walla College

GAYLE NELSON
Graduate Assistant in Biology
B. A., Walla Walla College

EUGENE QUADE
Graduate Assistant in Physics
B. A., Walla Walla College

VERNON L. VON POHLE
Graduate Assistant in Engineering
B. A., Pacific Union College

ROLAND WALTERS
Graduate Assistant in Biology
B. A., Walla Walla College

EVELYN WRIGHT
Graduate Assistant in Home Economics
B. A., Pacific Union College

THE CAMPUS SCHOOL

PAUL FEATHERSTON
Supervisor, Grade Eight

LYLA HIXSON
Supervisor, Grade Seven
B. A. in Elementary Education, Walla Walla College

HELEN HUDSON
Supervisor, Grade Five
B. A. in Elementary Education, Walla Walla College

JEANNE MORRISON
Supervisor, Grade Four
B. A. in Elementary Education, Walla Walla College

ELEANOR RUE
Supervisor, Grade Three
B. A., Washington Missionary College

LOIS TEAL
Supervisor, Grade One
B. A. in Elementary Education, Emmanuel Missionary College

Faculty Committees

RELIGIOUS INTERESTS

G. W. Bowers, L. B. Losey, I. M. Burke, V. E. Hendershot, Stanley Peterson, C. D. Christensen, Ronald Drayson.

ACADEMIC STANDARDS

G. W. Bowers, H. L. Sonnenberg, T. A. Little, V. E. Hendershot, Irene Black, H. E. Westermeyer, Ernest S. Booth.

GOVERNMENT

G. W. Bowers, H. L. Sonnenberg, H. C. Hartman, L. B. Losey, Kenneth Aplington.

ADMISSIONS

H. L. Sonnenberg, Irene Black, L. B. Losey, Marguerite Aplington.

PERSONNEL

H. L. Sonnenberg, Kenneth Aplington, Daisy Schluntz, W. I. Smith, R. D. Drayson.

PROGRAM

V. W. Emmerson, Marguerite Aplington, L. B. Losey, Stanley Walker, C. W. Shankel, Dan W. Palmer.

LIBRARY

Anne Blackney, Stanley Peterson, Agnes Sorenson, Frank E. Meckling, Lilah Godfrey-Schlotthauer.

PUBLICATIONS

T. A. Little, Kenneth Aplington, Dan W. Palmer, R. L. Collins.

VISUAL AID

E. S. Booth, Bernice Searle, Orason L. Brinker.

FACULTY ADVISERS

Associated Students, Graduate Manager, Stanley Peterson; *The Collegian*, T. A. Little; *The Mountain Ash*, Kenneth Aplington; Nominating Committee, H. L. Sonnenberg; Religious Activities-Cultural Committee, Ronald Drayson; Social Activities Committee, Daisy Schluntz; Sabbath School, H. J. Alcock; Missionary Volunteers, W. I. Smith, Chiquita Sola, Agnes Sorenson; Aurora Duxes, Eugene Winter.

INDUSTRIAL SUPERINTENDENTS

H. C. Hartman ..... *Superintendent, Industrial Departments*
G. L. Beane ..... *Store*
E. O. Becker ..... *Farm*
Gertrude Carpenter ..... *Building Maintenance*
Ray L. Collins ..... *College Press*
C. C. Bergman ..... *Garage*
Willis E. Cushman ..... *Bindery*
William Merkel ..... *Heat and Light*
Jake Walcker ..... *Construction*
Kathleen Keen-Zolber ..... *Director of Food Service*

PART II

The College and Its Aims

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

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

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

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

1. To present the ideals and principles of Christianity in such a way as to promote the development of a consistent Christian life characterized by loyalty to God and service to humanity.

2. To train for leadership in church and community in harmony with the distinctive ideals and world program of the Seventh-day Adventist denomination.

3. To develop character distinguished by power of will and ability of self-control, bringing every motive and desire into conformity to the eternal principles of right established by God and respected by the most enlightened elements of humanity.

4. To provide a broad basis for true culture which will permit proper discrimination as to the values of life, encourage devotion to noble ideals and practices, and lead to a worthy use of leisure.

5. To guide in the appropriation of the accumulated knowledge of the ages, in the stimulation of the power of independent reasoning, and in the acquisition of the ability to inspire others to a greater passion for wisdom and truth.

6. To inspire intelligent and sincere love for our country and its fundamental principles, while at the same time emphasizing the brotherhood of man, thus providing a preparation for judicious participation in the privileges and responsibilities of citizenship.

7. To encourage proper evaluation of the place of the individual in modern society, of his relationship to the social and economic order, and of his attitude toward an ever-changing civilization.

8. To facilitate the acquisition and maintenance of a high standard of bodily health, thus giving the individual genuine satisfaction in life and enabling the mind and spirit to make valuable contributions to our contemporary world.

9. To stimulate participation in practical vocational activities which will lead to an appreciation of the dignity of labor, furnish a definite conception of the abilities and traits requisite for success in the various vocations, and impart a proficiency adequate to provide employment in a productive and self-respecting occupation.

Historical and Descriptive Sketch

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

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

About two and one-half miles to the northeast is Walla Walla, Washington, a city of about 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, a dormitory for men, will be ready for occupancy for the Autumn quarter. This building will provide rooms for 306 and will be modern in every respect. Besides student rooms there will be 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 is being provided for the Biology Department. Ready for occupancy for the Autumn quarter, it will offer ample space for offices, classrooms, laboratories, the Biology Museum, and stock rooms.

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.



Administration Building

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 being established on the campus. Clinical and hospital facilities, consultation rooms, treatment rooms, and other necessary facilities will be 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.

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.

RELIGIOUS ACTIVITIES

Walla Walla College sponsors several organizations and activities which aid in training the students for Christian service.

Church and Sabbath School

The College Place Church with a membership of over 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 year book 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, and the Biology Club.

PART III

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 33). 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 their accounts in full before diplomas, 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 and Discounts

A refund on tuition is made only when the student withdraws for reasons approved by the faculty. A refund for dormitory charges is made for absences of more than two

weeks caused by serious illness. When three members of the same family are students in the college at the same time, a ten per cent rebate is made on tuition paid in advance for the period.

How to Remit

In most cases it will be better for the parents to send money direct to the College, and not to their children. 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 "President."

HOME EXPENSES

With two students occupying one room, the home expenses for each student for a six weeks' period are $20.50 which includes plain laundering not to exceed $1.10 weekly, and room furnished with steam heat and electric light up to 125 watts. This does not include the student's board. An extra charge of 75c a period is made to each student occupying a corner room with two windows or a room with private water closet. A reduction of $1.50 is made to those occupying rooms on fourth floor of South Hall. 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. Each dormitory student is required to work six hours a week, the amount earned to be applied on school expenses. Students working in various departments from year to year become acquainted with several practical lines of industry, which is helpful in filling places of usefulness after completing college. Students failing to meet their work requirements may be required to stay away from classes until such work is performed. 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.

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 school year 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 $25.00 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	$42.00
Fourteen credits	39.20
Thirteen credits	36.40
Twelve credits	33.60
Eleven credits	30.80
Ten credits (Minimum for regular students)	28.00
Less than ten credits, per credit	3.00
Over sixteen credits, per credit	2.50

Special Tuition

Physical education is charged double tuition. 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 will be charged each student 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 $2.00 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
Diploma	5.00
Degree	7.50

Laboratory Fees

	AMT. PER QUARTER	PER QUARTER CREDIT
Art		$1.50
Astronomy	$1.00	
Biology (Each course)	7.50	
Bacteriology	5.00	
Business Machines	3.00	
Chemistry (Each course)	7.50	
Child Literature	1.00	
China Painting	1.50	
Clothing		.50
Design	1.00	
Directing I	3.00	
Directed Teaching	1.00	
Engineering (Each course)	5.00	
Experimental Cookery	5.00	
Food Study	5.00	
Industrial Arts		1.00
Interior Decorating	1.00	
Machine Shop	7.50	
News Writing	.50	
Nursing Arts	9.00	
Nutrition		1.00
Photography	3.50	

Physics (Each course)	7.50	
Physiology	5.00	
Radio Speech	1.00	
School Arts	1.00	
Social Studies Workshop	1.00	
Student Teaching		.25
Surveying	1.00	
Tailoring	2.00	
Technical Drawing		1.00
Tests and Measurements	2.00	
Woodwork (Each course)		1.00

Gymnasium

	AMT. PER QUARTER
Pool (for village students not registered in Physical Education)	$1.00
Pool (for normal training pupils) once a week only	.50

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:

	LOW	AVERAGE	LIBERAL
Tuition, Room, and Laundry (Labor deducted)	$210.00	$255.00	$275.00
Fees (Library, Industrial, and Laboratory	20.00	30.00	40.00
Board	155.00	190.00	230.00
Books and Stationery	15.00	25.00	30.00
Totals	$400.00	$500.00	$575.00

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, two lessons weekly	$15.00
Piano, Violin, Voice, 'Cello, or Organ, one lesson weekly	9.00
Student Teachers:	
Piano, two lessons weekly	10.50
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

Piano, grand, one hour each day, per period	$2.50
Piano, upright, one hour each day, per period	2.00
Piano, upright, two hours each day, per period	3.00
Organ, two manual, one hour each day, per period	2.50
Pipe Organ, one hour each day, per period	7.20
Pipe Organ, for less than five hours, per hour	.25
Piano rent for vocal students, per period	1.50

Longer periods of practice at reduced rates.

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 four 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
Scholarship Award, 30 per cent	90.00	120.00	150.00	180.00
Amount for Student to Earn	$210.00	$280.00	$350.00	$420.00
Amount for Student to Deliver	420.00	560.00	700.00	840.00

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 37). 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. If the College in any instance redeems such tuition in cash, it shall be at a discount of not less than 25 per cent on the part of the holder on the total amount earned.

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

A fund primarily for assisting worthy young women beyond the freshman year. For information, 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, College Place, Washington.

PART IV

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.

WALLA WALLA COLLEGE LIBRARY

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, homelike 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 their 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, or lamps 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 V

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.

Twenty-five dollars ($25.00) of the advance deposit described on page 20 must be paid by July 1 to make application for acceptance complete. This $25.00 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.

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

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 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 registrar.

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. Application must be made to the registrar, who will ascertain the standing of the student, and if passing, a grade of withdrawal will be given. Otherwise a grade of failure will be recorded. In either case the course must be repeated to receive credit. Permission for withdrawal must be obtained from the instructor.

No withdrawal from a course will be accepted during the last two weeks of the quarter. Courses dropped without permission will be marked F on the registrar's books.

Notification to an instructor is not a sufficient notice.

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.

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.

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 deducts one honor point for each credit.

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 two 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 by the instructor because of illness or other justifiable reason. 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 arrangements are made beforehand with the teacher, and 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.

A student failing to earn honor points in a course may not

present credits from another school in the course or in a course in direct sequence to apply toward graduation.

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.

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 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.

Lower division students may not earn extra credit in a course by doing additional assigned work unless recommended by the registrar.

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.

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.

Examinations for advanced credit must be taken before the end of the second 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 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 is allowed by the committee upon evaluation of his transcript. 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

Regular freshman and sophomore courses in physical education are arranged for men and women. Medical Cadet Corps is required of the men, and recommended for the women.

These courses are required of all freshmen and sophomore students under twenty-five years of age. Exemptions from these requirements may be granted on written applications approved by the president on recommendation of the physical education instructor. For reasons of a physical nature, exemptions may be granted on the recommendation of the college physician.

PART VI

Senior College Courses

GRADUATION

Degrees and Diplomas

Courses are offered leading to the degrees, Bachelor of Arts, Bachelor of Arts in Elementary Education, Bachelor of Science, Bachelor of Science in Manual Arts, Bachelor of Science in Nursing Education, Bachelor of Science in Engineering, Bachelor of Theology, Bachelor of Science in Nursing and Bachelor of Music. Those who complete the preparatory medical course and two years at the College of Medical Evangelists will receive the degree of Bachelor 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 professional or college senior, shall, before registering for the third quarter of his senior year, file a formal application with the registrar for his diploma or degree, accompanied by the required fee.

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. All responsibility for fulfilling the requirements for graduation shall be thrown upon the student concerned.

Major Study

Not later than the beginning 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. Majors may be obtained in the following: Biology, Business Administration, Chemistry, English Literature, History, Home Economics, Mathematics, Ancient Languages, German, Spanish, Physics, Secretarial Science, Music, Engineering, and Manual Arts. Those desiring to specialize in Bible should consult the School of Theology for courses.

A student desiring to select a major in his senior year, must have not more than twenty-seven credits of his major to complete.

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, Greek, Biology, Business Administration, Chemistry, Education, English Literature, English Composition, Speech, History, Home Economics, Journalism, Mathematics, Spanish, German, Physics, Secretarial Science, Engineering, Manual Arts, and Physical Education.

A grade of D does not count on a major or a minor but may count on other upper division courses.

Pro-Seminar Courses

Pro-seminar courses may not be taken until nine credits in education have been completed. These courses may count on a minor in education.

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.

Residence Work

Candidates for degrees, with the exception of medical students, must spend their senior year, 36 weeks, 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 received a B. A. degree may continue his work and earn a B. S., B. Th., or vice versa. If one wishes to take a second degree, he must complete forty-five credits and be in residence three additional quarters.

Vocational Credit

The vocational requirement for a bachelor's degree may be met by presenting nine credits from the following: manual arts, agriculture, auto mechanics, baking, home economics, machine shop, printing, typing, shorthand, commercial lettering, one-half of the library science course, and accounting. A minimum of six credits must be presented in one vocation.

Senior Students Transferring

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

REQUIREMENTS FOR GRADUATION

Degrees

*The degree of Bachelor of Arts, Bachelor of Music, Bachelor of Science, Bachelor of Science in Engineering, or Bachelor of Science in Manual Arts is conferred upon students who have fulfilled the following conditions:

*For B.Th. degree requirements see page 108.

1. Complied with all entrance requirements. (See page 34).

2. Completed one hundred ninety-two quarter credits of college work as indicated under the various curriculums. At 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	15-30 credits
English	9 credits
Basic Science	
Elect Chemistry, Physics, Physiology, Biology, or Mathematics	12 credits
Vocational	9 credits
Physical Education and Health (Medical Cadet required of young men).	6 credits

Majors in Business, Secretarial Science, Home Economics, Manual Arts, Engineering, and Nursing Education may be excused from foreign language.

Bachelor of Music

The prerequisites for this course are the completion of the preparatory work in the chosen major instrument, Elementary Conducting, Preparatory Piano, and a natural gift for music.

Course of Study

First Year

Autumn Quarter	Credits
Applied Major	6
Bible	2
English	3
Language or Liberal Arts (Voice Majors elect Language.)	5
Physical Education	½
Ensemble	½
	17

Winter Quarter	Credits
Applied Major	6
Bible	2
English	3
Arts (Voice Majors elect Language.)	5
maj. elect lang.)	5
Physical Education	½
Ensemble	½
	17

Spring Quarter	Credits
Applied Major	6
Bible	2
English	3
Arts (Voice Majors elect Language.)	5
maj. elect lang.)	5
Physical Education	½
Ensemble	½
	17

Second Year

Applied Major	6
Theory I	5
Musical Literature or Church Music	2
Bible	2
Elective	1
Ensemble	½
Physical Education	½
	17

Applied Major	6
Theory I	5
Musical Literature or Church Music	2
Bible	2
Elective	1
Ensemble	½
Physical Education	½
	17

Applied Major	6
Theory I	5
Musical Literature or Church Music	2
Bible	2
Elective	1
Ensemble	½
Physical Education	½
	17

Third Year

Applied Major	6
Theory II	3
Form and Analysis	2
Bible	2
Elective	3
Ensemble	½
	16½

Applied Major	6
Theory II	3
Form and Analysis	2
Bible	2
Elective	3
Ensemble	½
	16½

Applied Major	6
Theory II	3
Form and Analysis	2
Bible	2
Elective	3
Ensemble	½
	16½

Junior Recital

Fourth Year

Applied Major	6
Counterpoint	2
Composition	1
Orchestration	1
Orchestral or Choral Conducting	1
History of Music	3
Bible	2
Ensemble	½
	16½

Applied Major	6
Counterpoint	2
Composition	1
Orchestration	1
Orchestral or Choral Conducting	1
History of Music	3
Bible	2
Ensemble	½
	16½

Applied Major	6
Counterpoint	2
Composition	1
Orchestration	1
Orchestral or Choral Conducting	1
History of Music	3
Bible	2
Ensemble	½
	16½

Senior Recital

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, an elementary knowledge of the piano and a natural gift for music.

Course of Study

First Year

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Applied Music	2	Applied Music	2	Applied Music	2
Bible	2	Bible	2	Bible	2
English	3	English	3	English	3
Language	5	Language	5	Language	5
Physical Education	½	Physical Education	½	Physical Education	½
Ensemble	½	Ensemble	½	Ensemble	½
Elective	3	Elective	3	Elective	3
	16		16		16

Second Year

Applied Music	2	Applied Music	2	Applied Music	2
Theory I	5	Theory I	5	Theory I	5
Bible	2	Bible	2	Bible	2
History (European)	3	History (European)	3	History (European)	3
Psychology	3	Psychology	3	Psychology	3
Physical Education	½	Physical Education	½	Physical Education	½
Ensemble	½	Ensemble	½	Ensemble	½
	16		16		16

Third Year

Applied Music	2	Applied Music	2	Applied Music	2
Theory II	3	Theory II	3	Theory II	3
Bible	2	Bible	2	Bible	2
Science	4	Science	4	Science	4
Health Principles	3	Elective	5	Elective	5
Elective	2	Ensemble	½	Ensemble	½
Ensemble	½				
	16½		16½		16½

Fourth Year

Applied Music	2	Applied Music	2	Applied Music	2
Music History	3	Music History	3	Music History	3
Music Elective	2	Music Elective	2	Music Elective	2
Bible	2	Bible	2	Bible	2
Elective	7	Elective	7	Elective	7
Ensemble	½	Ensemble	½	Ensemble	½
	16½		16½		16½

Senior Recital



Conard Hall

Bachelor of Arts—Music Minor

A Bachelor of Arts with a Minor in music is a non-professional course consisting of 29 hours of music with a maximum of 14 hours in applied music.

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

Intermed. Accntg.	3	Intermed. Accntg.	3	Intermed. Accntg.	3
Health Principles	3	Business Law	3	Business Law	3
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	½	Elective	½	Elective	½
	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
Labor Economics	3				
Bible	2	Bible	2	Bible	2
Minor or Electives	4	Minor or Electives	7	Minor or Electives	7
	16		16		16

Fourth Year

Adv. Accounting	2	Adv. Accounting	2	Adv. Accounting	2
Money and Banking	3	Money and Banking	3	Business Machines	3
Fund Accounting	3	Tax Accounting	3	Auditing	3
Statistics	2	Statistics	2	Seminar	2
Bible	2	Bible	2	Bible	2
Minor or Electives	4	Minor or Electives	4	Minor or Electives	4
	16		16		16

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
Psychology	3	Psychology	3	Principles of Ed.	3
Physical Education	½	Physical Education	½	Physical Education	½
Lettering	½	Lettering	½	Lettering	½
History Span.	3	History	3		
	16		16		16

Second Year

Bible	2	Bible	2	Bible	2
Secretrial Acctng.	2 3	Secretrial Acctng.	2 3	Secretrial Acctng.	2 3
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	5½	Elective	5½
Elective	2½				
	16		16		16

Third Year

Bible	2	Bible	2	Bible	2
Advanced Dictation or News Writing	2	Advanced Dictation or News Writing	2	Advanced Dictation or News Writing	2
Science	4	Science	4	Science	4
Office Procedure	2	Office Procedure	2	Office Procedure	2
				Business Machines	3
Elective	6	Elective	6	Elective	3
	16		16		16

Fourth Year

Bible	2	Bible	2	Bible	2
Advanced Dictation or News Writing	2	Advanced Dictation or News Writing	2	Advanced Dictation or News Writing	2
Methods in Teaching	1	Methods in Teaching	1		
Elective	11	Elective	11	Elective	12
	16		16		16

Outline of Bachelor of Science Course

This degree is granted to science students completing a minimum of 90 hours in combined science and mathematics.

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

First Year

Autumn Quarter	Credits
Bible	2
Freshman English	3
Chemistry or Biology	4
Mathematics	4
Vocational	3
Physical Education	½
	16½

Winter Quarter	Credits
Bible	2
Freshman English	3
Chemistry or Biology	4
Mathematics	4
Vocational	3
Physical Education	½
	16½

Spring Quarter	Credits
Bible	2
Freshman English	3
Chemistry or Biology	4
Mathematics	4
Vocational	3
Physical Education	½
	16½

Second Year

Bible	2
Second Year Language	2-5
Mathematics or Elective	4
Major or Minor	3-5
Physical Education	½
	16½

Bible	2
Second Year Language	2-5
Mathematics or Elective	4
Major or Minor	3-5
Physical Education	½
	16½

Bible	2
Second Year Language	2-5
Mathematics or Elective	4
Major or Minor	3-5
Physical Education	½
	16½

Third Year

Bible	2
History	3
Language	3-5
Major or Minor	3-8
Physics	
Health Principles	3
	16

Bible	2
History	3
Language	3-5
Major or Minor	3-8
Physics	
Education	3
	16

Bible	2
History	3
Language	3-5
Major or Minor	3-8
Physics	
Education	3
	16

Fourth Year

Bible	2
Major or Minor	6-10
Education	3
Elective	1-5
	16

Bible	2
Major or Minor	6-10
Elective	4-8
	16

Bible	2
Major or Minor	6-10
Elective	4-8
	16

Bachelor of Science 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 B.S. in Nursing degrees. See pages 112 and 113 for outline of course. Write to Frederick R. Hanson, Dean of the School of Nursing, College Place, Washington for a bulletin of the School of Nursing.

Bachelor of Science in Nursing Education

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

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 with credits meeting a minimum evaluation of 81 quarter hours.

If a student satisfactorily fulfills the above requirements, four quarters will be necessary to complete the work for the degree. It is strongly recommended that the required quarters commence with the summer quarter.

Course Outline for Major in Nursing Education

SUMMER QUARTER

Educational Psychology	3 credits
Philosophy of Education	3 credits
Tests and Measurements	3 credits
Bible (upper division)	6 credits
	15 credits

SCHOOL YEAR SESSION

	Autumn	*Winter*	*Spring*
Introduction to Nursing Education	3		
Ward Teaching and Management	3		
Teaching of Nursing Arts		2	1
Curriculum in Schools of Nursing			3
Supervision in Schools of Nursing		3	
Organization, Admn. of Schools of Nursing			3
Current Trends in Nursing			3
Speech	2	2	2
History (upper division)	2	2	2
Electives (upper division)	6	6	3
	16	15	17

Suggested electives: Physiology, Embryology, Sanitary Bacteriology, Genetics, Parasitology, Nutrition and Experimental Cookery, Biochemistry.

Two-Year Course 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) (54 or 56)	3 credits
General Psychology (57 or 62)	3 credits
Educational Psychology (58 or 63)	3 credits
Principles of Secondary Teaching (134)	2 credits
Special Methods (in major subject) (197)	2 credits
Secondary Directed Teaching (162)	5 credits
Educational Measurements (136)	3 credits
History of Education	3 credits
Adolescent Life and Problems (137)	3 credits
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 Arts 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 Arts 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 38
- Introduction to Education (2)
- Philosophy of Education (3)
- Student Teaching and Techniques (21)
- Psychology (9)
- Tests and Measurements (3)
- State Manual (0)

General Academic Requirements 98
- English and Speech (23)
- Art (3)
- Social Studies (23)
- History of Washington (3)
- Health and Physical Education (6)
- Industrial Arts (5)
- Music (5)
- Mathematics (3)
- Religion (18)
- Science (14)

*One unit for each year of attendance at a Seventh-day Adventist Academy.

Two Minors (18 upper division) (20 each) 40

To be selected from the following:

Biology	French	Physics
Chemistry	German	Business
English Literature	Mathematics	Spanish
History	Music	Speech
Home Economics		

Free Electives 17

The following schedule of classes is recommended for candidates for the degree of Bachelor of Arts 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
History of U. S.	3	History of U. S.	3	History of U. S.	3
Teachers' English	2	Teachers' English	2	Teachers' English	2
Introduction to Ed.	2	School Arts	3	Health Principles	3
Industrial Arts	3	Survey of Phys. Sc.	4	Industrial Arts	2
Survey of Zoology	4	Math. Principles	3	Botany	4
	16		17		16

Second Year

Music Fundamentals	2	Sight Singing	2	Music in Elem. Sch.	2
American Literature	2	American Literature	2	American Literature	2
Fund. Ch. Belief	2	Fund. Ch. Belief	2	Fund. Ch. Belief	2
American Govt.	3	Prob. in Ele. Phy. Ed.	2	Prob. in Ele. Phy. Ed.	2
Prob. in Ele. Phy. Ed.	2	Ed. Psychology	3	Geography	5
Gen. Psychology	3				
Electives	3	Electives	5	Elective	3
	16		16		16

Third Year

Directed Teaching I	2	Directed Teaching I	2	Directed Teaching I	2
Teaching Tech.	3	Teaching Tech.	3	Teaching Tech.	3
Denom. History	2	Denom. History	2	Elective	1
Remedial Teach.	3	Tests and Meas.	3	Denom. History	2
Electives	4	Electives	4	Philosophy of Ed.	3
Voice and Diction	3	Speech Correction	3	Speech Correction	3
				Child Psychology	3
	17		17		17

Fourth Year

Daniel and Revelation	2	Daniel and Revelation	2	Daniel and Revelation	2
Electives	15	Teaching	4	Child Literature	2
		Electives	11	Electives	10
		State Manual	0	Washington History	3
	17		17		17

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) Two additional credits in Biology must be chosen as elective.

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 VII

Junior College 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.

Preparatory Medical Course

FIRST YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Bible	2	Bible	2	Bible	2
Freshman Comp.	3	Freshman Comp.	3	Freshman Comp.	3
Inorganic Chemistry	4	Inorganic Chemistry	4	Inorganic Chemistry	4
Elementary Zoology	4	Elementary Zoology	4	Elementary Botany	4
Algebra	4	Trigonometry	4	Analytical Geometry	4
Physical Education	½	Physical Education	½	Physical Education	½
	17½		17½		17½

SECOND YEAR

Bible	2	Bible	2	Bible	2
Physics	4	Physics	4	Physics	4
Organic Chemistry	3	Organic Chemistry	3	Organic Chemistry	3
†Language	3	†Language	3	†Language	3
History	3	History	3	History	3
Mammalian Anatomy	1				
Physical Education	½	Physical Education	½	Physical Education	½
	16½		15½		15½

THIRD YEAR

Bible	2	Bible	2	Bible	2
Speech	2	Speech	2	Speech	2
Education	3	Education	3	Education	3
Vocation	3	Vocation	3	Vocation	3
Government	3	Biochemistry	4	Embryology	3
Elective or Organic Syn.	3	El. Analysis	3	El. Analysis	4
	16		17		17

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

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

†Pre-medical students who have not had the requisite preparation in language must take 15 credits in language in the second year and 9 credits the third year. History of the second year must then be elected in the third year.

Zoology) 12, Embryology 3, English 9, Language 9, Government 3, Religion 6. After completion of the above course and two years of work in the College of Medical Evangelists, the Bachelor of Arts degree will be conferred.

Transfer students must earn at least 36 credits in residence, 9 of which must be in basic science and include one upper division course. Repetitions do not apply.

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 first two years of the pre-medical course. 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. If a student completes the three-year pre-medical course as listed above, the White Memorial Hospital grants the Bachelor of Science degree to students completing their one-year laboratory technician's course.

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. The first two years of the premedical course are recommended.

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-DIETETIC 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
	15½		15½		15½

Second Year

Bible	2	Bible	2	Bible	2
American Govt.	3	Psychology	3	Principles (Philosophy) of Education	3
Psychology	3	Anatomy and Physiology	3	Anatomy and Physiology	3
Anatomy and Physiology	3				
Elective	5	Elective	8	Elective	8
	16		16		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:

English ..... 3 units
Language ..... 2 units
(Two units must be in the same language)
Mathematics ..... 2 units
History ..... 1 unit
Bible ..... 1-4 units
(One unit for each year of attendance at a Seventh-day Adventist academy. One unit for high school graduates.)
Science ..... 2 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 Revelation	2	Daniel and Revelation	2	Daniel and Revelation	2
Freshman English	3	Freshman English	3	Freshman English	3
Anatomy and Physiology	3	Anatomy and Physiology	3	Anatomy and Physiology	3
Microbiology	3	Microbiology	3	Health Principles	3
Pre-nursing Chem.	3	Pre-nursing Chem.	3	Pre-nursing Chem.	3
History of Nursing	2	History of Nursing	2	History of Nursing	2
Physical Education	½	Physical Education	½	Physical Education	½
	16½		16½		16½

(Note: Most students interested in nursing are electing to take the Bachelor of Science in Nursing course outlined in pages 112 and 113 of this bulletin. Write to Frederick R. Hanson, Dean of the School of Nursing, College Place, Washington for a bulletin of the School of Nursing.)

PART VIII

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.

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 1947-1948.*

RELIGION

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

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 Revelation or Hebrew Prophets.

(d) Senior students may select a suitable upper division Bible course, such as: 121, 122, 123; 134, 135, 136; 151, 152, 153; 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 109, 110.

1-2-3. *Bible Survey.* This course is a Bible introduction. 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. 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.

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 accept-

ance 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 Revelation.* This elementary course in the study of these two books is offered primarily for Pre-nursing 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 groundwork in the fundamental doctrines held by the Seventh-day Adventist denomination. Lectures, textbook assignments, and library work. Two credits; autumn, winter, spring; Sec. A, T. Th., 8:25; Sec. B, T. Th., 10:15; Sec. C, T. Th., 1:00; Sec. D, M. W., 10:15.

91-92. *Bible Workers' Evangelism.* This course is offered especially for young women taking the Bible Workers' 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. *Denominational History and Spirit of Prophecy.* 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; T. Th., 8:25.

134, 135, 136. *Hebrew Prophets.* A study of the major and minor prophets from the viewpoint that these things "were written for our admonition upon whom the ends of the world are come." Attention to the historical setting of the prophecies, with careful exegetical study of the text, emphasizing the fundamentals of the gospel as contained therein. Collateral reading, theme work. Three credits; autumn, winter, spring; M. W. F., 11:10.

141-142. *Homiletics I and Field Seminar I.* A study of the work of the preacher and his preaching. Biblical topics will be organized for presentation and outlines prepared. The work of the pastor, the evangelist, and the

Bible worker will be discussed. Students are assigned in small groups to various nearby churches to assist in Sabbath School and gain experience in performing ministerial work. This is the field work assignment for this class. Three credits; autumn, winter; T. Th., 9:20.

143. *Church Polity.* This course deals with the problems of organization and deliberative procedure in the Seventh-day Adventist denomination. It is a study of the principles of church organization, their divine origin, and their application to present conditions. The course includes a careful and detailed study of the organization of churches and conferences with all their departments, their operation and their interrelationship. The Field work assignment is the same as in Homiletics and Field Seminar I and Bible Workers' Evangelism. Two credits; spring; T. Th., 8:25.

151-152. *World Religions.* A short study of the greater religions of mankind, such as, Animism, Hinduism, Buddhism, 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 similarities to and contrasts with the Christian faith, as well as present-day conditions which are of value in the study of missions. Three credits; autumn, winter; M. W. F., 7:30.

153. *Denominations.* The rise of denominations in the United States and the principal teachings and the organization of each. Three credits; spring; M. W. F., 7:30.

161-162-163. *Systematic Theology.* More extensive study of essential Christian doctrines with emphasis upon Bible doctrines especially valuable to the Christian believer. Subjects stressed are: attributes of God, the Trinity, sin, the law, the two natures of Christ, union with Christ, conversion, justification, sanctification, Christ's church, baptism, 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.

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

174, 175, 176. *Advanced Teachings of Jesus.* An analysis is made of the teachings of Jesus. These are studied from the viewpoint of their application to our present-day conditions and needs and to the everyday experiences and problems of Christian living. Christianity as the greatest of all philosophies is analyzed in the light of ancient and modern times.

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*Not offered 1947-1948.

Some time is devoted to research in the volumes of the Spirit of Prophecy. Andreason's *Faith of Jesus* and White's *Desire of Ages*, and *Great Controversy* are studied. Reports and notebooks are required. Two credits; autumn, winter, spring; T. Th., 10:15.

181-182-183. *Homiletics II.* 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, church organization, 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.

181A-182A-183A. *Field Evangelism.* For the field assignment for the preceding class, students are assigned in small groups to conduct or assist in gospel efforts in nearby cities and towns, and to hold Bible studies in the homes of those interested in the study of God's word. The Walla Walla College church affords opportunity for some to obtain experience in the work of operating a church. One credit; autumn, winter, spring; M. W. F., 10:15.

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.

* 4, 5, 6. *China Painting.* Experience in china painting and a knowledge of the various kinds and makes of china; original designs developed. A knowledge of china painting and the composition of china ware is of value to the student in assisting him to discriminate between good and inferior in the commercial world. China painting develops originality, neatness, and carefulness. One credit; autumn, winter, spring; W., 1:00-4:00.

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

For a major in Biblical Languages 48 credits are required of which 21-24 credits must be upper division work including Methods of Research, courses 194-195-196 in Bible Department.

For a minor in Biblical languages 30 credits are required, of which 9 credits must be upper division work.

Students who have completed the minimum requirement of Greek in the School of Theology may become eligible for a major by completing specified upper division courses in either Greek or Hebrew.

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; M.-F., 7:30; M.-F. 11:10.

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*Not offered 1947-1948.

WALLA WALLA COLLEGE LIBRARY

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. Four credits; autumn, winter, spring; M.-F., 10:15.

111, 112, 113. *New Testament Epistles* (Greek). 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.

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. Underhill, Miss Emery, Mr. Nelson, Mr. Walters

Requirements for a major in biological science:

(1) A minimum of 45 credits, 25 of which must be upper division;

(2) Courses 1-2, 3, 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 biological science:

(1) A minimum of 27 credits, 12 of which must be upper division;

(2) Courses 1-2, 3, 106, 117-118-119 are required of all minors;

(3) Courses 157, 158, 159, 193, 194-195 are highly recommended.

1-2. *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, four hours laboratory. Four credits; autumn, winter; Sec. A, M. W. F., 7:30; Sec. B, M. W. F., 8:25; Sec. C, M. W. F., 10:15; Sec. D, M. W. F., 7:30; Sec. E, M. W. F., 8:25.

3. *Elementary Botany.* A general survey of the plant kingdom with emphasis on morphology, life histories, and development. Three hours attendance, four hours laboratory. Four credits; spring; Sec. A, M. W. F.,

7:30; Sec. B, M. W. F., 8:25; Sec. C, M. W. F., 10:15; Sec. D, M. W. F., 7:30; Sec. E, 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, four 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, four hours laboratory. Three credits; autumn, winter; T. Th., 11:10.

11-12-13. *Anatomy and Physiology.* A course open only to pre-nursing and pre-dietetic students. A general survey course in which anatomy and physiology are given equal emphasis. Two hours attendance, three hours laboratory. Three credits; autumn, winter, spring; T. Th., 9:20.

21-22-23. *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, six hour laboratory. Four credits; autumn, winter, spring; M. W. F., 7:30; laboratory, T. Th., 8:30-11:30.

61. *Mammalian Anatomy.* A laboratory course in the dissection of the cat. Four hours attendance. One credit; autumn; arranged.

104-105. *Morphology of Plants.* Detailed studies of the type forms of the main plant groups. Autumn quarter: Thallophytes and Bryophytes; winter quarter: Pteridophytes and Spermatophytes. Three hours attendance, four hours laboratory. Four credits; autumn, winter; T. Th., 10:15; W., 1:00.

106. *Systematic Botany.* Principles of classification of plants with emphasis on the Spermatophytes. 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. Two hours attendance, four hours laboratory. Three 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; W., 4:00.

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: courses 1-2. One hour attendance, eight hours laboratory. Three credits; autumn, winter; Th., 9:20; laboratory arranged.

123. *Plant Micrology.* A course designed to cover the important methods of technique in making microscopic slides of plant tissues. Prerequisite course 3. One hour attendance, eight hours laboratory. Three credits; spring; Th., 9:20; laboratory arranged.

131. *Marine Biology.* A systematic study of animals and plants found in Puget Sound, with a survey of marine life from other areas. Prerequisite: courses 1-2, or 4. Four credits; summer (Puget Sound Biological Station).

*133. *Systematic Entomology.* A systematic study of insects. Prerequisite: course 1-2. Two hours attendance, eight hours laboratory. Four credits; spring; T. Th., 8:25.

151. *Sanitary Bacteriology.* Fundamental public health bacteriological procedures on foods, water, milk, blood, etc. Prerequisites, courses 5-6. Two hours attendance, two four-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: courses 1-2. Two hours attendance, eight hour laboratory. Four credits; spring; T. Th., 10:15.

*156. *Mammalogy.* A systematic study of mammals with emphasis on taxonomy and geographical distribution. Prerequisite: courses 1-2. Two hours attendance, eight hours laboratory. Four credits; spring; T. Th., 1:00.

157. *Genetics.* A study of the principles of inheritance in plants and animals. Prerequisite: courses 1-2, or 3. Two credits; autumn; T. Th., 11:10.

158. *Paleontology.* A study of plant and animal fossils, with a survey of the principles of geology. Prerequisite: courses 1-2. 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, or 3. 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., 4:00.

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, and 3. Two credits; summer, 1948.

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

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., 7:30.

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., 4:00.

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*Not offered 1947-1948.

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; arranged.

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

Field School of Biology (formerly the Field Nature School). This is a summer traveling school in biology. Students camp together in various areas of North America, traveling by bus, and study one or more of the courses listed above. The next trip is planned for Alaska during the first half of the summer, 1948. Those who wish to take this trip should plan to attend at least one session of work at the Puget Sound Biological Station in Anacortes. The course 153 will be a prerequisite for the trip to Alaska. This course may be had during the first term of summer, 1947, at the Biological Station.

Puget Sound Biological Station. This is a branch of the Biology Department of Walla Walla College, located 3 miles west of Anacortes, Skagit County, Washington, using the property of the Fidalgo Island Packing Company. There are five large buildings; two are dormitories—three are built on pilings over the water of Puget Sound. During the first term of summer, courses 1-2, 131, 199 are offered; during the second term, courses 3, 4, 106, 133, and 156 are offered. Equipment from the Biology Department of the college is taken to the Biological Station for the summer courses; a large bus is available for field trips; seven boats are used for marine study. Students are accepted only after personal application (or by mail) to the director, Ernest S. Booth.

BUSINESS ADMINISTRATION
SECRETARIAL SCIENCE

Mr. Schneider, Mr. Mehling, Mrs. Mehling, Miss Dale

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

Prerequisite: College entrance requirements and one credit in elementary bookkeeping.

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, 191-192 are required for the Bachelor of Science 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 courses (choose nine credits).
Cost Accounting. Six credits.
Budgets. Three credits.
Margeting and Advertising. Six credits.
Business Finance. Six credits.
Money and Banking. Six credits.

Requirements for the Major in Secretarial Science:

Prerequisite: College entrance requirements.

LOWER DIVISION COURSES:

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

UPPER DIVISION COURSES:

Choose 20 credits including 1, 2, 3.

1. *Advanced Dictation.* Six credits.
2. *Office Procedure.* Six credits.
3. *Methods in Teaching.* Two credits.
4. *Marketing and Advertising.* Six credits.
5. *Business Finance.* Six credits.
6. *Money and Banking.* Six credits.

Requirements for a minor in Secretarial Science:

Shorthand I. Nine credits.
Advanced Shorthand. Six credits.
Advanced Typing. Three credits.
Office Procedure. Six credits.
Methods in Teaching. Two 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 transpor-

tation; principles of money and banking; distribution of wealth; taxation; and problems of labor. Three credits; autumn, winter, spring; M. W. F., 11:10.

7-8-9. *Secretarial Accounting.* An accounting course designed to acquaint the student with basic accounting concepts. To develop the fundamental principles of accounting and apply these principles to the accounting narrative of transactions; opening accounts, journalizing, posting, balancing accounts and preparations of statements and schedules. (Open to Secretarial and non-departmental students). Two credits; autumn, winter, spring; T. Th., 9:20.

11-12-13. *Typewriting I.* Theory and practice of touch typing; frequency drills; rhythm drills; business letter forms; tabulating; manifolding; statement work; figures; speed practice. Speed requirement for three credits: 50 words per minute. Three class periods per week; two laboratory periods per week. One credit; autumn, winter, spring; M. W. F., 8:25.

11A-12A. *Special Typewriting I.* A refresher course for all students; designed especially to enable secretarial majors to meet the required entrance speed of 40 words per minute for advanced typewriting. Speed requirement: 50 words per minute. Prerequisite speed: 35 words per minute. One credit; autumn, winter; T. Th., 10:15.

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., Sec. A, 7:30; Sec. B, 1:00.

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., 2:00 to 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.

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., 11:10.

*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. Three credits; winter and spring; M. W. F., 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

*Not offered 1947-1948.

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 40 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., 10:15.

*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. Two credits; autumn, winter, spring; T. Th., 9:20.

*114-115-116. *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. Two credits; autumn, winter, spring; T. Th., 8:25.

*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., 10:15.

*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., 10:15.

151-152-153. *Marketing and Advertising.* A study of the principles underlying marketing and market organizations in connection with the psychology and science of advertising. Two credits; autumn, winter, spring; T. Th., 10:15.

*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.

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., 11:10.

175. *Tax Procedure.* A study of tax regulations and accounting records necessary to facilitate proper tax accounting and the determination of tax

*Not offered 1947-1948.

liability for individuals, partnerships and corporations. Prerequisite: B. A. 73 or consent. Three credits; winter; M. W. F., 11:10.

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., 11:10.

181-182. *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. Three credits; autumn, winter; M. W. F., 10:15.

**183 or 83. *Business Machines.* Instruction in adding, listing, calculating, duplicating, mimeograph, and dictaphone machines. May be taken either as upper or lower division credit. Class and laboratory work. Three credits; spring; arranged.

*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.

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. One credit; winter; T., arranged.

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

196. *Methods in Teaching Bookkeeping in the Secondary Schools.* This 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, Mr. Hubbard, Mr. Mehling

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

*Not offered 1947-1948.

**Additional work will be required for upper division credit.

(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 three 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., 1:00-4:00; Sec. B, Mon., 2:00-5:00; Sec. C, Tues., 2:00-5:00; Sec. D, Th., 2:00-5:00.

21-22-23. *Inorganic Chemistry.* A systematic study of typical metals and non-metals together with a survey of all the elements. Emphasis is placed on fundamental principles and theories. Three hours attendance. Three credits; autumn, winter, spring; 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, Sun., 8:00-12; Sec. B, Tues., 7:30-11:00; Sec. C, Wed., 2:00-5:00; Sec. D, 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., 7:30.

53. *Food Chemistry.* A study of physiological chemistry with emphasis on composition, function, and utilization of foods Three hours attendance. Three credits; spring; M. W. F., 7:30.

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 conmpounds of carbon. Prerequisite: Chemistry 23. Two hours attendance. Two credits; autumn, winter, spring; T. Th.; Sec. A, 9:20; Sec. B, 10:15.

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 3. 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, Sun., 8:00-12:00; Sec. B, Wed., 1:00-5:00.

112. *Biochemistry for Medical Students.* A study of the chemistry of foods, digestion and body metabolism. Prerequisite: Chemistry 63. Three credits; winter; M. W. F., 7:30.

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. One conference and six hours of laboratory. Three credits; autumn; conference, T., 10:15; Lab. S., 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 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 hours laboratory. Three credits; spring.

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. T. Th., 1:00-5:00.

*Not offered 1947-1948.

EDUCATION

Mr. Smith, Miss Searle, Mrs. Emmerson

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.

112. *Child Life and Problems.* 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., 11:10.

*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.

*Not offered 1947-1948.

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.

ELEMENTARY TEACHER TRAINING

Miss Searle, Miss Rue

12. *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; winter; M. W. F., 7:30; S., 1:00-5:00.

52. *Principles of Mathematics.* A background of information, with the methods which will enable the teacher to enrich the arithmetic work of all grades. Three credits; winter; M. W. F., 8:25.

71. *Teaching Techniques.* Objectives and modern methods in the teaching of reading. Three credits; autumn; M. W. F., 10:15.

72. *Teaching Techniques.* A course giving the teaching procedures in the related fields of the language arts, literature, grammar, spelling, and writing. Three credits; winter; M. W. F., 10:15.

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

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; S., 10:00-12:00.

WALLA WALLA COLLEGE LIBRARY

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. S., 10:00-12:00.

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

106. *Child Literature.* A course designed to survey the field of children's literature. Two credits; spring; T. Th., 9:20.

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 juniors who have definitely decided to go into denominational 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; T. 3:00-4:00; and teaching in the Walla Walla College Academy.

197L. *Special Methods in Language Arts and Literature.* Education and senior standing. Two credits; autumn; time to be arranged.

197M. *Special Methods in Mathematics and Physical Science.* (Same as 197L.)

197S. *Special Methods in Social Science.* (Same as 197L.)

SOCIOLOGY

2. *Introduction to Sociology.* An elementary study of social organization, the nature of social relations, and the influences that shape society. Three credits; autumn, winter; M. W. F., 10:15.

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.

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*Not offered 1947-1948.

ENGLISH and JOURNALISM

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

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

The requirements for a major in English are:

DEPARTMENTAL	Credits
Literary Elements (51) (Sophomore)	3
American Literature (64-65-66) (Soph. or Junior)	6
English Literature (74, 75-76) (Sophomore)	6-9
One writing course above the freshman level	6
Historical Grammar and Linguistics (166) [Prescribed for those seeking departmental recommendation as teachers]	0-3
Pro-Seminar (197-198-199) (Senior)	3
CHOOSE FROM FOLLOWING:	6-15
**Old and Middle English* (101, 102-103)	
English Renaissance Literature (107-108, 109)	
Neo-classic Literature (117-118-119)	
Dramatic Literature (184, 185-186)	
Western World Literature (161, 162-163)	
CHOOSE FROM FOLLOWING:	3-12
The Romantic Period (121-122-123)	
The Victorian Period (124-125-126)	
American Literary Masters (137, 138, 139)	
Literature of the English Bible (152-153)	
Twentieth Century Literature (82)	
	45

*English 102 is prerequisite to English 166 and 103.

EXTRA-DEPARTMENTAL

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

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

COMPOSITION

1-2-3. *Freshman Composition.* Fundamental principles of composition: syntax, effective sentence structure, punctuation, paragraph development, organization of material, writing the various types of themes, and reaction to a reading program. English 1 or 1A will be repeated in the winter, spring, or summer when the need is adequate. Three credits; autumn, winter, spring; Sec. A, M. W. F., 7:30; Sec. B, M. W. F., 8:25; Sec. D, M. W. F., 8:25; Sec. E, M. W. F., 10:15; 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; Sec. M, 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.

4-5-6. *Teachers' English.* This is a course in grammatical structure and first-year college composition. Enrollment is restricted to prospective elementary and grammar-grade teachers who achieve average standing or better in the Freshman Composition placement test. Credit is not allowed for this course if one has credit in English 1-2-3 or 1A-2-3. Two credits; autumn, winter, spring; T. Th., 11:10.

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., 7:45.

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 conducts. Three credits; winter; M. W. F., 7:30.

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*Not offered 1947-1948.



Library

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.

*152-153. *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. Two credits; winter, spring; M. W., 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 1947-1948.

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 copy-editing, rewriting, head-writing, proof reading, 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 1947-1948.

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 (198, 199) ..... 2 credits
Political Science ..... 3 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* ..... 57 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 (198, 199) ..... 2 credits
Political Science ..... 3 credits
Upper-division courses in history ..... 9 credits

Total required for a *minor in history* ..... 32 credits

Additional regulations governing majors and minors in history are posted on the department bulletin board, and should be consulted by those concerned.

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, 11:10; Sec. B, 1:00.

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, 8:25; Sec. B, 10:15.

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

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

*114, 115, 116. *Church History.* A survey of the history of Christianity to the inception of the American and French revolutions. Emphasis is placed upon backgrounds, earlier formative years, rise of catholic Christianity, and the medieval changes leading up to the reformation and protestant divergencies. Considerable use of cultural and political history. Three credits; autumn, winter, spring; M. W. F., 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 bourgeoise, growing dissent in the medieval church. Three credits; autumn; M. W. F., 7:30.

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., 7:30.

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., 7:30.

*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.

*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

*Not offered 1947-1948.

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., 10:15.

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

190. *History of Religion in Totalitarian States.* An analysis of religious forces operative today with special emphasis on recent trends in Russia, Italy, and Germany. This course will be offered on a 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; winter; M. W. F., 8:25.

176. *History of the Pacific Northwest.* Development of the Northwest with emphasis on the State of Washington. The fur traders, the missionary era, the settlement of Washington following 1846, territorial days, political and economic development during statehood. Three credits; spring, M. W. F., 11:10.

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.

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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.

197, 198. *Seminar in History.* An orientation and research course in problems connected with historical materials and methods. One credit; autumn; Th., 7:30. The work for the winter quarter will be done in conjunction with course 190, M. W. F., 11:10. The two extra credits, beyond the seminar requirement, will apply on upper division work.

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 51-52, Microbiology 5-6, and six 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. Chemistry of Foods 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.* Decorative art involving a consideration of line, form, and color as applied to problems in block print, hand weaving, etc. Develops standards of judgment through analysis of fine pictures, textiles, etc. Three credits; autumn, winter; M. W. F., 8:25.

43. *Consumer Buying.* A study of the homemakers 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. Problems in pattern designing and making of various type of sleeves, collars, plaits, and flares. Consideration of fabrics to determine fundamental differences. Three credits; autumn, winter, spring; M. W., 1:15-4:00.

*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.

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. Two credits; autumn; T. Th., 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.

126. *Household Management.* Management problems of the homemaker in regard to income, time, labor, and family relationships. Study of the selection, operation, care and arrangement of household equipment. Three credits; spring; M. W. F., 11:10.

134-135. *Tailoring.* Principles involved in making suits and coats for women. Open only to those who show skill in construction of garments. Prerequisite: Course 71-72-73. Three credits; autumn, winter; T. Th., 1:15-4:00.

*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.

161-162. *Nutrition.* A scientific study of nutrition involving digestion and metabolic processes and products; selection of an optimal 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

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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. *Home Economics Seminar.* Required of all majors. Studies of selected topics and reviews of current literature. Special investigations of problems. Prerequisite: at least thirty credits in Home Economics. Three credits; spring; M. W. F., 8:25.

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; 10:15.

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

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. F., 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

Miss Sorenson, Mr. Sonnenberg

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.

In case a student has taken two years of modern language to meet the preparatory school requirements, a minimum of fifteen credits in the same language is necessary to meet the college requirement. If the same language is not continued in college, then it will be necessary to obtain twenty-four credits in college.

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

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

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GERMAN

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., 10:15.

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., 11:10.

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., 11:10.

*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.

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.

*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.

*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., 8:25.

*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

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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.

SPANISH

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., 10:15.

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., 11:10.

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., 11:10.

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. Three credits; spring.

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.

FRENCH

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.

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MUSIC

Mr. Walker, Mr. Dortch, Mr. Lobsien, Miss Miller, Miss Johnson, Mrs. Maxwell

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 major in Piano, Organ, Voice, and Violin, 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 201 credits. Students having an adequate background in their chosen major instrument may take 24 of the 72 applied music credits in secondary applied fields.

Those who are planning for Band and Orchestral leadership must take the following as a part of their applied music credit: Piano, 6 credits; String Class, 4 credits; Woodwind, 4 credits; Brass Class, 4 credits; Percussion, 2 credits; a minimum of 48 credits in a chosen major instrument.

A String Major will be required to learn all string instruments as well as one brass instrument and one Woodwind instrument well enough to play in Band. A Brass Instrument Major will be required to learn all woodwind instruments plus one brass instrument to be played well enough to play in the Band and one string instrument to be played well enough to play in the orchestra.

All are advised to take 2 credits in practice teaching which may be deducted from the applied music requirement.

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.* 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.* The first quarter will be devoted to the study of strict counterpoint, while the second and third quarters will be devoted to the study of canon, invention, and fugue writing. Two credits; autumn, winter, spring; T. Th., 11:10.

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

151-152-153. *Orchestration.* A study of musical instruments and the art of arranging various compositions for full band or orchestra. One credit; autumn, winter, spring; Th., 1:00.

154, 155, 156. *Composition.* A study of the art of writing responses, hymns, anthems, and instrumental compositions in the smaller forms. One credit; autumn, winter, spring; W., 7:30.

HISTORY AND APPRECIATION

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

157, 158, 159. *History of Music.* A course covering the development of music from its beginning through the Ancient, Medieval, Renaissance, Classical, Romantic, and Modern periods. Three credits; autumn, winter, spring; M. W. F., 8:25.

MUSIC EDUCATION

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.

CHURCH MUSIC

60-61-62. *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; M. W., 10:15.

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; M., 1:00.

160-161-162. ..*Choral Technique and Conducting.* Prerequisite: Conducting I. This course includes the study of tone production, baton technique, interpretation, and repertoire as well as practical experience in conducting various vocal organizations on the campus. One credit; autumn, winter, spring; T., 1:00.

163-164-165. *Orchestral Conducting.* Prerequisite: Conducting I. This course includes the study of instrumental technique, baton technique, score reading, interpretation, and repertoire as well as practical experience in conducting various instrumental organizations on the campus. One credit; autumn, winter, spring; W., 1:00.

INSTRUMENTAL CLASSES

10, 11. *Brass 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, Baritone,* and *Tuba.* Active participation in a training band constitutes a part of this course. Two credits; autumn, winter; time arranged.

12. *Percussion.* Methods of teaching and instruction in the various percussion instruments. Two credits; spring. Time arranged.

13, 14. *Woodwind 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. Two credits; autumn, winter; time arranged.

16, 17. ..*String Instrumental Class Method.* 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. Two credits; Autumn, winter; time arranged.

ENSEMBLE

All music students are invited to take advantage of the excellent opportunities offered in the various ensemble activities. 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

19, 20, 21. *Elementary Vocal Ensembles.* The study and practice in combinations such as duets, trios, quartets, sextets, etc. One credit; autumn, winter, spring; two periods weekly; time arranged.

63-64-65. *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.

66-67-68. *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.

69-70-71. ..*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. Time arranged.

72-73-74. *A Cappella Choir.* The College Choir is a highly selective ensemble of seventy-five members, balanced for four and eight-part singing. Representative works of the great masters of choral composition, both sacred and secular, are studied and performed. Some time is given each year to contemporary music and the madrigal. Membership in the choir depends upon strict compliance with the rules and standards of the organization. One-half credit; autumn, winter, spring; Sec. I, M. W., 5:00; Sec. II, T. Th., 5:00.

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

INSTRUMENTAL ENSEMBLES

22, 23, 24. *Elementary Instrumental Ensembles.* These organizations consist of various combinations. Credit arranged; autumn, winter, spring; time arranged; two periods weekly.

75-76-77. *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.

78-79-80. *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. Credit arranged; autumn, winter, spring; time arranged. Two periods weekly.

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.

Preparatory Piano

To enter the collegiate course for credit, the student should play all the major and minor scales correctly at the octave, as well as triad arpeggios in simple positions. Only parallel motion is required, but the candidate should be prepared to begin on the highest or lowest note, and play at a speed of about 4 notes to mm112 legato, and mm100 staccato, in piano and forte.

The candidate will be expected to perform, to the satisfaction of the faculty of music, pieces and studies comparable in difficulty and style to the following works:

STUDIES:

Czerny—Op. 109 Bk. I
Heller—Op. 47
Bach—Little Preludes and Two-part Inventions

PIECES:

Haydn—Sonatas No. 10, No. 20 (Schirmer)
Mozart—Sonatas No. 3, No. 13 (Schirmer)
Beethoven—Sonata Op. 49, No. 1
Brahms—Waltz

Piano I. Studies by Czerny, Crammer, Preludes and Fugues of the well-tempered Clavicord of Bach. One Haydn, Mozart or Beethoven sonata. Studies, dances, and Nocturnes by Chopin, works by modern composers. Major, minor, and chromatic scales at the 3rd, 6th, and 8ve, in parallel and contrary motion, and with legato and staccato touch at a rapid tempo.

Piano II. Studies by Chopin, Liszt, Henselt. One extensive composition by Bach, i.e., Chromatic Fantasie, or French Suite. One of the last five sonatas by Beethoven. Ballades, Scherzos, and other works by Chopin. Early classics (Couperin, Scarlatta, Rameau). A composition by Schumann, Mendelssohn, or Schubert. Major, minor, and chromatic scales at the 3rd, 6th, and 8ve, in parallel and contrary motion; also double thirds (similar motion only) and double octaves.

Piano III. An extensive composition by Brahms and a smaller composition by Schumann, or vice versa. One original composition or transcription or Rhapsody by Liszt. Extensive compositions by contemporary composers such as Ravel, Ireland, Stravensky. A concerto. Scales and arpeggios in all forms for purposes of virtuosity.

Piano IV. One concerto. Special study of the master-works of the various composers, with a preparation of the repertoire for final examination and senior recital.

ORGAN

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

Organ II. Continuation of technical studies to suit individual needs. Dupre: Chorale Preludes. Rheinberger: Trios. Bach: Choral Preludes

from the Orgelbuchlein; Fugue in G Minor. Franck: Fantasia in C Major. Sonatas and other selections from the standard organ repertoire.

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

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

VOICE

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

Voice I. Classification of the voice, procedures leading to correct tone production, and simple classics and contemporary songs to assist tone production through articulation and interpretation. Myer's *The Vocal Instructor* and *56 Songs* (Pub. by G. Schirmer, Inc.) are used. 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. Five additional songs from a selected list. Three Italian songs from *Anthology of Italian Song* edited by Parisotti; two French songs by Debussy, Faure or Massenet, one recitative, and one aria from the oratorios of Handel, Lully, or Monteverd and one recitative and aria from "St. Paul," "Messiah," "Elijah," "The Creation," or "The Prodigal Son."

Voice III. Seven German songs from a list by Brahms, Schubert, Schumann, R. Strauss, Beethoven, Wolff and Grieg; six songs in English from a list by Charles, Rachmaninoff, Tschaikovsky, Handel, Campbell-Tipton, Malotte, and Lully; three Italian songs from a list by Donaudy, Giordani, Sarti, and Pergolesi; two additional French songs from a list by Fourdrain, Faure, and Chaminade.

Voice IV. Continuation of French, German, and Italian diction is required. Three additional German songs from a list by Strauss, Schumann, Schubert, and Brahms; three additional Italian songs from a list by Leoncavallo, Verdi, Rossini, Sarti, Donaudy, etc.; four English songs from a list by Campbell-Tipton, Hageman, Charles, Malotte, Homer, Mana-Zucca, etc.; two Russian songs from a list by Rachmaninoff, Moussorsky, Gretchaninoff or Rimsky-Korsakoff; one recitative and aria by Bach and one aria in English or Italian suited to the individual voice. Preparation of program for graduation recital, appearance as soloist with Oratorio Chorus and with the College orchestra upon recommendation of the Conservatory faculty.

Voice students and all members of the College Choir and of the choral clubs are *required* to sing with the Oratorio society during at least one quarter of the school year.

VIOLIN

Preparatory Violin.

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.

During the four year course the student should have had not less than two years orchestral experience and two years chamber music. He should have studied the Viola sufficiently to enable him to play Viola in ensembles.

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 studes 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, Pietzach, Laurent, Petit, and others. Concerti and Sonatas by Pilas, 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 Young

21-22-23. *History of Nursing.* A survey course in nursing history, following the trends which have led to the present-day developments based on world history, denominational history, and the status of women down through the ages. Stress is laid upon the present trends in nursing history. Two credits; autumn, winter, spring; T. Th., 11:10.

31-32. *Nursing Arts I.* During the preclinical period the student is given a thorough course in the principles of nursing, including hospital housekeeping, the admission and general nursing care of the patient, observation and recording of the patient's condition and elementary nursing treatments. In all of these classes emphasis is placed on the patient and the attitude of the student nurse toward the patient. Method and Nursing Care Study are given during the last part of the preclinical period. After sufficient class room practice, the student is given opportunity to put her knowledge into use in the hospital wards, under close supervision. Five credits; winter, spring; lecture, T. Th., 1:00; laboratory: Sec. A, T. Th., 2:00-4:00; Sec. B, M. W., 3:00-5:00.

151. *Introduction to Nursing Education.* A course which is designed to give the student a broad overview of nursing education as it has developed frm the past to the present time. Three credits; autumn; M. W. F., 7:30.

152. *Teaching of Nursing Arts.* Methods of teaching nursing arts to students. Selection and organization of teaching material. Emphasis placed upon integration of classroom and ward teaching. Two credits; winter; M. W., 7:30. One credit; spring; time 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 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 152. Three credits; winter; M. W. F., 8:25.

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.

173. *Trends in Nursing.* 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. Brinker, Mr. Kretschmar, Mr. Quade

Major students are required to take courses 101, 101A, 102, 102A, 103, 103A, 104, 104A, 105, 105A, 106, 151, 152 and courses 1, 2, 3, and 51-52-53 in mathematics.

23. *Pre-nursing Physics.* Is designed especially for those taking the Collegiate Nursing Course and treats briefly of mechanics, heat, electricity, light, and sound with emphasis on practical application. Credit does not apply toward a physics major or minor. Four credits; spring; M. T. W. Th.

51, 52, 53. *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: eight credits 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.

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., 10:15.

*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., 10:15.

*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.

*104. *Heat.* A course in the principles of temperature and heat measurement, Kinetic theory, change of state, and thermodynamics. Three credits; autumn; M. W. F., 11:10.

*104A. *Heat Laboratory.* A laboratory course to accompany Course 104. Two credits; autumn; M. W., 2:00-5:00.

105, 106. *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., 11:10.

105A. *Optics Laboratory.* A laboratory course to accompany Course 105. Two credits; winter; M.-W., 2:00-5:00.

*111, 112, 113. *Practice Teaching in Physics.* The student takes charge of one laboratory section in General Physics. Student should obtain instructor's approval before registering. Two credits; autumn, winter, spring; time arranged.

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.

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*Not offered 1947-1948.

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 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 purchasable at the time the student enters the class.

Because of the amount of supervision necessary for conducting the work of this department, a double charge is made for all credit in physical education. Physical Education majors or minors will be exempted from the double charge.

To fill a great need in our denomination Walla Walla College is offering a major and minor in Physical Education. A candidate for graduation who fills the requirements of the department will be graduated with a B.S. degree.

1, 2, 3. *Freshman Physical Education.* Men—calisthenics, simple drills, games and contests—some apparatus work, ability tests, health lectures. One-half credit; autumn, winter, spring; M. W., 10:15; 1:00.

4, 5, 6. *Freshman Physical Education.* Same as course 1, 2, 3. Required of all women. T. Th., 8:25; 9:20; 10:15.

11-12-13. *Anatomy and Physiology.* See Biology 11-12-13.

14, 15, 16. *Health Principles.* See Non-Departmental 14, 15, 16.

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.

51, 52, 53. *Sophomore Physical Education.* Men—continuation of Freshman Physical Education. One-half credit; autumn, winter, spring; M. W., 10:15; 2:00.

54, 55, 56. *Sophomore Physical Education.* Women—continuation of Freshman Physical Education. One-half credit; autumn, winter, spring; T. Th., 8:25; 9:20.

61. *Beginning Swimming.* Adjustment to water, buoyancy, coordination of arms and legs and other fundamentals of swimming. One credit; three hours laboratory per week; autumn; time arranged.

62. *Swimming.* Fundamental strokes, treading, floating, underwater swimming, plain diving. One credit; three hours laboratory per week; winter; time arranged.

63. *Life Saving and Aquatics.* Skills and teaching technique of life saving and water safety. Two credits; six hours laboratory per week; spring; time arranged.

64. *Tumbling.* Development of balance and agility by individual and group tumbling. One credit; three hours per week; autumn; time arranged.

65. *Tumbling and Apparatus.* Hand balancing, tumbling, pyramids, apparatus work. One credit; three hours laboratory per week; winter; time arranged.

*66. *Advanced Tumbling and Apparatus.* Continuation of above. One credit; three hours laboratory per week; spring; time arranged.

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. Physical Education 51, 52, 53 advised; and permission of the instructor. One-half credit; autumn, winter, spring; time to be arranged.

77, 78, 79. *Seasonal Recreation.* One credit, three hours laboratory per week. Autumn quarter—games such as volleyball, soccer, touch football. Sportsmanship and team coordination will be emphasized. Winter quarter—basketball and other indoor games. Spring quarter—soft ball, baseball. track. Time arranged.

81, 82, 83. *Body Development and Corrective Exercises.* Symmetrical development of body, weight lifting, barbell and dumbell exercises. Some hand balancing. Individual work with instructor. One credit; three hours laboratory per week; 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., time arranged.

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., 3:00.

101. *History of Physical Education.* Autumn, two hours; T. Th.

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., time arranged.

106-107. *Community Recreation.* A course intended to fill the need for recreational leadership among our young people. Intensive study of recreational problems among our youth. Two hours; time arranged.

111. *Physiology of Exercise.* The effect of exercise on the tissues, systems and organs of the body. Prerequisite: courses 11-12-13. Three hours; spring; M. W. F., time arranged.

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

*Not offered 1947-1948.

121. *Campcraft and Management.* A course to help in the preparation of competent summer camp leaders. Three hours; spring. Two lectures per week, with laboratory work in the form of Junior group leading on occasion; 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; time arranged.

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. Three hours; autumn, winter, spring. Prerequisite: senior standing. 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 of a brief consideration as outlined in the constitution and as developed to the present; also state and municipal governments. 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. Three credits; winter. Prerequisite: History 1-2-3.

*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

A minor is offered in Speech.

Requirements: Twenty-seven credits, including 1-2-3, and nine credits in the upper division.

Equipment: The speech department is equipped with a public address system, specially constructed studio and control rooms with facilities for broadcasting over a direct-line-hook-up to local radio station KUJ, and an RCA recording machine upon which each student is required to make a record of his voice at regular intervals. Radio Production students have access to sound equipment.

Speech Correction: Introductory work in speech correction for the elementary school teacher is offered. Private

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assistance in the diagnosis of and suggested medical treatment for personal speech defects and disorders is available by arrangement with the head of the Speech department.

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; Sec. C, T. Th., 8:25; Sec. D, T. Th., 10:15.

54. *Parliamentary Procedure.* The theory and practice of parliamentary law, with much participation by all class members. 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. 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 interpretation. Practice in memoriter reading. Prerequisite: four credits in speech. Two credits; spring; T. Th., 7:30.

85. *Voice and Diction.* Studies in the development of a well modulated, pleasing voice. Each student, by class observation of himself and the group, proceeds to eliminate the undesirable qualities of pitch, tone, accent, and other speech anomalies from his own voice while developing acceptable vocal production. Three credits; autumn; M. W. F., 1:00.

86-87. *Speech Correction for the Classroom Teacher.* A practical introduction to remedial speech work as it is used in the classroom. Opportunity is allowed for the student to observe and conduct group and individual therapy in the improvement and correction of speech disorders. Three credits; winter, spring; M. W. F., 1:00. Clinic time arranged.

UPPER DIVISION COURSES

*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.

151-152-153. *Radio Production.* A continued study of microphone technique, practice in announcing, and preparation and presentation of program for broadcasting. Prerequisite; Speech 1-2-3. Two credits; autumn, winter, spring. Membership limited. M. 3:15-5:15; Laboratory W., 3:15-5:15.

*Not offered 1947-1948.

167. *Radio Directing.* Practical experience in the direction and production of various types of radio programs. Assisting in the laboratory work for the Radio Production class. Prerequisite: Speech 151-152-153. Two credits; autumn; time arranged.

197-198. *Methods in Teaching Speech.* Experience in conducting speech laboratories in which the principles of teaching speech are studied. Two credits; autumn, winter; time 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.

8. *Survey of Physical Science.* This course is designed to furnish a brief outline of the fields of Chemistry, Physics, Earth and Astral sciences. Does not count toward a major or minor. Four credits; winter; M. W. F., 11:10. Extra hour arranged.

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

*81. *Denominational Accounting.* A beginning course in accounting principles with special attention to denominational offers; balance sheets; profit and loss statements, and comparative statements; financial stewardship in church business. This course is open to theology majors. Three credits; autumn; M. W. F., 8:25.

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. Conversation 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., time arranged.

*Not offered 1947-1948.

*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 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 Mohammedans against the Christian religion, are thoroughly studied. Two credits; autumn, winter, spring; T. Th., arranged.

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.

*Not offered 1947-1948.

PART IX

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 Dean.

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.

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. Many students prefer to specialize in Biblical languages. When this is done, the resulting 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 39.

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.

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 or Malay I	4	Greek or Malay I	4	Greek or Malay I	4
Freshman Comp.	3	Freshman Comp.	3	Freshman Comp.	3
History (European Survey or U. S.)	3	History (European Survey or U. S.)	3	History (European Survey or U. S.)	3
Basic Science	4	Basic Science	4	Basic Science	4
Physical Ed.	½	Physical Ed.	½	Physical Ed.	½
	16½		16½		16½

Second Year

Fundamentals of Christian Belief	2	Fundamentals of Christian Belief	2	Fundamentals of Christian Belief	2
Greek or Malay II	4	Greek or Malay II	4	Greek or Malay II	4
Electives	3	Electives	3	Electives	3
*Vocation	3	*Vocation	3	Health Principles	3
Speech I	2	Speech I	2	Speech I	2
News Writing or Church Music	2	News Writing or Church Music	2	News Writing or Church Music	2
Physical Ed.	½	Physical Ed.	½	Physical Ed.	½
	16½		16½		16½

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

Third Year

Daniel and Revelation	2	Daniel and Revelation	2	Daniel and Revelation	2
Hebrew Prophets	3	Hebrew Prophets	3	Hebrew Prophets	3
Church History or Late Middle Ages	3	Church History or Renaissance	3	Church History or Reformation	3
Homiletics and Field Seminar I	3	Homiletics and Field Seminar I	3	Homiletics and Field Seminar I	3
Speech II (See Speech Electives)	2	Speech II (See Speech Electives)	2	Speech II (See Speech Electives)	2
Denom. History	2	Denom. History	2	Denom. History	2
Elective	1	Elective	1	Elective	1
	16		16		16

Fourth Year

Systematic Theol.	3	Systematic Theol.	3	Systematic Theol.	3
New Test. Epistles	2	New Test. Epistles	2	New Test. Epistles	2
Homiletics II	3	Homiletics II	3	Homiletics II	3
World Religions	3	World Religions	3	World Religions	3
Electives (History or Education suggest.)	3	Electives (History or Education suggest.)	3	Electives (History or Education suggest.)	3
Evangelism	2	Evangelism	2	Evangelism	2
	16		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
Advanced Teachings of Jesus
Ancient Empires and Israel

Biblical Language
Pauline Epistles
Hebrew I
Hebrew II

History
Renaissance and Reformation
Religion in the United States

Methods
Research Methods
Bible Teaching Methods
Salesmanship

Mission Languages
Malay I
Malay II

Education
Students desiring certification may elect professional educational subjects as listed on page 53.

Speech
Persuasive Speaking
Public Lecturing
Radio Production
Parliamentary Procedure

General
Music
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.

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 a diploma is awarded. The course of study is so arranged that a fourth year of study may lead to the degree of Bachelor of Arts, by completing one of the majors required for this degree.

Outline of Course for Bible Instructors

First Year

Autumn Quarter	Credits
Life and Teachings	2
English	3
History	3
Home Economics	3
Modern or Ancient Language	5
Physical Education	½
	16½

Winter Quarter	Credits
Life and Teachings	2
English	3
History	3
Home Economics	3
Modern or Ancient Language	5
Physical Education	½
	16

Spring Quarter	Credits
Life and Teachings	2
English	3
History	3
Home Economics	3
Modern or Ancient Language	5
Physical Education	½
	16½

Second Year

Fundamentals of Christian Belief	2
Bible Workers' Evangelism	2
Education	3
Speech	2
Science	3-4
Physical Education	½
*Electives	3
	15½-16½

Fundamentals of Christian Belief	2
Bible Workers' Evangelism	2
Education	3
Speech	2
Health Principles	3
Physical Education	½
*Electives	3
	15½

Fundamentals of Christian Belief	2
Church Polity	2
Education	3
Speech	2
Science	3-4
Physical Education	½
*Electives	3
	15½-16½

Third Year

Daniel and Revelation	2
Homiletics II	3
Church History	3
Hebrew Prophets or New Test. Epistles	3 2
Denom. History	2
*Electives	3
	15-16

Daniel and Revelation	2
Homiletics II	3
Church History	3
Hebrew Prophets or New Test. Epistles	3 2
Denom. History	2
*Electives	3
	15-16

Daniel and Revelation	2
Homiletics II	3
Church History	3
Hebrew Prophets or New Test. Epistles	3 2
Denom. History	2
*Electives	3
	15-16

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

PART X

The School of Nursing

In recent years the level of nursing education has been steadily rising. 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 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 Sanitarium 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.

Requirements for the Degree of Bachelor of Science in Nursing

Sixteen quarters' work as prescribed in the Bulletin of the School of Nursing (write Frederick R. Hanson, Dean, School of Nursing, Walla Walla College, College Place, Wash-

ington for the bulletin) are required for graduation. Also, for graduation, a C average in the College Division and a C average in the Sanitarium Division is required. It is also required that all students must be successful in meeting the requirements for the R.N. degree before receiving the B.S. in Nursing.

OUTLINE OF BACHELOR OF SCIENCE 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
Zoology	4	Elective	7	Physics	4
*Elective	3	Physical Education	½	Elective	3
Physical Education	½			Physical Education	½
	16½		16½		16½

Second Year

Sociology	3	Sociology	3	Religion	3
Anat. and Physiol.	4	Anat. and Physiol.	4	Anat. and Physiol.	4
Nutrition Foods	3	Nutrition Foods	3	Educational Psy.	3
Organic Chem.	3	Microbiology	3	**Nursing Arts	5
Microbiology	3	Gen. Psy.	3		
	16		16		15

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

**Large classes may be divided into sections alternating with Ed. Psychology in the 5th and 6th quarters.

NOTE: For the courses to be taken on the campus of the Portland Sanitarium and Hospital consult the School of Nursing Bulletin.

PART XI

Engineering and Manual Arts

The College is offering courses leading to the Bachelor of Science degree with a major in engineering. The student has the option of concentrating his work either in the field of architectural and construction engineering or electrical and mechanical engineering. The work for the first two years is the same with specialization in the chosen area coming in the third and fourth years.

The following is the course outline for the Bachelor of Science degree with a major in engineering.

FIRST YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Bible	2	Bible	2	Bible	2
Freshman Comp.	3	Freshman Comp.	3	Freshman Comp.	3
Algebra	4	Trigonometry	4	Anal. Geometry	4
Inorganic Chem.	4	Inorganic Chem.	4	Inorganic Chem.	4
Mech. Drawing and Lettering	3	Mech. Drawing and Lettering	3	Descriptive Geo.	3
Physical Ed.	½	Physical Ed.	½	Physical Ed.	½
	16½		16½		16½

Note: Students who do not have solid geometry will be required to take it without credit during the freshman year.

SECOND YEAR

Bible	2	Bible	2	Bible	2
Physics	4	Physics	4	Physics	4
Calculus	4	Calculus	4	Calculus	4
Accounting	3	Economics	3	Surveying	4
Engineering Mater.	1	Engineering Mater.	1		
*Shop Work	2-3	Shop Work	2-3	Shop Work	2-3
Physical Ed.	½	Physical Ed.	½	Physical Ed.	½
	16½-17½		16½-17½		16½-17½

Major in Architectural and Construction Engineering

THIRD YEAR

Bible	2	Bible	2	Bible	2
Steam Boiler Prac. and Steam and Diesel Power	3	Heating and Air Conditioning	3	Sanitary Eng.	3
Differential Equa.	4	Differential Equa.	4	Adv. Calculus	4
Elec. Measurements	2	Direct and Alter. Mach. and Cir.	2	Direct and Alter. Mach. and Cir.	2
Carpentry	3	Carpentry	3	Carpentry	3
Elective	2-3	Elective	2-3	Elective	2-3
	16-17		16-17		16-17

*Students of architectural and construction engineering should take woodworking, Industrial Arts No. 61, 62, 63. Students of electrical and mechanical engineering should take Auto Mechanics No. 51, 52, 53.

FOURTH YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Bible	2	Bible	2	Bible	2
Theoretical Mech.	3	Theoretical Mech.	3	Applied Mech.	3
Struc. Eng. Design	3	Engineering Admin.	3	Reinforced Concrete Design	3
Arch. Design	3	Arch. Design	3	History of Arch.	2
History of Arch.	2	History of Arch.	2	Elective	3-4
Elective	3-4	Elective	3-4		
	16-17		16-17		16-17

Major in Electrical and Mechanical Engineering

THIRD YEAR

Bible	2	Bible	2	Bible	2
Steam Boiler Prac. and Steam and Diesel Power	3	Heating and Air Conditioning	3	Sanitary Eng.	3
Elec. and Magnetism	4	Electronics	4	Atomic Physics	4
Elec. Measurements	2	Electronics Lab.	2	Atomic Physics Lab.	2
Machine Shop	3	Machine Shop	3	Machine Shop	3
Electives	2-3	Electives	2-3	Electives	2-3
	16-17		16-17		16-17

FOURTH YEAR

Bible	2	Bible	2	Bible	2
Theo. Mechanics	3	Theo. Mechanics	3	Applied Mech.	3
Direct and Alter. Current Mach., Circuits	4	Direct and Alter. Current Mach., Circuits	4	Direct and Alter. Current Mach., Circuits	4
Machine Design	2	Elec. Design	2	Power House Design	2
Struc. Eng. Design	3	Eng. Adm.	3	Reinf. Conc. Design	3
Electives	2-3	Electives	2-3	Electives	2-3
	16-17		16-17		16-17

ENGINEERING

Mr. Cross, Mr. Von Pohle

1, 2. *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 representations of threads, fasteners, standard parts; detail and assembly drawings. Three credits; autumn, winter; S. T. Th., 2:00-5:00.

3. *Descriptive Geometry.* Basic projection principles for points, lines, and planes; representation and graphical solutions of related problems; sections, developments and intersections of various surfaces and solids. Applications to practical engineering problems, with emphasis on visualization and analysis. Three credits; spring; T., 2:00-5:00.

11, 12. *Engineering Materials.* Materials of construction—lime, cement, stone, brick, sand, timber, ores, cast iron, wrought iron, steel, non-ferrous metals and alloys; chemical and physical properties, uses, testing methods, unit stresses; behavior in tension, compression, torsion, shear, bending. One credit; autumn, winter; Th., 9:20; laboratory arranged.

23. *Surveying.* Measurement of distances; use and adjustment of transit and level; systematic methods for notes and computations; measure-

ments of angles; transit traverse, stadia survey; differential and profile leveling, contours; land surveying and mapping. Four credits; spring; lectures, T. Th., 10:15. Field work, S., 1:00-4:00; Th., 2:00-5:00.

101. *Steam Boiler Practice, Steam and Diesel Power.* Performance characteristics and design features of steam generators, prime movers, condenser and feedwater 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. Three credits; autumn; M. W. F., 11:10.

102. *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. Three credits; winter; M. W. F., 11:10.

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., 11:10.

122, 123. *Elementary Direct and Alternating Current Machinery and Circuits.* An abridged treatment of material of 131, 132, and 133. Two credits; winter, spring; T. Th., 8:20; laboratory, T. 2:00-5:00.

131, 132, 133. *Advanced 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. Four credits; autumn, winter, spring; M. W. F., 7:30; laboratory, Th., 2:00-5:00.

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, construction, lubrication, safety, and cost. Calculations, layout and detail drawings as required. Two credits; autumn; M. W., 2:00-5:00.

142. *Electrical Design.* Specifications, calculations, design of electrical machines and equipment. Two credits; winter; M. W., 2:00-5:00.

143. *Power House Design.* Central station and industrial power plants; heat balances, plant layout, piping layout, selection of equipment. Two credits; spring; M. W., 2:00-5:00.

161. *Structural Engineering Design.* Elementary structural analysis; design of simple steel structures; beams, columns, base plates, connections, bearing plates, purlins, girts, lintels, portals, roof trusses, bents, anchor bolts, bolts, rivets, tension and compression members. Steel design for a small building. Three credits; autumn; M. W. F., 10:15.

162. *Engineering Administration.* Preparation of contracts and specifications; advertising, bidding procedures, bonds, claims, arbitration. Office organization and management; personnel problems, preparation of drawings, field supervision, bookkeeping and cost accounting, forms, orders, fees, commissions. Three credits; winter; M. W. F., 10:15.

163. *Reinforced Concrete Design.* Forms, mixtures, posts, beams, slabs, T-beams, surfaces, formulae, and working stresses. Three credits; spring; M. W. F., 10:15.

171, 172, 173. *Architectural Design.* Laboratory course in the design of buildings, 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. Three credits; autumn, winter, spring; S. M. W., 2:00-5:00.

181, 182, 183. *History of Architecture.* Brief survey of the history of architecture; Babylon, Egypt, Greece, Rome, the orders, Gothic, Renaissance, origin and development of present-day buildings. Two credits; autumn, winter, spring; T. Th., 11:10.

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 in the former consists of 45 credits, 21 of which must be upper division. Required courses consist of basic requirements for graduation as listed on page 46 and also the following: Mathematics 1, 2, 3; Physics 51, 52, 53; Engineering 1, 2, 3; and 171, 172, 173; Industrial Arts 4-5; 29-30-31; 35-36-37; 43; 81, 82, 83; 123-124; 131; and Home Economics 122. A minor of 27 hours is to be selected. (A business minor is recommended).

A major in the latter option consists of 45 credits, 21 of which must be upper division, as listed in the schedule to follow. This list includes a minor in Education.

AUTO MECHANICS

Mr. Cowin

1, 2, 3. *Automotive Essentials.* Practical study of the automobile, to acquaint the student with terminology and how the units of the automobile work. No laboratory. Two credits; autumn, winter, spring; T. Th., time arranged.

*7, 8, 9. *Body and Fender.* Preliminary body and fender works; automotive painting. Three credits; autumn, winter, spring; time arranged.

51, 52, 53. *Elements of Auto Mechanics.* A study of the details of modern automobile engines, clutches, transmissions, brakes, differentials, steering systems, ignition, carburetion, etc., with practical experience in adjusting and servicing. Bench and floor work will be stressed. Stu-

*Not offered 1947-1948.

dent should have $30 worth of hand tools. One hour recitation and one hour instruction at garage. Five hours per week laboratory. Three credits; autumn, winter, spring; T. Th., 7:30; Lab., M., 2:00-5:00; W., 2:00-4:00; (limited to 15 students).

*57, 58, 59. *Advanced Body and Fender.* Frame straightening, wheel alignment, body straightening, glass installation, acetylene and electric welding. Three credits; autumn, winter, spring; time 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.

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

81. *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 pipefitting, radiation, conduction, and convection. Pipe insulation materials and their application. One hour lecture and three hours laboratory. Two credits; autumn; W., 2:00-5:00; Th. 7:30.

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

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

*102. *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 esti-

*Not offered 1947-1948.

mate making. Estimating will be based on cost analysis figures accumulated from many previous jobs. Two credits; winter; T. Th., 8:25.

*103. *Masonry Techniques.* A course devoted to the consideration of the various materials used in brick laying 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

Mr. Quade, Mr. Cowin

4-5. *Welding and Forging.* Bending, shaping, upsetting, and welding of iron; hardening and tempering steel; brazing; elementary acetylene and electric welding; care of equipment. One hour lecture and three hours laboratory. Two credits; autumn, winter; M., 1:00-5:00; T., 7:30; 8:25.

71, 72, 73. *Machine Shop Practice.* A course in practical machine shop practice which will include textbook work and assigned projects in metal working on the lathe, shaper, and milling machine. Two or three credits; autumn, winter, spring; Sec. A, M. W., 1:00-5:00; Sec. B, T. Th., 1:00-5:00.

*101. *Sheet Metal.* Ductwork for heating, ventilating and air conditioning. Cornice work, gutters, flashings, skylights, marques. Special attention will be given to the fundamental principles that underlie the art and science of pattern drafting. Prerequisite: Eng. 1, 2, 3. One hour lecture, three hours laboratory. Two credits; autumn; T., 9:20. Laboratory, T., 2:00-5:00.

PRINTING

Mr. Collins

Printing 23-24-25 and 91-92-93 are required of students minoring in journalism.

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.

PHOTOGRAPHY

*15. *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., 11:10. Laboratory, T. Th., 2:00-5:00.

*Not offered 1947-1948.

WOODCRAFT

Mr. Walcker

26, 27. *Industrial Arts.* A course designed specifically for the elementary teacher training student. Its objectives are content, methods, and skills which are required in teaching woodwork in the elementary grades. These objectives are attained by classroom and project laboratory instruction. Class is limited to fifteen students. Material ticket required. Three credits; autumn or winter; T., 7:30. Laboratory, T. W., 2:00-5:00.

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. Text-book 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.,7:30. Laboratory, W., 2:00-5:00.

35-36-37. *Cabinet Making I.* Special stress is laid on good construction, good design, and exactness in all work. Care and use of tools, sharpening tools, original designs, glue and its uses, and properties of wood and finishing. By the end of the first quarter, at the discretion of the instructor, the student may use power tools. End tables, cedar chests, flower stands, cabinets and other approved projects may be made during the school year. Material ticket required. Two credits; autumn, winter, spring; T., 9:20. Laboratory, M., 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.

116-117-118. *Cabinet Making II.* Machine woodworking, furniture design, saw filing, installation and maintenance of woodworking machinery. A high degree of excellence is required in the furniture made by the members of this class. Material ticket required. Prerequisite: Cabinet Making I. Two credits; autumn, winter, spring; Th., 9:20. Laboratory, Th., 2:00-5:00.

122. *Interior Decorating.* (See Home Economics).

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.

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.

131. *Wood Finishing.* Stains, fillers, paints, enamels, varnishes, kalsomine, with their application and use. Selection and care of brushes and equipment. Particular study of color combinations and pleasing tone. Two credits; winter; T. Th., 8:25.

132. *Furniture Design.* Period styles of furniture, decorative arts, spot and line composition, functional design, and proportion. Original designs aimed at combining usefulness and structural excellence with beauty and grace of form. Prerequisite: Engineering 1, 2, 3. Two credits; autumn; T. Th., 8:25.

142, 143. *Problems in Cabinetmaking.* Special projects for advanced students. Prerequisite: I.A. 116-117-118. Material ticket required. Credits and time arranged.

151. *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.

152. *Shop Administration and Teaching Techniques.* This course fulfills the special methods requirement for certification. A study of the functional organization and detail operation of the school shop. Phases to be considered include: plant layout, physical and personnel organization, course construction and class procedures. Senior standing. Three credits; winter; M. W. F., 8:25.

*153. *Tests and Measurements for Industrial Arts.* A study of test construction and administration as applied to the school shop program. Senior standing. Three credits; spring; M. W. F., 8:25.

Outline of Courses

The following schedule outlines the 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	Mathematics	4
Carpentry I	3	Carpentry I	3	Carpentry I	3
Engineering Drawing	3	Engineering Drawing	3	Engineering Drawing	3
Welding and Forging	2	Welding and Forging	2	Woodturning	2
	17½		17½		17½

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
Cabinet Making I	2	Cabinet Making I	2	Cabinet Making I	2
Machine Shop	2	Machine Shop	2	Machine Shop	2
Heat. Prac.	2	Prac. Elec.	2	Plumbing Prac.	2
Elective	2	Elective	2	Elective	2
	16½		16½		16½

Third Year

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Health Prin.	3	Bible	3	Bible	3
Interior Decorating	2	Carpentry II	2	Carpentry II	2
Ele. of Auto Mech.	3	Ele. of Auto Mech.	3	Ele. of Auto Mech.	3
Wood Turning	2	Wood Finishing	2	Furniture Design	2
Physics	4	Physics	4	Physics	4
Elective	1	Elective	1	Elective	1
	15		15		15

Fourth Year

Bible	2	Bible	2	Bible	2
Cab. Making II	2	Cab. Making II	2	Cab. Making II	2
Tech. of Sec. Subjects	2	Sec. School Adm.	3	Student Teaching	3
Adol. Life and Guid.	3	Student Teach.	3		
Arch. Drawing	3	Arch. Drawing	3	Arch. Drawing	3
History and Phil. of Industrial Arts	3	Shop Adm. and Teach. Tech.	3	Tests and Meas. for Industrial Arts	3
Elective	1			Elective	3
	16		16		16

Students who are interested in using the Arts in a commercial way will pursue the 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 Estimat.	2	Masonry	2
Carpentry II	2	Carpentry II	2	Carpentry II	2
Wood Finishing	2	Electives	3	Electives	3
Electives	1				
	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	3	Arch. Drawing	3	Arch. Drawing	3
Struc. Eng. Design	3	Eng. Adm.	3	Reinf. Conc. Design	3
Elective	3	Elective	3	Elective	3
	16		16		16

PART XII

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—1946-1947

Students in College Department	1095
Special Students	48
TOTAL	1143
Summer School, 1946	271
GRAND TOTAL	1414

PART XIII

Graduates of 1946

BACHELOR OF THEOLOGY

Lester Levi Bennett
Walter Blehm
Lowell L. Bock
Ernest L. Broder
Rose Marie Budd
Howard Francis Cameron
Delmar Luverne Clarambeau
Robert C. Coffeen
Willis Alvin Coffeen
Robert Arnold Collins
Harold Edward Dawes
Robert Errett Dunton
Bert Elkins
Eugene Wallace Erickson
Donald L. Gray
Gerald E. Hibbard
Alva Maurice Karolyi
Ronald G. Kegley, Jr.
Earl Thomas Lee
Frank T. Munsey
Richard Necker
Burton D. Ramsay
Lester Rasmussen
Bertis Ray Ritz
Kenneth W. Smith
Llewellyn Lester Smith
Lloyd E. Stephens
Donald Bruce Spaulding
Jewell Ilene Tucker
Claris F. Way

BACHELOR OF ARTS

Willis Howell Bruce
Jerald Evern Budd
Edwin Alfred Cafferky
George L. Chalker
Harriet A. Danner
Omer H. Drury
Louise Anderson-Elkins
Margaret Ann Force
Harold A. Funk, O.D.
Alan C. Greenway
Bette Ardelle Hackett
Edward John Horsley
Thelma Lunette Johnson
Ralph L. Koorenny
Merrill Duane Mathiesen
Ada Ilene Maxson
Lloyd Albert Meade
Gladys Eleanor Morton

BACHELOR OF ARTS (Continued)

Muriel Elaine Myers
Vernon Marshall Parrett
Eugene Harold Quade
Alice Bresee-Rasmussen
Retta Jean Rippey
Richard Martin Ritland
Helen Pearl Robinson
Oswald Lafeyette Robinson
Kathleen A. Sanderson-Schaefer
Elwood Sherrard
Sarah Almeda Skillman
Marion Austin-Tappen
James Lloyd Webster
Ray Dwain Wilson

BACHELOR OF ARTS IN ELEMENTARY EDUCATION

Maxine Esther Beddoe
Velma Rice Fehlberg
Evelyn Alice Isaac
Cecile R. Johnson
Frances Louise Kimball
Pauline Beeks-Koorenny
Alyce Lucille Mills
Jeanne Morrison
Shirley A. Olson
Hyretha Avis Thompson
Margaret Evelyn Turner
Elvira Mae Whiting

BACHELOR OF SCIENCE

Helen Virginia Lee

BACHELOR OF SCIENCE IN MANUAL ARTS

Stanley G. Sargeant
Jake J. Walcker

BACHELOR OF SCIENCE IN NURSING EDUCATION

Esther Marie DeVoir
Julia Evelyn Johnson
Verna Viola Zornes
Vera LaRene Warren

PRE-MEDICAL

Raymond J. Bungard
Delmont Emery
Edward Lemuel Esteb
Edward John Horsley
Charles Alvin Kirkpatrick
Calvin Arthur Olson
Franz H. Siemsen

BIBLE INSTRUCTOR

Ferol Kellogg Spaulding

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