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Walla Walla Gullege



## Walla Walla College



Graduate Bulletin 1970-71

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## WALLA WALLA COLLEGE GRADUATE BULLETIN '70-'71

## The College is Accredited by

The Northwest Association of Secondary and Higher Schools

The Washington State Board of Education

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

National Association of Schools of Music

## is a member of

Association of American Colleges

Association of Seventh-day Adventist Colleges and Secondary Schools

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American Council on Education National Commission on Accreditation

American Association of Colleges for Teacher Education

## is approved by

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

The Attorney General of the United States for nonimmigrant students

Washington State for training in Vocational Rehabilitation

## FOR INFORMATION

Concerning general information, bulletins, application blanks, view-books, student handbooks, write

The Registrar

Concerning the graduate programs, teaching and research assistantships, special credentials, write

> Chairman, The Graduate Council or Chairman, Department involved

Concerning work, financial arrangements, and apartments, write Director, Student Finance

Concerning room reservations and other matters of residence, write

The Dean of Men or

The Dean of Women

WALLA WALLA COLLEGE College Place, Washington 99324

Telephone Walla Walla JAckson 5-7560 Area Code 509

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## CALENDAR, 1970-1971

## AUTUMN QUARTER

September 20, 21	Registration
September 22, Tuesday	. Instruction begins, 7:30 a.m.
October 6, Tuesday	. Last day to add a course
October 25	Graduate Record Examinations
November 25, 1:30 p.mNov. 29, 10:00 p.m.	
November 30-December 4	Registration for Winter Quarter
December 17, 1:30 p.m	Quarter Ends
December 18-January 3, 10:00 p.m.	

## WINTER QUARTER

January 4, 5	Registration of New Students
January 4, Monday	Instruction begins, 7:30 a.m.
	Last day to add a course
	Registration for Spring Quarter
	Quarter Ends
	Spring Recess
March 22	Last day to file master's degree order form

## SPRING QUARTER

March 24, 25		Registration of New Students
March 24, Wednesday .	A WALLA CO	Instruction begins, 7:30 a.m.
April 7, Wednesday	HE ENGL WASHIN	. Last day to add a course
May 22 L	ast day to comple	te final master's examinations
June 4	NO OSSAE	Consecration
June 5		
June 6	YOAGIGWAD 10	Quarter Ends
June 6		Commencement

## SUMMER SCHOOL, 1971

June 13-August 8	
June 13	. Last day to file master's degree order form
July 23	Last day to complete final master's examinations
August 8	Commencement

## THE DIRECTORY

## **BOARD OF TRUSTEES**

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GORDON S. BALHARRIE, B. D.	Dean, School of Theology
WILMA L. LEAZER, M. S.	Dean, School of Nursing

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RICHARD A. BECK, B. A.	Director, Student Finance
Lois M. Hellie, B. A.	Chief Accountant
JIMMIE D. LOSEY, M. D.	
GLENN W. MASDEN, M. S. E. E.	Coordinator, Data Processing

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## THE FACULTY

#### BIOLOGY

- RIGBY, DONALD W., Professor of Biology, Department Chairman
  B. A., 1950, La Sierra College; M. A., 1956, Walla Walla College; Ph. D., 1967, Loma Linda University
- CLAYTON, DALE L., Assistant Professor of Biology B. A., 1962, Andrews University; M. A., 1964, Loma Linda University; Ph. D., 1968, Michigan State University
- Forss, Carl, Associate Professor of Biology
  B. A., 1958, Walla Walla College; M. A., 1959; Ph. D., 1965, Oregon State University
- Grable, Albert, Associate Professor of Biology
  B. S., 1959, La Sierra College; M. S., 1962, Ph. D., 1964, University of Minnesota
- PERRY, ALFRED E., Associate Professor of Biology
  B. A., 1953, Walla Walla College; M. A., 1958, Walla Walla College; Ph. D., 1965, Oklahoma State University

## **EDUCATION AND PSYCHOLOGY**

- CHACE, E. STANLEY, Professor of Education, Department Chairman
  B. Th., 1948, Atlantic Union College; M. Ed., 1958, University of Chattanooga; Ed. D., 1960,
  University of Tennessee
- GIBBONS, C. KEITH, Assistant Professor of Education
  B. A., 1960, M. A., 1966, Walla Walla College; Ed. D., 1969, University of Idaho
- HINGLEY, ROY A., Instructor in Education
  B. Th., 1962, Canadian Union College; M. A., B. D., 1965, Andrews University; M. A., 1968, Arizona State University
- MABERLY, NORMAN C., Professor of Education

  B. Th., 1952, Walla Walla College; M. A., 1954, Andrews University; Ed. D., 1962, University of Southern California
- of Southern California
  OCHS, HAROLD T., Assistant Professor of Education
- B. A., 1950, Walla Walla College; M. Ed., 1957, Eastern Washington State College

  PHILLIPS, HOLLIBERT E., Assistant Professor of Education

  B. A., 1960, University of London; M. A., 1964, Andrews University; Ed. D., 1970, Boston University
- TEEL, LOIS FLORETTA, Associate Professor of Education
  B. A., 1947, Emmanuel Missionary College; M. Ed., 1959, University of Oregon
- WAGNER, DALE O., Assistant Professor of Education
  B. A., 1952, Walla Walla College; M. A., 1958, Eastern Washington State College

## SUPPORTING DEPARTMENTS, CHAIRMEN

- BARNETT, CLAUDE C., Professor of Physics

  B. S., 1952, Walla Walla College; M. S., 1956, State College of Washington; Ph. D., 1960, Washington State University
- CROSS, EDWARD F., Professor of Engineering
  M. E., 1929, Stevens Institute of Technology; M. A., 1938, Columbia University; P. E., 1948, Washington; P. E., 1952, Oregon
- DICKINSON, C. LOREN, Associate Professor of Speech
  B. A., 1957, Union College; M. A., 1960, University of Nebraska; Ph. D., 1968, University of Denver
- EVANS, HELEN WARD, Professor of English
  B. A., 1949, Walla Walla College; M. A., 1955, Ph. D., 1965, Stanford University

- HARE, GORDON B., Professor of Mathematics
  - B. A., 1951, Columbia Union College; M. S., 1954, Ph. D., 1964, University of Colorado
- HENDERSON, ROBERT A., Associate Professor of History
  - B. A., 1962, Walla Walla College; Ph. D., 1967, Washington State University
- JONES, CARL T., Professor of Chemistry
  - B. A., 1933, Columbia Union College; M. S., 1939, Catholic University of America; Ph. D., 1959, Oregon State College
- MEHLING, J. G., Professor of Business and Economics
  - B. B. A., 1934, Walla Walla College; M. A., 1947, University of Washington; C. P. A., 1947, State of Washington
- Moore, Roberta J., Professor of Journalism
  - B. A., 1948, Atlantic Union College; M. A., 1953, Boston University; Ph. D., 1968, Syracuse University
- WINTER, EUGENE S., Professor of Physical Education
  - B. A., 1941, Walla Walla College; M. S., 1948, State College of Washington; Ph. D., 1963. University of Oregon

# GENERAL INFORMATION

 $W_{\mathtt{ALLA}}$  Walla College is a Christian institution of higher learning operated by the Seventh-day Adventist Church.

The College is located in the City of College Place in the historic, fertile Walla Walla valley of southeastern Washington. The old Oregon Trail near the campus leads to the site of the old mission which was directed by Marcus Whitman from 1836 to 1847, and which has been reconstructed by the federal government as the Whitman Mission. The scenic Blue Mountains to the east are but a few minutes' drive from the campus and offer unusual opportunities for recreation and relaxation.

The principal objectives of the College are the fostering of an intelligent understanding and devotion to Christian ideals, loyalty to God and service to humanity, and the offering of an educational experience encouraging the formation of character marked by a full, harmonious development of the intellectual, physical, and spiritual powers.

The seventh-day sabbath is observed at Walla Walla College from sunset Friday to sunset Saturday. No instructional activities are conducted during these hours.

## ACCREDITATION

The College is accredited by the Northwest Association of Secondary and Higher Schools and the Washington State Board of Education and is a member of the American Association of Colleges for Teacher Education, Association of American Colleges, Association of Seventh-day Adventist Colleges and Secondary Schools, and the American Council on Education National Commission on Accreditation.

#### DEGREES OFFERED

The College offers courses of study leading to the Master of Arts and Master of Education degrees. The former degree is a thesis program and the latter is a non-thesis program.

#### **ADMINISTRATION**

The master's degree programs are directed and supervised by the Graduate Council, which is the legislative body responsible for the formulation of all graduate academic policies and curricula.

#### GRADING SYSTEM

The following system of grades and grade-point values is used in graduate studies:

A—	4 grade points per credit
B	and 3
C-	2
D-	1
F_	0

## GRADUATE FACILITIES

## Life Sciences Complex

The Department of Biology facilities in the Life Sciences Complex completed in 1967 include staff and graduate student offices, classrooms, and teaching laboratories, controlled environment rooms and chambers, radioisotope laboratory, animal and greenhouse complexes, photographic darkroom, museum, and a shop.

## Marine Biological Station

Additional Department of Biology facilities occupy 40 acres of beach and timberland at Rosario Beach adjoining Deception Pass State Park, Anacortes, Washington. The physical plant includes four laboratory buildings, a cafeteria, an assembly hall, shop, and 29 cabins for student and staff housing.

#### Smith Hall

The Department of Education is housed in a modern, air-conditioned, three-story building. Facilities include offices for staff and graduate assistants, laboratories for testing, psychology, and audio-visual productions, observation rooms, a tiered lecture hall, a curriculum library, classrooms and seminar rooms, and an audio-visual and instructional materials center containing workrooms, a photographic darkroom, an offset pressroom, and a closed circuit television center.

#### Library

The College Library is a vital part of the educational program at Walla Walla College. The main library building was completed in 1944 and remodeled in 1964. Reading room accommodations, the open-shelf system, seminar and conference rooms, and a modern, comfortable, periodical room contribute to the study and enjoyment of books and journals. Microfilm and microcard readers make microfilms of scholarly material accessible. The curriculum library, located in Smith Hall, contains a large selection of textbooks, children's literature books, a collection of over 3,000 mounted pictures, filmstrips, tapes and phonorecords. The combined libraries contain in excess of 100,000 volumes. An average of 5,600 volumes is accessioned annually. There are about 980 current periodicals received regularly. Resources in other libraries are available to students and faculty members through the library's membership in the Pacific Northwest Bibliographic Center which serves as a clearinghouse for interlibrary loans.

## FINANCIAL INFORMATION

## Payments Required to Register

An advance payment of \$250 plus any balance due from a previous quarter shall be paid at the time of registration. Part-time students shall pay the full tuition charge in advance if less than \$250.

### **Tuition**

1-12 credits

\$38 (per credit)

The tuition includes all laboratory fees and a registration fee; and for students registered for six or more credits, it includes Student Association, student insurance, and lyceum tickets.

Regular tuition is charged for auditing classes and triple tuition is charged for individual tutoring.

## Special Fees

Degree, Master's \$25 Degree, Master's in absentia 35

## Refunds

A student withdrawing from classes during the quarter will receive the following tuition refunds:

> 90% during first week of quarter 75% between first and third weeks 50% between third and sixth weeks No tuition refunded after sixth week

## Graduate Assistantships

A limited number of graduate assistantships are available to provide students with an opportunity for professional experiences in their chosen fields of specialization or in activities that may be valuable in preparing them more fully for their future occupational roles.

Assistantships are open to both men and women with evidence of sufficient maturity and potential to benefit from the program. Applications will be considered from prospective graduate students, postgraduates, and those already admitted as regular graduate students. The stipends are awarded for periods up to 12 months, plus full remission of tuition and fees for approved courses during the period of the assistantship.

Duties of an assistant may include participation in research, instructional and guidance services, and professional activities. Application forms for graduate assistantships may be obtained by writing directly to the chairman of the Department of Biology or to the chairman of the Department of Education and Psychology. Applications must be submitted before April 15.

#### Loans

The following loan funds are recommended and applications may be obtained from the Student Finance Office:

California State Scholarship and Loan Commission: California State residents may borrow up to \$1,000 per year under this plan, if they are

accepted for enrollment or are enrolled in good standing and carrying a full-time course of study. Applications are available in the Student Finance Office, or may be obtained from California State Scholarship and Loan Commission, 520 Capitol Mall, Sacramento, California 95814.

Federally Insured Loans: Many banks are offering the Federally Insured Loans to college students. These are long-term, low-interest loans that need not be repaid until a student completes his course of study. Consult the loan officer of your bank for additional information.

National Defense Education Loan: National Defense Education Loan is made available through the federal government and Walla Walla College. Repayments begin after the applicant's student status terminates. Applications for this aid must be received in the Student Finance Office no later than August 15, 1970.

Oregon State Scholarship Commission: Oregon State residents may borrow up to \$1,000 per year under this plan, if they are accepted for enrollment or are enrolled in good standing and carrying a full-time course of study. Applications are available in the Student Finance Office, or may be obtained from Oregon State Scholarship Commission, P.O. Box 3175, Eugene, Oregon 97403.

United Student Aid Fund: Arrangements can be made through Walla Walla College and your local bank to obtain funds at a low rate of interest. These funds can be obtained without collateral and are repaid after graduation. Not all banks participate in this program. You should consult the loan officer of your bank for their policies regarding this loan fund.

## GRADUATE PROGRAM

Master's degree programs are offered in the Department of Biology, and in the Department of Education and Psychology. Graduate study is planned in reference to the student's experience, future objectives, personal qualifications, and previous academic preparation. The importance of careful planning and close cooperation between the student and his assigned adviser is emphasized.

#### OBJECTIVES OF THE GRADUATE PROGRAM

The program provides an atmosphere which stimulates intellectual curiosity and independent thinking. It strives to develop an appreciation of the value of research and an acquaintance with basic research techniques. It endeavors to strengthen the professional competence of the individual in his area of specialization.

## ADMISSION TO GRADUATE STUDY

Applicants for admission to graduate study shall have been graduated from a recognized four-year college or university and should have completed a basic background of undergraduate work in the proposed field of graduate study. Applicants without such a background should expect to make up deficiencies.

The applicant must file completed graduate application forms and two official transcripts of all work taken on the collegiate level with the Registrar of the College at least three months prior to the quarter in which graduate study is to commence. Failure to do so may result in delay in admission and registration. All forms and transcripts submitted for admission become the property of the College and are not returned. Admission forms are available from the Registrar's Office.

Eligibility for admission as a graduate student is determined by the Graduate Council of the College upon the recommendation of the Biology or Education and Psychology departments.

## Admission Requirements for the Master's Degree Program

In addition to an acceptable baccalaureate degree, applicants for admission to a graduate degree program must have the following:

1. A satisfactory score on the *Graduate Record Examination: Aptitude Test*, or on other tests approved by the Graduate Council. Applicants in biology must also have taken the *Graduate Record Examination: Advanced Test in Biology*. The results of these examinations are to be submitted with the application for admission.

 A minimum cumulative grade-point average of 2.75 on either the last 96 credits toward the baccalaureate degree or on the total under-

graduate program, whichever is higher.

An applicant whose undergraduate grade-point average is below 2.75 may be admitted if there is other evidence of ability to pursue the graduate degree. Such evidence may include one or more of the following: performance on the Graduate Record Examinations, strong professional recommendations, postgraduate work at a recognized institution, experience in areas related to the desired graduate specialization, or other criteria established by the departments concerned.

A student who meets the requirements for admission to the master's degree program but who registers only as a postgraduate has no assurance

that credits earned will later apply toward the master's degree.

## Admission Requirements for the Non-Degree Program

Graduates of an accredited college or university may be admitted as postgraduate students to take courses toward certification, the fifth year, special credentials, or additional course work. These credits may not apply to a master's degree.

#### Graduate Credit for Seniors

Seniors whose programs for graduation have been approved and who otherwise meet the admission requirements of the graduate division may be permitted to take graduate courses if their programs will allow it.

## GENERAL DEGREE REQUIREMENTS

## Responsibilities of the Student

The graduate student is responsible for a knowledge of all regulations and procedures as published in this bulletin. The student must assume the initiative in such matters as arranging for required tests and examinations, securing approval of his program of study, and following all procedures in their proper sequence. Failure to do so may result in unnecessary delay or interruption of graduate study.

## Residence and Time Requirements

A minimum of 45 quarter credits is required, at least 33 of which must be earned while in residence.

Credits older than six calendar years may not be used to satisfy degree requirements.

## Course Requirements and Scholarship

The completion of a minimum of 45 quarter credits in approved graduate courses with a cumulative grade-point average of at least 3.00 is required. Grades of all courses on the graduate program excluding deficiencies will be computed in the grade-point average.

Courses numbered 500 or above are primarily for graduate students. A minimum of 24 credits must be earned in courses numbered 500 or above for the Master of Arts degree. A minimum of 30 credits is required in courses numbered 400 or above for the Master of Education degree. Courses numbered 400 to 499 are open to both undergraduate and graduate students. Courses numbered 350 to 399 may be included in the graduate program on approval of the Graduate Council.

## **Departmental Requirements**

Candidates for a master's degree must also satisfy additional departmental requirements as listed in this bulletin under the section Departments of Instruction.

## PROGRAM OF STUDY

The chairman of the department will provide assistance for the student in selecting the courses for the first quarter in residence and in planning the program of study for the degree. Immediately after the completion of a minimum of 12 quarter credits of graduate work and in conference with the department adviser, a proposed program of graduate study shall be submitted to the Graduate Council. Approval of the program and advancement to master's degree candidacy will be officially acknowledged by a letter from the chairman of the Graduate Council.

#### Course Load

The normal load is 12 credits per quarter. Any course load above this amount must be approved by the Graduate Council.

## Changes in Registration

Students withdrawing from college or individual courses must file an official drop voucher with the Registrar's Office. Withdrawal slips must be signed by the adviser and the instructor involved. The final date for dropping a class is the last formal class meeting prior to the scheduled final examination for that class. Students doing passing work prior to withdrawal will receive a W (withdrawal). Students doing failing work at the time of withdrawal will receive a Wf (withdrew failing). Students withdrawing from all classes during the quarter will receive W's. Both grades, W and Wf, appear on the transcript but do not affect cumulative grade-point average.

#### Transfer of Graduate Credit

A maximum of 12 quarter credits of graduate work taken at other recognized institutions may be approved for transfer toward the master's degree. These credits may be by extension if acceptable toward the master's degree at the school offering the extension work. Correspondence credit or credit by examination is not accepted.

#### Bulletin

The student's degree candidacy must be based on the graduate bulletin in effect at the time the proposed program for graduate study is approved by the Graduate Council.

## ADVANCEMENT TO DEGREE CANDIDACY

Admission to graduate study merely constitutes permission to register for course work. It does not imply degree candidacy.

A student may be advanced to master's degree candidacy by fulfilling the following conditions:

- Complete 12 to 15 credits of approved graduate work with a minimum grade-point average of 3.00. If grade points earned on these credits do not average 3.00, advancement to candidacy will be denied and any subsequent work will not apply toward the master's degree.
- 2. Arrange for the removal of any undergraduate deficiencies.
- Submit the "Application for Degree Candidacy and Proposed Program of Courses" form to the department chairman outlining a master's degree study program approved by the department concerned.
- 4. Secure approval of the proposed program by the Graduate Council.

Advancement to master's degree candidacy indicates that the Graduate Council and the departments concerned encourage the candidate to complete the master's degree. The degree is granted only after successful completion of the approved program of studies within the regulations of the College.

## Changes in Program

Changes in the proposed program may not be made without the prior approval of the department chairman, registrar, and chairman of the Graduate Council.

## THESIS REQUIREMENT

A thesis demonstrating ability to conduct research in a systematic and scholarly manner must be presented by a candidate for the Master of Arts degree. The thesis is planned with and approved by the student's advisory committee. Completion of the thesis must be in accordance with the requirements of each department.

Approved copies of the completed thesis are kept on permanent file in the college library and in the respective departments.

#### FINAL EXAMINATIONS

Master's degree candidates must pass a written and/or oral examination administered by an examining committee. The nature of further examination, if required, is to be determined by the examination committee. A representative of the Graduate Council, who is not a member of the candidate's advisory committee, attends each oral examination.

## **Examination Regulations**

- Examinations should be completed at least two weeks before commencement.
- 2. It is the candidate's responsibility to schedule his examination with the department chairman.
- The examination is conducted by the chairman of the candidate's advisory committee. Success or failure in the examination is determined by the examining committee.

- Questions in the examination will be based upon the candidate's thesis and/or areas of study.
- 5. The time allowed for the examination is ordinarily not more than two hours.
- 6. Any candidate who fails the examination may be granted only one opportunity by the examination committee to retake his final examination after a lapse of at least one quarter.

## CONFERMENT OF DEGREE

The candidate must file in duplicate the order form for the master's degree with the Registrar's Office prior to the beginning of the final quarter.

Students are required to participate in the graduation exercises. In special cases permission to receive the master's degree *in absentia* may be granted by the President of the College.

# DEPARTMENTS OF INSTRUCTION

## **BIOLOGICAL SCIENCES**

The Department of Biology offers a Master of Arts degree in biology. Courses are offered in zoology and botany on the main campus and at the Marine Biological Station near Anacortes, Washington. Supporting areas may be required to complete the educational background. One summer's attendance at the Marine Biological Station is expected.

The specific objectives of the Department of Biology applicable to the graduate program are:

- To increase the competence of secondary school teachers, especially those in the Seventh-day Adventist educational system.
- To prepare students for positions in institutions of higher education by giving them a firm foundation for work toward the doctorate.
- 3. To provide a preparation for research careers.

#### COURSES

- 401. PLANT PHYSIOLOGY. A course designed to cover the principles of physiology of plants in general. One laboratory per week. Prerequisite: 360. Four credits.
- 403. ORNITHOLOGY. A systematic study of native birds of North America, with emphasis on identification, migration, geographical distribution, habits and life histories. Two laboratories per week. Four credits.
- 405. GENERAL ENTOMOLOGY. A study of insect morphology, physiology and ecology. One laboratory per week. Four credits.
- 412. PLANT ANATOMY. A study of the microscopic anatomy of plant tissues with emphasis on their origin and development. Primary attention will be devoted to the vascular plants. Prerequisite: 360. One laboratory per week. Four credits.
- 420. **COMPARATIVE ANATOMY.** A study of the comparative anatomy of chordates with emphasis on the vertebrates. Detailed dissections of the shark and cat are made in the laboratory. Two laboratories per week. Five credits.

### **BIOLOGICAL SCIENCES**

- 424. **HERPETOLOGY.** A systematic study of amphibians and reptiles with emphasis on natural history and ecology. Two laboratories per week. Four credits.
- 426. **SYSTEMATIC BOTANY.** Principles of classification of plants with emphasis on natural history and ecology. Two laboratories per week. Four credits.
- 427. COASTAL FLORA. A study of the principles of classification and of the ecological relationships of the vascular plants of the Puget Sound area. Special emphasis is given to the salt marshes, fresh-water pond, estuarine, grassland, and forest habitats of the islands and mainland. Four credits. (WWC Marine Biological Station.)
- 428. PHYSIOLOGY OF THE ALGAE. A comparative study of the physiology of representative members of the major algae groups. Collection and growth of pure cultures of single-celled forms and related metabolic processes, nutritional factors, light requirements, synchronization and growth will be emphasized. Four credits. (WWC Marine Biological Station).
- 429. LIMNOLOGY. A study of the factors responsible for the presence and distribution of animals and plants in fresh waters. Field work includes trips to a number of lakes and streams for collection of living specimens as well as habitat analysis. Four credits. (WWC Marine Biological Station).
- 441. MICROTECHNIQUE. A course designed to cover the important methods of making microscope slides. Two laboratories per week. Three credits.
- 444. MAMMALOGY. A systematic study of mammals with emphasis on natural history and ecology. Two laboratories per week. Four credits.
- 446. GENERAL ECOLOGY. A course designed to cover the basic principles of plant and animal ecology. Field trips to nearby areas illustrating these principles are part of the laboratory work. Two laboratories per week. Four credits.
- 447. PARASITOLOGY. A systematic study of the morphology, life cycle, and host-parasite relationships of protozoan, helminth, and arthropod parasites. Two laboratories per week. Five credits.
- 449. VERTEBRATE HISTOLOGY. The microscopic anatomy of vertebrate cells, tissues and organs including reference to their functions. Two laboratories per week. Four credits.
- 451, 452. INVERTEBRATE ZOOLOGY. A study of the biology of the invertebrates. The first half of the course includes the organisms through the pseudocoelomates; the second half comprises the eucoelomates. Four credits. (WWC Marine Biological Station).
- 453. RESEARCH METHODS III. Methods of writing the scientific paper, oral presentation of the paper and a discussion of the organization of the biological sciences for the communication of results of scientific research are included. Two credits.
- 462. ICHTHYOLOGY. A systematic study of the fishes found in Puget Sound, with a survey of the fishes of other waters. Four credits. (WWC Marine Biological Station).

- 463. MARINE BOTANY. A systematic study of plants found in Puget Sound, with a survey of marine plants from other areas. Four credits. (WWC Marine Biological Station).
- 464. ANIMAL BEHAVIOR. A comparative study of the behavior of animals with emphasis on an experimental analysis of behavior. A research project will be required. Four credits. (WWC Marine Biological Station).
- 465. BACTERIOLOGY. A presentation of the basic principles necessary for an understanding of morphology and function of bacteria. Laboratory work, including unknowns, points out techniques employed in their study. Two laboratories per week. Five credits.
- 467. BIOLOGICAL OCEANOGRAPHY. A study of physical, chemical and geological effects of the ocean on marine organisms. Four credits. (WWC Marine Biological Station.)
- 468. COMPARATIVE PHYSIOLOGY. A comparative study of the physiology and life processes of animals with emphasis on invertebrates. Prerequisite: 392. Four credits. (WWC Marine Biological Station.)
- 470. BIOPHYSICS. An introductory course emphasizing the physical aspects of living organisms studied by the experimental and conceptual methods of physics with application to marine life. Four credits. (WWC Marine Biological Station).
- 474. MARINE INVERTEBRATES. A study of the biology of selected groups of marine invertebrates. Four credits. (WWC Marine Biological Station).
- 477, 478, 479. INDEPENDENT STUDY IN BIOLOGICAL SCIENCE. Directed study in an approved area. The student will be required to read widely on an assigned subject, follow regular research methods, and present a paper showing competence in and extent of his study. Open only to majors and minors. Permission from the chairman of the department required. One to three credits any quarter. Maximum, three credits.
- 483. PHILOSOPHY OF ORIGINS AND SPECIATION. The various theories on the origin and history of living organisms will be compared in light of present scientific knowledge in the areas of biochemistry, paleontology, morphology, geology, genetics, and other related areas. For majors and minors only. Three credits.
- 490. TECHNIQUES IN FIELD BIOLOGY. A study of the techniques used in the collection and preservation of biological specimens for museum purposes. Emphasis is placed on the recording and preservation of ecological data obtained with the collections of specimens. The topic for a given year will depend on the instructor offering the course and credit will be given at the rate of one hour credit for each week spent working in the field. One to six credits.
- 495. COLLOQUIUM. A departmental seminar offered each quarter in which current areas of research are presented by the staff and visiting lecturers. Required of all juniors, seniors and graduate students. No credit.
- 501. RESEARCH IN BIOLOGY. Individual work in a topic of original research carried out under the direction of one of the instructors. Two to four credits per quarter. Maximum, eight credits.

## **BIOLOGICAL SCIENCES**

- 503. **GENETICS AND EVOLUTION.** Detailed study of the variability of the genetic mechanism as the latter relates to speciation. Processes of significance in species formation at the organism and population levels will be considered. Prerequisite: 261. Three credits.
- 506. MORPHOLOGY OF PLANTS. An advanced study of the type forms of the divisions of the plant kingdom. One laboratory per week. Prerequisite: 360 or permission of the instructor. Four credits.
- 510. GRADUATE SEMINAR. Presentation of topics and discussion of current research in specific areas of biology. One credit; any quarter. Maximum, five credits.
- 511. PRINCIPLES OF TAXONOMY. A course designed to give the student a working knowledge of the rules of nomenclature, the factors considered in classification, the preparation of synonymies and keys, and new methods for determining relationships. Four credits.
- 514. SYMBIOSIS. A study of sharply defined associations between organisms. Selected examples of the viruses, bacteria, plants and animals are used to illustrate varying degrees of relationships. Prerequisite: Course work in one group of animals or plants or microbes or parasitology. Chemistry courses through organic are highly recommended. Two laboratories per week. Four credits.
- 518. SYSTEMATIC ENTOMOLOGY. A study of the principles of classification of insects. Laboratory work emphasizes recognition of orders and families with special problems on the specific level. Prerequisite: course 405 highly recommended. Two laboratories per week. Four credits.
- 519. FOREST ENTOMOLOGY. A study of economically important forest insects with methods of control. Practical field experience is stressed. One laboratory per week. Prerequisite: 405. Four credits.
- 522. CELLULAR BIOLOGY. Current knowledge and research in the areas of cell physiology, biochemical genetics, bacteriological genetics, and radiation biology will be considered. Two laboratories per week. Prerequisite: 392, 393. Five credits.
- 525. READINGS IN ANIMAL PHYSIOLOGY. Analysis of classical and current literature in the field by means of reports and conferences with staff. Two credits. Maximum, four credits.
- 526. READINGS IN INVERTEBRATE ZOOLOGY. Analysis of classical and current literature in the field by means or reports and conferences with staff. Two credits. Maximum, four credits.
- 527. READINGS IN ENTOMOLOGY. Analysis of classical and current literature in the field by means of reports and conferences with staff. Two credits. Maximum, four credits.
- 528. READINGS IN VERTEBRATE ECOLOGY. Analysis of classical and current literature in the field by means of reports and conferences with staff. Two credits. Maximum, four credits.
- 529. READINGS IN SYMBIOSIS. Analysis of classical and current literature in the field by means of reports and conferences with staff. Two credits. Maximum, four credits.

## BIOLOGICAL SCIENCES

- 537. **HELMINTHOLOGY.** A detailed study of the more common helminth parasites of animals is undertaken. Emphasis is given to current areas of research in helminthology. Basic techniques of importance in laboratory work with helminths are covered. Two laboratories per week. Prerequisite: 447. Four credits.
- 545. **THESIS.** Preparation of the master's dissertation after successfully carrying out original study with a suitable topic to be selected after consultation with the major professor. Eight credits.

## DEPARTMENT OF EDUCATION AND PSYCHOLOGY

The Department of Education and Psychology offers two Master Degree programs-the Master of Arts, a thesis program, and the Master of Education, a non-thesis program. The programs permit professional enrichment through liberal course selection in the areas of Administration, Elementary Language Arts, Elementary Teaching, Guidance, Junior High Specialization, Secondary Content Areas, and Teacher-Librarianship.

In addition to the general objectives of the Graduate Program, the fol-

lowing are specific objectives of the Department of Education:

1. To assist the student in developing a philosophy of education consistent with Christian ethics.

2. To develop an understanding of the relationship between teaching and the learning process.

#### MASTER OF ARTS

18 **Basic Requirements** Graduate Seminar Methods of Research Thesis **Foundations** 

18 Area of Specialization (Administration or Guidance)

9 Electives with advisement Up to six credits numbered 400 or above may be selected from a department other than Education.

45 credits minimum

10

24

24 credits must be on the 500 level. All candidates must qualify for a state-approved teaching certificate before the degree is granted. It is the responsibility of the candidate to present evidence of the qualification.

#### MASTER OF EDUCATION

**Basic Requirements** Graduate Seminar Methods of Research 3 Foundations

Area of Specialization (Choose one of the following: Administration, Biology, Biophysics, Chemistry, Elementary Language Arts, Elementary Teaching, Guidance, Health and Physical Education, Junior High School Specialization, Mathematics, Physics, Secondary School Language

Arts, Social Science, or Teacher-Librarian.) Electives with advisement Content course selection must be from not more than two related areas.

45 credits minimum

Two-thirds of the minimum 45 credits to be 400 level or higher with no credit below the 350 level.

One year of validated satisfactory professional experience. All candidates must qualify for a state-approved teaching certificate before the degree is granted. It is the responsibility of the candidate to present evidence of this qualification.

All course work for the above degrees must be planned with and approved by the departmental adviser.

#### TEACHING CERTIFICATION

Walla Walla College is a state-approved teacher education institution. As such, it is authorized to recommend graduates to the Washington State Department of Education for the provisional and standard certificates.

The course offerings also provide for teaching certificates currently available from the General Conference Department of Education. Information concerning specific certificates is available in the regular bulletin and/or from the certification consultant.

## Requirements for Standard Certificate—Fifth Year

To be recommended for the Washington Standard Certificate, the candidate must fulfill the following requirements:

- 1. Hold a valid Washington provisional certificate
- 2. Complete two years of successful teaching
- 3. Complete 45 quarter credits beyond the bachelor's degree
- 4. Take History of the Pacific Northwest (for all elementary teachers and for those secondary teachers who plan to teach in the social sciences).

Of the 45 credits,  $22\frac{1}{2}$  credits must be in residence; 30 credits may be earned prior to the first year of teaching; at least 15 hours must be earned after the first year of teaching; a maximum of 12 credits may be earned by correspondence and/or extension study. Correspondence or extension credits must be from schools approved by the college recommending the candidate for certification.

The fifth-year program must be planned by authorized personnel in the Education Department. By careful programming, some students are able to complete the requirements for the master's degree in education at the same time they are fulfilling the requirements for the Standard Certificate.

#### PRINCIPAL'S CREDENTIAL

Walla Walla College provides course offerings leading to both the provisional and standard principal's credentials (elementary, secondary, and general).

## COURSES IN SUPPORTING DEPARTMENTS

Selected courses are available, with advisement, from the following departments: Biology, Business and Economics, Chemistry, English, Health and Physical Education, History, Political Science and Sociology, Journalism, Mathematics, Physics, and Speech.

## COURSES IN EDUCATION

- 361. LANGUAGE ARTS IN THE ELEMENTARY SCHOOL. Materials, objectives and methods used in the teaching of the language arts in the elementary school—composition, spelling, reading, listening, speaking. Three credits.
- 362. READING IN THE ELEMENTARY SCHOOL. Objectives and methods in the teaching of reading in the elementary school. Three credits.
- 362LS. LITERATURE IN THE ELEMENTARY SCHOOL. See Library Science.
- 365. SOCIAL STUDIES IN THE ELEMENTARY SCHOOL. Materials, objectives and methods used in teaching social studies in the elementary school, chosen from the fields of geography, history, civics and economics. Three credits.
- 369. SCIENCE IN THE ELEMENTARY SCHOOL. Objectives and materials used in the teaching of science at the primary and intermediate levels with particular emphasis on the application of the scientific method. Three credits.
- 373. MATHEMATICS IN THE ELEMENTARY SCHOOL. Methods of teaching modern mathematics in the elementary school. Proficiency test required for admission. Three credits.
- 390. EDUCATIONAL EVALUATION. A study of the statistics and methods of using evaluative instruments in the elementary and secondary school. Three credits.
- 404. HISTORY OF EDUCATION. A survey of the history of education. Three credits.
- 426. **EDUCATIONAL GUIDANCE.** The philosophy, functions, organization, personnel and evaluation of the school guidance program. Three credits.
- 431H&PE. ELEMENTARY SCHOOL HEALTH INSTRUCTION. See Health and Physical Education.
- 461. METHODS OF AUDIO-VISUAL EDUCATION. A survey of the methods of instruction through the use of audio-visual aids. The course provides training in equipment utilization, integration of techniques into instructional practices and selection and evaluation of audio-visual media. Two credits.
- 462. INSTRUCTIONAL AIDS—PRODUCTION. Designed for teachers, audio-visual directors and others interested in laboratory experience in the production of instructional aids; emphasis is on course-of-study implementation through production techniques feasible at the local school level. By permission of instructor. Two credits.

- 477, 478, 479. INDEPENDENT STUDY IN EDUCATION. Directed study in an approved area. The student will be required to read widely on an assigned subject, follow regular research methods, and present a paper showing competence in and extent of his study. Permission from the chairman of the department is required. One to three credits any quarter. Maximum, three credits.
- 489. VOCATIONAL DEVELOPMENT THEORY. Theories of vocational choice and methods of studying occupations and occupational information are considered as they relate to educational and vocational guidance. Three credits.
- 490. **TEACHING HIGH SCHOOL READING.** Basic principles of reading instruction; methods, materials and organization of the developmental and corrective reading programs in high school. Three credits.
- 492. EDUCATION OF THE GIFTED. Emphasis is placed upon the design of learning opportunities for gifted children in the light of psychological characteristics of such children. Three credits.
- 495. **EARLY CHILDHOOD EDUCATION.** A critical review of the experimental literature of the cultivation of intellectual abilities in the young child with implications for the curriculum in nursery school and kindergarten. Prerequisites: 220 and 435. Three credits.
- 496. **ELEMENTARY SCHOOL GUIDANCE.** A study of the rationale for elementary school guidance with emphasis upon current research and issues. Attention will be focused upon the tools and techniques of both classroom and out-of-class guidance functions and services. Three credits.
- 497. WORKSHOP IN AEROSPACE EDUCATION. A study of the basic phases of the aerospace age, e.g., economic, social, geographical, military and technical. Special areas will be meteorology, navigation, international problems in space, astronaut training and public safety. Three credits.
- 498. WORKSHOP IN SCIENCE INSTRUCTION. A workshop designed to assist elementary and junior high school personnel to be cognizant of contemporary objectives in science instruction and to explore appropriate methods of motivation and teaching. A review of textual materials and teaching aids will be included. Three credits.

#### Graduate Courses

- 500. GRADUATE SEMINAR. A weekly discussion period in which faculty and students explore significant issues in education. One credit.
- 504. **ELEMENTARY SCHOOL CURRICULUM.** A study of the elementary school curriculum, including objectives, essentials of a good program, varying curriculum patterns and appraisal of current practices. Three credits.

- 508. SECONDARY SCHOOL CURRICULUM. Overview of the secondary school curriculum, with emphasis on the various subject fields; organization of the school for curriculum development; educational objectives; the courses of study; evaluation of the secondary school curriculum. Three credits.
- 515. COUNSELING THEORIES AND TECHNIQUES. A study and application of the theories and techniques for counseling. Professional relationships and ethics are considered. Prerequisite: 426 or equivalent. Three credits.
- 518. GROUP COUNSELING. Theories and techniques of counseling in group situations. Prerequisite: 515. Two credits.
- 522. PHILOSOPHY OF EDUCATION. A study of the basic philosophies and development of educational thinking resulting in the formulation of aims and objectives of education for today's schools. Three credits.
- 525. **EDUCATION IN THE TWENTIETH CENTURY.** Historical background of modern education with emphasis on trends and developments in the twentieth century. Three credits.
- 526. SCHOOL FINANCE. A course designed for administrators, emphasizing origin and disbursement of school funds derived from tax sources and other revenues. Techniques of budget construction are studied and a general overview is given of the principles of financing education. Three credits.
- 527. SCHOOL PLANNING AND CONSTRUCTION. A survey of how to plan and build schools, including the involvement of the lay citizen. Selection of site, trends in design, function of buildings and plant, costs and obligations will be studied. Professional architects and engineers will be guest lecturers. Three credits.
- 535. TEACHING OF REMEDIAL READING. Diagnostic and remedial reading techniques, how to recognize reading difficulties and improve reading skills. Laboratory experience required. Three credits.
- 539. **SUPERVISION.** For principals, classroom teachers or those planning to be supervisors. Problems, responsibilities, privileges and duties of both teacher and supervisor, and the improvement of teachers in service through a comprehensive program of supervision. Three credits.
- 544. ADMINISTRATION OF THE ELEMENTARY SCHOOL. Organization, supervision and administration of elementary schools. Three credits.
- 550. **SCHOOL LAW.** Utilizing the case study method, this course is designed to acquaint the student with the legal basis for public and parochial school operation in the United States. Three credits.
- 551. ADMINISTRATION OF THE SECONDARY SCHOOL. Problems and procedures in the organization and administration of secondary schools. Three credits.

- 553. SCHOOL PUBLIC RELATIONS. This course will investigate the factors which contribute to desirable relations between a school and its several publics. It will also deal with some of the specific causes of problems which arise in this area and methods of handling them. Three credits.
- 556. CURRICULUM PLANNING. The relation of curricular materials to educational outcomes in terms of personal and social values. A brief review of curriculum investigations and their significance in the selection and evaluation of school materials and activities. Current practices in curriculum revision. Three credits.
- 558. SCHOOL ACTIVITIES. Designed to acquaint the student with the range of the school activities program; to understand and define the purposes of such activities; to provide him with a valid basis for evaluating existing or proposed activities; and to provide opportunity for intensive study of one activity. Two credits.
- 560. ADMINISTRATIVE PRACTICUM. Professional laboratory experience for candidates for an administrative credential. The course is designed to involve each candidate in a variety of practical administrative experiences and to assist in his successful induction into school leadership. Five credits.
- 561. METHODS OF RESEARCH. Procedures in the selection and evaluation of research projects and techniques in the analysis of research data. Three credits.
- 567. COMPARATIVE EDUCATION. A comparison of systems and philosophies of education in various parts of the world; emphasis on the role of cultural impacts. Three credits.
- 570. **TOPICS.** Selected topics in education involving research and reports in addition to regular class activities. Maximum, six credits. Three credits, any quarter.
- 581, 582, 583. PROFESSIONAL PROJECT. Selected areas of advanced study involving reading and research. Formal report required. Prerequisite: consent of department head and graduate standing. Maximum, six credits. Two, four or six credits; any quarter.
  - 590. THESIS. Eight credits.

## COURSES IN PSYCHOLOGY

- 350. **ELEMENTARY STATISTICS.** Descriptive techniques and other selected fundamental procedures for summarizing and interpreting data from tests and research in education and psychology. Three credits.
- 430. **PSYCHOLOGICAL TESTING.** Principles of test selection, administration, and interpretation are considered together with the contributions and limitation of the major types of standardized tests and inventories used in the behavioral sciences. Three credits.

- 431. PSYCHOLOGY OF EXCEPTIONAL CHILDREN. Characteristics and problems of all types of exceptional children with consideration of essential educational adaptation. Prerequisite: 121, 122. Three credits.
- 435. CHILD PSYCHOLOGY. Principles of growth as related to various phases of human development during the pre-adolescent years: physical, mental and emotional. Prerequisite: 121, 122. Three credits.
- 440. ADOLESCENT PSYCHOLOGY. Principles of growth as related to various phases of human development during the adolescent years: physical, mental and emotional. Prerequisite: 121, 122. Three credits.
- 442. MOTIVATION. A study of basic drives and causes of behavior in organisms with emphasis upon human behavior. This course includes a laboratory. Four credits.
- 444. **SOCIAL PSYCHOLOGY.** A study of personality patterns that function in the interpersonal and inter-group life into which all human beings are born and within which they develop and mature. The course is concerned with human behavior, attitudes and processes of the phenomena of communication, suggestion, conflict, accommodation, assimilation and socialization. Three credits.
- 445. SOCIAL PSYCHOLOGY LABORATORY. Prerequisite: 444. One credit.
- 446. PSYCHOLOGY OF PERSONALITY. Major theories concerning personality development, assessment, and adjustment will be considered. Three credits.
- 449. MENTAL HEALTH. Physiological and psychological factors related to emotional maturity. Identification of mental health activities. Individual mental health, classroom climate, patterns of acceptance and rejection. Three credits.

#### Graduate Courses

- 501. STATISTICS IN RESEARCH. An introduction to probability and statistical inference including t-ratio, simple analysis of variance, chi square and other selected non-parametric statistics used in educational or psychological research. Prerequisite: 350 or equivalent. Three credits.
  - 521. PSYCHOLOGY OF LEARNING. The course includes analysis of the mechanisms involved in the learning process. The physiological and psychological bases for functional learning are discussed, and the experimental evidence supporting psychological hypotheses is reviewed. Three credits.
    - 531. **INDIVIDUAL TESTING—BINET.** A course designed to familiarize the student with the Stanford-Binet Intelligence scale, its administration, interpretation and the writing of the psychological report. Prerequisite: 430 and permission of the instructor. Two credits.

- 532. INDIVIDUAL TESTING—WECHSLER. A course designed to familiarize the student with the Wechsler Intelligence scales, WAIS, WISC, WPPS, their administration, interpretation, and the writing of the report. Prerequisite: 430 and permission of the instructor. Three credits.
- 534. ASSESSMENT OF THE INDIVIDUAL. An introduction to and the use of methods applicable to assessment in schools where the counselor may be required to describe behavior. Experience in collecting data and writing case reports will be provided. Prerequisites: 430, 445, 531, 532. Three credits.
- 563. FIELD EXPERIENCE IN GUIDANCE. Provides broad experiences in the various guidance functions in actual field settings under the supervision of the college and qualified guidance workers. Prerequisite: 426. Three credits.
- 564. ABNORMAL PSYCHOLOGY. A study of behavioral deviations, therapeutic measures and theories. Three credits.
- 565. PRACTICUM IN SCHOOL COUNSELING. An opportunity for professional in-depth experience in the counseling function under the supervision of the college and qualified school counselors. Prerequisites: 515, 534, and department approval. Five credits.

#### YEAR DEED AND ALKED THE DESCRIPTION

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465 BODIAL PSYCHOLOGY LABORATORY. Prerequistic 466 One

MR. PSYCHOLOGY OF PERSONALITY. Major flavous extending personality development, automorphic, and adjustment will be considered. There are also

tell MENTAL HEALTH. Physiological and psychological interpretation of manufactures and including material description of manufactures and individual mental include decreases of manufactures at acceptation and expection. There exists

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53). PSYCHOLOGY OF LEARNING. The course michael analysis of the mechanisms involved in the learning process. The physiological and the experimental evidence supporting asychological hypothesis is reviewed. Three credits

331. INDIVIDUAL TESTING—BINET. A course designed to familifitie the student with the Stanford-Binet Intelligence scale, its administration, interpretation and the vertice of the payentotopical result. Pre-gapulatic, 439 and payentsion of the particular. Two gradies.

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