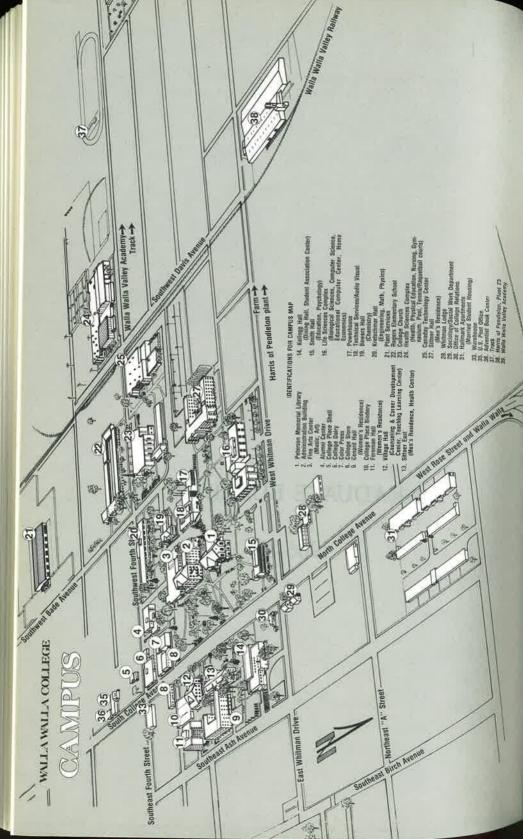




GRADUATE BULLETIN

1986-87



Walla Walla College is accredited by

The Northwest Association of Schools and Colleges Seventh-day Adventist Board of Regents

The Washington State Board of Education

Walla Walla College offers programs accredited by

Council on Social Work Education

Department of Baccalaureate and Higher Degree Programs of the National League

Engineering Accreditation Commission of the Accreditation Board for Engineering

National Association of Schools of Music

is a member of

American Association of Colleges for Teacher Education

American Association of Collegiate Registrars and Admissions Officers

American Council on Education National Commission on Accreditation

American Society for Engineering Education

Council of Member Agencies, Department of Baccalaureate and Higher Degree Programs of the National League for Nursing

National Association of Independent Colleges and Universities

National Association of Student Financial Aid Administrators

National Association of Summer Sessions

is approved by

American Dietetic Association

The Attorney General of the United States for nonimmigrant students State Approving Agency for the training of veterans under the U.S. Code,

Title 38, Chapters 31, 32, 34 and 35

Washington State for training in Vocational Rehabilitation

Equal Opportunity Commitment

Walla Walla College maintains a policy of equal educational opportunity for all applicants without regard to sex, race, color, handicap, national and/or ethnic origin, and in administration of its educational and admissions policies, financial affairs, employment programs, student life and services, or any other college-administered program.

Information contained in this publication is hereby certified as true and correct in content and policy as of the date of publication, in compliance with the Veterans Administration DVB Circular 20-76-84 and Public Law 94-502.

BULLETIN WALLA WALLA COLLEGE VOL. 95, NO. 4 DEC. 1986

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FOR INFORMATION

ADMISSIONS AND FINANCIAL AID...Sergio Hernandez, Director

Application Blanks 509/527-2327

 αr

Financial Aid 509/527-2314

Loans and Grants

RECORDS Orpha Osborne, Director

Academic Information 509/527-2811

Bulleting or

General Information

Transcripts 509/527-2812

Transfer Student Information

FINANCES...... Kathleen (Cassie) Ragenovich, Director

General Financial Information 509/527-2815

Work Opportunities

Student Accounts/Employment

GRADUATE ASSISTANTSHIPS.....Ron Carter,

Chair, Biology Department

509/527-2603 Harold Ochs.

Chair, Ed./Psychology Dept.

509/527-2211

RESIDENCE HALL LIVING......Lynn Prohaska, Dean of Men

General Information Sittner Hall Room Reservations 509/527-2111

Ilo Hutton. Dean of Women

Foreman/Conard 509/527-2532

or

Residence Hall Dean

Portland Campus 503/239-6118

STUDENT AFFAIRS.......Walt Meske, Vice President

Automobile Registration Student Services Off-Campus Housing 509/527-2511

Student Life

College Place, WA 99324

Portland Campus 10355 S.E. Market Portland, OR 97216

GENERAL TELEPHONE NUMBER.....509/527-2615

Toll Free (Washington state) Toll Free (Washington U.S.A.) 1-800-572-8964 1-800-541-8900 Portland Campus 503/239-6115

Marine Station, Rosario Beach 206/293-2326

Administrative offices are closed from Friday noon until Monday morning and on legal holidays. The administrative officers are available on Sundays by appointment.

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JUNE - 1987 S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	JULY - 1987 S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	AUGUST - 1987 S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 22/30 24/31 25 26 27 28 29
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WALLA WALLA COLLEGE ACADEMIC CALENDAR 1986-87

AUTUMN QUARTE	R	
September 29	M	Registration
30	T	Instruction Begins
October 6	M	*Graduate Record Examinations
8	W	Last Day to Register
15	W	Last Day for Registered Students
		Last Day for Registered Students to Add a Class or Change to Audit
November 25	T	Last Day to Withdraw from Classes
26	W	Thanksgiving Vacation Begins (noon)
_ 30	S	Thanksgiving Vacation Ends (10:00 p.m.
December 15	M	*Graduate Record Examinations
14, 15, 16, 17	SMTW	Final Exams
WINTER QUARTER		
January 5	M	Registration
6	T	Instruction Begins
14	W	Last Day to Register
21	W	Last Day for Registered Students to Add a
-		Class or Change to Audit
February 4	W	Snow Frolic
9	M	*Graduate Record Examinations
24	T	Last Day to Withdraw from Classes
Mar. 15, 16, 17, 18	SMTW	Final Exams
SPRING QUARTER		
March 24	T	Registration
25	W	Instruction Begins
April 1	W	Last Day to Register
5	S	Last Day to File Master's Degree Order Form
6	M	*Graduate Record Examinations
8	W	Last Day for Registered Students to Add a
		Class or Change to Audit
May 6	W	Campus Day
12	T	Last Day to Withdraw from Classes
June 1, 2, 3	MTW	Final Exams
7	S	Commencement (10:00 a.m.)
SUMMER QUARTER	R	
June 8	M	*Graduate Record Examinations
14	S	Registration
14	S	Last Day to File Master's Degree Order
T 1 40	a	Form
July 19	S	G.R.E. — Full Testing
24	F	Last Day to Complete Final Master's Exam
August 9	Sa	Commencement (9:00 p.m.)

^{*}Registration with the Counseling and Guidance Center for Graduate Record Examinations must be made at least eight weeks prior to test date.

WALLA WALLA COLLEGE

BOARD OF TRUSTEES

Richard Fearing, Chair Jack Bergman, Secretary

ADMINISTRATION

Jack Bergman, Ph.D., President
Alden Thompson, Ph.D., Provost and Dean for Academic Administration
Paul Turpel, B.A., Vice President for College Advancement
Walt Meske, M.A., Vice President for Student Services
Manford Simcock, M.A., Vice President for Financial Administration

ADMINISTRATIVE STAFF

ACADEMIC ADMINISTRATION

Assistant Dean, School of Nursing, Carol Brown, Ph.D.

Chair, Department of Art, Thomas J. Emmerson, M.F.A.

Chair, Department of Biology, Ronald L. Carter, Ph.D.

Chair, Department of Business, Robert C. Schwab, Ph.D.

Chair, Department of Chemistry, Robert Wade, D.Phil.

Chair, Department of Communications, Loren Dickinson, Ph.D.

Chair, Department of Computer Science, C. Michael Bell, M.S.E.E.

Chair, Department of Education and Psychology, Harold T. Ochs, Ed.D.

Chair, Department of English, Beverly G. Beem, Ph.D.

Chair, Department of Health, Physical Education and Recreation, Gary M. Hamburgh, Ph.D.

Chair, Department of History Roland Blaich, Ph.D.

Chair, Department of Home Economics, Merlene L. Olmsted, M.A.

Chair, Department of Industrial Technology, Chester D. Blake, Ed.D.

Chair, Department of Library Science, Eldwood L. Mabley, M.S.L.S.

Chair, Department of Mathematics, Melvin S. Lang, Ph.D.

Chair, Department of Modern Languages, Reinhard Czeratzki, M.A.

Chair, Department of Music, Dan M. Shultz, M.Mus.

Chair, Department of Office Administration, Lee Loewen, M.Ed.

Chair, Department of Physics, Gordon O. Johnson, Ph.D.

Chair, Department of Sociology/Social Work, Wilma M. Hepker, Ph.D.

Dean, School of Graduate Studies, Hollibert E. Phillips, Ed.D.

Dean, School of Engineering, John F. Bregar, Ph.D.

Dean, School of Nursing, Frances L. Fickess, D.N.Sc.

Dean, School of Theology, John C. Brunt, Ph.D.

MARINE STATION

Joseph G. Galusha, D.Phil., Director

COMMITTEE ASSIGNMENTS

FACULTY GRANTS (VIII-6†) (Four-Year Terms)

Lawrence McCloskey, chair, P Manford Simcock, ex officio Carlton Cross, F, 1986-87 Dale Hepker, F, 1987-88 Steven Lee, F, 1988-89 _____, F. 1989-90

GRADUATE COUNCIL (VIII-24†) (Two-Year Terms)

Hollibert Phillips, ex officio chair Ron Carter, ex officio Alden Thompson, ex officio Harold Ochs, ex officio Orpha Osborne, ex officio Lee Loewen, P. 1986-87 Larry Veverka, P, 1986-87 Lawrence McCloskey, P. 1987-88 Beverly Beem, P, 1987-88 Rodney Heisler, P. 1987-88

STUDENT FINANCIAL AID (VIII-10†) (Two-Year Terms)

Sergio Hernandez, ex officio chair Ilo Hutton, ex officio Lynn Prohaska, ex officio Orpha Osborne, ex officio Cassie Ragenovich, ex officio _____, P, 1986-87 ____, P. 1987-88 Two students selected by the ASWWC

SUMMER SESSION (VIII-10†) (Two-Year Terms)

Melvin Lang, ex officio chair Ronald Carter, ex officio Harold Ochs, ex officio John Bregar, N, 1986-87 _____, N, 1987-88

TEACHER EDUCATION COUNCIL (VIII-25†) (Three-Year Terms)

Harold Ochs, ex officio chair Alden Thompson, ex officio Chester Blake, F, 1986-87 Dale Johnson, F, 1986-87 Lee Loewen, F. 1986-87 Gary Hamburgh, F, 1987-88 Carolyn Shultz, F, 1987-88 _____, F. 1988-89 _____, F, 1988-89 _____, F, 1988-89 One community representative

One graduate student

†Walla Walla College Faculty Handbook page number.

THE FACULTY

BIOLOGY

Ron Carter, *Chair and Associate Professor of Biology* (1984) B.A. 1969, Columbia Union College Ph.D. 1976, Loma Linda University

Susan C. Dixon, Assistant Professor of Biology (1980) B.S., 1974; M.S. 1976, Walla Walla College Doctoral Candidate 1984, Oregon State University

Joseph G. Galusha, *Professor of Biology* (1975) B.S. 1968, Walla Walla College M.A. 1971, Andrews University D.Phil. 1975, Oxford University

Albert E. Grable, Associate Professor of Biology (1963) B.S. 1959, Loma Linda University M.S. 1962; Ph.D. 1964, University of Minnesota

Lawrence R. McCloskey, Professor of Biology (1971)
 B.A. 1961, Atlantic Union College
 M.A. 1965; Ph.D. 1967, Duke University

Donald W. Rigby, *Professor of Biology* (1958) B.A. 1950, Loma Linda University M.A. 1956, Walla Walla College Ph.D. 1967, Loma Linda University

EDUCATION AND PSYCHOLOGY

Harold T. Ochs, Chair and Professor of Education and Psychology (1969) B.A. 1950, Walla Walla College M.Ed. 1957, Eastern Washington State College Ed. D. 1972, University of Idaho

R. Gary Brendel, Associate Professor of Education and Psychology (1980)
 B.A. 1966, Union College
 M.A. 1969, University of Denver
 Ph.D. 1985, University of Denver

Dale A. Johnson, Professor of Education and Psychology (1976)
 B.A. 1964, Union College
 M.A. 1967, University of Nebraska
 Ph.D. 1978, University of California, Riverside

Hollibert E. Phillips, *Professor of Education and Psychology* (1970)
B.A. Hons, 1960, University of London
M.A. 1964, Andrews University
Ed.D. 1970, Boston University

Gail S. Rittenbach, Assistant Professor of Education (1986)
 B.A. 1970, Pacific Union College
 M.Ed. 1980, University of Washington

Dale O. Wagner, Professor of Education and Psychology (1966)

B.A. 1952, Walla Walla College

Ed.M 1958, Eastern Washington State College

Ed.D. 1973, University of Idaho

Verlie Y. Ward, Instructor in Education (1983)

B.S. 1971, Union College

M.A. 1977, Andrews University

SPECIALIZATION AREAS (Secondary), CHAIRS

Beverly G. Beem, Professor of English (1976)

B.A. 1967, Union College

M.A. 1969, Andrews University

Ph.D. 1974, University of Nebraska

Roland D. Blaich, Professor of History (1968)

B.A. 1966; M.A. 1967, California State College at Los Angeles

Ph.D. 1975, Washington State University

Chester D. Blake, Professor of Industrial Technology (1966)

B.S. 1963, Walla Walla College

M.A. 1968, San Jose State College

Ed.D. 1980, Washington State University

Ronald L. Carter, Associate Professor of Biology (1984)

B.A. 1969, Columbia Union College

Ph.D. 1976, Loma Linda University

Reinhard Czeratzki, Associate Professor of Modern Languages (1967)

B.A. 1964, Atlantic Union College

MA. 1967, Middlebury College

Loren Dickinson, Professor of Communications (1962)

B.A. 1957, Union College

M.A. 1960, University of Nebraska

Ph.D. 1968, University of Denver

Thomas J. Emmerson, Associate Professor of Arts (1976)

B.A. 1972, Walla Walla College

B.F.A. 1974; M.F.A. 1979, Otis Art Institute of Los Angeles County

Gary M. Hamburgh, Associate Professor of Health, Physical and Recreational Education (1972)

B.A. 1971, Loma Linda University

M.A. 1974, California State University at Fresno

Wilma M. Hepker, Professor of Sociology and Social Work (1973)

B.A. 1953, Union College

MA. 1966; Ph.D. 1976, University of Nebraska

Gordon O. Johnson, Professor of Physics (1974)

B.S. 1966, Walla Walla College

M.S. 1967; Ph.D. 1972, California Institute of Technology

Melvin S. Lang, Professor of Mathematics (1967)

B.S. 1957, Valley City State Teachers College

M.A. 1958, Colorado State College

Ph.D. 1972, University of Northern Colorado

Lee Loewen, Assistant Professor of Office Administration (1974)

B.S. 1947, Union College

M.Ed. 1968, Walla Walla College

Elwood L. Mabley, Associate Professor of Library Science and

Director of Libraries (1968)

B.A. 1948, Walla Walla College

M.S.L.S. 1959, University of Southern California

Merlene L. Olmsted, Assistant Professor of Home Economics (1977)

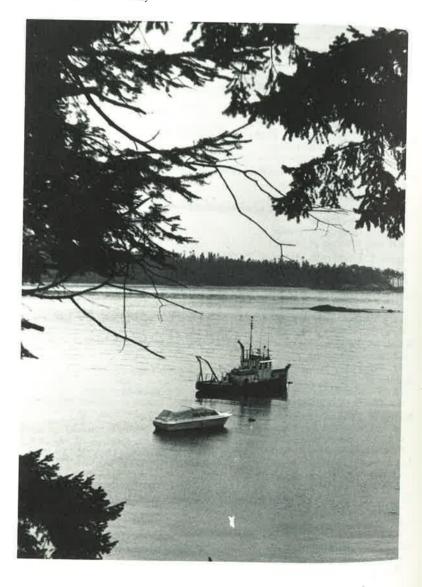
B.A. 1969, Walla Walla College

M.A. 1975, Loma Linda University

Robert Charles Schwab, Associate Professor of Business (1985) B.A. in Bus. Adm. 1971, Atlantic Union College M.B.A. 1975, Andrews University Ph.D. 1980, University of Oregon

Dan M. Shultz, *Professor of Music* (1979) B.S. 1962, Atlantic Union College M.Mus. 1967, Andrews University

Robert Alan Wade, Associate Professor of Chemistry (1979) B.A. 1975, Kalamazoo College D.Phil. 1979, Oxford University



GENERAL INFORMATION

Walla Walla College is a Christian institution of higher learning operated by the Seventh-day Adventist Church. It is committed to equal opportunity for all students and extends the rights, privileges, programs and activities generally accorded or made available to all members of the college community. Walla Walla College does not discriminate on the basis of handicap, sex, race, color, national and/or ethnic origin in administration of its admissions, educational, financial, employment and student life programs and policies, or any other college-administered program.

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 at 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 of the 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 Schools and Colleges, the Seventh-day Adventist Board of Regents, the Accreditation Board for Engineering and Technology, Inc., the Council on Social Work Education, the National Association of Schools of Music and the Department of Baccalaureate and Higher Degree Programs of the National League for Nursing and is a member of the American Association of Collegiate Registrars and Admissions Officers, the American Society for Engineering Education, the Council of Member Agencies, Department of Baccalaureate and Higher Degree Programs of the National League for Nursing, the

American Association of Colleges for Teacher Education, the National Association of Independent Colleges and Universities, the National Association of Summer Sessions, and the American Council on Education National Commission on Acceeditation.

DEGREES OFFERED

The College offers courses of study leading to the Master of Arts (M.A.), Master of Education (M.Ed.) and Master of Science (M.S.) degrees. The M.A. and M.S. degrees are thesis programs and the M.Ed is a nonthesis 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 quarter hour

B-3

C-2

D - 1

F - 0

Other symbols are:

Au — Audit

I — Incomplete

IP - In Progress

S — Satisfactory (C or better)

W - Withdrawal

The I (incomplete) is only given for special circumstances and must be made up the following quarter. Permission for an incomplete is granted by the instructor. Students with incompletes should calculate those hours into their course loads for the following quarter. Individuals who leave college prior to removal of the incomplete will have the I show on their transcripts until the work is finished.

The IP (in progress) is given by the instructor for independent work such as Fieldwork, Research and Thesis which extend and continue naturally past the regular quarter term. The IP designation is changed by the instructor to a letter grade upon completion of the specific independent experience or research.

The W (withdrawal) is given by the instructor when a student officially drops a course at least three weeks prior to the end of the quarter.

An Au (Audit) is assigned for class attendance and participation generally excluding tests and outside of class assignments. Arrangements for an audit may be made with the instructor.

Grades of all courses on the graduate program, excluding deficiencies, will be computed in the grade-point average. Deficiencies may not be made up by audit, and a grade of S will not be acceptable except for courses that have a mandatory S/NC grading.

UNIFORM COURSE NUMBERS

Certain course numbers are reserved for classes that are of such a general nature as to be found in many departments. The prefix assigned to the number designates the discipline. The following are courses that carry uniform numbers through this bulletin:

400 TOPICS

Each academic department may offer topics courses in specialized or experimental areas on either the lower division or advanced level. These courses are conducted through regular class activities and are approved by the Curriculum Committee as a one-time offering. See the Class Schedule for all approved Topics courses. One to four hours per quarter (except marine-oriented courses taken at the Marine Station).

459 SUPPLEMENTAL STUDIES

1-2: 2

Through a directed study program the student may supplement previous course work where it is judged that portions of a required course on the major or minor have been omitted. Ordinarily this will occur only with transfer students or within a program that has undergone a major curriculum change. A study proposal is to be outlined in consultation with the instructor of the course being supplemented and approved by the department of the Graduate Council. May not be substituted for existing course.

474 WORKSHOPS

1-4: 6

490 DIRECTED FIELD WORK/PRACTICUM/EXPERIENCE

2-16

469 ADVANCED STUDY

Through advanced directed study the student may enhance his major or minor in breadth or depth in topics not covered by the department curriculum. The study proposal must be approved by the department faculty and the Graduate Council and should indicate the methods of evaluation. May not be substituted for existing courses in the major or minor.

479 DIRECTED RESEARCH/PROJECT

Allows the student to do research in the literature, and/or the laboratory, or technical project in the major. (Some departments may allow this course on the minor.) A project proposal is required to define the scope of the work and the method of reporting. Requires permission of the departmental faculty with a copy of the proposal sent to the office of Academic Affairs. See individual departments for specific course description.

495 COLLOQUIUM

496; 497; 498 SEMINAR

1-4; 4

GRADUATE FACILITIES

Life Sciences Complex

The facilities of the department of Biology in the Life Sciences Complex 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 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 two laboratory buildings a cafeteria, an assembly hall, shops and 29 cabins for student and staff housing.

Smith Hall

The Department of Education and Psychology is housed in a modern, air-conditioned, three-story building. Facilities include offices for staff and graduate assistants, laboratories for testing and psychology, observation rooms and a curriculum library.

Peterson Memorial Library

The library is a vital part of the educational program at Walla Walla College. Reading room accommodations, an open-shelf system, seminar and conference rooms, a periodical room and a listening/viewing facility contribute to the study and enjoyment of learning materials. Microreaders make accessible microforms of scholarly material. The curriculum library, located in Smith Hall, contains a large selection of textbooks, children's literature books, a collection of mounted pictures, filmstrips, tapes and phonorecords. The library on the Portland campus serves specifically the students of nursing assigned there to obtain their clinical practice. The combined libraries contain approximately 145,000 volumes. There are about 925 currently received periodicals. Periodical indexes and other bibliographical aids are also available. Resources in other libraries are available to graduate 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

Board Actions

Actions voted by the College Board, Faculty, or Finance Committee at any time shall have equal force or, if necessary, supersede statements published in this bulletin.

Payments Required to Register

An advance payment of \$2,815 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 \$2.815.

Tuition

1 - 12 quarter hours — \$171 per quarter hour

The tuition includes all laboratory fees.

General Fee

A general fee of \$22 per quarter is charged students registered for six or more quarter hours which provides student association membership and ID card.

Special Fees

Application Fee, new students (nonrefundable)	\$20.00
Audit Class One-h	alf Regular Tuition
Change of Program (class added or dropped), each	2.50
Classes with numerous or extended field trips	Special Fee
Degree, Master's	
Diploma	25.00
In absentia charge	15.00
M.A. and M.S. thesis binding (two copies)	35.00
Academic Regalia (gown, hood)	Actual cost
I.D. Card Replacement	5.00
Late Registration	20.00
(plus \$2 per day from publi	shed registration date)
Transcript (must be requested in writing)	8.44
First copy	Free
Additional copies, each	2.00

Refunds

A student withdrawing from classes during the quarter will receive the following tuition refunds (general fee not refundable):

*Tuition:

100% through the fourth day of classes after regularly scheduled registration on the Walla Walla

College Campus 75% second week

50% third and fourth weeks

No tuition is refunded after the fourth week

*Students dropping all classes during this period will be charged a processing fee of \$50 or 5% of tuition, whichever is less.

Room Rent: 90% during first week of quarter

80% during second week of quarter 70% during third week of quarter 60% during fourth week of quarter 50% during fifth week of quarter 40% during sixth week of quarter 30% during seventh week of quarter 20% during eighth week of quarter

The beginning of the quarter will be considereed to be the first day of class instruction

When a student withdraws during a quarter, no refund will be made until 30 days after the close of the month in which he/she withdraw. STUDENTS WHO LEAVE THE COLLEGE WITHOUT COMPLETING WITHDRAWAL PROCEDURES WILL BE CHARGED UNTIL PROPER ARRANGEMENTS ARE MADE. (Also see *Room Reservations.*)

Past Due Accounts

A **finance charge** computed at a periodic rate of one percent per month is assessed against a past due account. This is an annual percentage rate of 12 percent.

Statements

Statements will be issued each month giving an account for the previous month. Tuition, room rent, and minimum board charges for dorm students will be charged in advance at the beginning of each quarter. Food service charges above the minimum are billed at the close of each month. Village students may obtain their statements from the cashier in the accounting office.

It is expected that statements will be paid within ten days from time of mailing. The College operates on a cash basis and is dependent upon prompt payment of accounts.

Remittances

Checks, drafts and money orders should be made payable to Walla Walla College and should be sent to Walla Walla College Accounting Office, College Place, Washington 99324.

Insurance-Medical, Accident and Hospitalization

Student medical, accident and hospital insurance may be purchased at registration by students enrolling for six or more quarter hours. Students not wanting coverage are required to sign a waiver declining participation. Dependency coverage is available for married students. The premium is charged on the student's first statement of account after his initial enrollment. No changes or refunds are allowed once

the information has been sent to the insurance company (two seeks after the first day of classes). Information describing cost, coverage and claim procedures will be supplied each student at registration. Inquiries should be directed to the Student Health Center.

Student Health Center

Clinical facilities are available for students requiring medical attention. Prescriptions and other medicines are available at special prices. In case of serious illness or surgery, the Walla Walla General Hospital provides complete service to students. Financial arrangements must be made directly with the hospital.

Release of Transcripts or Degrees

By action of the board of trustees of the College, a degree or transcript of credit, official or unofficial, may not be released until the student's account is paid in full.

To expedite the release of transcripts, diplomas and other legal documents, the student should send a *money order* or *certified check* to cover the balance of his account when requesting transcripts, et cetera. Requests for transcripts must be in writing.

Loans, Assistantships

The following loan funds are recommended and applications may be obtained from the Financial Aid Office.

The Guaranteed Student Loan Program (GSLP). This allows a student to borrow directly from commercial lenders and credit unions. These loans are available to students who are citizens or nationals of the United States, or those in the country for other than a temporary purpose. These loans, which have an annual interest rate of 9 percent, do not have to be repaid until six months after student status has terminated. For graduate students, the annual loan limit is \$5,000; the aggregate limit is \$25,000, including undergraduate loans.

National Direct Student Loan. The National Direct Student Loan is made available through the United States Department of Education and Walla Walla College. To qualify, the students must have financial need as evidenced by submission of a WWC application for financial aid and Financial Aid Form (FAF) by April 1. Priority in awarding this aid is given to students with the greatest financial needs. Repayments begin after the applicant's student status terminates. Applications and FAF are available through the college Financial Aid office.

Graduate Assistantships

A limited number of graduate assistantships is 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 assistant-ships 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 for biology assistantships must be submitted before April 15, while the deadline for applications for education and psychology assistantships is February 1.

The Dean's Award Endowment

Prior to each spring and summer graduation, master's candidates with exceptionally good academic and professional records are considered by the faculties of Biology and Education and Psychology for the Dean's Award. This award, made at graduation from an endowment fund established in 1948 and designated the Dean's Award, consists of: (I) a certificate of distinction and (2) a cash amount of one hundred dollars (\$100). Normally, only one award may be made per graduation.



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 an 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 shall file completed graduate application forms and two official transcripts of all work taken on the collegiate level with the Director of Records 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 admissions Office.

Eligibility for admission as a graduate student is determined by the Graduate Council of the College upon the recommendations 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:

Satisfactory scores on the Graduate Record Examination (GRE), both subject and general.

Applicants in biology must provide transcripts of scores for both the subject and general tests in biology, while applicants in education must provide transcripts of scores for both the subject and general tests in education.

Students who intend to pursue a counseling specialization, or whose undergraduate major was psychology, may elect to substitute the subject test in psychology for the subject in education.

The test scores are used in part to determine eligibility for admission to the School of Graduate Studies.

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

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: acceptable performance on the Graduate Record Examinations, strong professional recommendations, acceptable 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 credit earned will later apply toward the master's degree.

Admission Requirements for the Nondegree Program

Graduates of an accredited college or university with a cumulative under-graduate GPA of 2.00 may be admitted as postgraduate students to take courses toward certification. These credits may not apply to a master's degree.

Graduate Credit for Seniors

Seniors who wish to take graduate numbered (500) courses must submit for evaluation an approved senior outline and transcript to the Graduate Council. Approval to register for a course is given only after determination of eligibility for admission to the Graduate School.

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 hours is required, at least 33 of which must be earned while in residence.

Credit older than six calendar years usually is not used to satisfy degree requirements. However, a student may submit a request to Graduate Council for validation of an outdated course if its content is comparable to a current course and if the student is knowledgeable in it. These judgments shall be made by persons with expertise in the respective disciplines.

Course Requirements and Scholarship

The completion of a minimum of 45 quarter hours of 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 deficiences will be computed in the grade-point average.

Courses numbered 500 or above are primarily for graduate students. A minimum of 24 quarter hours must be earned in courses number 500 or above for the Master of Arts and Science degrees. A minimum of 30 quarter hours 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. Usually, not more than six quarter hours of topics (400) or workshop (474) courses will be included in a program. Courses numbered 350-399 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.

Second Master's Degree

The second master's degree requires a minimum of 30 additional quarter hours approved by the Graduate Council. All M.A. and M.S. degree programs must include a thesis.

Course Load

The normal load is 12 hours 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 Records Office. Withdrawal slips must be signed by the adviser and the instructor involved. The final date for dropping a class is indicated in the academic calendar. Students doing passing work prior to withdrawal will receive a W (withdrawal). Students withdrawing from all classes during the quarter will receive Ws.

Transfer of Graduate Credit

A maximum of 12 quarter hours of graduate work taken at other recognized institutions may be approved for transfer toward the master's degree. A GPA of 3.00 must be maintained on all course work taken in residence. The transfer credit may be by extension if acceptable toward the master's degree at the school offering the extension work. It is the responsibility of the student to provide such documentation. 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.

PROGRAM OF STUDY

Prior to registering for the first quarter of study, all students admitted for a master's degree program must consult with the chair of their department for assistance in selecting courses. An adviser and/or advisory committee will subsequently be appointed to guide the student in planning a program of study to complete the degree. All course selection and program changes must be made in conference with the adviser, and with approval of the Graduate Council.

Toward the end of the quarter in which the student is about to complete his first nine-15 quarter hours of approved graduate study (exclusive of deficiencies), application must be made for advancement to degree candidacy. Since a minimum of 30 quarter hours should be earned after advancement to candidacy has been granted any delay in filing this application may result in a loss of earned credit.

ADVANCEMENT TO DEGREE CANDIDACY

Admission to graduate study merely constitutes permission to register for coursework. It does not imply candidacy.

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

- 1. Arrange for the removal of any undergraduate deficiencies.
- Complete nine to 15 quarter hours of approved graduate study with a minimum grade-point average of 3.00. Advancement to candidacy will not be granted if this minimum is not attained.
- 3. Submit the "Application for Degree Candidacy and Proposed Program of Courses" form to the department chairman outlining a study program including courses completed and those yet to be completed in fulfillment of the requirements for the master's degree. This program must be considered for approval by the staff of the department concerned upon completion of nine to 15 quarter hours.
- 4. Secure approval of the proposed program by 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.

Advancement to master's degree candidacy indicates that the Graduate Council and the department 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 chair, director of records and chair of the Graduate Council. More than two changes must be approved by the Graduate Council.

THESIS REQUIREMENT

A thesis demonstrating ability to conduct research in a systematic and scholarly manner must be presented by candidates for the Master of Arts and Master of Science degrees. 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.

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.

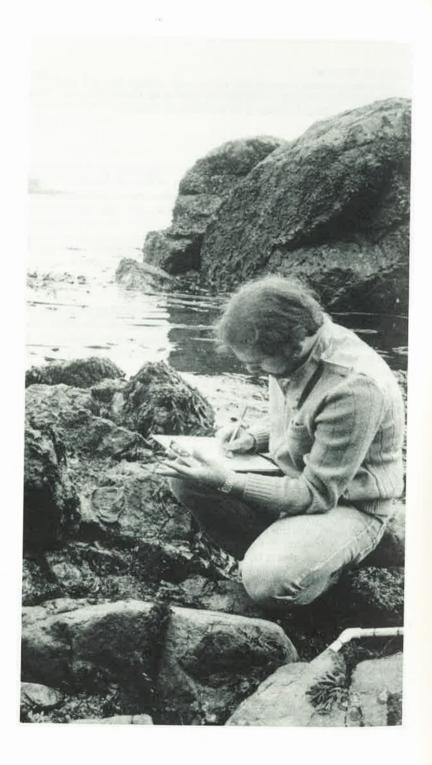
Examination Regulations

- 1. It is the candidate's responsibility to schedule written and/or oral examinations with the department chair.
- The examinations are coordinated by the chair of the department and/or the candidate's advisory committee. Success or failure of the examinations is determined by the examination committee.
- Questions in the examination will be based upon the candidate's areas of study and/or thesis.
- The time allowed for the oral examination is ordinarily not more than two hours. Written examinations may take considerably longer.
- Any candidate who fails either written or oral examinations may be granted only one opportunity by the examination committee to retake the respective examination after a lapse of at least one quarter.
- Final examinations should be completed at least two weeks before commencement.

CONFERMENT OF DEGREE

The candidate must file in duplicate the order form for the master's degree and academic regalia with the Office of the Dean of the School of Graduate Studies. Consult the academic calendar for the last day to file the order form prior to the beginning of the final quarter.

Students are required to participate in the graduation exercise. 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 Science degree in biology. Courses are offered in zoology and botany on the main campus and at the Marine Station near Anacortes, Washington. The program of coursework and research developed for each graduate student takes into account the future goals, present interests and academic background of the student. In addition to a basic course in biology (zoology and botany), specific background courses, or their equivalents, should include genetics, development, physiology and ecology. An adequate preparation in chemistry (inorganic and organic), physics (general physics) and mathematics (algebra, trigonometry, some calculus) will complete the necessary foundation upon which an individualized graduate program may be built. There is sufficient flexibility to allow a student to propose a program of a more interdisciplinary nature if desired. Because of the spectrum of biological and interdisciplinary opportunities presented at the Marine Station, all graduate students are expected to attend one summer term.

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

- To increase the competence of secondary schoolteachers, 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.

BIOL 401 PLANT PHYSIOLOGY

A study of the principles of plant physiology. One laboratory per week. Prerequisites: BIOI 360; BIOL 392.

BIOL 403 ORNITHOLOGY

Systematic study of native birds of North America, with emphasis on identification, migration, geographical distribution, habits and life histories. Two laboratories per week.

BIOL 405 GENERAL ENTOMOLOGY

Study of insect morphology, physiology, ecology and classification. One laboratory per week.

BIOL 412 PLANT ANATOMY

Study of the microscopic anatomy of plant tissues with emphasis on their origin and development. Emphasizes the vascular plants. Recommended: BIOL 360. One laboratory per week.

BIOL 424 HERPETOLOGY

Systematic study of amphibians and reptiles with emphasis on natural history and ecology. Two laboratories per week.

BIOL 426 SYSTEMATIC BOTANY

4 or 5

Study of the principles of plant classification, together with a systematic survey of vascular plants, with emphasis on natural history and ecology. Two laboratories per week. One weekend field trip required. (College Place campus - 4 quarter hours; Marine Station - 5 quarter hours.)

BIOL 429 LIMNOLOGY

Study of the factors responsible for the presence and distribution of animals and plants in fresh water. Field work includes trips to a number of lakes and streams for collection of living specimens as well as habitat analysis. Two laboratories per week.

BIOL 432 INTRODUCTION TO PALEOBIOLOGY

Study of earth history as exhibited by the fossils with particular emphasis on paleobiological relationships. Two laboratories per week. Prerequisite: permission of instructor.

BIOL 444 MAMMALOGY

Systematic study of mammals with emphasis on natural history and ecology. Two laboratories per week.

BIOL 446 GENERAL ECOLOGY

Study of the relationship of plants and animals, both as individuals and assemblages, to their physical and biological environment. Field studies designed to examine ecological principles are part of the laboratory work. Two laboratories per week. Biostatistics, genetics and a minimum of one field natural history course recommended.

BIOL 447 PARASITOLOGY

Systematic study of the morphology, life cycle and host-parasite relationships of protozoan, helminth and arthropod parasites. Two laboratories per week. Prerequisite or corequisite: CHEM 321, 322, 323.

BIOL 449 VERTEBRATE HISTOLOGY

Study of the microscopic anatomy of vertebrate cells, tissue and organs, including reference to their functions. Two laboratories per week.

BIOL 451 INVERTEBRATE ZOOLOGY

Study of the biology of the invertebrates with emphasis on their ecology, morphology and physiology. Two laboratories per week.

BIOL 455 RESEARCH METHODS V

Methods of writing and orally presenting a scientific paper. Students present the results of their senior thesis in a seminar and submit a written manuscript of their senior thesis (see BIOL 251; BIOL 352; BIOL 353; BIOL 354).

BIOL 458 PSYCHOBIOLOGY

Readings in, and discussion of, current concepts of the biological bases of behavior in animals and man. Material is of a comparative nature with emphasis on human behavior. One laboratory per week. Prerequisites: BIOL 101, 102, 103 or BIOL 201, 202 and PSYC 130 or permission of instructor. Recommended: BIOL 374.

RIOL 465 BACTERIOLOGY

5

Principles of morphology and function of bacteria. Laboratory work, including unknowns, points out techniques employed in their study. Two laboratories per week. Prerequisite or corequisite: CHEM 321, 322, 323.

BIOL 483 PHILOSOPHY OF ORIGINS AND SPECIATION

Comparison of the various theories on the origin and history of living organisms in light of present scientific knowledge in biochemistry, paleontology, morphology, geology, genetics and other related areas. For majors and minors only. Recommended for senior year.

BIOL 490 TECHNIQUES IN FIELD BIOLOGY

1-6: 6

Study of the techniques used in the collection and preservation of biological specimens for museum purposes. Emphasizes the recording and preservation of ecological data obtained with the collections of specimens. Topics vary depending on the instructor; credit will be given at the rate of one quarter hour for each week spent working in the field.

BIOL 495 COLLOQUIUM

A lecture series designed to expose students to modern scientific research and researchers. Each lecture is normally given by a visiting scientist. Six quarters required of all junior, senior and graduate biology majors. Graded S or NC.

BIOL 501 RESEARCH IN BIOLOGY

2-4: 8

Individual work in a topic of original research carried out under the direction of one of the instructors. Two to four hours per quarter; maximum, eight.

BIOL 503 GENETICS AND SPECIATION

A study of the nature and function of the genetic material as it relates to population and species variability and change. Prerequisite: BIOL 261.

BIOL 510 GRADUATE SEMINAR

1: 6

Presentation of topics and discussion of current research in specific areas of biology. One credit each quarter; minimum of five, and maximum of six quarters. Spring quarter normally involves a Research Plan and Progress Report for first-year graduate students. See Biology Department for alternate options.

BIOL 511 BIOSYSTEMATICS

A study of the process of speciation and its relationship to currently used taxonomic methods and rules of nomenclature.

BIOL 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. Recommended prerequiste: BIOL 405. Two laboratories per week.

BIOL 521 PRINCIPLES OF ECONOMIC ENTOMOLOGY

An evaluation of the various methods of controlling economically important species. Prerequiste: BIOL 405.

BIOL 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: BIOL 392.

READING COURSES

A maximum of six quarter hours may be selected from Reading Courses.

BIOL 540 READINGS IN BIOLOGY

Analysis of classical and current literature in specific areas of biology. Areas of concentration may include disciplines such as biostatistics, development, ecology, ethology, genetics, natural history, philosophy of biology, or physiology. Requires reports and conferences with a staff member. A maximum of four quarter hours in any one area.

BIOLOGY COURSES: Marine Station

BIOL 101, 102, 103 or equivalent is prerequisite for all courses listed below.

BIOL 460 MARINE ECOLOGY*

Study of interspecific, intraspecific and community relationships demonstrated by marine organisms.

BIOL 462 ICHTHYOLOGY*

Systematic study of the fishes found in Puget Sound, with a survey of the fishes of other waters,

BIOL 463 MARINE BOTANY*

Systematic study of plants found in Puget Sound, with a survey of marine plants from other areas.

BIOL 467 INTRODUCTION TO OCEANOGRAPHY*

A physical, chemical and geological study of the oceans and ocean basins as a habitat for life, emphasizing the mutual interaction between the oceanic biosphere and its environment.

BIOL 468 COMPARATIVE PHYSIOLOGY

Comparative study of the physiology and life processes of animals with emphasis on invertebrates, Prerequiste: BIOL 392.

BIOL 470 MARINE BIOPHYSICS

Introduction to the physical aspects of living organisms studied by the experimental and conceptual methods of physics with application to marine life.

BIOL 475 MARINE INVERTEBRATES*

5

A study of the biology of selected groups of marine inverbrates.

BIOL 508 PHYSIOLOGY OF THE ALGAE

A comparative study of the physiology of representative members of the major algal 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.

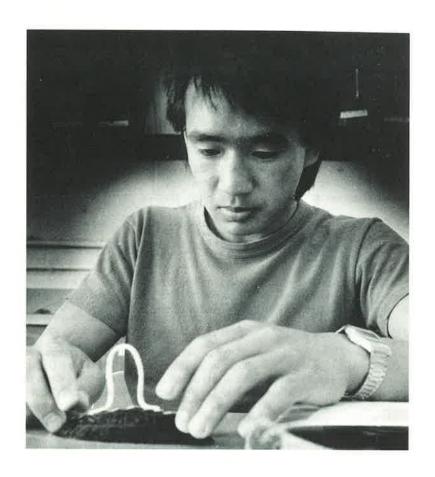
BIOL 514 SYMBIOSIS

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.

BIOL 516 BEHAVIOR OF MARINE ORGANISMS

A study of inter- and intraspecific behaviors of marine animals and their behavioral responses to the physical environment. The course involves laboratory experiences, field observations and a research project. Prerequisites: BIOL 374 or BIOL 458 or PSYC 130 and background in organismal biology and permission of the instructor.

^{*}Qualifies as a marine-oriented course.



EDUCATION AND PSYCHOLOGY

The Department of Education and Psychology offers two master's degree programs — the Master of Education, a nonthesis program; and the Master of Arts, a thesis program. These programs permit professional enrichment through liberal course selection in the areas of school administration; elementary, junior high, or secondary instruction; counseling; and special education.

The Graduate Programs of the Department of Education and Psychology support the general objectives of the School of Graduate Studies by:

- 1. Teaching research skills and techniques
- 2. Focusing on research in emerging policy, practice, and professional life
- 3. Addressing contemporary issues, needs, and trends in Education and Psychology
- 4. Providing supervised practicums and field experiences in the area of specialization.

In addition to these objectives, the Graduate Programs seek to assist the student in the development of a philosophy of Christian service and education which is supportive of his professional development and practice.

PROGRAM SEQUENCE

The graduate student must assume personal responsibility for initiating all procedures in consultation with an assigned adviser in the Education and Psychology Department. Those working toward a master of arts degree must also follow the thesis requirements as outlined in *Departmental Requirements for Proposals and Theses*.

- Precandidacy Level
 - A. Read all introductory information in this bulletin and follow explicitly the directions given therein.
 - B. Take the *Graduate Record Examinations*, subject and general tests in Education, if these have not been taken previously.
 - C. Apply through the Offices of Admissions and Records for admission to graduate study.
 - D. Upon acceptance to graduate study, consult the chair of the department of Education and Psychology for the assignment of a program adviser.
 - E. In consultation with the assigned adviser, plan the precandidacy phase of the program to include each of the following:
 - 1. Arrangements for the removal of all prerequisite deficiencies.
 - Registration plans for the first 9-15 quarter hours of course work, including Methods of Research or Philosophy of Education.
 - F. Consult with the credential officer if certification is being contemplated.
 - G. Taking no more than 12 hours per quarter, complete your first 9-15 quarter hours exclusive of deficiencies and including Methods of Research or Philosophy of Education. Toward the end of the quarter or summer session in which you expect to meet this requirement, prepare with adviser an Application for Degree Candidacy and Program Approval.

II. Candidacy Level

A. Complete all courses and deficiencies as specified in the approved program of studies. A minimum of 30 approved quarter hours should be earned after advancement to candidacy has been granted by the Graduate Council.

- B. At the *beginning* of the quarter or summer session *in which* you plan to graduate, do each of the following:
 - 1. Submit evidence of experience and certification qualifications.
 - Arrange with the chair of Education and Psychology Department for the selection of an examination committee and for an examination date.

MASTER OF EDUCATION (M.Ed.)

The master of education degree is a nonthesis program with a variety of specialized options designed to enhance the professional competencies of practitioners in education.

By careful planning, a qualified candidate may coordinate many of the requirements for the degree with preparation for state certification. Since completion of minimum degree requirements does not necessarily satisfy certification requirements, students pursuing a certificate must consult with the credential adviser early in their program sequence.

General Prerequisites (applicable to all M.Ed. programs)

In addition to admission requirements for the master's degree as described elsewhere in this bulletin, certain background experiences are prerequisite for all candidates. Deficiencies may be removed after admission to graduate study, but the credit earned thereby will not apply to the minimum degree requirements. Candidates must have the following:

- 1. Thirty quarter hours in professional education. Courses from any department will satisfy the intent of this requirement if the emphasis is on instructional-learning principles, pupil characteristics, teaching methodology, curriculum materials or the role of various school personnel.
- A minimum of nine months of full-time, verified and satisfactory educational work experience. A maximum of 30 quarter hours for the master's degree may be earned prior to the experience, but a minimum of 15 quarter hours must be earned thereafter.

The work experience must fall within the range of professional or paraprofessional activities provided by schools or other educational service agencies. Activities such as classroom teaching, school administration, library work, counseling or work as a dormitory dean will be considered according to its pertinence to the candidate's chosen area of specialization.

Verification of the experience must be by letter from an administrator under whom the experience was gained. The letter should attest to the time spent, the nature of the activities, and the quality of performance. It is the responsibility of the candidate to obtain this verification.

EDUCATION AND PSYCHOLOGY

Other specific prerequisites should also be noted for each area of specialization.

Basic Requirements (applicable to all M.Ed. programs)

Unless otherwise indicated, a minimum M.Ed. program comprises 45 quarter hours. Some programs may include more than this minimum because of the nature of the degree or to provide for the particular needs and interests of the student.

At least 30 quarter hours must be from courses numbered 400 and above. Graduate credit is not granted for courses below the 350 level unless such courses have been specifically approved by the Graduate Council.

All courses included in the degree program must be approved by an assigned adviser in the Education and Psychology Department.

Each program must contain at least 21 quarter hours in basic and professional education courses distributed as follows:

Ten quarter hours in basic courses required of all candidates.

EDUC 561 Methods of Research (before advancement to candidacy)

EDUC 522 Philosophy of Education (before advancement to candidacy)

EDUC 500 Graduate Seminar (toward the end of the program)

PSYC 521 Psychology of Learning

or

EDUC 525 Education in the Twentieth Century

Eleven quarter hours in professional education courses as defined under General Prerequisites No. 1. These 11 quarter hours are additional to those earned to satisfy the basic requirements above. However, they may be an inclusive part of, and not necessarily additional to, professional education courses which may be specified for a chosen area of specialization.

Upon completion of nine to 15 quarter hours, a planned program of study must be submitted for consideration by the staff of the department. Recommendations will then be made to the Graduate Council concerning advancement to degree candidacy.

All candidates who do not already qualify for a certificate must complete the academic requirements for state certification as a teacher, principal or educational staff associate before the degree is granted. It is not necessary to be in possession of the certificate before graduation, but eligibility must be established in all respects excepting that of citizenship. Preparation for the certificate will normally be according to Washington state requirements for either the provisional (initial) or standard (continuing) level. Candidates from out-of-state may produce evidence of qualifying in the state, province or country of their intended future educational employment if a specific certification program exists therein. Otherwise, they must meet the Washington state requirements.

Areas of Specialization

Programs of specialization are sufficiently flexible to meet individual needs while at the same time providing a basic core of substantive fifth-year experience applicable to various state certificates.

Specializations may be planned in the following approved areas:

School Administration
Counseling and Guidance
School Counseling
Special Education Counseling
Elementary Instruction
Special Education
Junior High Instruction

Secondary Instruction in:
Biology, Biophysics, Business,
Chemistry, English, History,
Industrial Arts, Language
Arts, Mathematics, Physical
Education, Physics, Social
Sciences

A candidate wishing to pursue a specialization in an area other than any listed above may submit for consideration by the department staff and the Graduate Council an individualized self-planned proposal itemizing at least 24 quarter hours in the chosen specialization area. Additional supporting credit as needed to complete the degree will be selected in harmony with all other specified degree requirements. It is essential that this type of program be planned in consultation with an assigned adviser in the Department of Education and Psychology.

School Administration

Specialization Prerequisites: Three years of satisfactory certificated classroom teaching. Must have acquired all qualifications for a state-approved teaching certificate.

Area Requirements: 24 quarter hours in courses related to school administration, supervision, curriculum and counseling. Must include the following courses unless they were a part of the undergraduate sequence:

EDUC 504 Elementary Curriculum

or

EDUC 508 Secondary Curriculum

EDUC 526 School Finance

EDUC 544 Administration of the Elementary School

01

EDUC 551 Administration of the Secondary School

EDUC 539 Supervision

EDUC 550 School Law

EDUC 556 Curriculum Planning

PSYC 444 Social Psychology

Eleven additional quarter hours in supporting courses from education and psychology, and/or from other departments, as needed to complete the minimum of 45 quarter hours.

EDUC 560 Administrative Practicum does not apply toward the minimum of 45 quarter hours.

Counseling and Guidance (50 quarter hours minimum)

Specialization P	rerequisites:	
EDUC 210 PSYC 215 PSYC 220 PSYC 350 PSYC 430	Foundations of Education Psychology of Childhood and Adolescence Educational Psychology Elementary Statistics Psychological Testing	3 4 4 4 3
Basic Requireme	ents:	
EDUC 561 EDUC 522 EDUC 500 EDUC 521	Methods of Research Philsophy of Education Graduate Seminar Psychology of Learning	3 3 1 3
Counseling Core:	:	
PSYC 410 EDUC 426 PSYC 431 PSYC 489 PSYC 515 PSYC 518	Behavior Modification Principles and Procedures of Guidance Psychology of Exceptional Children Vocational Development Theory Counseling Theories and Techniques Group Counseling	3 3 3 3 2
Special Education	Counseling Emphasis	
PSYC 533 EDUC 537 PSYC 538 PSYC 563 PSYC 565	Assessment and Instruction of Exceptional Students Instruction of Exceptional Students Counseling Exceptional Students and Parents Field Experience Practicum	4 4 3 3 6
School Counseling	Emphasis	
PSYC 534 PSYC 563 PSYC 565	Assessment of the Individual Field Experience Practicum	2 3 6

Additional supporting courses from education and psychology, and/or from other departments, as needed to complete a minimum of 50 quarter hours specified for the counseling specialization.

The degree in counseling requires completion of the Educational Staff Associates certification program as approved by the state of Washington.

Elementary Instruction

Specialization Prerequisites: A major in elementary education or an equivalent concentration of 45 quarter hours.

Area Requirements: 11 quarter hours in professional education courses as defined under General Prerequisites No. 1. EDUC 390 Educational Evaluation or its equivalent must be included if it was not a part of the undergraduate sequence.

Fifteen quarter hours in academic content courses from departments other than education and psychology. These courses must be in subject-matter areas relevant to the content of the elementary curriculum.

Nine additional quarter hours to complete the minimum of 45 quarter hours.

Special Education

This course of study is designed to meet the requirements for a special education endorsement for certification in the state of Washington.

Specialization Prerequisites: Washington State teacher certification or an equivalent concentration of professional education courses.

Area Requirements:

PSYC 431	Psychology of Exceptional Students	3
SPED 530	Issues and Trends in Special Education	3
SPED 533	Assessment of Exceptional Students	4
SPED 537	Instruction of Exceptional Students	4
SPED 538	Counseling Exceptional Students and Their Parents	3
SPED 578	Field Work — Teaching in Special Education	2
PETH 324	Adapted Physical Education and Recreation	8
5	(required for endorsement, not graduate credit)	(3)
		25

Ten additional quarter hours approved by the adviser in the Department of Education and Psychology to complete the minimum of 45 quarter hours.

Junior High Instruction

Specialization Prerequisites: Majors and/or minors in two content areas chosen for this specialization, or two equivalent subject-matter concentrations with a minimum of 27 quarter hours in each. The two content areas must be in academic subjects commonly taught at junior high level.

Area Requirements: 11 quarter hours in professional education courses as defined under General Prerequisites No. 1. Insofar as possible, these courses should be related to junior high curriculum and instruction.

Fifteen quarter hours in academic content courses from two departments other than education and psychology. These courses must be in the same general areas as the two prerequisite content areas specified above.

Nine additional quarter hours to complete the minimum of 45 quarter hours.

Secondary Instruction

Specialization Prerequisites: A major in the area of content specialization or an equivalent concentration of 45 quarter hours.

Area Requirements: 24 quarter hours in academic content courses related to an approved area of specialization. All courses for the 24 quarter hours specialization must be chosen in consultation with and approved by an adviser in the department(s)

In specialization where only one content area is emphasized (e.g., English), up to six of the 24 quarter hours may be selected from not more than two supporting departments other than the major area of emphasis. In interdisciplinary areas(*), courses must be distributed among areas listed in parentheses according to the needs and interests of the candidates.

The approved areas of specialization are:

Biology

*Biophysics (biology, chemistry, engineering, mathematics, physics) Chemistry

Business Teacher Education

English

History

Industrial Arts

*Language Arts (English, communications, journalism, library science)

Mathematics

Physical Education

Physics

* Social Science (history, political science, sociology)

Eleven quarter hours in professional education courses as defined under General Prerequisites No. 1. Insofar as possible, these courses should be related to secondary curriculum and instruction. All professional education courses must be approved by an assigned adviser in the Education and Psychology Department.

MASTER OF ARTS — IN EDUCATION (M.A.)

In the master of arts program, candidates with appropriate backgrounds may specialize within an approved general area of education according to their interests. The inclusion of a thesis requirement provides an opportunity for the development of scholarly investigative and reporting skills. It particularly serves those wishing to contribute to knowledge through research, or those aspiring toward a higher degree beyond the master's

Qualified candiates seeking denominational or state certification as a teacher, principal or counselor may coordinate many of the requirements of the degree with preparation for the certificate. However, completion of minimum M.A. requirements will rarely satisfy certification requirements in their entirety. Students pursuing a certificate of any kind should consult with the credential adviser early in their pro-

Prerequisites

In addition to admission requirements for the master's degree program, as described elsewhere in this bulletin, an M.A. candidate must meet the prerequisites listed under the chosen area of specialization. Unless specifically noted, there are no requirements with respect to work-experience or certification either prior to or during the degree program.

Deficiences may be removed after admission to graduate study, but the credit earned thereby will not apply to the minimum degree requirements. A plan for the removal of all deficiencies must be submitted prior to advancement to degree candidacy.

Basic Requirements (applicable to all M.A. programs)

Unless otherwise indicated, a minimum M.A. program comprises 45 quarter hours of credit. Some programs may include more than this minimum because of the nature of the specialization or to provide for the particular needs and interests of the student.

A minimum of 24 quarter hours for the M.A. degree must be from courses numbered 500 or above.

All courses included in the degree program must be approved by an assigned adviser in the Education and Psychology Department.

The following courses are required of all candidates:

EDUC 500 Graduate Seminar

EDUC 522 Philosophy of Education (before advancement to candidacy)

EDUC 561 Methods of Research (before advancement to candidacy)

EDUC 509 Thesis

Upon completion of nine to 15 quarter hours, a planned program of study must be submitted for consideration by the staff of the department. Recommendations will then be made to the Graduate Council concerning advancement to degree candidacy.

Areas of Specialization

The program of study for the area of specialization is planned in consultation with the departmental adviser to meet the individual needs and interests of each student. A minimum of 18 quarter hours is required in the chosen area. For many candidates, additional specialization credit beyond the minimum of 18 quarter hours may be desirable or necessary, especially if certification is also being sought.

Specializations may be planned in the following approved areas:

School Administration

Specialization Prerequisites: Three years of satisfactory, certificated classroom teaching.

Area Requirements: 18 quarter hours in courses related to school administration and supervision.

Twelve additional quarter hours to complete the minimum of 45 quarter hours.

Although EDUC 560 Administrative Practicum is required for candidates working toward a Washington state principal's credential, it does not apply toward the minimum of 45 quarter hours.

Curriculum and Instruction

Specialization Prerequisites: 30 quarter hours in professional education. Any course, from any department, will satisfy the intent of this requirement if its emphasis is specifically directed toward instructional-learning principles, pupil characteristics, teaching methodology, curriculum materials, or the role and function of various school personnel.

Not less than nine months of verified, satisfactory educational work experience. Up to 30 quarter hours for the M.A. degree may be earned prior to the experience, but a minimum of 15 quarter hours must be earned thereafter.

Verification of the experience must be by letter from an administrator under whom the experience was gained. The letter should attest to the time spent, the nature of the activities and the quality of performance. It is the responsibility of the candidate to obtain this verification.

Area Requirements: 18 quarter hours in professional education courses as defined under specialization prerequisites, above. Insofar as possible, emphasis should be directed toward one of the following: preschool, elementary, junior high, secondary or higher education. Twelve quarter hours in supporting academic content courses from departments other than education and psychology. These courses must be in subject-matter clearly related to the area of emphasis chosen for specialization. On the junior high, secondary and higher education levels, supporting courses must be from not more than two content areas.

Educational Foundations

Specialization Prerequisites: A minor in psychology or sociology, or an equivalent concentration of 28 quarter hours in one of these areas. Six quarter hours in philosophy and three quarter hours in educational psychology. These quarter hours may be an inclusive part of, and not necessarily additional to, the minor prerequisite stated above.

Area Requirements: 18 quarter hours in not more than two of the following areas: historical, philosophical, sociological and psychological foundations of education.

Candiates specializing in psychological foundations should choose courses related to learning, development, measurement and statistics.

Twelve quarter hours to complete the minimum of 45 quarter hours.

Counseling and Guidance (50 quarter hours minimum)

Specialization Prerequisites: A minor in psychology or an equivalent 28 quarter hours including elementary statistics and a course in child and adolescent development.

Fifteen quarter hours in professional education, as defined under the Specialization Prerequisites for Curriculum and Instruction. These quarter hours may be an inclusive part of, and not necessarily additional to, the minor prerequisite stated above.

Area Requirements: 18 quarter hours in courses related to counseling, psychology and guidance activities or theory. Must include courses in counseling techniques, measurement theory and assessment skills.

Six quarter hours in PSYC 565 Practicum in Counseling.

Eleven quarter hours to complete the minimum of 50 quarter hours specified for the counseling specialization.

Religious Education (45 quarter hours minimum)

Basic/Core Requirements: The basic requirements listed on page 39 of this bulletin, which are applicable to all M.A. programs, will apply. These requirements include both the number of hours which must be taken as well as the specific courses which are required. A total of 12 hours of education courses, in addition to the thesis, will be required.

Prerequisites: A major or minor in Theology or Religion, or 30 approved hours of religion courses with a minimum of nine at the upper division level. Students with deficiencies in this area may, with advisement, take undergraduate religion courses on the WWC campus to fulfill the prerequisite.

Specialization Area Requirements: A minimum of 20 quarter hours of credit in the area of religious studies must be taken. These hours must include at least two classes in the area of Biblical studies, three in the area of theology and ethics and one in the area of religious education methods. An eight hour thesis will be required.

Individualized Option

A candidate wishing to pursue a specialization in an area other than any listed above may submit for consideration by the departmental staff and the Graduate Council an individualized self-planned proposal itemizing at least 18 quarter hours in a chosen specialization area with appropriate prerequisites. Additional supporting credits, as needed to complete the degree, will be selected in harmony with all other specified degree requirements. It is essential that this type of program be planned in consultation with an assigned adviser in the Department of Education and Psychology.

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 initial and continuing 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.

Basic Requirements for Continuing Certificate

To be recommended for the Washington continuing certificate, the candidate must fulfill the following requirements:

Hold a valid Washington initial certificate.

2. Complete three years of successful certificated teaching (K-12).

3. Complete an approved program of 45 quarter hours beyond the initial certificate.

Of the 45 quarter hours, 23 must be in residence; 15 may be earned prior to the first year of teaching; at least 30 quarter hours must be earned after the first year

Planned program must be approved by a certification consultant in the Education Department. It is sometimes possible, with careful planning, for a student to complete the requirements for the master's degree in education and the requirements for the continuing certificate in roughly the same period.

GRADUATE COURSES - Education

EDUC 500 GRADUATE SEMINAR

Discussion periods in which faculty and students explore significant issues through the examination and analysis of research and appropriate literature in the area of education. One quarter hour; maximum, three.

EDUC 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.

EDUC 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.

EDUC 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.

EDUC 525 EDUCATION IN THE TWENTIETH CENTURY Intended to help a student become conversant with significant problems, issues, trends and proposals affecting the theory and practice of education today.

EDUC 526 SCHOOL FINANCE

A course designed for administrators, emphasizing origins and disbursement of school funds. EDUC 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. EDUC 535 CORRECTIVE READING

Analysis, correction and prevention of reading problems are studied along with refinement of group and informal testing. Supervised practicum with pupils having mild disabilities in reading. Prerequisite: EDUC 362.

EDUC 539 SUPERVISION

For principals, classroom teachers or those planning to be supervisors. Identifies duties of both teacher and supervisors, and suggests methods for the improvement of teachers in service through a comprehensive supervision program.

EDUC 544 ADMINISTRATION OF THE ELEMENTARY SCHOOL

3

Organization, supervision and administration of elementary schools.

EDUC 550 SCHOOL LAW

This course is designed to acquaint the student with the legal basis for public and parochial school operation in the United States.

3

EDUC 551 ADMINISTRATION OF THE SECONDARY SCHOOL

Problems and procedures in the organization and administration of secondary schools.

EDUC 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.

EDUC 558 SCHOOL ACTIVITIES

Designed to acquaint the student with a range of the school activities program; to define the purpose of such activities; to provide him with the valid basis for evaluating existing or proposed activities; and to provide opportunity for intensive study of one activity.

EDUC 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. By permission of the department

EDUC 561 METHODS OF RESEARCH

Procedures in the selection and evaluation of research projects and techniques in the analysis of research data.

EDUC 567 COMPARATIVE EDUCATION

A comparison of systems and philosophies of education in various parts of the world; emphasis on the role of cultural impacts.

EDUC 575 READINGS IN EDUCATION

Advanced study confined to topic areas where the student can demonstrate a considerable degree of expertise due to previous formal studies and/or experience. To be done under the guidance and direction of a faculty member. The student will engage in an analysis of current literature. Written and/or oral reports will be required. By permission of the department chairman.

EDUC 581 PROFESSIONAL PROJECT

Selected areas of advanced study involving reading and research. Formal report required. Prere-2-4, 6; 6 quisite: consent of department chairman and graduate standing. Two, four or six hours any quarter; maximum, six.

EDUC 590 THESIS

4, 8; 8

GRADUATE COURSES — Special Education

SPED 530 ISSUES AND TRENDS IN SPECIAL EDUCATION

A study of current literature and legislation pertaining to special education and models for the delivery of these services.

SPED 533 ASSESSMENT OF EXCEPTIONAL STUDENTS

4

Examination and administration of assessment measures for exceptional students. Prerequisite:

SPED 537 INSTRUCTION OF EXCEPTIONAL STUDENTS

Development and implementation of individualized instructional programs.

SPED 538 COUNSELING EXCEPTIONAL STUDENTS AND THEIR PARENTS

Discussion and practice of counseling techniques with parents and students regarding academic, behavioral and vocational concerns.

SPED 578 FIELD WORK AND TEACHING IN SPECIAL EDUCATION

R

GRADUATE COURSES — Psychology/Counseling
PSYC 501 STATISTICS IN RESEARCH An introduction to sampling theory, probability and statistical inference as applied to research analysis and hypothesis testing. Includes simple multivariate techniques and selected distribution-free tests of significance. Prerequisite: PSYC 350 or equivalent.

PSYC 515 COUNSELING THEORIES AND TECHNIQUES

A study and application of the theories and techniques for counseling. Professional relationships and ethics are considered.	tion
PSYC 518 GROUP COUNSELING Theories and techniques of counseling in group situations. Prerequisite: PSYC 515.	2

*	8 Bro-p strattions: Tierequisite, 151C 515.	
PSYC 521 PSYCHOLOGY OF The physiological and psychological perimental evidence supporting p	LEARNING cal bases for functional learning are discussed, and osychological hypotheses is reviewed.	3 the ex-

PSYC 532 INDIVIDUAL TESTING — Intelligence Supervised experience in the administration, interpretation and writing of psychological reports. Several intelligence instruments will be reviewed. Major emphasis, however, will center on Binet and Wechsler Intelligence Scales. Prerequisite: PSYC 430 and permission of the instructor.

PSYC 534 ASSESSMENT OF THE INDIVIDUAL Methods applicable to comprehensive assessment for describing behavior. Experience in the collection and analysis of data will be provided. Prerequisite: PSYC 532. PSYC 563 FIELD EXPERIENCE

Designed to provide a broad spectrum of experience in actual field settings under supervised direction. Permission of the instructor required. PSYC 565 PRACTICUM IN COUNSELING

Professional experience in the counseling function. Prerequisites: PSYC 515; PSYC 534 and permission of the instructor.

GRADUATE COURSES — Religion

RELB 501 ADVANCED NEW TESTAMENT EXEGESIS 3 Study of one of the following portions of the New Testament within its historical and literary context: Synoptic Gospels, Johannine Literature, I Corinthians, Prison Epistles, Acts of the Apostles or Hebrews,

RELB 502 NEW TESTAMENT THEMES Study of the New Testament perspectives on the themes of family life, moral decision-making, sin and salvation and the church and its ministry.

RELB 505 OLD TESTAMENT EXEGESIS Study of Old Testament exegetical method exemplified by in-depth study of Old Testament book or passages.

RELB 508 THE OLD TESTAMENT IN SOCIAL AND CULTURAL PERSPECTIVE 3 Study of recent interpretations of the Old Testament from sociological and anthropological perspectives. Included is a discussion of how western culture has affected the study of the Old

RELH 502 STUDIES IN ADVENTIST HISTORY Study of selected aspects of Adventist history and theology. Key aspects are as follows: Theological and doctrinal development, the history of Adventist institutions, and the theory

and practice of missions and evangelism. RELH 511 READINGS IN SPIRITUAL CLASSICS

A study of writers known for their contribution to the understanding of Christian life and experience. Among such authors are Augustine, Teresa of Avila, John of the Cross, John Wesley and George Fox.

RELP 515 PRACTICUM IN RELIGIOUS EDUCATION Supervised practicum in Religious education. Will take place in school or instructional church settings. Permission of School of Theology required.

RELP 510 FOUNDATIONS OF RELIGIOUS EDUCATION A survey of the scriptural, historical, philosophical and psychological bases of religious education.

LIBR 374 LIBRARY MATERIALS FOR CHILDREN See the Library Science section of the undergraduate bulletin.	
ENGL 374 LITERATURE IN THE ELEMENTARY SCHOOL See the English section of the undergraduate bulletin.	
ENGL 375 LITERATURE IN THE SECONDARY SCHOOL See the English section of the undergraduate bulletin. 3	
EDUC 375 CLASSROOM MANAGEMENT 3 Introduction to varied structuring of the learning environment and the special considerations required in small schools and multigrade classrooms. Explores the human relations within the teaching profession.	
EDUC 390 EDUCATIONAL EVALUATION Introduction to principles and techniques of evaluating classroom elementary and secondary schools.	
HLED 395 METHODS OF SCHOOL HEALTH INSTRUCTION 3 See the Health, Physical Education and Recreation section of the undergraduate bulletin.	
PETH 395 METHODS OF TEACHING SECONDARY PHYSICAL EDUCATION 3 See the Health, Physical Education and Recreation section of the undergraduate bulletin.	
EDUC 404 HISTORY OF EDUCATION Survey of the history of education.	
EDUC 426 PRINCIPLES AND PROCEDURES OF GUIDANCE 3 Introduction to the philosophy, functions, organization, and evaluation of the school guidance programs.	
INDS 428 HANDWORK ACTIVITIES Study of handwork activities as applied to the elementary grades and recreational activities; emphasizes methods of application, materials and processes.	
SOCI 444 SOCIOLOGY OF EDUCATION See the Sociology and Social Work section of the undergraduate bulletin.	
EDUC 450 SOCIAL STUDIES, RELIGION, SCIENCE AND HEALTH IN THE ELEMENTARY SCHOOL Examination of current materials and methodology used in the elementary curriculum in the areas of social studies, religion, science and health. Classroom observation and teaching will be required.	
EDUC 452 DIRECTED TEACHING — In-Service 6 Directed laboratory experience for a teacher desiring to improve his professional skills. Includes training in methods of analysis of teaching and practice in methods of self-analysis. Registration only by permission of the Student Teaching Committee after completion of the required courses in professional education.	

RELT 521 SELECTED THEMES IN THE HISTORY OF CHRISTIAN ETHICS

Themes will include war and violence, sexual ethics, economics, and the relation of Chris-

Examination of selected issues, such as atonement, Christology, creation, eschatology, Sab-

A study of issues currently important in language arts education, with emphasis on research and its practical implications for teaching, functions and programs of the language arts in the

A basic course stressing current theory, effective instructional procedures, learning resources and tutoring experience for teachers of reading in the primary and intermediate grades of the

Survey of the content, media and processes used in teaching mathematics in the elementary

RELT 541 STUDIES IN CHRISTIAN SYSTEMATIC THEOLOGY

EDUC 361 LANGUAGE ARTS IN THE ELEMENTARY SCHOOL

EDUC 362 READING IN THE ELEMENTARY SCHOOL

EDUC 373 MATHEMATICS IN THE ELEMENTARY SCHOOL

SUPPORTING COURSES — Education

bath, salvation, with emphasis on implications for the doctrine of the church.

tians to secular government.

elementary school curriculum.

school; emphasis on newer approaches.

elementary school.

EDUC 474 WORKSHOP

six quarter hours.

EDUC 461 METHODS OF AUDIOVISUAL EDUCATION

EDUC 462 INSTRUCTIONAL AIDS — PRODUCTION

Experiences in the production of instructional aids.

study skills in junior high and secondary reading.

EDUC 477 INDEPENDENT STUDY IN EDUCATION

EDUC 478 ELEMENTARY MICROTEACHING

Survey of the methods of instruction through the use of audiovisual aids.

PETH 473 PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL See the Health, Physical Education and Recreation section of the undergraduate bulletin,

EDUC 475 TEACHING READING SKILLS IN CONTENT AREAS

Workshop in selected areas of educational concern. Designed for both experienced teachers and those preparing to enter the teaching profession. One to three quarter hours; maximum.

Introduction to diagnosis, vocabulary, comprehension skills, rate variation, management and

Directed study in an approved area. Permission from the chairman of the department and supervising instructor is required. One to three quarter hours any quarter; maximum, six quarter hours.

A teaching laboratory to prepare elementary teachers in skills necessary to effective teaching. Students present brief demonstration lessons to a small class of children. Self-evaluation is

2

2

1-3

supplemented by evaluation of supervisors, practicing teachers and peers, along with video recordings. Prerequisite: Admission into Phase II and two methods courses.
EDUC 479 SECONDARY MICROTEACHING Teaching procedures which are applicable at any level are considered. Laboratory practice in certain teaching skills will be provided following the microteaching model. The class will meet one night each week and each student will participate weekly in an afternoon teaching laboratory. Prerequisite: Admission into Phase II and one methods course in the student's major or minor area of study.
EDUC 492 EDUCATION OF THE GIFTED Introduction to the design of learning opportunities for gifted children in the light of their psychological characteristics.
EDUC 493 SYSTEMS OF THOUGHT Intensive study of various aspects of philosophical thinking and their bearing upon education. Emphasizes current writing in education.
EDUC 495 ELEMENTARY SCHOOL GUIDANCE 3 Study of the rationale for elementary school guidance with emphasis upon current research and issues. Focuses the tools and techniques of both classroom and out-of-class guidance functions and services.
SUPPORTING COURSES — Psychology
PSYC 130 is prerequisite to all other courses in psychology.
PSYC 350 ELEMENTARY STATISTICS A Introduction to fundamental procedures for summarizing and interpreting quantitative data from tests and research in the social sciences.
PSYC 360 SMALL GROUP PROCEDURES 3 Study of small group process by the use of simulations, confrontation techniques and role playing. Especially useful for teachers, ministers, nurses and social workers.
PSYC 375 EXPERIMENTAL PROBLEMS Advanced study of experimental design with application to an individual research project. Prerequisite: PSYC 350 or equivalent.

The study of advanced topics through class activities. One to three hours per quarter.

PSYC 400 TOPICS IN PSYCHOLOGY

S	Study of the principles and processes of learning with special emphasis on the shaping and changing of human behavior.	
I	PSYC 415 DYNAMICS OF BEHAVIOR ntroduction to the dynamic mechanisms of human adjustment and behavior.	
S	PSYC 420 INTRODUCTION TO CLINICAL PSYCHOLOGY 3 introduction to the application of psychological theories and techniques as used in the clinical etting. Surveys various approaches to treatment of emotional problems in clinical practice, ospital and community settings.	
E	SYC 425 PSYCHOLOGY AND RELIGION Examination of psychological concepts and human behavior from a biblical and theological erspective.	
S	SYC 430 PSYCHOLOGICAL TESTING tudy of the principles of test selection, administration and interpretation; consideration of the contributions and limitation of the major types of standardized tests and inventories used in the behavioral sciences.	
S	SYC 431 PSYCHOLOGY OF EXCEPTIONAL CHILDREN 3 tudy of the characteristics and problems of exceptional children; consideration of essential ducational adaptation.	
	SYC 442 MOTIVATION tudy of basic drives and causes of behavior in organisms with emphasis upon human behavior.	

Exploration of the characteristics of social organizations, their structure and systems of communication with particular emphasis on the problems of bringing about change within social

PSYC 405 PSYCHOLOGY OF ORGANIZATIONAL CHANGE

organizations (i.e., churches, communities, schools, businesses, etc.)

DOVO 40 DETENTOR PROFESSION

PSYC 444 SOCIAL PSYCHOLOGY

temporary society.

PSYC 445 SOCIAL PSYCHOLOGY LABORATORY Corequisite: PSYC 444.

Study of the dynamics of social interaction and interpersonal behavior with application to con-

PSYC 446 PSYCHOLOGY OF PERSONALITY
Study of theories concerning personality development, assessment and adjustment.

PSYC 449 MENTAL HEALTH
Study of physiological and psychological factors related to emotional maturity; individual mental health, classroom climate, patterns of acceptance and rejection.

PSYC 460 CHILDHOOD LEARNING DISORDERS

Introduction to play therapy and psychoeducational programs with emphasis on perceptual, sensory and motor areas. Designed for teachers and counselors of young children in both early childhood and elementary school levels. Prerequisite: PSYC 215.

PSYC 464 COUNSELING RELATIONSHIPS

Introduction to psychological theory and skills essential for developing effective and helping relationships with individuals and groups.

PSYC 465 COUNSELING SEMINAR

1; 3
Group discussions of counseling experiences for students planning on counseling careers. Prerequisite: PSYC 464 or permission of the isntructor.

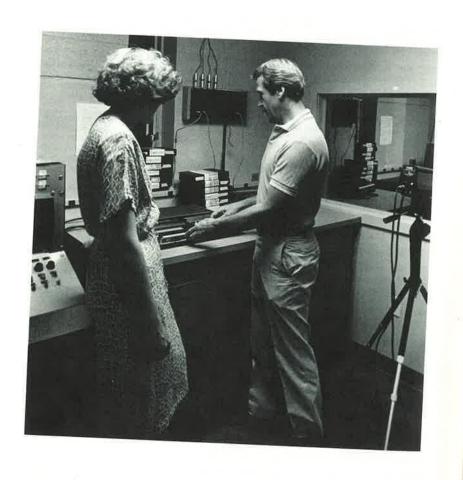
PSYC 489 VOCATIONAL DEVELOPMENT THEORY

Study of theories of vocational choice and methods of studying occupations and occupational information as they relate to educational and vocational guidance.

PSYC 490 ABNORMAL PSYCHOLOGY
Study of behavioral disturbances, therapeutic measures and theories.

SUPPORTING COURSES — General

Selected courses are available, with advisement, from the following departments: Art, Biology, Business, Chemistry, Communications, English, Health, Industrial Technology, Physical and Recreational Education, History, Home Economics, Library Science, Mathematics, Modern Languages, Music, Office Administration, Physics, Sociology and Social Work.



See the undergraduate bulletin for course descriptions and prerequisites:

ART 364, 365, 366 SCULPTURE	
ART 400 TOPICS IN ADT	2, 2, 2
The study of advanced topics through class activities. On the	1-3

The study of advanced topics through class activities. One to three hours per quarter. ART 479 DIRECTED RESEARCH/PROJECT One to three hours any quarter; maximum, six. 1-3; 6

BIOLOGICAL SCIENCES (See pages 25-29)

BUSINESS

400 TOPICS IN BUSINESS The study of advanced topics through	
The study of advanced topics through class activities. One to three hours per ACCT 421 ADVANCED ACCOUNTING	1-3 quarter.
ACCT 423 CPA REVIEW	4
ACCT 427 FUND ACCOUNTING	4
ACCT 430 AUDITING CONCEPTS	4
ACCT 431 AUDITING PRACTICES	3
BUED 474 WORKSHOP IN BUSINESS EDUCATION	3
	13.6
Permission of chair of department required. One to three hours per quarter; max BUED 491 PRINCIPLES OF BUSINESS EDUCATION	imum, six.
BUED 496 SEMINAR IN BUSINESS EDUCATION	2
ECON 441 MONEY AND BANKING	2
ECON 443 COMPARATIVE ECONOMIC SYSTEMS	4
ECON 455 PUBLIC FINANCE	4
FINA 451 INVESTMENTS	4
FINA 453 CREDIT ADMINISTRATION	4
MGMT 379 COMPENSATION MANAGEMENT	4
MGMT 475 HEALTH CARE ORGANIZATION AND MANAGEMENT	3
MGMT 476 MOTIVATION AND LEADERSHIP	2
MGMT 479 BUSINESS STRATEGY AND POLICIES	4
MKTG 481 PUBLIC RELATIONS	4
MKTG 485 RETAIL STORE OPEN ATTON	4
MKTG 485 RETAIL STORE OPERATION AND MANAGEMENT	4
THE ANGES	•

CHEMISTRY

STEWISTKI	
CHEM 351, 352, 353 PHYSICAL CHEMISTRY	
CHEM 354, 355, 356 PHYSICAL CHEMISTRY LAD	3, 3, 3
CHEWI 400 TOPICS IN CHEMISTRY	1, 1, 1
CHEM 427 ORGANIC STRUCTURES AND MECHANISMS	1-3
THE MECHANISMS	3

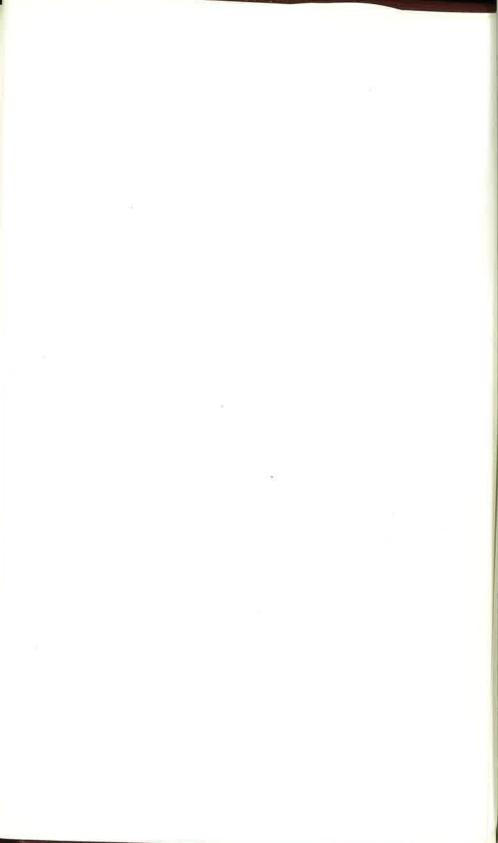
CHEM 428 ORGANIC SYNTHESIS	
CHEM 431, 432 BIOCHEMISTRY	3
CHEM 461 OPTICAL INSTRUMENTAL METHODS	4, 4
CHEM 462 NON-OPTICAL INSTRUMENTAL METHODS	3
CHEM 479 DIRECTED RESEARCH/PROJECT	3
	1-3; 6
COMMUNICATIONS	
SPCH 400 TOPPORT	3
SPCH 400 TOPICS IN COMMUNICATION	1-3
SPCH 401 INTRODUCTION TO GENERAL SEMANTICS	2
SPCH 443 PERSUASIVE SPEAKING	4
SPCH 453 RHETORIC OF WESTERN THOUGHT	3
SPCH 479 DIRECTED RESEARCH/PROJECT	1-3; 6
SPEECH PATHOLOGY AND AUDIOLOGY	13, 0
SPPA 372 AUDIOMETRY	
SPPA 385 LANGUAGE DISORDERS	3
SPPA 461 DIAGNOSIS IN SPEECH-LANGUAGE PATHOLOGY	4
SPPA 473 CLEFT PALATE	3
SPPA 475 VOICE DISORDERS	3
	3
JOURNALISM	
JOUR 400 TOPICS IN JOURNALISM	1-3
JOUR 412 SCRIPT WRITING	3
JOUR 479 DIRECTED RESEARCH/PROJECT	1-3; 6
ENGLISH	10,0
ENGL 354 ROMANTIC ENGLISH LITERATURE	
ENGL 355 VICTORIAN LITERATURE	4
ENGL 356 TWENTIETH-CENTURY ENGLISH LITERATURE	4
ENGL 364 ROMANTIC AMERICAN LITERATURE	4
ENGL 365 AMERICAN REALISM AND NATURALISM	4
ENGL 366 TWENTIETH-CENTURY AMERICAN LITERATURE	4
ENGL 374 LITERATURE IN THE ELEMENTARY SCHOOL	4
ENGL 375 LITERATURE IN THE SECONDARY SCHOOL	3
ENGL 394 DIRECTED READING	3
	1-2
ENGL 395 METHODS OF TEACHING HIGH SCHOOL ENGLISH ENGL 444 MAJOR AUTHOR	3
ENGL 445 SHAKESPEARE	3
ENGL 454 LITERATURE OF THE BIBLE	3
ENGL 455 CLASSICAL BACKGROUNDS	4
ENGL 464 DEVELOPMENT OF ENGLISH DRAMA	3
DEVELOTIVENT OF ENGLISH DRAMA	3

	COOKSES
ENGL 466 LITERARY AND CRITICAL THEORY	
ENGL 479 DIRECTED RESEARCH/PROJECT	3
ENGL 484 HISTORY OF THE ENGLISH LANGUAGE	1-3; 6
ENGL 496, 497 SEMINAR	3
HEALTH, PHYSICAL AND RECREATION	1, 2
PETH 363, 364, 365 COACHING OF TEAM ACTIVITIES	
PETH 395 METHODS OF TEACHING SECONDARY PHYSICAL EDUCATION	3, 3, 3
PETH 400 TOPICS IN PHYSICAL EDUCATION	3
PETH 426 PHYSIOLOGY OF EXERCISE	1-3
PETH 473 PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL	4
PETH 479 DIRECTED RESEARCH/PROJECT	3
PETH 484 ADMINISTRATION OF HEALTH, PHYSICAL EDUCATION AND RECREATION	1-3; 6
PETH 494 HISTORY AND PHILOSOPHY OF PHYSICAL EDUCATION	3
PETH 496 SEMINAR	3
HISTORY AND DOLLERY CLE	1
HISTORY AND POLITICAL SCIENCE HIST 400 TOPICS IN HISTORY	
	1-3
HIST 479 DIRECTED RESEARCH/PROJECT HIST 496, 497 SEMINAR	1-3; 6
	0, 3
American History	ŕ
HIST 424 THE AMERICAN FRONTIER	
HIST 445 CIVIL WAR AND RISE OF INDUSTRIAL AMERICA	4
THE PACIFIC NORTHWEST	
HIST 448 TWENTIETH CENTURY AMERICA	4
HIST 457 SOCIAL AND INTELLECTUAL HISTORY OF THE U.S.	4
European History	4
HIST 435 HISTORY OF MODERN GERMANY HIST 463 THE MIDDLE AGES	4
HIST 465 RENAISSANCE AND REFORMATION	4
HIST 467 ENLIGHTENMENT AND REVOLUTION	4
HIST 468 THE MODERN TRANSITION, 1815-1919	4
HIST 469 CONTEMPORADY FURDERS AND ASSESSED TO STATE OF THE POPULATION ASSESSED TO STATE OF THE POPULATION ASSESSED.	4
HIST 469 CONTEMPORARY EUROPE, 1918 TO THE PRESENT	4
Political Science	
PLSC 400 TOPICS IN POLITICAL SCIENCE	1.2
PLSC 426 AMERICAN POLITICAL THOUGHT	1-3
PLSC 427 AMERICAN DIPLOMATIC HISTORY	4
PLSC 434 INTERNATIONAL RELATIONS	4

PLSC 454 WESTERN POLITICAL AND SOCIAL THOUGHT	4
PLSC 455 WESTERN POLITICAL AND SOCIAL THEORY	
	4
HOME ECONOMICS	
FDNT 412 FOOD IN CULTURES OF THE WORLD	3
FDNT 422 EXPERIMENTAL COOKERY	3
FDNT 437 COMMUNITY NUTRITION	3
FDNT 441 ADVANCED NUTRITION	3
FDNT 443 DIET IN DISEASE	4
FDNT 448 INSTITUTIONAL FOOD MANAGEMENT	4
HMEC 395 METHODS OF TEACHING HOME ECONOMICS	3
HMEC 400 TOPICS IN HOME ECONOMICS	1-3
HMEC 403 ADVANCED WEAVING	3
HMEC 424 HOUSING AND INTERIORS	3
HMEC 461 TAILORING	3
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