

1-1-1987

# Whitworth College Bulletin 1987-1989

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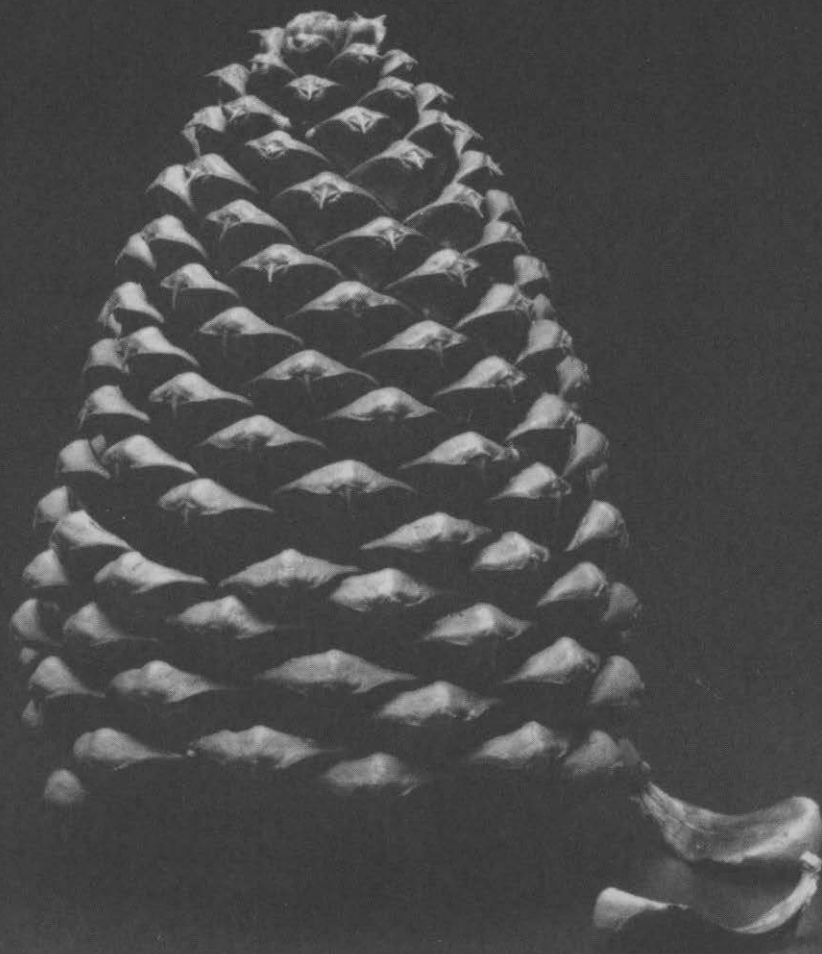
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P O S S I B I L I T I E S

*at Whitworth College*



WHITWORTH  
HERITAGE  
COLLECTION

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1987-  
1989



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*This institution provides equal opportunity in Education without regard to race, color, religion, national origin, sex, or handicap as defined by law, in accordance with Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Sections 799A and 845 of the Public Health Service Act, and Section 504 of the Rehabilitation Act of 1973.*

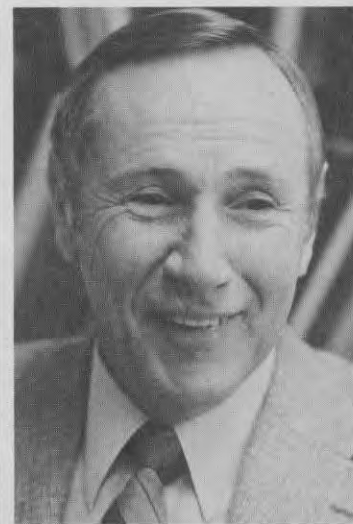


*"This is a great day for a genuinely Christian institution of higher education. We offer an unmatched combination—the centrality of Jesus Christ and the relevance and adaptability of a liberal arts education."*

## OUR MISSION

### **Mission Statement**

The primary mission of Whitworth College is to glorify God by providing its students with an educational experience distinguished by excellence, oriented by a world view shaped by Scripture, and designed to prepare graduates for effective life, work, and service throughout the world. Whitworth College is affiliated with the Presbyterian Church (USA) and stands within the historic reformed tradition. It strives to achieve its educational goals by providing a faculty of scholars committed to Jesus Christ, an atmosphere of open dialogue, and a residential environment that enhances and complements the academic experience.



**Robert H. Mounce**  
*President, Whitworth College*



*“The purpose of this college is to give to men and women a thorough course of education, guarding well the moral and religious life of the students, ever directing them in the pursuit of that learning of heart and mind that makes the finished scholar.”*

*(Whitworth College Catalogue, 1890)*

## OUR HERITAGE

Young George Whitworth was a man of restless energy, little like the stern-looking man whose portrait resides in the college archives. Trained as a harness maker, a lawyer and a minister, he was an optimist who didn't allow disappointment to deter him.

In 1852 when he was a young minister in the Ohio Valley, he wrote in his journal of his dream—a colony of Presbyterians on Puget Sound with “a good parochial school” offering “a good English education and a thorough religious training.”

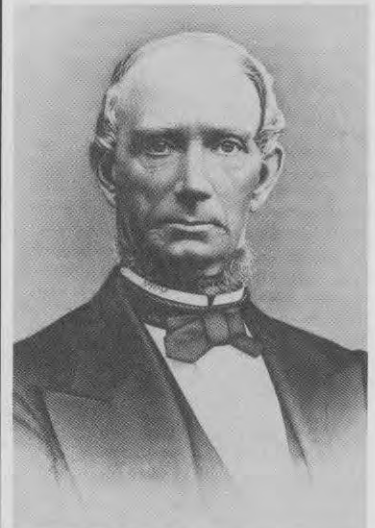
Fifty families signed up for his mission trek across the plains to the Northwest. Then they began to back out and drop off. When he arrived in Portland in 1853, only his own family was with him. His dream deferred, he spent the next 30 years becoming a leading citizen of the Puget Sound region.

He farmed, practiced law, served in government and pioneered in education. He founded 15 churches and served two terms as president of the Territorial University, later renamed the University of Washington.

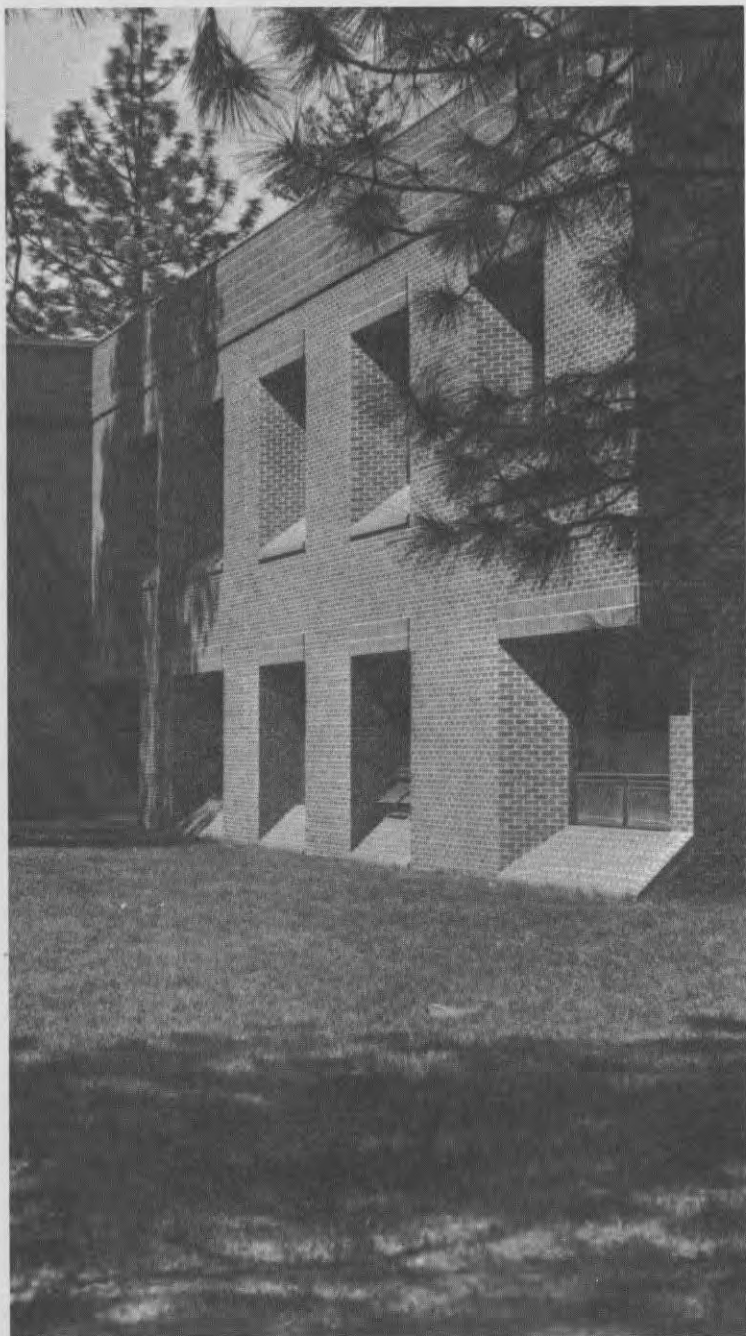
In 1883, in the village of Sumner, southeast of Tacoma, he revived the dream and founded Sumner Academy. Seven years later, on February 20, 1890, the school was incorporated as Whitworth College.

By 1899, the college had outgrown the rural community of Sumner and moved into town—Tacoma.

When support in Tacoma began to decline, the trustees cast about for an opportunity to move. Spokane real estate developer Jay P. Graves had long held a dream of a college on Spokane's north side. He offered 640 acres in his Country Homes Estates and in September, 1914, Whitworth opened its doors in Spokane, its new and permanent home.



**George Whitworth**



## OUR CAMPUS

Whitworth's two hundred acres of fragrant pines and grassy meadows are an appealing setting for its 40 buildings of warm red brick. The buildings form an oval perimeter around the Loop, a favorite spot for reading under a tree, frisbee-throwing and pickup volleyball. At one end, the Campanile chimes the hour.

Serene and restful, the campus is surrounded by stately residences providing a quiet buffer from the shopping centers near at hand. Only 14 minutes away is the center of the city, with more shopping and cultural diversions.

Twelve residence halls offer a spectrum of living environments. Among the other major buildings are the Cowles Library, Johnston Science Center, Whitworth Music Building, Seeley Mudd Chapel, Cowles Auditorium, Whitworth

Fieldhouse and Aquatic Center, Lindaman Seminar Center and Hardwick Union Building.

The Whitworth student body in Fall 1985 numbered 1803, including 1231 full-time undergraduate students, 227 graduate students, and 345 in part-time and continuing studies programs. The student body has representation from 15 foreign countries, 28 states, three American territories, and 37 of the 39 counties in the state of Washington. Over 350 students receive degrees each year, including an average of 50 at the master's level.

Our campus is a friendly place, and we encourage you to visit us and discover its delights for yourself. Simply call the Office of Admissions, (509) 466-3212 to arrange for a tour.



## OUR CITY

Spokane, the All-American City. A vibrant downtown with exciting specialty shops, appealing restaurants, major department stores, theatres and financial and professional services. Ten blocks of them are connected by a sleek, efficient, fully enclosed system of skywalks.

There's a plentiful cultural life, too. The elegant Opera House adjoins the Convention Center beside the Spokane River. Nationally acclaimed artists, the Spokane Symphony, the Spokane Ballet and other fine local talent appear on its stage in concerts, comedies, symphonies, lectures, operas and travelogues. There's live theatre in town by repertory and dinner theatre companies and at the Spokane Civic Theatre, and active local arts organizations such as the Spokane Falls Brass Band, Connoisseur Concerts (early music), and the Spokane Jazz Society.

Spokane at its heart is quiet, though. At its center is Riverfront Park, site of the 1974 World's Fair, 100 acres of gentle hills, lush lawn and greenery, footpaths, bridges and natural amphitheatres. It surrounds the banks of the powerful Spokane River with its cascading falls. Here you pause to ride the turn-of-the-century carousel, hear an outdoor concert or snooze on a grassy meadow.

All this, skywalks, shops, the river and the park are a mere 14 minutes from campus. And there's more beyond.

Close at hand are 12 national parks, 76 lakes and 15 national forests. Thirty minutes out of town, you can hike, camp, fish or hunt. You can go canoeing within the city limits. Spokane's 10 public golf courses are rated among the best in the nation, and four major ski areas are within a two hour drive. (Equipment for all this is no problem, Whitworth's Wilderness Activities Office has all you'll need.)

In this abundant environment with its four distinct seasons, people have a great zest for living. So be warned. Once you've tasted the Spokane lifestyle, you may never want to leave.

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## ACCREDITATION

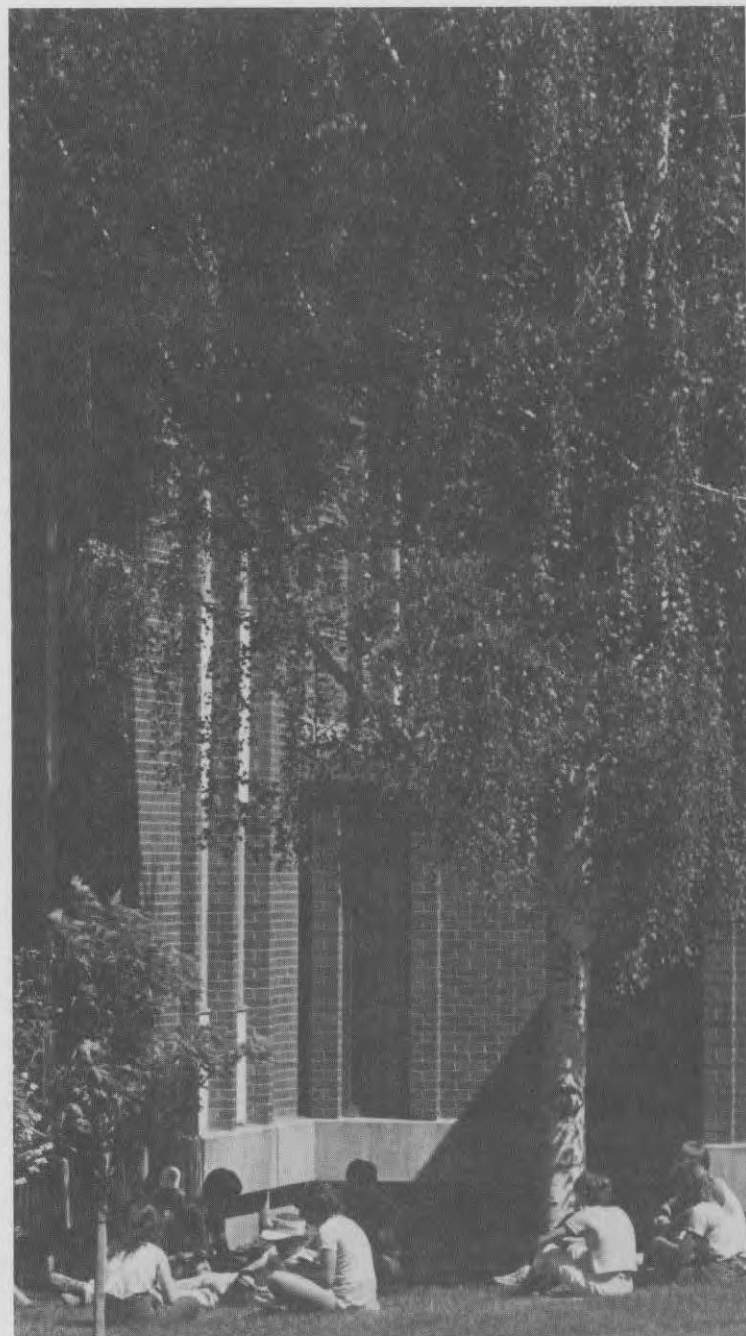
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Whitworth College is fully accredited by the Northwest Association of Schools and Colleges, the National Association of Schools of Music and the National Council for Accreditation of Teacher Education.

It is also a member of Association of American Colleges, the Presbyterian College Union and the Christian College Coalition. It is on the approved list of the American Association of University Women and the National Council on Church-Related Colleges.

In 1983, Whitworth was ranked third in the West for undergraduate education among the nation's 202 small comprehensive universities in a survey reported by *U.S. News and World Report*, and in 1985 was designated a "best buy" in higher education by *New York Times* Education Editor Edward Fiske in his book, "The Best Buys in Higher Education."

The college is affiliated with the Synod of Alaska-Northwest of the Presbyterian Church (U.S.A.).





# ACADEMIC DEGREES AND PROGRAMS

There is a national discussion about education going on. We are a "nation at risk;" our schools are being examined critically; colleges and universities are examining their programs and looking for ways to improve them. We are concerned about the basic skills of reading, writing and quantitative reasoning. We are concerned about the sophisticated challenges which await today's college graduates. People are wondering about the values behind education, about the criteria we should use when we make decisions which affect our own lives and the lives of others.

In many ways, Whitworth College feels that its educational stance is being confirmed by this national debate. Whitworth has not departed from its commitment to strong, broadly based liberal arts education, rooted in and guided by our Christian commitment. Our mission and goals are more relevant to the task of education today than ever.

However, we will not be complacent about our accomplishments. In these next years, there will be continuing improvement of our curriculum and our facilities. There will be more rigor. Our graduates will find more opportunities to develop their skills in analytical and critical thinking. They will be challenged to become more effective communicators as well as thinkers. A

strong college program must be a constantly changing program. Therefore, as you read about the educational possibilities awaiting you at Whitworth, be aware that there may be changes in these next few years which will ensure that we are meeting our goals even more effectively than we are now.

The following departments and programs offer the Bachelor of Arts and/or Bachelor of Science degree, and are listed consecutively in this catalog:

- Art (p. 11)**—Tracks in Painting/Drawing/Sculpture, Craft, Art Education, Art History
- Biology (p. 14)**—Bachelor of Arts, Bachelor of Science
- Business Management, Accounting and Economic Studies (p. 16)**—Majors in Business Management, Health Services Management, Accounting
- Chemistry (p. 19)**—Bachelor of Arts, Bachelor of Science
- Communication Studies (p. 21)**—Tracks in Journalism, Speech Communication, General Communication
- Education (p. 24)**—Certification Requirements at the Elementary, Secondary, and K-12 levels
- English (p. 32)**—Tracks in Literature, Writing, Teaching English, Teaching Language and Literature

**Health Education, Physical Education, Recreation and Athletics (p. 35)**—Majors in Physical Education, Health Education, Recreation; Options in Sports Medicine, Developmental Disability Recreation

**History/Political Studies (p. 40)**—Majors in History, History Education, Political Studies, International Studies

**Mathematics/Computer Science (p. 44)**—Majors in Mathematics, Computer Science (Bachelor of Arts, Bachelor of Science in each)

**Modern Languages (p. 47)**—Majors in French, Spanish

**Music (p. 49)**—Majors in Music, Music Education, Emphases in Piano Performance, Vocal Performance, Church Music, Composition

**Nursing (p. 53)**—Bachelor of Science in Nursing

**Nutrition (p. 57)**—Tracks in Food Management, World Nutrition, Professional Nutrition

**Physics and Geology (p. 58)**—Majors in Physics, Geology (Bachelor of Arts, Bachelor of Science in each), Pre-Engineering Program

**Psychology (p. 60)**

**Religion and Philosophy (p. 61)**—Tracks in Biblical Studies, Ministry, Religious Thought and History, Major in Philosophy, Pre-Ministry Program

**Sociology (p. 64)**

**Theatre Arts (p. 66)**

Also, Whitworth offers interdisciplinary Areas of Concentration. In many cases, these programs are individually created by a student and his or her advisors, to meet particular interests, talents, or career goals.

Those Areas of Concentration which have been approved for general student use are listed below, along with the department in which the program requirements are listed in this catalog.

- American Studies (History/Political Studies)
- Arts Administration (Art)
- Communication and Business (Communication)
- Communication and Marketing (Communication)
- Cross-Cultural Studies (History/Political Studies)
- Industrial Management (Business)
- International Business Communication (Modern Languages)
- International Studies (History/Political Studies)
- International Trade and Politics (History)
- Music as Religious Expression (Music)
- Peace Studies (History/Political Studies)
- Public Affairs Communication (Communication)
- Public Policy (History/Political Studies)
- Public Relations (Communication)
- Religious Communication (Communication)

Students intending to enter professional schools or the seminary are encouraged to pursue a broad liberal arts course of study. Criteria for these programs, where students receive a 4-year Whitworth degree before pursuing advanced studies are described in this catalog as follows:

- Pre-dental (Studies in the Health Professions)
- Pre-law (History/Political Studies)
- Pre-medicine (Studies in the Health Professions)

Pre-ministry (Religion/  
Philosophy)

Pre-veterinary medicine (Studies  
in the Health Professions)

In addition, Whitworth offers two-year programs for students pursuing career goals in academic areas not offered by Whitworth. Suggested courses of study for these areas, not resulting in a Whitworth degree, are described in this catalog for the following disciplines:

Pre-dental Hygiene (Studies in  
the Health Professions)

Pre-Engineering  
(Physics/Geology)

Pre-Occupational Therapy (Studies  
in the Health Professions)

Pre-medical Technology (Studies  
in the Health Professions)

Pre-pharmacy (Studies in the  
Health Professions)

Pre-physical Therapy (Studies  
in the Health Professions)

Whitworth is closely connected with other higher education institutions in the Spokane area through a series of consortium and other cooperative agreements.

Students pursuing the Bachelor of Science degree in Nursing apply for admission to the Intercollegiate Center for Nursing Education, of which Whitworth College, Washington State University, and Eastern Washington University are consortium members. The Master of Nursing degree is also offered.

Language students have a greatly expanded opportunity to pursue upper division studies in French, German, and Spanish, and lower level classes in Russian, Chinese, Korean and Japanese in jointly taught courses through the Intercollegiate Language Study Consortium, com-

prised of Whitworth College, Gonzaga University and Eastern Washington University.

Scholarships and Military Science course work are offered under the auspices of the Army R.O.T.C. based on the Gonzaga University campus, but available to Whitworth students.

Whitworth is a member of the Spokane Consortium for International Studies, which provides career counseling in international affairs and cross-registration for selected courses in international studies programs at Eastern Washington University. In addition to Eastern and Whitworth, consortium members are Gonzaga University, Spokane Community College, and Spokane Falls Community College.

In cases where a student needs a particular course not offered by Whitworth, a limited cross-registration agreement exists between Whitworth, Gonzaga University, and Heritage College-Spokane Campus.

## EDUCATIONAL PHILOSOPHY AND GOALS

### EDUCATIONAL PHILOSOPHY

The enduring vision for nearly a century at Whitworth has been the pursuit of intellectual and spiritual development. Through decades of change, this fundamental purpose has remained firmly centered in the person of Jesus Christ. Our understanding of Christ is based on Scripture, the inspired and trustworthy record of God's self-disclosure and our final rule for faith and practice. As a college affiliated with the Presbyterian Church (USA), Whitworth stands within the historic reformed tradition.

Believing that God is the ultimate source of all truth and that He has enjoined us to love Him with "all our mind," Whitworth embraces freedom of inquiry and the unhindered pursuit of truth.

Whitworth is dedicated to academic excellence as expressed through its core of liberal arts and sciences and through in-depth disciplinary and interdisciplinary study. The Whitworth education is designed to broaden the students' understanding of our cultural heritage, to promote critical thinking, to prepare for productive work, and to stimulate creativity in responding to the challenges of life. In both its lib-

eral arts undergraduate programs and its graduate professional programs, Whitworth employs a wide variety of pedagogical approaches. It emphasizes responsible action as the logical result of effective learning.

Whitworth is strongly committed to the educational value of a residential environment and is diligent in providing a range of learning opportunities. As a Christian institution, it takes with all seriousness its responsibility to help students understand and respond compassionately to the needs of the world. Recognizing that contemporary society is globally interdependent and increasingly calls for a cross-cultural perspective, Whitworth promotes concern not only for domestic issues but for matters of international import as well. The college welcomes to its campus students of other religious and cultural traditions, convinced that their presence deepens our understanding of the world. Whitworth respects the uniqueness of each individual and, therefore, encourages each toward self-understanding, optimum personal development, and respect for differences.

Whitworth is determined to foster in its students a desire for independent and lifelong learn-

ing. Of critical importance is the challenge to explore the relationships among faith, learning, and culture. The college desires to graduate men and women who possess both the competence and the willingness to work toward a world in which the truth of God's redemptive love in Christ will be increasingly honored.

### EDUCATIONAL GOALS

1. To help students develop intellectual breadth—to enlarge their understanding and enjoyment of the world around them through balanced and coherent study of the arts, the humanities, and the natural and social sciences. We are especially concerned that all achieve a clearer understanding of the vital role that the Judeo-Christian tradition has played in the development of Western civilization.
2. To help students develop intellectual depth—to let them experience the joy of mastering one of the academic disciplines. We seek not only to prepare students for challenging and successful careers, but also to inspire them to a lifetime of vigorous intellectual inquiry.
3. To enable students to use the tools of analytical and creative thinking—to collect, process, and apply knowledge and to imagine possibilities.
4. To teach students to communicate effectively by deliberate listening and clear, persuasive speech and writing, and to participate actively and responsively in artistic expression.
5. To promote the personal growth of students in the con-

text of a close-knit residential campus—to help students gain a better understanding of themselves, establish a healthy way of life, form enduring friendships, and exhibit respect for their neighbors in this or any community.

6. To foster in students an understanding of other cultures within the nation and the world and an appreciation for the richness and interdependence of a multicultural community.
7. To encourage students to give serious consideration to making a personal commitment to Christ and His church. This commitment is a process that produces a life of discipleship based on an understanding of the individual and corporate values of the Kingdom of God.
8. To challenge students to live public and private lives that embody their personal convictions—to face ambiguity and evil courageously as they seek creative solutions for the problems that will confront them and their families, their communities, nation, and world.

# REQUIREMENTS FOR GRADUATION

## General Graduation Requirements

As of the Fall Term of 1987, additional graduation requirements will become a part of the Whitworth curriculum for all entering students. These requirements will include an additional communication requirement, so that all graduates will demonstrate proficiency in both written and oral communication; a third interdisciplinary Core course CO 350, The Scientific Tradition, and a one course requirement in the Humanities. A supplement to this catalog will be published during the summer of 1987 to describe the course offerings which will meet these requirements.

1. **Written Communication:** One of the following: EL 110 (Writing I), EL 210 (Writing II, by permission), JR 125 (Writing for Mass Media), or other courses which will be announced in the 1987 Supplement.

All entering freshmen will be given a writing test to ascertain their level of ability. Those freshmen scoring below the acceptable level will be required to take EL 093 (Developing Writing Skills) in their first semester at Whitworth and must earn a grade of C or above in this course **before** they may take one of the above listed courses to meet the Written Communication requirement. Students not earning a C or

above in EL 093 will be required to take the course again the next time it is offered.

2. **Oral Communication.** One course from: SP 210 (Introduction to Public Speaking), or other courses which will be announced in the 1987 Supplement.

3. **Core 150** (The Judeo-Christian Tradition), 250 (The Rationalist Tradition), and 350 (The Scientific Tradition).

4. **Foreign Language:** two courses in the same language, two years of the same high school foreign language with a B average, or demonstrated proficiency.

5. **Physical Education:** four activity courses, at least one of which is to be chosen from the following: PE 114 (Slimnastics); PE 126 (Foundation of Physical Activity); PE 132 (Fitness Programs); PE 134 (Jogging/Aerobics); PE 144 (Conditioning through Dance), PE 149 (Swimming for Fitness).

**NOTE:** Students admitted to Whitworth before Fall 1984 will fall under the general Physical Education requirement listed in catalogs from 1976 to 1984.

6. **Fine Arts:** One of the following: FA 101 (Introduction to the Fine Arts); one full course in art, music or theatre; four quarter courses in music performance.

7. **Humanities.** This requirement becomes effective with students admitted in the Fall Term of 1987. Specific courses to meet

## 10 REQUIREMENTS FOR GRADUATION

this requirement will be announced in the 1987 Supplement.

8. Natural Science/Mathematics: One course each from two of the following areas: Biology, Chemistry, Geology, Physics, Mathematics. Math 101 does not fulfill this requirement. Courses in computer science do not fulfill this requirement.

Beginning with Fall Term 1987, all entering freshmen will be given a test to ascertain their level of ability in the areas of arithmetic and algebraic reasoning. Those freshmen scoring below the acceptable level will be required to take MA 064 (Arithmetic Review) and/or MA 094 (Introduction to Algebra) in their first semester at Whitworth and must earn a grade of C or above in the course(s) as part of their graduation requirement. Students not earning a C or above in MA 064 and/or MA 094 will be required to take the course again the next time it is offered.

9. Biblical Literature: one course chosen from the following: Religion 230, 231, 241, 242, or a course in the Religion Department dealing with one or more books of the Bible.

10. Social Sciences: one course in Economics, History, Political Studies, Psychology or Sociology.

11. Other Culture: one course taken in a foreign country, or an approved off-campus course dealing with a major American ethnic culture, or a designated cross-culture studies course taken on campus. Field studies or internships with significant attention to another culture may qualify with approval from the Director of Field Education. The following

on-campus courses may be taken to fulfill this requirement: BI 104 (Human Ecology), HI 245 (Cultural History of China and Japan), HI 325 (History of Latin America), HI/PO 340 (Contemporary Africa), HI/PO 341 (Contemporary South Africa), HI/PO 366 (Modern Russia and the Soviet Union); HI/PO 455 (Contemporary China and East Asia), HS 474/574 (Cross-Cultural Issues in Health Care), RE 272 (World Religions), SO 227/327 (Contemporary Latin American Problems), SO 236 (Sociology of Black Americans), SO 265/365 (Urban Communities), SO 238 (Sociology of the Middle East), SP 394 (Intercultural Communication).

12. On-campus living. Effective Fall 1985, all Whitworth students are expected to complete one year of residential experience in one of Whitworth's dormitories. It is intended that students will complete this educational requirement in their first year. Exceptions: Spokane-area students living with their parents, students over the age of 22 at entrance, transfer students with one year of residential experience elsewhere, senior-standing transfer students, married students, handicapped students, and students who have a restrictive diet or other health requirements.

13. Total Courses: 37 full courses plus Physical Education requirement (see #5 above). Twelve upper division courses.

14. Residency: at least 8.5 courses must be completed in residence at Whitworth College, including the last term senior year.

15. Grade Point Average: A student must accumulate a 2.00 average in (1) all Whitworth

courses, (2) all college-level courses taken, including transfer work, (3) courses in the declared major or area of concentration.

### Academic Credit and Evaluation

One course credit is equivalent to 5 quarter hours or 3½ semester hours. Some courses receive fractional course credit.

Evaluation of course work is made in a variety of ways depending on the nature of the

course. Mid-term grades are given to students receiving D or F grades so that there is opportunity to improve performance. Final letter grades (A,B,C,D,F) are given in most courses, and students are informed in advance of those few courses which are taught on a Pass/No Credit basis. Students may choose to take one course on a Pass/No Credit basis each year that they are in residence. Core courses, Education courses and courses included in or required for majors cannot be taken on a Pass/No Credit basis.



# ART

## FACULTY:

Walter Grosvenor (chair), Gordon Wilson (sabbatical leave, Spring 1988),  
Barbara Filo, Mardis Thoreson.

## REQUIREMENTS FOR AN ART MAJOR

All tracks require the following Core Courses:

AR 101	Drawing I	1.0
AR 120	Design I	1.0
AR 260*	Art History I	1.0
AR 261*	Art History II	1.0
AR 320	Design II	1.0
AR 363	History of Contemporary Arts and Crafts	1.0
AR 460	Seminar	1.0

\*also offered at the 300 level.

### Painting/Drawing/Sculpture Track (13.5 courses)

Required Core Courses	7.0	
AR 210	Painting	1.0
AR 499	Senior Project (Exhibition)	0.5
One of the following:	1.0	
AR 201	Advanced Drawing	
AR 202	Figure Drawing	
One of the following:	1.0	
AR 235	Printmaking I	
AR 335	Printmaking II	
Three of the following:	3.0	
AR 130	Photography I	
AR 202	Figure Drawing	
AR 211	Watercolor	
AR 255	Sculpture	
AR 310	Advanced Painting	
AR 335	Advanced Printmaking	
AR 355	Advanced Sculpture	
AR 410	Advanced Painting	
AR 455	Advanced Sculpture	
Independent Study in Art		

### Craft Track (13.5 courses)

Required Core Courses	7.0	
AR 150	Introduction to Crafts	1.0
AR 499	Senior Project (Exhibition)	0.5
Four of the following:	4.0	
AR 140	Ceramics (Wheel)	
AR 141	Ceramics (Hand building)	
AR 240	Advanced Ceramics	
AR 245	Leaded Glass I	
AR 251	Construction Techniques in Fibers	
AR 252	Batik	
AR 253	Batik and Fibre Techniques	
AR 340	Advanced Ceramics	
AR 345	Advanced Leaded Glass	
AR 440	Advanced Ceramics	
Independent Study in Art		
Course in a Craft other than student's speciality	1.0	

### Art Education Track (13 courses)

Required Core Courses	7.0	
AR 150	Introduction to Crafts	1.0
AR 370	Elementary Art Methods	0.5
Independent Study in Art Education	1.0	
Teaching Assistant	0.5	
Three approved Art courses, including one each in Painting and Ceramics	3.0	

### Art History Track (13 courses)

Required Core Courses	7.0	
AR 262	History of Nonwestern Art	1.0
Independent Studies in Art History	2.0	
Thesis/Aesthetics	1.0	
Two approved courses in English, History, Music, Philosophy, Religion or Theatre Arts	2.0	

### REQUIREMENTS FOR ART AS A SECOND TEACHING FIELD (6 courses)

AR 101	Drawing I	1.0
AR 120	Design I	1.0
AR 360	Art History I	1.0
AR 361	Art History II	1.0
Two approved Art courses	2.0	

### REQUIREMENTS FOR AREA OF CONCENTRATION:

#### Arts Administration (14.5 courses)

All Tracks require the following Core Courses:

BU 230	Basic Accounting I	1.0
BU 374	Principles of Management	1.0
CS 175	Elementary Computer Programming	1.0
JR 244	Publicity and Public Relations	1.0
PY 370	Group Dynamics	0.5
Seminar in Arts Administration	1.0	
Approved Internship	1.0	

#### Art Track

Required core courses	6.5	
AR 101	Drawing I	1.0
AR 120	Design I	1.0
AR 320	Design II	1.0
AR 460	Seminar	1.0
AR 260*	Art History I	1.0
AR 261*	Art History II	1.0
AR 263*	History of Contemporary Arts and Crafts	1.0
One approved art course	1.0	

\*also offered at the 300 level

#### Music Track

Required core courses	6.5	
MU 110	Music Theory I	1.0
MU 111	Ear Training I	.25
MU 112	Music Theory II	1.0
MU 113	Ear Training II	.25
MU 201	Introduction to Music Literature	1.0
MU 225	Basic Conducting	0.5
MU 301	Music History I	1.0
MU 302	Music History II	1.0
One full course of credit in lessons	1.0	
One full course of credit in ensembles	1.0	

#### Theatre Arts Track

Required core courses	6.5	
TA 231	Oral Interpretation	1.0
TA 273	Acting	1.0
TA 275	Technical Theatre	1.0
TA 279	Voice for the Performer	1.0
TA 361	Directing	1.0

TA 476	History of Theatre I	1.0
TA 477	History of Theatre II	1.0
	Theatre Production credit	0.5
	Credit for Private Lessons	0.5

## FINE ARTS COURSE

### FA 101 INTRODUCTION TO THE FINE ARTS

Full Course

Integrates the disciplines of Art, Music, Theater and Dance into an examination of the fine arts experience. Elements, media, expressiveness.

## ART COURSES

### AR 101 DRAWING I

Full Course

Development of visual perception and drawing skills through use of various materials, techniques, subject matter and strategies.

### AR 120 DESIGN I

Full Course

Studio problems involving the use of elements and principles of design. Emphasis on two-dimensional experiences. Line, form, color, texture, space.

### AR 130 PHOTOGRAPHY I

Full Course

Use of the 35mm camera and basic darkroom techniques. The photograph as art. Camera necessary.

### AR 140, 240, 340, 440 CERAMICS (WHEELWORK)

Full Course

Emphasis on wheel, throwing, trimming, decoration, glazing, kiln operation, clay making.

### AR 141, 241, 341, 441 CERAMICS (HAND BUILDING)

Full Course

Off wheel techniques in ceramic production. Pinch, coil, slab, mold. Claymaking, glaze, kiln operation.

### AR 145 LEADED GLASS I

Full Course

Development of basic glass working skills. Glass cutting, fitting, soldering, finishing. Use of lead came and copper foil techniques. Construction of at least two glass panels.

### AR 150 INTRODUCTION TO CRAFTS

Full Course

Study of three or four crafts media to discover their unique expressive potentials. Possible areas: jewelry, papermaking, bookbinding, stitchery, enameling.

### AR 160 INTRODUCTION TO VISUAL ART

Full Course

Art as it affects and is affected by man. Role of art in the environment through field trips, lab experiences, visual aids.

### AR 182 CHRISTIAN ART

Full Course

Traditional and contemporary Christian art and symbolism. Design and execution of artworks in this area.

### AR 201, 301, 401 ADVANCED DRAWING

Full Course

Advanced problems in drawing techniques and composition. Emphasis on development of personal drawing style. Prerequisite AR 101. Fee.

### AR 202, 302, 402 FIGURE DRAWING

Full Course

Study of the human form as subject matter. Anatomy, portraiture, figure as used in compositional design. Prerequisite AR 101. Fee.

### AR 210, 310, 410 PAINTING

Full Course

Oils or acrylics. Composition, color theory. Techniques and approaches to painting problems. Advanced classes emphasize content, form, and development of a personal style. Prerequisite AR 101,120.

### AR 211 WATERCOLOR

Full Course

Emphasis on the unique possibilities of the watercolor medium. Variety of subject matter and technique, traditional and contemporary approaches—objective and non-objective. Composition and color theory. Prerequisite AR 101, 120 or permission.

### AR 225, 325 LETTERING

Full Course

Basic skills in letter construction and spacing. Work with gothic and roman styles as well as basic calligraphy. Use of both pen and brush. (Brush in 325.)

### AR 230, 330, 430 ADVANCED PHOTOGRAPHY

Full Course

Advanced techniques. Prerequisite: photography course at preceding level.

### AR 235 PRINTMAKING I

Full Course

Basic course in working with multiples. Silk screen block printing, assembligraphs, collographs. Identification of prints, matting and presentation.

### AR 240—See AR 140. AR 241—See AR 141.

### AR 245 LEADED GLASS II

Full Course

Emphasis on design and quality craftsmanship. Skill development in three dimensions—candle boxes, lamps, terrariums, jewelry boxes. Some acid etching and sandblasting also.

### AR 251 WEAVING AND CONSTRUCTION TECHNIQUES IN FIBERS

Full Course

Fiber techniques such as loom and off-loom weaving, soft sculpture, basketry, macrame. Exploration of three-dimensional forms and contemporary expressions.

### AR 252 BATIK

Full Course

Design elements and techniques of batik process using progressive wax resist and dye applications. Experimentation.

**AR 255, 355, 455  
SCULPTURE**

Full Course

Techniques and fundamentals of sculptural composition. Figurative, abstract problems. Prerequisite AR 101 or 120.

**AR 258  
JEWELRY I**

Full Course

Three-dimensional design is studied as it applies to the design and aesthetics of jewelry. Fabrication techniques are emphasized. Jewelry as small-scale sculpture.

**AR 260,360  
ART HISTORY I**

Full Course

Development of visual arts in the Western world. Prehistoric through Gothic. Slide lecture, discussion.

**AR 261, 361  
ART HISTORY II**

Full Course

Continuation of AR 260/360. Early Renaissance to contemporary.

**AR 262  
HISTORY OF  
NONWESTERN ART**

Full Course

Aesthetic concepts and visual expressions of various non-western civilizations. Africa, Asia, native cultures of the Americas and South Pacific.

**AR 311,411  
WATERCOLOR**

Full Course

Personal style, development of content and technique. Development and completion of an individualized course of study in watercolor. Prerequisite AR 211 or permission.

**AR 320  
DESIGN II**

Full Course

Elements and principles of design as related to three-dimensional problems. Experimentation in a variety of materials. Prerequisite AR 120.

**AR 335  
PRINTMAKING II**

Full Course

Traditional and contemporary techniques used in etching, lithography. Prerequisite AR 101, 120.

**AR 340—See AR 140.****AR 341—See AR 141.****AR 345  
LEADED GLASS III**

Full Course

Additional skills with glass. Etching, sandblasting, painting on glass, reinforcing techniques, layered or double glazed glass, etc. Prerequisite AR 145, 245.

**AR 353  
BATIK AND SURFACE  
DECORATIONS OF  
TEXTILES**

Full Course

Textile media such as batik, tie-dye, discharge, blueprinting, block printing, silk screening.

**AR 358  
JEWELRY II**

Full Course

Additional techniques (lost wax, etc.) and advanced levels of jewelry design. Emphasis on individual directions. Prerequisite: AR 258.

**AR 360—See AR 260.****AR 361—See AR 261.****AR 363  
HISTORY OF  
CONTEMPORARY  
ARTS AND CRAFTS**

Full Course

Survey of the wide range of traditional, nontraditional, and experimental media and techniques employed by contemporary artists and craftspersons to create unique visual expressions.

**AR 370  
ELEMENTARY ART  
METHODS**

Half Course

Media and projects, and their use in the elementary classroom. Emphasis on process, not product. Creativity.

**AR 381  
ART IN FRANCE**

1.25 Full Courses

Major movements and artists of France. Emphasis on Romantic through Contemporary periods, as found in Paris, Nice, and surrounding area. Museum, gallery, studio visits offer opportunity for students to view and study first-hand original works and the environment that brought them into existence.

**AR 435  
PRINTMAKING III**

Full Course

Advanced methods. Prerequisite AR 235 or 335.

**AR 440—See AR 140.****AR 441—See AR 141.****AR 445  
LEADED GLASS IV**

Full Course

Advanced glass techniques. Student works with instructor to design and fabricate a major piece of work. Prerequisite AR 345.

**AR 460  
SEMINAR**

Full Course

Local artists contribute to contemporary art and craft presentations/discussions. Field trips, research, and presentations by students.

**AR 499  
SENIOR PROJECT  
(EXHIBITION)**

Half Course

Required of all majors in Painting/Drawing/Sculpture or Craft Track. Student completes and presents original art works in an exhibition. Resume' and art portfolio. Review by faculty members.

# BIOLOGY

## FACULTY:

Howard Stien (Chair), Lee Anne Chaney, David Hicks (Sabbatical Leave Spring 1987)

### REQUIREMENTS FOR A BIOLOGY MAJOR

#### BACHELOR OF ARTS (9 courses)

BI 151	Bioscience	1.0
BI 152	Animal Biology	1.0
BI 153	Plant Biology	1.0
Five additional approved Biology Courses (not to include BI 204, 220, 221), at least four upper division		
		5.0
One approved Chemistry course		1.0

#### BACHELOR OF SCIENCE (13 courses)

BI 151	Bioscience	1.0
BI 152	Animal Biology	1.0
BI 153	Plant Biology	1.0
BI 345	Environmental Biology	1.0
BI 347	Advanced Microbiology	1.0
BI 363	Genetics	1.0
One of the following:		1.0
BI 323	Animal Physiology	
BI 331	Plant Physiology	
Two additional approved Biology courses (not to include 100 or 200 level courses)		
		2.0
CH 161	Principles of Chemistry	1.0
CH 163	Bioorganic Chemistry	1.0
PS 151	General Physics I	1.0
PS 153	General Physics II	1.0

#### REQUIREMENTS FOR BIOLOGY AS A MINOR OR A SECOND TEACHING FIELD (5 courses)

BI 151	Bioscience	1.0
BI 152	Animal Biology	1.0
BI 153	Plant Biology	1.0
Two approved Upper Division courses in Biology		2.0

## BIOLOGY COURSES

### BI 101 LIFE SCIENCE

Full Course

The nature and interdependence of living things, including humans, and their relationship to the rest of the natural world.

### BI 103 HUMAN BIOLOGY

Full Course

The similarities and differences between humans and other ani-

mals as the foundation for discussions of the biological basis of humanness and culture, bio-ethical deliberation and concepts of the nature of persons.

### BI 104 HUMAN ECOLOGY

Full Course

Explores the ecological roots of urgent global environmental problems and emphasizes the necessity of biological literacy to understand and solve them.

### BI 105 PLANTS IN CULTURE

Full Course

Introduction to basic life processes of plants; contemporary and historical uses of plants.

### BI 106 BIOLOGY OF WOMEN

Full Course

Structure, function of the human female. Comparison of male, female biology. Use of biological data to critique cultural perceptions of women.

### BI 151 BIOSCIENCE

Full Course

The molecular, cellular, and organismic diversity of living things and of the fundamental concepts which underlie and unify that diversity. Laboratory.

### BI 152 (251) ANIMAL BIOLOGY

Full Course

The structural, functional and behavioral adaptations of major animal phyla. Laboratory. Prerequisite: BI 151.

### BI 153 (261) PLANT BIOLOGY

Full Course

The structural and functional adaptations of major plant phyla. Laboratory. Prerequisite: BI 151.

### BI 204 MICROBIOLOGY

Full Course

The taxonomy, physiology and pathological reactions of microorganisms. Aseptic technique, culture and identification of bacteria. Laboratory. Prerequisite: Chem 163.

### BI 220 HUMAN ANATOMY

Full Course

A systematic study of the struc-

ture of the human body. Laboratory.

### BI 221 HUMAN PHYSIOLOGY

Full Course

A study of the function of major organ systems of the body. Laboratory.

### BI 300 HISTOLOGY

Half Course

Microscopic study of major tissues of vertebrates. Laboratory. Prerequisite: BI 152.

### BI 303 PLANT TAXONOMY

Full Course

Rules on nomenclature; cytological, biochemical, and numerical methods of building classification systems; descriptive vocabulary and characteristics of common families of flowering plants. Laboratory. Prerequisite: BI 153.

### BI 313 PLANT ANATOMY

Full Course

Organ, tissue and cellular structure of vascular plants; origin and developments of major cell types. Laboratory. Prerequisite: BI 153.

### BI 323 ANIMAL PHYSIOLOGY

Full Course

Organism level homeostatic mechanisms in animals. Laboratory. Prerequisite: BI 152, Chem 163.

### BI 327 BIOLOGICAL TECHNIQUES

Half Course

Techniques of value to professional biologists, including micro-techniques, field study methods, photography, specimen collec-



tion and preservation, taxidermy, culture and maintenance of live organisms. Student interest and program demand will determine which techniques will be offered. Laboratory. Prerequisite: BI 152, BI 153.

**BI 331  
PLANT PHYSIOLOGY**

Full Course  
Absorption and transport, respiration, photosynthesis, nitrogen metabolism, growth regulation of green plants. Laboratory. Prerequisite: BI 153, Chem 163.

**BI 337  
FIELD BOTANY**

Full Course  
Field, laboratory study of flora of selected regional habitats. Field trips. May be repeated for credit. Prerequisite: BI 152, 153.

**BI 340  
FIELD ECOLOGY**

Half or Full Course  
Field study to investigate diversity, adaptive mechanisms, and evolution of natural ecosystems. Marine ecology (Puget Sound), alternate Spring terms. Tropical ecology (Central America), alternate January terms. Prerequisite: BI 152, 153.

**BI 341  
BIOGEOGRAPHY**

Half Course  
The distribution and diversity of plants and animals in major faunal and floral regions and the causal geologic, ecologic, genetic and evolutionary forces. Prerequisite: BI 152, BI 153.

**BI 343  
SYMBIOTIC BIOLOGY**

Full Course  
The structure, development and maintenance of interspecific symbiotic associations and their biological and evolutionary con-

sequences. Prerequisite: BI 152, BI 153.

**BI 345  
ENVIRONMENTAL  
BIOLOGY**

Full Course  
The structure and function of nature, population dynamics, nutrient cycles, energy flow, limiting factors and man's impact on environments. Laboratory. Prerequisite: BI 152, BI 153.

**BI 347  
ADVANCED  
MICROBIOLOGY**

Full Course  
Ultrastructure, metabolism and genetics of microorganisms, particularly bacteria and viruses. Laboratory. Prerequisite: BI 151, Chem 163.

**BI 350  
COMPARATIVE  
VERTEBRATE ANATOMY**

Full Course  
Comparative and phylogenetic study of major structural adaptations of vertebrates. Laboratory. Prerequisite: BI 152.

**BI 351  
ORNITHOLOGY**

Half Course  
Evolution, migration and physiology of flight. Saturday field trips after Spring Vacation. Prerequisite: BI 152.

**BI 353  
MAMMALOGY**

Half Course  
Evolution of major families, environmental adaptations. Laboratory. Prerequisite: BI 152.

**BI 354  
DEVELOPMENTAL  
BIOLOGY**

Full Course  
The development of form and function in organisms with atten-

tion to molecular, cellular and environmental factors regulating developmental sequences. Laboratory. Prerequisite: BI 152, BI 153, Chem 163.

**BI 363  
GENETICS**

Full Course  
Mendelian, organismic, and populational hereditary mechanisms, including human-medical genetics. Prerequisite: BI 152, BI 153, Chem 163.

**BI 367  
ALGOLOGY**

Half Course  
Distinguishing characteristics, adaptations, and habitats of major algal groups. Laboratory. Prerequisite: BI 153.

**BI 369  
MYCOLOGY**

Full Course  
Aspects of growth, metabolism, genetics, and environmental modification peculiar to fungi. Prerequisite: BI 153, Chem 163.

**BI 399  
MOLECULAR BIOLOGY**

Full Course  
The nature of informational macromolecules and the use and transfer of information in genetic, immunological, neurological and endocrinological mechanisms. Prerequisite: BI 152, BI 153, Chem 163.

**BI 401  
SEMINAR**

Quarter Course  
Presentation and discussion of results of literature and laboratory investigations of biological phenomena. Prerequisite: BI 152, BI 153, plus three upper division biology courses.

**BI 412  
BIOLOGY OF CELLS**

Full Course  
Modern concepts of cell ultrastructure and molecular aspects of cell function. Prerequisite: BI 152, BI 153, Chem 163.

**BI 420  
HISTORY OF BIOLOGY**

Half Course  
Development and impact of major biological thought since 1500. Prerequisite: BI 152, BI 153, plus three upper division biology courses.

# BUSINESS MANAGEMENT, ACCOUNTING AND ECONOMIC STUDIES

## FACULTY:

George Weber (chair), Claudia Biermann, Gerald Kendall, Charles McKinney, Carlos Solera

### REQUIREMENTS FOR A BUSINESS MAJOR (13 courses)

MA 108	Finite Mathematics for Social Sciences	1.0
CS 170	Intro to Computer Information Systems	1.0
BU 230	Basic Accounting I	1.0
BU 231	Basic Accounting II	1.0
EC 201	Macroeconomics	1.0
EC 202	Microeconomics	1.0
MA 356	Probability and Statistics	1.0
BU 240	Business Law	1.0
BU 318	Marketing	1.0
BU 332	Cost Accounting	1.0
BU 357	Financial Management	1.0
BU 374	Principles of Management	1.0
BU 376	Operations Management	1.0

### REQUIREMENTS FOR AN ACCOUNTING MAJOR (17 courses)

MA 108	Finite Mathematics for Social Sciences	1.0
CS 170	Intro to Computer Information Systems	1.0
EC 201	Macroeconomics	1.0
EC 202	Microeconomics	1.0
BU 230	Basic Accounting I	1.0
BU 231	Basic Accounting II	1.0
MA 356	Probability and Statistics	1.0
BU 240	Business Law	1.0
BU 332	Cost Accounting	1.0
BU 334	Intermediate Accounting I	1.0
BU 335	Intermediate Accounting II	1.0
BU 336	Introduction to Taxation	1.0
BU 357	Financial Management	1.0
BU 374	Principles of Management	1.0
BU 434	Advanced Accounting I	1.0
BU 435	Advanced Accounting II	1.0
BU 466	Principles of Auditing	1.0

### REQUIREMENTS FOR A HEALTH SERVICE MANAGEMENT MAJOR BACHELOR OF ARTS (18 courses)

MA 108	Finite Mathematics for the Social Sciences	1.0
BI 220	Human Anatomy	1.0
BI 221	Human Physiology	1.0
CS 170	Introduction to Computer Information Systems	1.0
BU 230	Basic Accounting I	1.0

BU 231	Basic Accounting II	1.0
MA 356	Elementary Probability and Statistics	1.0
BU 325	Organizational Behavior	1.0
BU 357	Financial Management	1.0
BU 374	Principles of Management	1.0
BU 402	Management Information Systems	1.0

One of the following: . . . . . 1.0  
 PH 351 Philosophical Ethics  
 PH 354 Bioethics  
 SP 493 Communications Ethics

Professional Focus Core . . . . . 0.5  
 (two of the following quarter courses: Ambulatory/Medical Group Practice Management, Hospital and Multi Mid Management, Longterm Care Management, Health Maintenance Organization/Health Insurance Management)

HA 336	Contemporary Issues in Health Care	1.0
HA 337	Microsystems in Health Management	1.0
HA 466	Health Service Finance	1.0
HA 467	Strategic Planning and Marketing	1.0
HA 468	Macrosystems in Health Management	1.0
Field Internship or Field Study		0.5

Note: Several Health Management (HA) courses have prerequisite business courses.

### BACHELOR OF SCIENCE (21 courses)

Requirements for Bachelor of Arts (above) . . . . . 18.0  
 Three approved upper division courses in Biology,  
 Chemistry, Nutrition, or Mathematics . . . . . 3.0

### REQUIREMENTS FOR A BUSINESS MANAGEMENT MINOR (7 courses)

BU 230	Basic Accounting I	1.0
BU 231	Basic Accounting II	1.0
BU 318	Marketing	1.0
BU 374	Principles of Management	1.0
MA 108	Finite Mathematics for Social Sciences	1.0
CS 170	Intro to Computer Information Systems	1.0

One of the following: . . . . . 1.0  
 EC 201 Macroeconomics  
 EC 202 Microeconomics

### REQUIREMENTS FOR A HEALTH SERVICE MANAGEMENT MINOR (6 courses)

One of the following: . . . . . 1.0  
 BU 325 Organizational Behavior  
 BU 357 Financial Management  
 BU 374 Principles of Management

Professional Focus Core . . . . . .25  
 (one of the following quarter courses: Ambulatory/Medical Group Practice Management, Hospital and Multi Mid Management, Longterm Care Management, Health Maintenance Organization/Health Insurance Management)

Three of the following: . . . . . 3.0  
 HA 336 Contemporary Issues in Health Care  
 HA 337 Microsystems in Health Management  
 BU 402 Management Information Systems  
 HA 466 Health Service Finance  
 HA 467 Strategic Planning and Marketing  
 HA 468 Macrosystems in Health Management

Additional Approved Coursework . . . . . 1.5  
 Field Study or Field Internship . . . . . .25

### REQUIREMENTS FOR AN ACCOUNTING MINOR (6 courses)

BU 230	Basic Accounting I	1.0
BU 231	Basic Accounting II	1.0
BU 332	Cost Accounting	1.0
BU 334	Intermediate Accounting I	1.0
BU 335	Intermediate Accounting II	1.0
One approved Accounting course		1.0

**REQUIREMENTS FOR AN ECONOMICS MINOR (7 courses)**

BU 230	Basic Accounting I	1.0
EC 201	Macroeconomics	1.0
EC 202	Microeconomics	1.0
EC 311	Intermediate Macroeconomics	1.0
EC 312	Intermediate Microeconomics	1.0
MA 112	Calculus for the Social Sciences	1.0
MA 356	Elementary Probability and Statistics	1.0

**REQUIREMENTS FOR ECONOMICS AS A SECOND TEACHING FIELD (7 courses)**

BU 230	Basic Accounting I	1.0
BU 231	Basic Accounting II	1.0
EC 201	Macroeconomics	1.0
EC 202	Microeconomics	1.0
EC 301	Money and Banking	1.0
EC 309	Intermediate Economic Analysis	1.0
EC 351	Economic History of the United States	1.0

**REQUIREMENTS FOR AREAS OF CONCENTRATION:**

**Communication and Business, Communication and Marketing**

See Communication Studies department.

**Industrial Management (18 courses)**

BU 230	Basic Accounting I	1.0
BU 231	Basic Accounting II	1.0
BU 332	Cost Accounting	1.0
BU 357	Financial Management	1.0
BU 374	Principles of Management	1.0
BU 376	Operations Management	1.0
CH 151	Principles of Chemistry I	1.0
MA 110	Calculus I	1.0
MA 111	Calculus II	1.0
MA 356	Elementary Probability and Statistics	1.0
One of the following:		1.0
EC 201	Macroeconomics	
EC 203	Economics Today	
One of the following:		1.0
CS 175	Elementary Computer Programming	
CS 274	Structured Programming Using PASCAL	
Two approved courses in Physics		2.0
Four approved courses in Natural Science above the introductory level		4.0

**International Business Communication**

See Modern Languages department.

**BUSINESS MANAGEMENT COURSES**

**BU 110 INTRODUCTION TO BUSINESS**

Full Course

An overview of the total business enterprise in an international environment. Organization, finance, marketing, product planning, governmental influences and socially responsible management. Fall.

**BU 220/420 MANAGEMENT OF PERSONAL FINANCIAL AFFAIRS**

Full Course

Practical information in the handling of personal business affairs. Career planning, insurance (life, health, property), home buying or renting, stocks, bonds and real estate as investments, estate planning. No prerequisites. January term.

**BU 230**

**BASIC ACCOUNTING I**

Full Course

A study of the fundamental processes of accounting applied to services and merchandising proprietorships. Analyzing, classifying and recording business transactions, preparation of financial statements. Fall.

**BU 231**

**BASIC ACCOUNTING II**

Full Course

Accounting processes as they apply to partnerships and corporations. Modern corporate organization, operation, financing. Accounting for manufacturing concerns, tax accounting, budgeting. Prerequisite: BU 230. Spring.

**BU 240**

**BUSINESS LAW**

Full Course

A consideration of the laws affecting business transactions. Introduction to law, contract law, creation and operation of agencies, nature and law of sales. Prerequisite: Sophomore standing. Fall, Spring.

**BU 318(138)**

**MARKETING**

Full Course

Socially responsible product development, promotion, distribution, pricing and assessment of external influences on the total marketing program. Spring.

**BU 325**

**ORGANIZATIONAL BEHAVIOR**

Full Course

A study of human processes in the context of organization. Motivation, individual behavior in groups and within an organization, leadership style, human needs, decision making, commu-

nication, conflict, stress, social responsibility. Spring.

**BU 332**

**COST ACCOUNTING**

Full Course

Emphasis on accounting for planning and control. Cost behavior and volume-profit relationships, responsibility accounting, standard costs, flexible budgets, relevant costs for non-routine decisions. Prerequisite: BU 230 and 231 or permission. Fall.

**BU 334, 335**

**INTERMEDIATE ACCOUNTING I, II**

Full Courses

Modern accounting theory and practice. Analysis underlying the determination of income and asset evaluation. Interpretation of accounting data for managerial purposes. New A.I.C.P.A. guidelines. Prerequisite: BU 230 and 231 or permission. Fall, Spring.

**BU 336**

**INTRODUCTION TO TAXATION**

Full Course

A study of the concepts involved in determination of federal income tax liability, preparation of tax returns. Individual tax problems, tax planning. Introduction to corporation taxes. Prerequisite: BU 230 and 231. Fall.

**BU 348**

**MARKETING II**

Full Course

An in-depth and experiential study of consumer behavior and promotion strategy. Prerequisite: BU 318. January.

**BU 350  
CONTEMPORARY  
MANAGEMENT ISSUES**

Full Course

Contemporary social, political, environmental and ethical forces affecting today's business world. Seminar format. Dialogue with top local business, government and union leaders. Prerequisite: Junior standing. January.

**BU 357  
FINANCIAL MANAGEMENT**

Full Course

Analysis of role of chief financial officer. Mastery of the tools of financial analysis and decision making. Stocks, bonds and loans, management of internal funds. Prerequisite: BU 230 and 231. Fall.

**BU 363  
SMALL BUSINESS  
MANAGEMENT**

Full Course

Market opportunities, managerial skills needed, financing alternatives, sales programs. Getting started. Prerequisite: BU 230 or permission. Spring.

**BU 373  
HUMAN RESOURCES  
MANAGEMENT**

Full Course

Areas of management related to obtaining and maintaining effective human resources. Discussion, speakers, and actual cases. Fall.

**BU 374  
PRINCIPLES OF  
MANAGEMENT**

Full Course

Functions of the general manager. Planning, organizing, activating, controlling. Case analysis, classroom experiences, field trips. Fall.

**BU 376  
OPERATIONS  
MANAGEMENT**

Full Course

Decision-making about operating capacity, process technology, composition size, management of work force. Exploration of some quantitative tools used in making these analyses and decisions. Prerequisite: Math 108. Spring.

**BU 402  
MANAGEMENT  
INFORMATION SYSTEMS**

Full Course

Theory of information systems and the role of information in organization; general systems and data-base design; implementation, control, audit and technological considerations. Prerequisite: BU 374 and Computer Science 170 or 175.

**BU 410  
BUSINESS POLICY**

Full Course

Capstone course for business majors, integrating the functions of marketing, operations, finance from the strategic vantage point of the general manager. Case studies. Prerequisite: BU 357, 374. Spring.

**BU 411  
ACCOUNTING THEORY**

Full Course

History and development of concepts, measurement and structure of accounting theory beyond the quantitative approach. Standards review and updating and case studies in accounting ethics and social responsibilities. Prerequisite: BU 334.

**BU 434, 435  
ADVANCED ACCOUNTING**

Full Courses

Advanced topics such as consolidation, price-level changes, governmental accounting. Prerequisite: BU 334 and 335. Fall, Spring.

**BU 466  
PRINCIPLES OF AUDITING**

Full Course

Standards, objectives and ethics for public auditors. Reporting standards, internal control, evidence, statistical sampling. E.D.P. audits. Prerequisite: BU 334 or permission. Spring.

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**ECONOMICS COURSES**

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**EC 201  
PRINCIPLES OF  
MACROECONOMICS**

Full Course

General nature of our economy, determination of national income levels, employment and price levels, government finance and fiscal policies, money and monetary policies, economic growth and development. Prerequisite: Math 108 or permission. Spring.

**EC 202  
PRINCIPLES OF  
MICROECONOMICS**

Full Course

Theory of business operations, distribution of income, application of economic theory to current economic problems, international trade, and alternative economic systems. EC 202 follows EC 201 in introducing students to economic theory and analysis. Prerequisite: Math 108 or permission. Fall.

**EC 203  
ECONOMICS TODAY**

Full Course

An orientation to our economic system and its problems. Prerequisite: Sophomore standing.

**EC 301  
MONEY AND BANKING**

Full Course

Nature, functions and regulations of money and credit. Review of the financial institutions which control domestic and international monetary policy. Prerequisite: BU 230, EC 201, 202, Junior standing. Spring.

**EC 311  
INTERMEDIATE  
MACROECONOMIC  
ANALYSIS**

Full Course

Emphasis on application of aggregate macroeconomic theory. Prerequisite: EC 201, 202.

**EC 312(309)  
INTERMEDIATE  
MICROECONOMIC  
ANALYSIS**

Full Course

Microeconomics course providing a summary of contemporary economic theory at the intermediate level. Emphasis on value production and distribution theory. Prerequisite: EC 201, 202, Math 356.

**EC 351  
ECONOMIC HISTORY OF  
THE UNITED STATES**

Full Course

A study of the growth of the American economy from its European roots and difficult beginnings on the eastern seaboard to its present status as the largest and most productive economy in world history. Also listed as History 351.

**EC 465  
HISTORY OF ECONOMIC  
DOCTRINE**

Full Course

A study of the lives and ideas of the great economic thinkers, from the pre-Christian era to the present.

**HEALTH MANAGEMENT  
COURSES****HA 305,306,307,308  
SEMINARS IN HEALTH  
SERVICE MANAGEMENT**

Quarter Courses

Exploration of market opportunities, trends, issues and competencies needed for effective management in such areas as ambulatory/medical group practice, hospital/multi mid management, long term/home health care, and health maintenance (HMO)/insurance provider management. May be repeated for credit.

**HA 336  
CONTEMPORARY ISSUES  
IN HEALTH CARE**

Full Course

A colloquium on contemporary policies, problems and issues across the broad spectrum of health services, including but not limited to health care insurance, community relations, health planning, governmental regulation, comparative health systems and quality assurance.

**HA 337  
MICROSYSTEMS IN  
HEALTH MANAGEMENT II**

Full Course

Structure, organization, function and management of health care institutions including leadership, human resource development, communications, productivity and quality control.

Prerequisite: Business 325 and 374.

**HA 466  
HEALTH SERVICE  
FINANCE**

Full Course

Analysis of the current economic and financial dynamics affecting the health care industry and their relation to local health care institutions. Prerequisite: BU 230, 231, 357.

**HA 467  
STRATEGIC PLANNING  
AND MARKETING**

Full Course

Overview of planning processes as a decision tool at the institutional, community and program levels. Analysis and application of marketing principles and techniques appropriate to various health service delivery systems.

**HA 468  
MACROSYSTEMS IN  
HEALTH MANAGEMENT**

Full Course

Study of the forces which have impact on the health care industry and the interaction these have upon the formation of health care delivery systems. Networking, mergers, acquisitions and various types of ventures and survival strategies. Prerequisite: BU 325 and 374.

# CHEMISTRY

**FACULTY:**

Robert Bocksch (chair), Donald Calbreath, Sydney Peterson-Kennedy.

**REQUIREMENTS FOR A CHEMISTRY MAJOR****BACHELOR OF ARTS (11.25 courses)**

CH 161*	Principles of Chemistry	1.0
CH 163	Bioorganic Chemistry	1.0
CH 271	Principles of Organic Chemistry	1.0
CH 273	Quantitative Concepts in Chemistry	1.0
CH 421	Structure and Dynamics I	1.0
CH 470	Seminar	.25
One of the following:		1.0
CH 393	Synthetic Organic Chemistry	
CH 422	Instrumental Analysis	
CH 423	Structure and Dynamics II	
One additional approved Chemistry course		1.0
MA 110*	Calculus I	1.0
MA 111*	Calculus II	1.0
PS 151*	General Physics I	1.0
PS 153	General Physics II	1.0

**BACHELOR OF SCIENCE (17.25 courses)**

CH 161*	Principles of Chemistry	1.0
CH 163	Bioorganic Chemistry	1.0
CH 271	Principles of Organic Chemistry	1.0
CH 273	Quantitative Concepts in Chemistry	1.0
CH 393	Synthetic Organic Chemistry	1.0
CH 401	Advanced Biochemistry	1.0
CH 421	Structure and Dynamics I	1.0
CH 422	Instrumental Analysis	1.0
CH 423	Structure and Dynamics II	1.0
CH 470	Seminar	.25
One of the following:		1.0
CH 392	Modern Chemical Problems	
CH 494	Research in Chemistry	
MA 110*	Calculus I	1.0
MA 111*	Calculus II	1.0
PS 151*	General Physics I	1.0
PS 153	General Physics II	1.0
PS 251	General Physics III	1.0
BI 151*	Bioscience	1.0
CS 175*	Elementary Computer Programming	1.0

**REQUIREMENTS FOR CHEMISTRY AS A SECOND TEACHING FIELD  
OR MINOR (5 courses)**

CH 161*	Principles of Chemistry	1.0
CH 163	Bioorganic Chemistry	1.0
CH 271	Principles of Organic Chemistry	1.0
CH 273	Quantitative Concepts in Chemistry	1.0
One additional approved Chemistry course		1.0

\*—May be satisfied by Advanced Placement examinations or by demonstrably superior high school coursework.

**CHEMISTRY COURSES****CH 112  
CHEMISTRY AND HEALTH**  
Full Course

Applications of chemical principles to concepts of health and disease. Overview of chemistry discoveries and their contribution to understanding current issues. Alternate January terms (1987).

**CH 122  
CHEMISTRY IN MODERN LIVING**  
Full Course

Overview of current chemical benefits and problems, for the non-science student. Non-technical, non-mathematical approach to topics most frequently encountered in newspapers, on TV, or in the political arena. Acid rain, nuclear wastes, water and air pollution, pesticide residues, solid wastes, food additives. Alternate January terms (1988).

**CH 161  
PRINCIPLES OF CHEMISTRY**  
Full Course

Foundational course in chemistry. Treatment of measurement concepts, atomic and molecular theories, radioactivity, chemical reactions, basic calculations. Laboratory deals with basic chemical techniques and qualitative analysis. Prerequisite: one year of high school chemistry. Students without this prerequisite are advised to take an introductory chemistry course at a community college *before* electing Chemistry 161. Fall.

**CH 163  
BIOORGANIC CHEMISTRY**  
Full Course

Fundamentals of organic chemistry and biochemistry. Organic structure, isomerism, nomenclature. Chemistry and reactions of lipids, carbohydrates, proteins. Laboratory experiments dealing with organic chemistry as applied to biological substances. Prerequisite: CH 161. Spring.

**CH 271  
PRINCIPLES OF ORGANIC CHEMISTRY**  
Full Course

Detailed treatment of basic organic chemistry concepts. Nomenclature, conformational analysis, basic mechanisms, predictive methodologies. Instrumental methods of gas and high performance liquid chromatography. Infrared, ultraviolet, nuclear magnetic resonance spectroscopy. Prerequisite: CH 163. Fall.

**CH 273  
QUANTITATIVE CONCEPTS IN CHEMISTRY**  
Full Course

Introduction to the mathematical aspects associated with chemical phenomena. Acid/base and pH theory, equilibria concepts, solubility and complex-formation calculations, optical analytical procedures, error computation. Laboratory treatment of gravimetric and titrimetric analysis. Colorimetry, electroanalytical and spectroscopic methodologies. Prerequisite: CH 161. Spring.

**CH 351  
INORGANIC CHEMISTRY**  
Full Course

A study of the elements (excluding carbon) and their compounds. Bonding, crystal field theory, solid state, coordination compounds, organometallics, bioinorganic and descriptive inorganic chemistry. Laboratory: synthetic inorganic chemistry and airless techniques. Prerequisite: CH 273 and Math 110. Alternate Fall terms (1986).

**CH 353  
BIOPHYSICAL CHEMISTRY**  
Full Course

Basics of thermodynamics, equilibria studies, chemical kinetics, electrochemistry, photochemistry, spectroscopy applied to living systems. Laboratory: physical measurements made on biologically applicable systems. Prerequisite: CH 273 and Math 110. Alternate Spring terms (1987).

**CH 392  
MODERN CHEMICAL PROBLEMS**  
Full Course

Principles, practices of modern chemistry applied to a problem of student's own choosing. Majority of the time spent in the laboratory, under faculty guidance. Prerequisite: CH 271 or permission. Alternate January terms (1988).

**CH 393  
SYNTHETIC ORGANIC CHEMISTRY**  
Full Course

Reactions of organic molecules, and how such reactions may be employed in the synthesis of new compounds. Laboratory: standard synthetic procedures, including mechanical stirring, inert atmosphere, low-pressure

distillation methodologies. Prerequisite: CH 271. Spring.

**CH 401 (408)  
ADVANCED BIOCHEMISTRY**  
Full Course

Chemistry of metabolism, theories of modern biochemical analysis, use of modern organic mechanisms and structural concepts for prediction, understanding of biochemical reactions. Separation and identification of compounds, interrelationships of molecules in natural systems. Prerequisite: CH 163, 273, 393, Biology 151 or permission. Alternate Fall terms (1986).

**CH 403  
TOPICS IN MODERN BIOCHEMISTRY**  
Full Course

Membrane structure and function, active transport, receptors, metabolic control, biochemical information systems, drug action, neurochemistry, endocrine biochemistry. No laboratory. Prerequisite: CH 401 or permission. Alternate Spring terms (1987).

**CH 411  
SCIENTIFIC GLASS BLOWING**  
Quarter Course

Basic manipulative techniques in making, repairing scientific glassware. Offered on demand. By permission.

**CH 421  
STRUCTURE AND DYNAMICS I**  
Full Course

Treatment of liquids and solids, changes of state, phase diagrams, thermodynamics, kinetics. Laboratory: kinetics and thermodynamics. Prerequisite: CH 273, Physics 153, Math III. Alternate Fall terms (1987).

**CH 422  
INSTRUMENTAL ANALYSIS**

Full Course

Application and theory of electronic devices in obtaining data for chemical analysis. Atomic absorption and high resolution ultraviolet/visible/infrared spectroscopy, polarography, other selected techniques. Emphasis on computer-instrument interface. Prerequisite: CH 271 and 273. Alternate January terms (1987).

**CH 441  
CLINICAL CHEMISTRY**

Full Course

Methodologies of detection and measurement of clinically significant substances in the human organism. Applications to human health. Laboratory experience including autoanalyzer experience. Prerequisite: CH 271 and 273, Biology 151, or permission. Alternate Fall terms (1987).

**CH 443  
FORENSIC CHEMISTRY**

Full Course

Theory and practice of trace inorganic, isotopic, and biochemical analysis, such as is encountered in modern criminalistic studies. Lectures by outside experts, field trips to crime laboratories. Prerequisite: CH 271 and 273, Biology 151. Alternate Spring terms (1988).

**CH 470 (482)  
SEMINAR**

Quarter Course

Discussion of current chemical topics. Guest lectures, attendance at local scientific meetings. By permission.

**CH 494, 496  
RESEARCH IN CHEMISTRY**

Half or Full Courses

Student pursuit of laboratory problem of fundamental interest, under direct guidance of faculty member. Work of a publishable nature is generally required. By permission.

# COMMUNICATION STUDIES

**FACULTY:**

Gordon Jackson (chair), Karen Dalton, Tom Kirkpatrick

NOTE: Applied Journalism courses are recommended for all majors and minors; normally, activity course credits are not included in program requirements.

**REQUIREMENTS FOR A COMMUNICATION MAJOR****Journalism Track (16 courses)**

JR 125	Writing for Mass Media	1.0
JR 236	Broadcast Production	1.0
JR 242	Editing	1.0
JR 325	Reporting for Mass Media	1.0
JR 347	Mass Media History	1.0
JR 402	Mass Media Law	1.0
JR 490	Internship	1.0
JR 493	Communication Ethics	1.0
SP 113	Interpersonal Communication	1.0
Two approved departmental courses		2.0
Five approved complementary courses from a related field		5.0

**Speech Communication Track (14 courses)**

SP 113	Interpersonal Communication	1.0
SP 210	Introduction to Public Speaking	1.0
SP 223	Small Group Communication	1.0
SP 347	Persuasion History, Theory and Practice	1.0
SP 412	Verbal/Nonverbal Communication	1.0
SP 490	Internship	1.0
SP 493	Communication Ethics	1.0
JR 125	Writing for Mass Media	1.0
Seminar (SP 394/396/397/398)		1.0
Two approved departmental courses		2.0
Three approved complementary courses from a related field		3.0

**General Communication Track (15 courses)**

JR 125	Writing for Mass Media	1.0
SP 113	Interpersonal Communication	1.0
One of the following:		1.0
JR 347	Mass Media History	
SP 347	Persuasion History, Theory and Practice	
One of the following:		1.0
JR 490	Internship	
SP 490	Internship	
One of the following:		1.0
JR 493	Communication Ethics	
SP 493	Communication Ethics	
Two of the following:		2.0
JR 236	Broadcast Production	
JR 242	Editing	
JR 325	Reporting for Mass Media	
JR 402	Mass Media Law	
Two of the following:		2.0
SP 210	Introduction to Public Speaking	

## 22 COMMUNICATION STUDIES

SP 223	Small Group Communication	
SP 412	Verbal/Nonverbal Communication	
Seminar (SP 394/396/397/398)		
Two approved departmental courses		2.0
Four approved complementary courses from a related field		4.0

### REQUIREMENTS FOR A COMMUNICATION MINOR (5 courses)

JR 125	Writing for Mass Media	1.0
SP 113	Interpersonal Communication	1.0
One of the following:		
JR 347	Mass Media History	1.0
SP 347	Persuasion History, Theory and Practice	1.0
One approved Journalism course		
One approved Speech Communication course		
One approved course must be upper division.		

### REQUIREMENTS FOR A SECOND TEACHING FIELD (5 courses)

#### Journalism

JR 125	Writing for Mass Media	1.0
JR 215	Mass Communication and Society	1.0
One of the following:		
JR 236	Broadcast Production	1.0
JR 242	Editing	1.0
Two approved departmental courses		2.0

#### Speech Communication

SP 113	Interpersonal Communication	1.0
SP 210	Introduction to Public Speaking	1.0
SP 223	Small Group Communication	1.0
Two approved departmental courses		2.0

### REQUIREMENTS FOR AREAS OF CONCENTRATION

#### Communication and Business (16 courses)

JR 125	Writing for Mass Media	1.0
SP 113	Interpersonal Communication	1.0
SP 210	Introduction to Public Speaking	1.0
BU 138	Marketing	1.0
BU 230	Basic Accounting I	1.0
BU 231	Basic Accounting II	1.0
BU 374	Principles of Management	1.0
One of the following:		
JR 236	Broadcast Production	1.0
JR 242	Editing	1.0
One of the following:		
JR 215	Mass Communication and Society (taken for upper division credit)	1.0
JR 347	Mass Media History	1.0
JR 402	Mass Media Law	1.0
One of the following:		
EC 201	Principles of Macroeconomics	1.0
EC 203	Economics Today	1.0
One of the following:		
MA 356	Probability and Statistics	1.0
CS 175	Elementary Computer Programming	1.0
Two of the following:		
BU 105	Business Communication	2.0
BU 240	Business Law	2.0
BU 325	Organizational Behavior	2.0
BU 350	Contemporary Management Issues	2.0
BU 357	Financial Management	2.0
BU 363	Small Business Management	2.0
BU 373	Human Resources Management	2.0
One approved upper division Journalism course		
Two approved upper div. Speech Communication courses		

#### Communication and Marketing (16 courses)

JR 125	Writing for Mass Media	1.0
JR 244	Publicity and Public Relations	1.0
AR 120	Design I	1.0
BU 138	Marketing	1.0
BU 230	Basic Accounting I	1.0
BU 374	Principles of Management	1.0
EC 203	Economics Today	1.0
One of the following:		
JR 236	Broadcast Production	1.0
JR 242	Editing	1.0
One of the following:		
JR 336	Broadcast Performance	1.0
JR 362	Article and Feature Writing	1.0
One of the following:		
JR 480	Field Study	1.0
JR 490	Internship	1.0
Six additional approved courses chosen from at least two of the following areas:		
Art, Business/Economics, Journalism, Speech Communication		6.0

#### Public Affairs Communication (16 courses)

JR 125	Writing for Mass Media	1.0
JR 215	Mass Communication and Society	1.0
JR 244	Publicity and Public Relations	1.0
SP 210	Introduction to Public Speaking	1.0
PO 102	American Political Establishment	1.0
PO 242	American Political Parties	1.0
PO 371	Public Policy and Administration	1.0
PO 445	Revolution in History	1.0
SO 265	Urban Communities	1.0
One of the following:		
JR 336	Broadcast Performance	1.0
JR 362	Article and Feature Writing	1.0
One of the following:		
JR 480	Field Study	1.0
JR 490	Internship	1.0
Five additional approved courses in Journalism, Political Studies, Sociology, or Speech Communication		

#### Public Relations (16 courses)

JR 125	Writing for Mass Media	1.0
JR 244	Publicity and Public Relations	1.0
SP 323	Organizational Communication	1.0
AR 120	Design I	1.0
BU 318	Marketing	1.0
BU 374	Principles of Management	1.0
EC 203	Economics Today	1.0
One of the following:		
JR 236	Broadcast Production	1.0
JR 242	Editing	1.0
One of the following:		
JR 336	Broadcast Performance	1.0
JR 362	Article and Feature Writing	1.0
One of the following:		
JR 480	Field Study	1.0
JR 490	Internship	1.0
One of the following:		
SP 113	Interpersonal Communication	1.0
SP 210	Public Speaking	1.0
Five additional approved courses from at least two of the following areas: Art, Business/Economics, Journalism, Psychology, Speech Communication		

#### Religious Communication (16 courses)

JR 125	Writing for Mass Media	1.0
SP 113	Interpersonal Communication	1.0



SP 210	Introduction to Public Speaking .....	1.0
SP 223	Small Group Communication .....	1.0
RE 183	Introduction to Ministry .....	1.0
RE 231	Old Testament .....	1.0
RE 241	New Testament .....	1.0
One of the following: .....		1.0
JR 215	Mass Communication and Society	
JR 347	Mass Media History	
SP 347	Persuasion History, Theory and Practice	
One of the following: .....		1.0
JR 236	Broadcast Production	
JR 242	Editing	
One of the following: .....		1.0
SP 480	Field Study	
SP 490	Internship	
One of the following: .....		1.0
RE 245	Interpretation of Jesus	
PH 351	Philosophical Ethics	
Five additional approved courses from at least two of the following areas: Journalism, Psychology, Religion, Speech Communication, Theatre Arts ...		
		5.0

**International Business Communication**

See Modern Languages

**Broadcast Communication, Organizational Communication**

May be arranged in consultation with department chair.

**JOURNALISM COURSES**

**JR 125  
WRITING FOR MASS  
MEDIA**

Full Course  
News values; creativity and structure in news writing; journalistic style and format; accuracy, clarity and conciseness in writing; basic reporting and research skills, interviewing, listening, observing and note-taking. Fee in addition to tuition. Fall, Spring.

**JR 215  
MASS COMMUNICATION  
AND SOCIETY**

Full Course  
Role and influence of print and broadcast media in society, media as social institutions, effects of the media, changing media technologies.

**JR 236  
BROADCAST  
PRODUCTION**

Full Course  
Technical aspects of broadcast journalism, program production,

tape/film production and editing, video camera techniques, FCC regulations. Fee in addition to tuition. Prerequisite: JR 125 or permission. Spring.

**JR 242  
EDITING**

Full Course  
Evaluation, editing of various forms of print communication. Copyreading, revision, headlines, copyfitting, typography, page layouts. Prerequisite: JR 125 or permission. Spring.

**JR 244  
PUBLICITY AND PUBLIC  
RELATIONS**

Full Course  
Role and effect of publicity, public relations in American life. Public relations process, public opinion polling. Development, evaluation of public relations programs. Fall.

**JR 245  
APPLIED JOURNALISM:  
WHITWORTHIAN**

Quarter Course  
Staff work on college newspaper.

May be repeated for credit. Prerequisite: JR 125 or permission.

**JR 246  
APPLIED JOURNALISM:  
RADIO**

Quarter Course  
Staff work on college radio station. May be repeated for credit. Fee in addition to tuition.

**JR 247  
APPLIED JOURNALISM:  
YEARBOOK**

Quarter Course  
Staff work on college yearbook. May be repeated for credit.

**JR 325  
REPORTING FOR MASS  
MEDIA**

Full Course  
News gathering techniques and strategies, including direct observation, participant observation and interviewing; using public records and document, libraries and statistics; dealing with sources; polls and surveys. Fall. Prerequisite: JR 125.

**JR 336  
BROADCAST  
PERFORMANCE**

Full Course  
On-air aspects of broadcast journalism. Announcing, interview and discussion skills, program planning and design, video camera experience, station management. Prerequisite: JR 236. Alternate years. Fall 1986. Fee in addition to tuition.

**JR 347  
MASS MEDIA HISTORY**

Full Course  
Origins and development of print and broadcast mass media in the United States. Alternate years. Fall 1986.

**JR 362  
ARTICLE AND FEATURE  
WRITING**

Full Course  
Editorial writing, interpretive and critical writing, magazine writing, writing for publication. Prerequisite: JR 125. Alternate years, Spring 1987.

**JR 394, 396, 397, 398  
SEMINARS IN  
COMMUNICATION ISSUES**

Full Courses  
Special topics in mass communication such as international communication, media management, communication technologies, communication theory.

**JR 402  
MASS MEDIA LAW**

Full Course  
Libel, right of privacy, copyright, covering government and the courts, broadcast regulation. Alternate years, Fall 1987.

**JR 445  
EDITORIAL PRACTICUM**

Quarter Course  
Editorial work on college newspaper or yearbook. Prerequisite: JR 245 or JR 247 and appointment to editorial position. May be repeated for credit.

**JR 446  
BROADCAST  
MANAGEMENT  
PRACTICUM**

Quarter Course  
Management work on college radio station or cable television. Prerequisite: JR 246 and appointment to management position. May be repeated for credit.

**JR 493****COMMUNICATION ETHICS**

Full Course

Nature and criteria of ethical behavior; personal and organizational ethical issues facing the mass media, including the power of the media, news gathering and reporting techniques, media-source relations, privacy, freedom of the press, taste, conflicting interests, fairness and objectivity. Alternate years, Spring 1987.

**SPEECH COMMUNICATION COURSES****SP 113****INTERPERSONAL COMMUNICATION**

Full Course

Perception, self-concept, feedback, listening, interpersonal barriers, conflict management, language, nonverbal communication. In-class exercises, reading, discussion. Fall, Spring.

**SP 210****INTRODUCTION TO PUBLIC SPEAKING**

Full Course

Verbal and nonverbal delivery, speech organization and research. Experience in delivering speeches. Fall, Spring.

**SP 223****SMALL GROUP COMMUNICATION**

Full Course

Theoretical and practical look at group communication processes. Decision making, problem solving, conflict management. Fall.

**SP 323****ORGANIZATIONAL COMMUNICATION**

Full Course

Structure, process, and function of communication in organizations, including diagnosing communication problems, analyzing communication networks, managing communication. Alternate years, Spring 1987.

**SP 347****PERSUASION HISTORY, THEORY, AND PRACTICE**

Full Course

Origin and development of speech communication as seen in the history, theory, and practice of persuasion. Alternate years, Fall 1987.

**SP 362****ARGUMENTATION AND DEBATE**

Full Course

Audience analysis and adaptation, logical and emotional appeals, attitude change, fundamentals and practice of debate. Alternate years, Fall 1986.

**SP 394, 396, 397, 398****SEMINARS IN COMMUNICATION ISSUES**

Full Courses

Special topics in speech communication such as managing conflict, intercultural communication, group leadership, effective listening.

**SP 412****VERBAL AND NONVERBAL COMMUNICATION**

Full Course

Function and theory of language, including role in semantics, verbal taboos, violence, racism & sexism; and of elements other than words, including appearance, space, touch, para-language, environment. Alter-

nate years, Spring 1988.

**SP 493****COMMUNICATION ETHICS**

Full Course

Nature and criteria of ethical behavior; issues raised in interpersonal, group, public, organizational, and intercultural communication, including the power of personal, social, political, religious, business, and persuasive communication. Alternate years, Spring 1987.

# EDUCATION

**FACULTY:**

Shirley Richner (chair, sabbatical leave, 1986-87), Tammy Reid (acting chair, 1986-87), Nick Faber, Les Francis, Carol Hollar, Doris Liebert, Margo Long, Betty Malmstad, Chris Meyer, Randy Michaelis.

**REQUIREMENTS FOR CERTIFICATION: ELEMENTARY, K-8****I. Content in the Teaching Specialty (14 courses)**

An area of concentration with a major academic emphasis must be planned with an advisor during the sophomore year or upon admission to the upper division program. This area of concentration *must* include a total of 14.0 courses of subject content commonly taught in the public schools, including the following:

ED 222	Conceptual Basis: Elementary Math	0.5
ED 365	Exceptional Learners & Mainstream Concepts	1.0
ED 377	Computer Usage in Elementary Education	0.5
MA 221	Theory of Arithmetic	1.0
Six courses in one approved academic department		6.0
Four courses chosen from one of the following options:		4.0
continuation of major emphasis; second approved academic area; special education; courses from other approved academic areas.		
ED 324 or one approved multicultural course		1.0
Note: at least five of the above courses must be upper division.		

**II. Professional Sequence (9.5 courses)**

ED 205	Modern American Education	1.0
ED 212	Growth and Learning	1.0
ED 306	Elementary Methods in Social Studies	1.0
ED 387	Methods of Teaching Reading	1.0
ED 410	Seminar in Elementary Education	0.5
ED 420	Reading in the Elementary School	0.5
ED 421	Arithmetic in the Elementary School	0.5
ED 424	General Science in Elem. & Junior High	0.5
ED 426	Language Arts in the Elementary School	0.5
ED 496	Directed Teaching, Elementary level	3.0

**REQUIREMENTS FOR CERTIFICATION: SECONDARY, 7-12**

**I. Content in the Teaching Specialty (minimum of 13 courses)**

An academic major (approved *both* by the major department and the Education Department) of at least 13.0 courses, or an eight-course major and five-course second teaching field, in a subject(s) commonly taught in the public schools.

**II. Professional Sequence (minimum of 11 courses)**

ED 205	Modern American Education	1.0
ED 212	Growth and Learning	1.0
ED 308	Materials&Learning Resources: Secondary	1.0
ED 365	Exceptional Learners&Mainstream Concepts	1.0
ED 378	Computer Usage in the Secondary School	0.5
ED 416	Reading in the Secondary School	0.5 or 1.0
ED 461	Educational Measurement and Evaluation	0.5
ED 484	Seminar in Secondary Education	1.0
One of the following:		3.0
ED 498	Directed Teaching, Senior High Level	
ED 497	Directed Teaching, Junior High Level	
A methods course in the major		0.5 or 1.0
ED 324 or one approved multicultural course		1.0

**IMPORTANT NOTES FOR EDUCATION MAJORS:**

1. All elementary and secondary certification requirements are subject to change. Therefore, all teaching fields and programs must be approved by the Education Department.
2. Admission to both upper division course work and student teaching must be approved by the Education Department.
3. A Special Education endorsement at the elementary level requires an additional student teaching experience (ED 494).
4. Students with majors or second teaching fields in History or Social Studies must take HI 485 (History of the Pacific Northwest).
5. See Graduate Studies in Education section for graduate courses, degrees and certification programs in education.

**EDUCATION**

**ED 205  
MODERN AMERICAN  
EDUCATION**

Full Course  
Firsthand experience in the public schools with classroom learning about goals, philosophies, special problems facing education today. Student self-evaluation of teaching potential. Prerequisite: Sophomore standing. Fall, Spring.

**ED 212  
GROWTH AND LEARNING**

Full Course  
Total person (spiritual, intellectual, emotional, psychological, physical) as related to human growth and development, educational psychology. Self-concept, value development, responsible behavior. Prerequisite: minimum

of sophomore standing. Fall, Spring.

**ED 222  
CONCEPTUAL BASIS  
FOR ELEMENTARY  
MATHEMATICS**

Half Course  
Understanding of mathematical concepts through use of manipulative materials such as power ten blocks, geoboards, computer-supported learning aids. Problem solving, deductive reasoning, pattern search. Emphasis on learning rather than memorizing. Fall, Spring.

**ED 306  
ELEMENTARY METHODS  
AND SOCIAL STUDIES  
CURRICULUM**

Full Course  
Introduction to the theories and practices of elementary teaching. Focus on social studies curricu-

lum and methods. Teacher behavior in the classroom as it relates to assessing, directing and managing the student's educational experience. Fall, Spring.

**ED 308  
MATERIALS AND  
LEARNING RESOURCES  
FOR SECONDARY  
SCHOOLS**

Full Course  
Current trends in secondary education. Learning theory, instructional objectives and strategies, classroom interaction, discipline, unit and lesson planning, AV resources. Prerequisite: ED 205, 212. Fall, Spring.

**ED 324  
FIELD EXPERIENCE  
IN MULTICULTURAL  
EDUCATION**

Full Course  
Contributions, traditions and education of an American minority culture. Observation, assistance in the instruction of children and participation in church and community life while residing in the area. Hawaii, southeast Alaska, tribal schools in Washington and Idaho, Yakima Valley schools with migrant worker populations, inner city locations. January term, with required seminars in the adjacent fall and spring.

**ED 365  
INTRODUCTION TO  
EXCEPTIONAL LEARNERS  
AND MAINSTREAMING  
CONCEPTS**

Full Course  
Survey of full continuum of exceptional learners and meeting individual needs in the mainstreamed classroom, as required by PL94-142. Required of all students desiring teacher certifica-

tion. Includes Field Experience. Fall, Spring.

**ED 377  
COMPUTER USAGE IN  
ELEMENTARY EDUCATION**

Half Course  
"Computer literacy" for elementary teachers. Introduction to BASIC language, general computer use concepts and vocabulary, choosing of commercial teaching software, educational issues. Fall, Spring.

**ED 378  
COMPUTER USE IN  
SECONDARY SCHOOLS**

Half Course  
Computer literacy, hardware and software selection and evaluation, computer applications in the classroom, computer implications to education. Educational issues dealing with computers.

**ED 387  
METHODS OF  
TEACHING READING**

Full Course  
Process of reading, teaching of reading skills, sub-skills. Competency based. Includes experience in diagnosing reading difficulties, assessing remediation, planning and implementing lessons. Fall, Spring.

**ED 410  
SEMINAR IN  
ELEMENTARY EDUCATION**

Half Course  
Study of general teaching skills. Discussion of mainstreaming, ITIP, classroom management, disciplining, school law, political pressures, AV methods. Fall, Spring.

**ED 416  
READING IN THE  
SECONDARY SCHOOL**

Half Course

Practical approaches and teaching strategies (for upper elementary and secondary teachers) for teaching students how to utilize and learn from the variety of reading materials used in secondary schools. Alternate January terms (1987).

**ED 420  
READING IN THE  
ELEMENTARY SCHOOL**

Half Course

Components of reading, teaching. Methods, materials, approaches in preparation for student teaching. Fall, Spring.

**ED 421  
ARITHMETIC IN THE  
ELEMENTARY SCHOOL**

Half Course

Current trends in elementary math. Psychological, philosophical views of Piaget, Brunner, Skinner as a basis of curriculum construction, design. Student development of projects, materials. Fall, Spring.

**ED 424  
GENERAL SCIENCE IN  
ELEMENTARY AND  
JUNIOR HIGH SCHOOLS**

Half Course

New commercial science programs, current curricular organization, philosophy. Review of texts, kits, lessons, mini-lessons, project development. Laboratory experience. January, Spring.

**ED 467  
SPECIAL EDUCATION:  
ASSESSMENT AND  
DIAGNOSIS**

Full Course

Skills in identifying learning deficiencies at the classroom level. Diagnostic tests, other assessment tools. Establishment of basis for remediation of disabilities. Spring.

**ED 468  
SPECIAL EDUCATION:  
CURRICULUM AND  
RESOURCES**

Full Course

Materials for education of the handicapped and for remediation of learning deficiencies. Resources available in the profession, at urban, rural and district levels. Fall.

**ED 469  
MAINSTREAMING AND  
ALTERNATIVE  
PROGRAMMING  
STRATEGIES**

Full Course

Awareness of characteristics of specific handicapping conditions and educational implications, instructional strategies, curriculum adaptations, with individual differences accepted and respected. Includes writing of Individual Education Plans. Prerequisite: ED 365, 467, 468. Spring.

**ED 473.2  
COMPUTERS IN  
SCIENCE EDUCATION**

Half Course

Hands-on experience with microcomputers and currently available educational software in natural sciences. Examples of computer-assisted instruction. No previous programming experience required. Prerequisite: two

science courses or one science course and MA 221, also ED 424 (may be taken concurrently).

**ED 484  
SEMINAR IN  
SECONDARY EDUCATION**

Full Course

Taken directly prior to the student teaching experience. Principles of teaching, classroom management, discipline. Use of videotape. Prerequisite: ED 205, 212, 308.

**ED 494  
DIRECTED TEACHING,  
SPECIAL EDUCATION**

Three Full Courses

**ED 496  
DIRECTED TEACHING,  
ELEMENTARY LEVEL**

Three Full Courses

**ED 497  
DIRECTED TEACHING,  
JUNIOR HIGH LEVEL**

Three Full Courses

**ED 498  
DIRECTED TEACHING,  
SENIOR HIGH LEVEL**

Three Full Courses

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## GRADUATE STUDIES IN EDUCATION

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**DIRECTOR OF GRADUATE STUDIES IN EDUCATION:**

Betty Malmstad

**APPLICATION PROCEDURES**

1. Complete application form.
2. Have two official transcripts from each college attended sent directly to GSE Office, Dixon Hall, Room 209, Whitworth College, Spokane WA 99251.
3. Take the Graduate Record Examination and have scores sent to GSE Office at address above.
4. For Counseling and Administrative programs, four evaluations (from sources approved by the GSE Office) plus a self-evaluation are required.
5. If admitted, you will be asked to make an appointment with a GSE advisor to write your individual degree plan.

**ADMISSION POLICIES**

1. A bachelor's degree from an accredited college or university is required.
2. A cumulative grade point average of 3.0 is required for full admission; in some cases a student with a gpa from 2.7 to 2.99 may be given special admission.
3. For foreign students, TOEFL or GRE scores are required prior to admission. The minimum TOEFL score accepted is 550. Foreign students must provide proof of adequate financial resources for graduate study prior to admission.
4. If GRE scores indicate an area of deficiency, additional course work in English or mathematics may be required.
5. No more than two graduate-level Whitworth courses taken prior to admission may be used toward a graduate degree.

6. Prerequisite courses may be required if a) a student has not completed a minimum of 15 quarter hours in undergraduate or graduate level Education courses or, b) if a student whose first language is not English is determined by the GSE advisor to need coursework in English and/or study skills.

**REQUIREMENTS FOR THE MASTER OF EDUCATION (M.Ed.) DEGREE  
Open Emphasis (10 courses)**

ED 533	Curriculum Development	1.0
ED 539	Educational Research and Development	1.0
One of the Following:		
ED 541	Philosophy of Education	1.0
ED 543	History of Education	1.0
ED 546	Legal and Policy Foundations	1.0
One of the Following: 1.0 or 2.0		
A scholarly thesis		(2.0)
A research project		(1.0)
An approved practicum in the student's area		(1.0)

The remaining five or six courses are chosen in conjunction with and with the approval of the GSE advisor. A specific "Theme of Study" is developed.

Also required: successful completion of three written comprehensive examinations.

**Educational Administration (10 courses)**

ED 523	Supervision and Human Relations	1.0
ED 525	Organization and Admin.: Public Schools	1.0
ED 533	Curriculum Development	1.0
ED 539	Educational Research and Development	1.0
ED 546	Legal and Policy Foundations	1.0
ED 548	Public School/Community Relations	0.5
ED 560	Public School Finance	0.5

Approved administrative internship: 2.0  
Additional approved courses in the candidate's area of specialty: 2.0  
Screening by Administrative Program Unit.

Also required: successful completion of three written comprehensive examinations.

**Guidance and Counseling (10 courses)  
(School Counselor Certification Option)**

ED 501	Counseling Theories & Psych Foundations	1.0
ED 506	Informational Services	1.0
ED 526	The Counseling Process	1.0
ED 535	Career Education	1.0
ED 539	Educational Research and Development	1.0
ED 550	Supervised Counselor Practicum	2.0
ED 561	Tests and Measurements	1.0
ED 565	Introduction to Group Counseling	1.0
ED 566	Group Process	1.0

Screening by Counselor Program Unit.  
Completion of Review Board.

**Guidance and Counseling (10 courses)  
(Noncertification Option One—Teaching)**

ED 501	Counseling Theories & Psych Foundations	1.0
ED 526	Counseling Process	1.0
ED 533	Curriculum Development	1.0
ED 539	Educational Research and Development	1.0
Five approved counseling-related courses		5.0
Thesis, Research Project, or Practicum		1.0

Also required: successful completion of three written comprehensive examinations.

**Guidance and Counseling (10 courses)  
(Noncertification Option Two—Social/Church Work)**

ED 501	Counseling Theories & Psych Foundations	1.0
ED 526	Counseling Process	1.0
ED 539	Educational Research and Development	1.0
ED 565	Introduction to Group Counseling	1.0
ED 566	Group Process	1.0
Three approved career-related courses		3.0

Counseling Practicum: social agency or church setting: 2.0  
Also required: successful completion of three written comprehensive examinations.

**REQUIREMENTS FOR THE MASTER OF ARTS IN TEACHING (M.A.T.)  
DEGREE**

**Reading (10 courses)**

ED 510	Foundations of Reading Instruction	1.0
ED 511	Diagnosis/Treatment: Reading Disabilities	1.0
ED 512	Organization/Admin: Reading Programs	1.0
ED 514	Clinical Practicum in Reading	0.5
ED 515	Supervision in Reading Practicum	0.5
ED 533	Curriculum Development	1.0
ED 539	Educational Research and Development	1.0
ED 561	Tests and Measurements	1.0

Three of the following: 3.0  
ED 516 Children's Literature and Reading Growth  
ED 517 Methods in Secondary Reading  
ED 518 Developmental Reading and Classroom Teacher  
ED 519 Language and Vocabulary Development  
ED 520 Reading in the Content Areas

Also required: successful completion of three written comprehensive examinations.

**Gifted and Talented (10 courses)**

ED 500.5	Creativity in the Classroom	1.0
ED 533	Curriculum Development	1.0
ED 539	Educational Research and Development	1.0
ED 573.1	Teaching and the Self-Concept	1.0
ED 576	Strategies for Challenging Bright Students	1.0
ED 584	Practicum (100 hours of supervised work)	1.0
ED 596	Educational Psychology of the Gifted	1.0

One of the following: 1.0  
ED 541 Philosophy of Education  
ED 543 History of Education  
ED 546 Legal and Policy Foundations

Combination of various Gifted/Talented workshops: 2.0  
Also required: successful completion of three written comprehensive examinations.

**Special Education (10 courses)**

ED 500.1	Introduction to Exceptional Children and Mainstreaming Concepts	1.0
ED 500.2	Special Education: Assessment/Diagnosis	1.0
ED 500.3	Special Education: Curriculum/Resources	1.0
ED 500.4	Mainstreaming and Alternative Programming Strategies	1.0
ED 533	Curriculum Development	1.0
ED 539	Educational Research and Development	1.0
ED 579	Practicum (100 hours of supervised work)	1.0

One of the following: 1.0  
ED 541 Philosophy of Education  
ED 543 History of Education  
ED 546 Legal and Policy Foundations

Two approved courses in the exceptional learner: 2.0

**REQUIREMENTS FOR CERTIFICATION**

In addition to the Master's Degree programs listed above, Whitworth College offers, through its Graduate Studies in Education, the opportunity to earn the following types of certification:

- Initial Level Administrative Certificate
- Continuing Level Administrative Certificate
- Initial ESA Counselor Certification
- Continuing ESA Counselor Certification
- 5th Year (Continuing Level) Teacher Certification

For information on these programs, please contact:  
GSE Office, Whitworth College (Dixon 209)  
Spokane Washington 99251

**ACADEMIC POLICIES**

1. Graduate degree specializations must be built upon adequate undergraduate preparation. Therefore, students must demonstrate an adequate background in education to be admitted to M.Ed. or M.A.T. programs.
2. A minimum of ten full courses (50 quarter hours) in approved courses is required for all M.Ed. and M.A.T. degrees. Of these courses a maximum of two courses (10 quarter hours) may be transferred from other colleges or universities. Correspondence and extension courses may not be included.
3. Master's degree and certification candidates must achieve a cumulative grade point average of 3.00 for all courses taken as part of the Degree Plan. No credit toward a degree will be allowed for a course in which the student receives a grade below "C". Courses in which a grade less than "C" is earned will not count toward the completion of a student's course of study and, if required for the degree, must be repeated. This policy is effective with the Fall Term 1985, and does not apply to coursework taken in previous terms.
4. All credits toward a graduate degree must be within six years' recency at the time of program completion.
5. A load of two courses in a Fall or Spring Term is considered full-time. Three courses represent a maximum load, to be exceeded only under special circumstances and with the GSE advisor's approval. Persons working full-time are advised not to exceed a two-course load.
6. Students may be suspended for violation of academic standards, misdemeanors, and/or failure to pay debts. Failure to complete the Graduate Record Exam, or other entrance requirements within six months of being admitted, will result in cancellation of admission. Subsequent readmission follows the procedure for new admission under the catalog requirements in effect at the time of reapplication.
7. Whitworth College reserves the right to withhold credit, transcripts, and diplomas until all campus debts are settled.
8. Any appeals should be presented in writing to the Director, Graduate Studies in Education.

**GRADUATE COURSES  
IN EDUCATION****ED 500  
ACTION RESEARCH  
PROJECT: DISTRICT  
LEVEL**

Full Course

A guided study activity for school administrators which involves the completion of a research project of immediate practical concern to the student's employing school district. Must be of such quality as to be publishable within the district and must have immediate policy implications.

**ED 500.1  
SPECIAL EDUCATION:  
INTRODUCTION TO  
EXCEPTIONAL LEARNERS  
AND MAINSTREAMING  
CONCEPTS**

Full Course

Survey of full continuum of

exceptional learners and meeting individual needs in the mainstreamed classroom, as required by PL94-142. Required of all students desiring teacher certification. Includes Field Experience. Also listed as ED 365.

**ED 500.2  
SPECIAL EDUCATION:  
ASSESSMENT AND  
DIAGNOSIS**

Full Course

Skills in identifying learning deficiencies at the classroom level. Diagnostic tests, other assessment tools. Establishment of basis for remediation of disabilities. Also listed as ED 467.

**ED 500.3  
SPECIAL EDUCATION:  
CURRICULUM AND  
RESOURCES**

Full Course

Materials for education of the

handicapped and for remediation of learning deficiencies. Resources available in the profession, at urban, rural and district levels. Also listed as ED 468.

**ED 500.4  
SPECIAL EDUCATION:  
MAINSTREAMING AND  
ALTERNATIVE  
PROGRAMMING  
STRATEGIES**

Full Course

Awareness of characteristics of specific handicapping conditions and educational implications, instructional strategies, curriculum adaptations, with individual differences accepted and respected. Includes writing of Individual Education Plans. Also listed as ED 469.

**ED 500.5  
CREATIVITY IN THE  
CLASSROOM**

Full Course

For elementary and secondary teachers and parents interested in pursuing the topic of creativity. Characteristics, testing tools, and activities which enhance creativity in students. The goal: to enable teachers and parents to more fully develop creative potential in their children. Also listed as ED 400.

**ED 501  
COUNSELING THEORIES  
AND PSYCHOLOGICAL  
FOUNDATIONS**

Full Course

Focus on the understanding and development of a consistent personal counseling theory and the relationship of this personal theory to several established psychological and counseling models.

**ED 502  
INTRODUCTION TO  
FAMILY COUNSELING**

Full Course

Theory and process in family counseling and problem-solving techniques applied to parent-child conflict. Laboratory experience.

**ED 504  
ADVANCED PRINCIPAL'S  
PRACTICUM—  
CONTINUING LEVEL  
CERTIFICATION**

Full Course

Practical field experience requiring the school administrator to complete field experiences in: a) staff development and in-service training; b) professional scholarship; c) referral agencies, including the ESD; d) school buildings at the grade levels not covered by the initial certificate; and e) central administrative office of the school district. Verification of competencies.

**ED 506  
INFORMATIONAL  
SERVICES**

Full Course

Concepts and materials relating to occupation, education, and social information. Organization and presentation of pertinent information in counseling and classroom situation.

**ED 507  
METHODS OF TEACHING  
CHILDREN WITH  
LEARNING DISABILITIES**

Full Course

Basic knowledge and skills necessary to recognize and effectively provide for the special needs of the learning disabled individual, including children, adolescents, and adults. Theoretical approaches, assessment

procedures, and familiarity with teaching strategies and materials.

**ED 510  
FOUNDATIONS OF  
READING INSTRUCTION**

Full Course  
A study of the reading process; examination of currently used approaches in reading instruction. Individual and group evaluative techniques and instruments.

**ED 511  
DIAGNOSIS AND  
TREATMENT OF READING  
DISABILITIES**

Full Course  
Identification of reading problems. Study of diagnostic instruments and remedial procedures used in group and individual situations. Causes and types of reading retardation. Experience in administering and interpreting standardized and informal tests.

**ED 512  
ORGANIZATION AND  
ADMINISTRATION OF  
READING PROGRAMS**

Full Course  
Development, supervision and administration of a district-wide reading program including policies and procedures related to textbook adoption, in-service, student placement, grouping, testing and coordination of programs.

**ED 514,515  
CLINICAL PRACTICUM/  
PRACTICUM IN READING**

Half Courses  
Field experience with various remedial reading program designs. Analysis and assessment of a district-wide reading program.

**ED 516  
EXPLORING CHILDREN'S  
LITERATURE AND  
READING GROWTH**

Full Course  
Preparation for bringing children and literature materials together, highlighting a large variety of means by which books can be introduced to children individually and in groups. Focus on children's developmental needs which can be met with literature experiences, trends in reading and children's books, and current issues in connecting literature and children.

**ED 517  
METHODS OF SECONDARY  
READING**

Full Course  
Development and implementation of a classroom reading program for the middle and secondary students. Reading needs and interests of adolescents and techniques appropriate for extending their comprehension of written information.

**ED 518  
DEVELOPMENTAL  
READING AND THE  
CLASSROOM TEACHER**

Full Course  
Implementation of the developmental reading programs, evaluation of such programs, and the role of the classroom teacher. Reading and reading instruction factors which psychologically influence the acquisition of reading skills.

**ED 519  
LANGUAGE AND  
VOCABULARY  
DEVELOPMENT**

Full Course  
Procedures of language and vocabulary development. Investi-

gation of children's language development as it relates to the process of initial reading. Communication patterns in preschool and school settings. Methods and materials for beginning vocabulary development.

**ED 520  
READING IN THE  
CONTENT AREA**

Full Course  
Preparation of teachers and reading specialists for teaching/consulting in the public/private school setting. Opportunity for the K-12 teacher to acquire the necessary skills to infuse reading into subject matter instruction.

**ED 523  
SUPERVISION AND  
HUMAN RELATIONS**

Full Course  
Focus on understanding the elements that go into effective supervision, building on strengths and improving supervisory skills, creating a more motivating and productive environment for others, providing an arena to study relationships among supervisory, teaching, and administrative behavior systems.

**ED 525  
ORGANIZATION AND  
ADMINISTRATION OF  
PUBLIC SCHOOLS**

Full Course  
Theoretical and actual applications of administrative policy. Personal examples of organizational structures. Study of various pressure groups that impact decision-making process.

**ED 526  
THE COUNSELING  
PROCESS**

Full Course  
Application of various theories of counseling to the counseling interview. Development of skills and techniques used in counseling. Laboratory experience.

**ED 533  
CURRICULUM  
DEVELOPMENT**

Full Course  
Design, development and implementation of curriculum. Practical procedures for educational leaders having responsibility for the planning and operation of instructional programs.

**ED 535  
CAREER EDUCATION**

Full Course  
Theory, concepts and practice, to include career education as an integrated part of existing curriculum, identification of vocational guidance and testing instruments and informational sources related to career-oriented activities.

**ED 539  
EDUCATIONAL RESEARCH  
AND DEVELOPMENT**

Full Course  
Examining the means of developing new knowledge in education, the development of basic research skills and the appraisal of selected current products of educational research. An individual research project will be completed.

**ED 540  
INTRODUCTION TO SIGN  
LANGUAGE AND THE  
DEAF**

Full Course  
Language acquisition of hearing-impaired persons. Different

methodologies for teaching those with hearing-impairments. History of sign language and the state of the art. Receptive and expressive finger-spelling and sign language skills. American Sign Language used to facilitate communication with hearing-impaired persons.

**ED 541  
PHILOSOPHY OF  
EDUCATION**

Full Course

Philosophical treatment of the functions of schools in our time. Objectives and goals toward which our educational system is moving.

**ED 543  
HISTORY OF EDUCATION**

Full Course

The development of education in America. Changes in education. Evaluation of the influence of various forces upon the trend of education.

**ED 546  
LEGAL AND POLICY  
FOUNDATIONS**

Full Course

Legal issues in the teacher and school administration functions. Development of practical solutions for dealing with the issues by having the knowledge to realize what the law is concerning the issue and how to apply it.

**ED 548  
PUBLIC SCHOOL/  
COMMUNITY RELATIONS**

Half Course

Public relation techniques and effective personal communication. The relationship between the school, the community, parents, teachers, and students. Means by which teachers and administrators can build positive attitudes toward schools.

**ED 549  
ELEMENTARY  
CLASSROOM DISCIPLINE**

Full Course

Focus on means to remove the pressure of enforcing discipline and to become more effective, positive disciplinarians. Methods to redirect the teacher's energy to the more positive aspects of children's education.

**ED 550  
COUNSELING PRACTICUM  
INITIAL LEVEL  
CERTIFICATION**

Two Full Courses

The culminating experience in the program for a master's degree in guidance and counseling. A competency based program with sign-offs as skills are evidenced. On-site and college supervision.

**ED 558  
CONSULTATION SEMINAR**

Full Course

Consulting by administrators, teachers, parents, pupils, personnel specialists, and other significant adults in the life of a client. How to use resources more effectively. Indirect services whereby the specialist works as a consultant with the consulter.

**ED 560  
PUBLIC SCHOOL FINANCE**

Half Course

An examination of the financial dimension of public school administration. Budget development and management; the role of state, local, and federal agencies in school finance issues; collective bargaining; personnel; accountability; the special levy system; accounting procedures; purchasing; and risk management.

**ED 561  
TESTS AND  
MEASUREMENTS**

Full Course

Analysis of individual and group tests and their application to pupil progress. Time given to problems encountered in making up tests for the classroom.

**ED 562.4  
UNDERSTANDING SEXUAL,  
PHYSICAL AND  
EMOTIONAL ABUSE**

Half Course

Abuse, neglect, emotional abuse and sexual abuse of children. Legal issues of child abuse/neglect. Evaluation of the nature of bonding in abusive families.

**ED 565  
INTRODUCTION TO  
GROUP COUNSELING**

Full Course

Group counseling models with an emphasis on processes such as: leadership styles, group techniques, group composition and size, ethical/legal issues, communication skills, and applications of current research findings.

**ED 566  
GROUP PROCESS**

Full Course

Experiential course for the study of individuals interacting in a group. Opportunity to be a group member, to observe the role of a group leader, to experience group process and dynamics, to learn about their own behavior in a group, and to observe interpersonal relationships among group members. Integration of experiential and intellectual processes.

**ED 569.2  
LEARNING AND  
COMMUNICATION STYLES**

Full Course

Content and major contributors to learning style. Opportunity to inventory personal style and develop skills to assess others. Personal and professional applications. New skills and understanding in communicating with and influencing people.

**ED 571.2  
MARRIAGE COUNSELING**

Full Course

Provides intermediate and advanced counseling professionals with a basic preparation in the field of marriage counseling with particular emphasis on conjoint marriage counseling techniques.

**ED 571.4  
TEACHING WRITING**

Full Course

Designed to help teachers help their students do a better job of writing. Teaching the writing process to students. Helpful for teachers interested in bringing writing into their schools or in planning school writing conferences.

**ED 573.1  
TEACHING AND THE SELF-  
CONCEPT**

Full Course

Positive self concept as a basis for subsequent achievement in school and career. Identification of learning styles. Practical methods of teaching and content organization which address the learning styles of individual students and which assist in the development of student self concept.



**ED 573.2  
LIFE-STYLE, LIFE-SCRIPT  
ANALYSIS**

Full Course

Practical skills involved in a life style/lifescrpt investigation for counselors and teachers. Life style: the total system which accounts for the consistency and direction of an individual's life movement.

**ED 573.4  
BEHAVIOR DISORDERS  
IN CHILDREN**

Full Course

Using the state definition of a behavior disorder, explores various levels of severity of each disorder. Symptoms and solutions and how to distinguish between situational problems and true disorders.

**ED 575.4  
WELLNESS AND STRESS  
MANAGEMENT**

Full Course

Investigates stress and well-being, stress and health management. How to be healthier and more whole and to be a source of stress reduction and happiness for others. Applicable for classroom teachers, administrators, counselors.

**ED 575.7  
COMMUNITY RESOURCES:  
MANUFACTURING/RETAIL**

Full Course

Involvement of community leaders in the educational curriculum. A study of persons, places, and things of educational value, especially in industry and retail.

**ED 575.8  
UNDERSTANDING  
SUBSTANCE ABUSE**

Half Course

Overview of problems relating to alcohol and drug abuse. Analysis, various treatment models. For counselors, teachers, administrators.

**ED 576  
STRATEGIES FOR  
CHALLENGING BRIGHT  
STUDENTS**

Full Course

Characteristics, identification, special problems, and program models for the gifted and talented. Student-created curriculum materials appropriate for their grade and/or subject area.

**ED 576.4  
TEACHING PARENTING  
SKILLS**

Full Course

STEP, STEP/TEEN, Responsive Parenting, PET, and other materials used in parent education programs.

**ED 576.6  
SERIOUS EMOTIONAL  
DISTURBANCES**

Full Course

The wide range of psychopathology: its causes, major symptoms, and its interference with normal life and learning. Recognition of these problems.

**ED 576.7  
COMMUNITY RESOURCES:  
FINANCE AND SERVICES**

Full Course

Study of the total environment of the financial and services sections of the community.

**ED 577.8  
LEARNING TO COPE WITH  
CHANGE**

Full Course

Dealing with personal and professional change. Taking charge of the change rather than letting it take charge of you, thus lessening the chances of burnout. Positive coping techniques, including values clarification, assertiveness training, stress management.

**ED 578.3  
BEGINNING ITIP**

Full Course

A wide range of scientific elements inherent in quality instructional decision-making, where successful learning is the desired outcome.

**ED 580  
PROFESSIONAL  
COUNSELOR SEMINAR**

Full Course

For school counselors who are seeking Continuing Level Certification. Organizational patterns, professional development, special programs and services, staff development and developmental issues at alternative grade levels.

**ED 585  
PRINCIPAL'S  
PRACTICUM—INITIAL  
LEVEL CERTIFICATION**

Two Full Courses

Opportunity to participate in a wide range of activities which constitute the normal responsibilities of the elementary or secondary school principal. Work under the direct supervision of the public school administrator and the college supervisor. Competency based with sign-offs as skills are evidenced. Includes opening and closing activities of

the school year.

**ED 588  
COUNSELING SKILLS  
ASSESSMENT AND  
VERIFICATION**

Full Course

A practicum experience providing students an opportunity to demonstrate the needed competencies for Continuing Level certification in Guidance and Counseling. Required of counselors seeking school certification. Consulting skills, program development, service and knowledge of K-12 counseling settings.

**ED 596  
EDUCATIONAL  
PSYCHOLOGY OF THE  
GIFTED**

Full Course

The psychology of gifted students and practical implications of program development and program options for the gifted child.

# ENGLISH

## FACULTY:

Lew Archer (chair), Laura Bloxham, Victor Bobb, Debbie Harrison, Linda Hunt, Leonard Oakland (sabbatical leave 1986-87), Tammy Reid, Craig Thomas.

### REQUIREMENTS FOR AN ENGLISH MAJOR

All English majors are required to take the following five Core courses:

EL 125	Reading Literature	1.0
EL 205	American Literature: Eras and Modes	1.0
EL 207	British Literature: Eras and Modes	1.0
EL 354	Shakespeare	1.0
One upper division literature course		1.0

### Basic Literature Track (12 courses)

Required core courses		5.0
Six additional English courses, including at least two upper division seminars (one each in American and British literature), plus electives on the sophomore and upper division levels, or others in World lit, writing, or linguistics		6.0
EL 498	Senior Honors Project	1.0

### Writing Track (12 courses)

Required Core courses		5.0
EL 245	Creative Writing	1.0
EL 304	Fiction Writing	1.0
EL 345	Workshop in Poetry Writing	1.0
One of the following:		1.0
EL 346	Essay Writing	
EL 384	Literary Criticism	
One course in contemporary literature		1.0
One of the following:		1.0
Additional writing course (English or Journalism); repeat of a writing course at a higher level; English Department teaching assistant; or an approved internship.		
EL 498	Senior Honors Project	1.0

### Teaching Language And Literature (14 courses)

Required Core courses		5.0
EL 388	Structure/Development of English Language	1.0
EL 389*	Teaching English in Secondary Schools	1.0
EL 416*	Reading in Secondary School	1.0
EL 453	Introduction to Linguistics	1.0
Two of the following:		2.0
EL 245	Creative Writing	
EL 304	Fiction Writing	
EL 345	Workshop in Poetry Writing	
EL 346	Essay Writing	
EL 384	Literary Criticism	
EL 395	Teaching Assistant in EL 110	

Two literature courses, at least one upper division 2.0  
One approved Journalism course 1.0

\*Elementary teachers may substitute courses in creative dramatics, oral interpretation, children's literature, or mime for EL 389 and/or EL 416

See Education Department for certification requirements.

### Teaching English, With a 2nd Teaching Field (14 courses)

Required Core courses		5.0
EL 388	Structure/Development of English Language	1.0
One of the following:		1.0

EL 245	Creative Writing	
EL 304	Fiction Writing	
EL 345	Workshop in Poetry Writing	
EL 346	Essay Writing	
EL 395	Teaching Assistant in EL 110	
One of the following:		1.0
EL 389	Teaching English in Secondary Schools	
ED 426	Language Arts-Elementary	
One of the following:		1.0
Elementary—EL 301 (Children's Lit) or any course in oral interpretation.		
Secondary—ED 416 (Reading-Secondary)		
Second teaching field: five courses chosen in consultation with the Education Department		5.0

See Education Department for certification requirements.

### REQUIREMENTS FOR ENGLISH AS A SECOND TEACHING FIELD

#### (K-12 Certification) (5 courses)

EL 125	Reading Literature	1.0
EL 388	Structure, Development of English Language	1.0
One of the following:		1.0
EL 301	Children's Literature	
EL 389	Teaching English in Secondary Schools	
One writing course beyond EL 110		1.0
One literature course (200 level or above)		1.0

#### REQUIREMENTS FOR A LITERATURE MINOR (6 courses)

EL 125	Reading Literature	1.0
Five approved English courses, including at least two upper division literature seminars and at most one level I course		5.0

#### REQUIREMENTS FOR AN ENGLISH MINOR (6 courses)

Six courses as approved in advance by an English Department faculty member.

### PROGRAM IN ENGLISH AS A SECOND LANGUAGE

For students whose primary language is not English, a series of courses have been made available to bring reading, writing, conversation and grammar skills up to a level where participation in the other courses in Whitworth's curriculum may be accomplished at a level of success. Participation in these courses may be required as a condition of admission for some international students, but is open to all international students. Each course carries one Full Course credit, divided as follows: 0.5 course of skill development, numbered at the 000-level and not applicable toward the total credit requirement for graduation; 0.5 course of English credit at the 100-level, applicable toward graduation.

The following courses are available on an irregular basis for students participating in the Program in English as a Second Language:

EL 095.1/105.1	Intermediate Grammar and Skill Development
EL 095.2/105.2	Intermediate Writing and Skill Development
EL 095.3/105.3	Intermediate Reading and Skill Development
EL 095.4/105.4	Intermediate Conversation and Skill Development
EL 095.5/105.5	American Studies I and Skill Development
EL 095.6/105.6	TOEFL Preparation I and Skill Development
EL 095.7/105.7	Drama/Directed Conversation and Skill Dev.
EL 095.8/105.8	Special Problems and Skill Development
EL 095.9/105.9	Directed Study and Skill Development
EL 097.1/107.1	Advanced Grammar and Skill Development
EL 097.2/107.2	Advanced Writing and Skill Development
EL 097.3/107.3	Advanced Reading and Skill Development
EL 097.4/107.4	Lecture Preparation and Skill Development
EL 097.5/107.5	American Studies II and Skill Development
EL 097.6/107.6	TOEFL Preparation II and Skill Development
EL 097.7/107.7	Drama/Directed Conversation and Skill Dev.
EL 097.8/107.8	Special Problems and Skill Development
EL 097.9/107.9	Directed Study and Skill Development
EL 098.1/108.1	Class Visitation and Review
EL 098.2/108.2	Directed Study and Skill Development

**ENGLISH COURSES****EL 093  
DEVELOPING WRITING  
SKILLS**

Full Course  
Workshop format. Individual attention. Does not count toward graduation credits. Fall.

**EL 110  
WRITING I**

Full Course  
Full range of writing, from personal essay to argumentative paper. Grammar presented as needed. Fall, Spring.

**EL 125  
READING LITERATURE**

Full Course  
Fiction, drama, poetry. Introduction to literary genres. Initial course for majors. Fall, Spring.

**EL 181  
WRITING RESEARCH  
PAPERS**

Quarter Course  
Aids to competency in research and writing. Use of the library, reference material, organization in preparation for writing, mechanics of writing and footnotes. Fall, Spring.

**EL 205  
AMERICAN LITERATURE:  
ERAS AND MODES**

Full Course  
Major figures of American literature, contact with every major literary period. Preparation for upper division seminars. Prerequisite: EL 125. Fall, Spring. (3 out of every 4 semesters).

**EL 207  
BRITISH LITERATURE:  
ERAS AND MODES**

Full Course  
Overview of the major periods of British literature. Representative

works, characteristics of Medieval, Renaissance, Neoclassical, Romantic, Victorian, Modern periods. Prerequisite: EL 125. Fall, Spring. (3 out of every 4 semesters).

**EL 210  
WRITING II**

Full Course  
Writing the argumentative essay. Emphasis on revision. By permission. Fall, Spring.

**EL 212  
RELIGIOUS THEMES IN  
MODERN LITERATURE**

Full Course  
A novels course addressing issues of discovering and responding to God in works by Graham Greene, Elie Wiesel, Alan Paton, Ntozake Shange, Shusaku Endo, and others.

**EL 213  
MYTHS AND FAIRY TALES**

Full Course  
Classic myths, fairy tales of Western literature. Use of myths, fairy tales by modern writers. For modern adult readers.

**EL 233  
LITERATURE OF THE  
WESTERN WORLD**

Full Course  
A close reading of the great epics of Homer, Virgil, Dante. Study of myths and epic structure.

**EL 245  
CREATIVE WRITING**

Full Course  
The writing of short fiction, drama, poetry. Workshop method. Fall, Spring.

**EL 250  
THE MOVIES**

Full Course  
Basic cinema terms, film history. Examination of theme, visual elements, values.

**EL 251  
MODERN WORLD  
LITERATURE**

Full Course  
Short fiction and novels. European, Third World authors. Themes: artist and society, war, alienation.

**EL 262, 362  
THE BIBLE AS  
LITERATURE**

Full Course  
Reading the Bible as a literary artifact. Use of literary criticism and its varied approaches. Hero stories, prophetic oracles, history, myth, fiction, apocalypse, poetry, biography.

**EL 293, 294  
DIRECTED READINGS:  
AMERICAN LITERATURE**

Quarter Course  
A reading list for credit that extends the student's knowledge of American fiction and drama. Self-paced, conference at end of term. May be repeated for credit. Prerequisite: EL 205.

**EL 300  
DOMAIN OF THE ARTS**

Full Course  
Exploration of drama, poetry, dance, music, art, film on location in San Francisco. The arts in relation to society, values, faith. January.

**EL 301  
EXPLORING CHILDREN'S  
LITERATURE**

Full Course  
Evaluation of a broad range of literature for children. Use of literature in the classroom and other group situations.

**EL 304  
FICTION WRITING**

Full Course  
Theory and form of fiction writing. Critique of works by instruc-

tor and class. Narration, description, dialogue, conflict and tension, resolution; fiction modes. Fall.

**EL 305  
CONTEMPORARY  
AMERICAN POETRY**

Full Course  
Thorough study of recent poems by several contemporary poets. Levertov, Hugo, Roethke, Levine, Snyder, others.

**EL 308  
NEOCLASSICISM**

Full Course  
Study of major 18th century authors: Swift, Pope, Johnson and novelists. Social history.

**EL 323  
AMERICAN LITERATURE  
OF THE 1920's**

Full Course  
Fiction and drama of Faulkner, Fitzgerald, Hemingway, the Harlem Renaissance, Jazz Age, other writers. Prerequisite: EL 205.

**EL 324  
LITERATURE AND  
CULTURE OF FRANCE**

1.25 Course  
Focus on French classicism and romanticism. Museum visits. Part of study tour to France every other year. (Spring 1988).

**EL 333  
LITERARY ENGLAND**

1.25 Course  
Lives and works of authors prior to visiting their homes and regions. Arthurian legends, Shakespeare, Milton, Wordsworth, Keats, Brontes, others. Daily journal. Part of study tour to England, every other year. (Fall 1987).

**EL 345  
WORKSHOP IN POETRY  
WRITING**

Full Course

Advanced course in poetry composition, revision. Reading of current poems, essays on the creative process. By application, portfolio. Spring.

**EL 346  
ESSAY WRITING**

Full Course

Advanced course for students with some experience in writing. Revising, polishing of expository prose. Experimentation with various modes, tones, audiences. Spring.

**EL 349  
TWENTIETH CENTURY  
AMERICAN LITERATURE**

Full Course

Major American novelists, dramatists, essayists from World War I to the present. Cultural issues, style, nature of the American experience.

**EL 354  
SHAKESPEARE**

Full Course

Understanding and enjoyment of Shakespeare's comedies, history plays, tragedies, romances. Fall.

**EL 360  
TWENTIETH CENTURY  
BRITISH LITERATURE**

Full Course

A study of the fiction, drama and poetry of the British Isles, 1900 to the present. Conrad, Forster, D. Thomas, Pinter, Stoppard, Joyce, Woolf, G.B. Shaw, D.H. Lawrence, others.

**EL 362**—See EL 262.**EL 371  
LITERATURE OF THE  
BRITISH RENAISSANCE**

Full Course

16th and 17th century England. More, Spenser, Sidney, sonneteers, Marlowe, Donne, Herrick, Jonson, Herrick, others.

**EL 372  
LITERATURE OF THE  
AMERICAN RENAISSANCE**

Full Course

A study of the major figures of the 19th century renaissance in American literature, 1835-1890. Emerson, Thoreau, Hawthorne, Melville, Poe, Dickinson, Whitman. Seminar format. Prerequisite: EL 205.

**EL 375  
VICTORIAN POETRY**

Full Course

Major Victorian poets: Tennyson, Browning, Arnold, Hopkins. Literary and social history.

**EL 376  
BRITISH ROMANTIC  
POETS**

Full Course

Six Romantic poets in an age of revolutions: Blake, Wordsworth, Coleridge, Shelley, Keats, Byron. Some attention to the art of the period.

**EL 377  
MODERN POETRY**

Full Course

The revolution in American poetry. Pound, Williams, Stevens, Cummings. In-depth study of T.S. Eliot.

**EL 384  
LITERARY CRITICISM**

Full Course

Writing critical papers on literature. Study of differing critical perspectives. Major critical statements and theories. Upper divi-

sion standing required.

**EL 388  
DEVELOPMENT AND  
STRUCTURE OF THE  
ENGLISH LANGUAGE**

Full Course

Designed for prospective teachers. History and development of our language. Sources and reasons for current English forms. Review of traditional grammar, exposure to various new grammars. Spring.

**EL 389  
METHODS OF TEACHING  
ENGLISH IN SECONDARY  
SCHOOLS**

Full Course

Transition from college English major to high school English teacher. Presentation of literature, language, composition in simulated classroom. Use of videotape. Spring.

**EL 393, 394  
DIRECTED READINGS:  
WORLD LITERATURE**

Quarter Course

A reading list for credit that extends the student's knowledge of European fiction and drama from the Classical period to the modern. Self-paced, conference at end of term. May be repeated for credit. Prerequisite: EL 125.

**EL 405  
CHAUCER AND MEDIEVAL  
LITERATURE**

Full Course

Study of Middle English to read Chaucer's *Troilus & Criseyde*. Emphasis on *Canterbury Tales*. Several medieval works.

**EL 412  
DRAMA SEMINAR**

Full Course

Readings of the great plays from Aeschylus to the present. Theme, plot, characters.

**EL 416  
READING IN THE  
SECONDARY SCHOOL**

Half Course

See Education (ED 416) for course description.

**EL 453 (345)  
INTRODUCTION TO  
LINGUISTICS**

Full Course

Science of language. Pronunciation, rhythm, intonation, acoustic nature of speech. Course progresses toward more conceptual aspects of language. Alternate Fall terms (1987).

**EL 454  
RUSSIAN LITERATURE**

Full Course

Fiction of the 19th and 20th centuries. Turgenev, Gogol, Dostoevsky, Tolstoy, Soviet authors.

**EL 455  
MILTON**

Full Course

Literary, theological, autobiographical approaches, special emphasis on *Paradise Lost*.

**EL 465  
ENGLISH NOVEL**

Full Course

From the rise of the novel in 18th century through classic novels of the 19th and the early 20th century.

**EL 493, 494  
DIRECTED READINGS:  
BRITISH LITERATURE**

Quarter Course

A reading list for credit that extends the student's knowledge of British fiction and drama. Self-paced, conference at end of term. May be repeated for credit. Prerequisite: EL 207.

**EL 498  
SENIOR HONORS PROJECT**

Full Course  
Capstone experience to English major. Research paper, writing portfolio, senior performance. Designed with instructor, class. By permission.

# HEALTH EDUCATION, PHYSICAL ED., RECREATION AND ATHLETICS

**FACULTY:**

Diana Marks (chair), Jean Anderson, Jon Buzzard, Ross Cutter, Kay DeRoos, Warren Friedrichs, Bruce Grambo, Scott McQuilken, Paul Merkel, Rita Rogers, Brian Sanders.

**ATHLETIC DIRECTOR:** Bruce Grambo

**COACHES:** Jon Buzzard (swimming), Ross Cutter (men's tennis), Warren Friedrichs (men's basketball), Bruce Grambo (football), Scott McQuilken (baseball), Paula Nunnaly (women's basketball), Patricia Shelton (volleyball), Einar Thorarinnsson (soccer), Arnie Tyler (men's and women's track and field), Hal Werner (men's and women's cross-country).

**REQUIREMENTS FOR A PHYSICAL EDUCATION MAJOR  
(minimum of 12.5 courses)**

PE 265	Professional Activities I	.25
PE 266	Professional Activities II	.25
PE 267	Professional Activities III	.25
PE 268	Professional Activities IV	.25
PE 277	Aquatics Survey	0.5
PE 279	History and Principles of Physical Ed	1.0
PE 312	Organization/Admin/Curriculum in Phys Ed	1.0
PE 320	Kinesiology	1.0
PE 330	Adaptive Physical Educ. and Recreation	0.5
PE 361	Curriculum and Methods in Health Educ.	1.0
PE 400	Tests and Measurements	1.0

PE 465	Motor Learning	1.0
PE 498	Senior Seminar	0.5
Two of the following:		2.0

PE 322	Philosophical/Psychological Aspects; Coaching	
PE 420	Organiz./Admin. of Intramural/Intersch. Sports	
PE 430	Sports and Society	
NF 111	Nutrition, Food, and People	

Courses for Certification: 2.0 or 2.5

## Elementary (2 courses)

PE 345	Teaching Elementary Physical Education	(0.5)
PE 347	Games and Activities in Elem. School	(0.5)
PE 475	Motor Development	(1.0)

## Secondary (2.5 courses)

PE 326	Exercise Physiology	(1.0)
PE 350	Methods Seminar	(0.5)
PE 351	Methods Seminar	(0.5)
PE 379	Athletic Training	(0.5)

Purchase of professional uniform required.

Note: For PE majors, PE 265, 266, 267, 268 may be used to fulfill the activity portion of the general Physical Education requirement.

**Sports Medicine Option (11 courses)**

PE 270	First Aid	0.5
PE 279	History and Principles of Physical Educ.	1.0
PE 320	Kinesiology	1.0
PE 326	Exercise Physiology	1.0
PE 330	Adaptive Physical Education and Recr.	0.5
PE 333	Advanced Athletic Training	0.5
PE 334	Advanced Athletic Training	0.5
PE 335	Advanced Athletic Training	0.5
PE 361	Curriculum and Methods in Health Educ.	1.0
PE 379	Athletic Training	0.5

Two of the following Half Courses:

HB 424.2/424.8	Special Topics in Health Education	
NF 111	Nutrition, Food, and People	1.0
One of the following:		0.5

PE 277	Aquatics Survey	
PE 351	Methods Seminar	

Two of the following (half courses) 1.0

PE 371	Theory and Practice of Baseball	
PE 372	Theory and Practice of Basketball	
PE 373	Theory and Practice of Football	
PE 374	Theory and Practice of Track and Field	
PE 375	Theory of Volleyball Coaching	

Two of the following (quarter courses) 0.5

PE 265	Professional Activities I	
PE 266	Professional Activities II	
PE 267	Professional Activities III	
PE 268	Professional Activities IV	

Purchase of professional uniform required.

**REQUIREMENTS FOR A RECREATION MAJOR  
(minimum of 11.5 courses)**

PE 270	First Aid	0.5
RC 230	Recreation in Contemporary Society	1.0
RC 315	Community Recreation	1.0
RC 354	Field Work in Recreation	1.0
RC 355	Recreation Leadership	1.0
RC 356	Camp Leadership	1.0
RC 418	Administration of Recreation	1.0
RC 455	Programming for Special Groups	1.0
RC 485	Internship	3.0-4.0

One of the following: ..... 1.0

AR 150 Introduction to Crafts

TA 373 Creative Dramatics

Recommended:

PE 430 Sports and Society

RC 338 Leisure and Aging

BU 230 Basic Accounting I

BU 374 Principles of Management

PO 371 Public Policy and Administration

SO 258 Work and Leisure

SO 265 Urban Communities

#### Developmental Disability Option

(minimum of 11.5 courses)

PE 270 First Aid ..... 0.5

RC 220 Recreation in Contemporary Society ..... 1.0

RC 232 Developmentally Disabling Conditions ..... 0.5

RC 234 Understanding: Developmentally Disabled ..... 0.5

RC 315 Community Recreation ..... 1.0

RC 335 Leadership Programs for Devel. Disabled ..... 1.0

RC 354 Field Work in Recreation ..... 1.0

RC 356 Camp Leadership ..... 1.0

RC 418 Administration of Recreation ..... 1.0

RC 485 Internship ..... 3.0-4.0

One of the following: ..... 1.0

AR 150 Introduction to Crafts

TA 373 Creative Dramatics

#### REQUIREMENTS FOR A HEALTH EDUCATION/HEALTH

##### PROMOTION MAJOR

##### BACHELOR OF ARTS (minimum of 17 courses)

BI 220 Human Anatomy ..... 1.0

BI 221 Human Physiology ..... 1.0

MA 108 Finite Math for the Social Sciences ..... 1.0

CS 170 Intro to Computer Information Systems ..... 1.0

NF 111 Nutrition, Food, and People ..... 1.0

HB 410 Educational Foundations: Health Promotion ..... 1.0

HB 417 Public, Community, and Consumer Health ..... 1.0

Two of the following Half Courses ..... 1.0

HB 424.2 Drugs and Society

HB 424.3 Sexuality and Society

HB 424.4 Lifestyles and Society

HB 424.6 Aging and Society

HB 424.8 Nutrition and Society

HB 477 Program Development and Evaluation ..... 1.0

HB 478 Health Promotion/Risk Reduction ..... 1.0

HB 484 Program Administration and Marketing ..... 1.0

Field Internship or Field Study ..... 0.5

Two of the following quarter courses: ..... 0.5

HB 319, 321, 323, 324, 326, 330 Seminars in Health Education

MA 356 Elementary Probability and Statistics ..... 1.0

One of the following: ..... 1.0

PH 351 Philosophical Ethics

PH 354 Bioethics

SP 493 Communications Ethics

One of the following: ..... 1.0

SP 323 Organizational Communication

SP 394 Group Leadership

SP 396 Conflict Management

SP 397 Intercultural Communication

Two additional approved courses ..... 2.0

Note: Several Health Education (HB) courses have prerequisite courses.

#### BACHELOR OF SCIENCE (20 courses)

Requirements for Bachelor of Arts (above) ..... 17.0

Three approved upper division courses in Biology, Chemistry, Nutrition,  
Mathematics ..... 3.0

#### REQUIREMENTS FOR PHYSICAL EDUCATION AS A SECOND TEACH- ING FIELD (5 courses)

PE 279 History and Principles of Physical Ed ..... 1.0

PE 320 Kinesiology ..... 1.0

PE 351 Methods Seminar ..... 0.5

Two of the following: ..... 2.0

PE 326 Exercise Physiology

PE 400 Tests and Measurements

PE 420 Organiz./Admin. of Intramural/Intersch. Sports

PE 430 Sports and Society

PE 465 Motor Learning

Two of the following quarter courses: ..... 0.5

PE 265 Professional Activities I

PE 266 Professional Activities II

PE 267 Professional Activities III

PE 268 Professional Activities IV

Purchase of professional uniform required.

#### Elementary Physical Education Option (5 courses)

PE 279 History and Principles of Physical Educ. .... 1.0

PE 320 Kinesiology ..... 1.0

PE 345 Elementary School Physical Educ. Methods ..... 0.5

PE 347 Games and Activities for the Elem. School ..... 0.5

Two of the Following: ..... 2.0

PE 400 Tests and Measurements

PE 465 Motor Learning

PE 475 Motor Development

#### Coaching Option (5 courses)

PE 270 First Aid ..... 0.5

PE 320 Kinesiology ..... 1.0

PE 379 Athletic Training ..... 0.5

Two of the following ..... 2.0

PE 279 History and Principles of Physical Education

PE 322 Philosophical/Psychological Aspects: Coaching

PE 326 Exercise Physiology

PE 420 Organization and Administration of Intramural and Interscholastic Sports

PE 430 Sports and Society

Two of the following half courses: ..... 1.0

PE 371 Theory and Practice of Baseball

PE 372 Theory and Practice of Basketball

PE 373 Theory and Practice of Football

PE 374 Theory and Practice of Track and Field

PE 375 Theory of Volleyball Coaching

#### REQUIREMENTS FOR A RECREATION MINOR (Developmental Disability) (5 courses)

Five approved full courses including: ..... 5.0

RC 232 Developmentally Disabling Conditions

RC 234 Understanding the Developmentally Disabled

RC 335 Leadership Program for Developmentally Disabled

RC 354 Field Work in Recreation

#### REQUIREMENTS FOR A HEALTH PROMOTION MINOR (6 courses)

One approved Professional Focus Core course ..... .25  
(HB 319, 321, 323, 324, 326 or 330)

Three of the following: ..... 3.0

HB 410 Educational Foundations in Health Promotion

HB 417 Public, Community, and Consumer Health

HB 477 Program Development and Evaluation

HB 478 Health Promotion/Risk Reduction

Two of the following half courses: Sexuality and Society, Drugs and Society,  
Lifestyles and Society, Aging and Society, Nutrition and Society ..... 1.0

Additional Approved Courses .....	1.5
Field Internship or Field Study .....	.25

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**PHYSICAL EDUCATION COURSES**


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**VARSITY SPORTS**


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Quarter Courses

For participants in men's and women's sports at the inter-collegiate level.

- PE 101**  
**VARSITY BASEBALL**  
**PE 102**  
**VARSITY BASKETBALL**  
**PE 103**  
**VARSITY FOOTBALL**  
**PE 105**  
**VARSITY TENNIS**  
**PE 106**  
**VARSITY TRACK AND FIELD**  
**PE 107**  
**VARSITY AQUATICS**  
**PE 109**  
**VARSITY CROSS COUNTRY**  
**PE 110**  
**VARSITY VOLLEYBALL**  
**PE 111**  
**VARSITY SOCCER**

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**ACTIVITY COURSES**


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Quarter Courses

- PE 112**  
**ARCHERY**  
**PE 113, 213**  
**BEGINNING,**  
**INTERMEDIATE**  
**BASKETBALL**  
**PE 114**  
**SLIMNASTICS**  
**PE 115**  
**BOWLING**  
**PE 119**  
**ICE SKATING**

- PE 122, 222**  
**BEGINNING,**  
**INTERMEDIATE TENNIS**

- PE 124**  
**WEIGHT TRAINING**

- PE 125, 225**  
**BEGINNING,**  
**INTERMEDIATE GOLF**

- PE 126**  
**FOUNDATIONS OF**  
**PHYSICAL ACTIVITY**  
 Cognitive learning and individualized appraisal and program planning for fitness development and lifetime sport/dance education.

- PE 129, 229**  
**BEGINNING,**  
**INTERMEDIATE**  
**BADMINTON**

- PE 130**  
**SOCCER**

- PE 131**  
**SOFTBALL**

- PE 132**  
**FITNESS PROGRAMS**

- PE 133, 233**  
**BEGINNING,**  
**INTERMEDIATE**  
**VOLLEYBALL**

- PE 134**  
**JOGGING/AEROBICS**

- PE 135**  
**RACQUETBALL**

- PE 138**  
**KARATE**

- PE 139**  
**FENCING**

- PE 143, 243**  
**BEGINNING,**  
**INTERMEDIATE BALLET**

- PE 144**  
**CONDITIONING THROUGH**  
**DANCE**

- PE 148**  
**CROSS COUNTRY SKIING**

- PE 149**  
**SWIMMING FOR FITNESS**

- PE 150, 151**  
**BEGINNING,**  
**INTERMEDIATE AQUATICS**

- PE 250**  
**AQUATICS—LIFE SAVING**

- PE 251**  
**AQUATICS—W.S.I.**

- PE 159, 160**  
**BEGINNING,**  
**INTERMEDIATE SKIING**

- PE 259**  
**ADVANCED SKIING**

- PE 167, 168**  
**DANCE PERFORMANCE**

- PE 170, 171**  
**DANCE VARIATION**

- PE 256**  
**BALLET: POINTE**

- PE 257**  
**BALLET: PAS DE DUEX**

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**OTHER PHYSICAL EDUCATION COURSES**


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- PE 265**  
**PROFESSIONAL**  
**ACTIVITIES I**  
 Quarter Course  
 Tennis, volleyball. Alternate fall terms. (1986).

- PE 266**  
**PROFESSIONAL**  
**ACTIVITIES II**  
 Quarter Course  
 Speedball, games of low organization, badminton. Alternate Spring terms (1987).

- PE 267**  
**PROFESSIONAL**  
**ACTIVITIES III**  
 Quarter Course  
 Golf, dance. Alternate Fall terms (1987).

**PE 268 PROFESSIONAL ACTIVITIES IV**

Quarter Course  
 Soccer, track and field. Alternate Spring terms (1988).

**PE 270**  
**FIRST AID**  
 Half Course

First aid and safety procedures. Advanced American Red Cross certificates awarded to those who qualify.

**PE 279**  
**HISTORY AND PRINCIPLES OF PHYSICAL EDUCATION**  
 Full Course

Historical survey of physical education from ancient to modern times. Basic principles of modern physical education and their relationship to present-day programs. Biological, psychological, cultural factors.

**PE 312**  
**ORGANIZATION, ADMINISTRATION AND CURRICULUM IN PHYSICAL EDUCATION**  
 Full Course

Administrative policies and practices as they relate to program, budget, facilities, equipment, public relations. Curriculum development and construction, study of various teaching approaches. Research into new concepts of physical education. Spring.

**PE 320**  
**KINESIOLOGY**  
 Full Course

A study of human motion emphasizing analysis of joint and muscular action and the application of biomechanical principles for sport skills common to physical education and athletics. Prerequisite: Biology 220. Fall.

**PE 322**  
**PHILOSOPHICAL AND**  
**PSYCHOLOGICAL**  
**ASPECTS OF COACHING**

Full Course

An overview of the application of philosophical and psychological principles to coaching so that the coach is better prepared to develop the maximum potential in athletes. Alternate Fall terms (1987).

**PE 326**  
**EXERCISE PHYSIOLOGY**

Full Course

Principles of physiology applied to muscular activity. Physiological effects of exercise. Spring.

**PE 330**  
**ADAPTIVE PHYSICAL**  
**EDUCATION AND**  
**RECREATION**

Half Course

A course of study designed to better prepare students for teaching activities which must be directed toward or modified for special groups. Spring.

**PE 333, 334, 335**  
**ADVANCED ATHLETIC**  
**TRAINING**

Half Courses

Requires 200 hours in the training room as observer or participant. Athletic injuries and problems that arise covered in a seminar format. Prerequisite: PE 332 and 379.

**PE 345**  
**METHODS OF TEACHING**  
**ELEMENTARY PHYSICAL**  
**EDUCATION**

Half Course

Current methods and materials used in developing the elementary curriculum and in teaching the appropriate activities for each grade level. Class management,

class discipline and directed teaching are practiced. Fall.

**PE 347**  
**GAMES AND ACTIVITIES IN**  
**THE ELEMENTARY**  
**SCHOOL**

Half Course

In-depth examination of the kinds of games and activities currently being used in elementary physical education programs. Special emphasis on teaching methods and class management skills.

**PE 350**  
**METHODS SEMINAR**

Half Course

Practical application of educational theory and sports content. Emphasis on preparation of resource units and directed teaching using individual and dual sports as the vehicle. Fall.

**PE 351**  
**METHODS SEMINAR**

Half Course

Practical application of educational theory and sports content. Emphasis on preparation of teaching units and lesson plans and directed teaching using team sports as the vehicle. Spring.

**PE 361**  
**CURRICULUM AND**  
**METHODS IN HEALTH**  
**EDUCATION**

Full Course

Current problems in health education. Drug and sex education, smoking, drinking, family life education, personal development. Teaching methods in health education from kindergarten through high school. Fall.

**PE 371**  
**THEORY AND PRACTICE**  
**OF BASEBALL**

Half Course

Designed to assist the student in preparing to coach baseball. Organization, equipment, facilities. Opportunity for skill practice.

**PE 372**  
**THEORY AND PRACTICE**  
**OF BASKETBALL**

Half Course

Designed to assist the student in preparing to coach basketball. Organization, equipment, facilities. Opportunity for skill practice.

**PE 373**  
**THEORY AND PRACTICE**  
**OF FOOTBALL**

Half Course

Designed to assist the student in preparing to coach football. Organization, equipment, facilities. Opportunity for skill practice.

**PE 374**  
**THEORY AND PRACTICE**  
**OF TRACK AND FIELD**

Half Course

Designed to assist the student in preparing to coach track and field. Organization, equipment, facilities. Opportunity for skill practice.

**PE 375(275)**  
**THEORY OF VOLLEYBALL**  
**COACHING**

Half Course

Designed to assist the student in preparing to coach volleyball. Organization, equipment, facilities. Opportunity for skill practice.

**PE 379**  
**ATHLETIC TRAINING**

Half Course

Care and prevention of athletic injuries. Review of skeletal and muscular anatomy. Conditioning, therapeutic modalities, priokinetics, drugs, psychogenic factors. Laboratory.

**PE 400**  
**TESTS AND**  
**MEASUREMENTS**

Full Course

Selection, administration and interpretation of knowledge and performance tests.

**PE 420**  
**ORGANIZATION AND**  
**ADMINISTRATION OF**  
**INTRAMURAL AND**  
**INTERSCHOLASTIC**  
**SPORTS**

Full Course

Organizing and administering an intramural program at the elementary, junior and senior high levels with practical projects. Looking at interscholastic sports as a potential athletic director with all of the responsibilities that are involved at the position for either junior or senior high school. Spring.

**PE 430**  
**SPORTS AND SOCIETY**

Full Course

Interrelationships of sports with other aspects of culture. Role of sports in American society. Also listed as Sociology 430.

**PE 465**  
**MOTOR LEARNING**

Full Course

Theories and principles of motor activity and motor responses.



**PE 475  
MOTOR DEVELOPMENT**

Full Course

Human motor development during childhood and adolescence, as related to other aspects of growth. Physiological development related to visual, tactile, auditory, kinesthetic senses.

**PE 498  
SENIOR SEMINAR**

Half Course

Integration of theory courses into the entire field of physical education as well as into the Christian liberal arts tradition.

**RECREATION COURSES****RC 230  
RECREATION IN  
CONTEMPORARY  
SOCIETY**

Full Course

Place of recreation in today's society. History and scope of the recreation movement. Agencies involved in providing leisure services. Issues and problems.

**RC 232  
DEVELOPMENTALLY  
DISABLING CONDITIONS**

Half Course

Etiology and characteristics of developmental disabilities.

**RC 234  
UNDERSTANDING THE  
DEVELOPMENTALLY  
DISABLED**

Half Course

Exploration of problems faced by the developmentally disabled.

**RC 315  
COMMUNITY RECREATION**

Full Course

Survey of recreation programs of private, voluntary, public agencies as they operate in the community setting.

**RC 335  
LEADERSHIP IN  
PROGRAMS FOR THE  
DEVELOPMENTALLY  
DISABLED**

Full Course

**RC 338  
LEISURE AND AGING**

Half Course

Exploration of the process and problems of aging and the role of leisure in the lives of the elderly.

**RC 354  
FIELD WORK IN  
RECREATION**

Full Course

Supervised field work experience.

**RC 355  
RECREATION  
LEADERSHIP**

Full Course

Methods and materials used in programs of recreation for all age groups in church, school, community settings.

**RC 356  
CAMP LEADERSHIP**

Full Course

Practical and theoretical aspects of leadership in camp situations. Counseling and directing camp programs.

**RC 418  
ADMINISTRATION OF  
RECREATION**

Full Course

Principles and practices in recreation administration. Program and facility planning, budget, personnel.

**HEALTH EDUCATION/  
HEALTH PROMOTION  
COURSES****HB 319,321,323,324,326,330  
SEMINARS IN HEALTH  
EDUCATION/HEALTH  
PROMOTION**

Quarter Courses

Exploration of market opportunities, trends, issues and competencies needed for effective health education and promotion in patient, corporate, geriatric sectors and in fitness and public health areas. May be repeated for credit.

**HB 410  
EDUCATIONAL  
FOUNDATIONS IN HEALTH  
PROMOTION**

Full Course

Theories and principles of learning and communication. Focus on cognitive, effective and psychomotor domains. Andragogy and effective health education diagnosis, intervention and communication.

**HB 417  
PUBLIC, COMMUNITY AND  
CONSUMER HEALTH**

Full Course

Overview of relationships between the health of consumers and the use of products and services; current public health programs and issues; consumer protection laws and organizations; health insurance considerations.

**HB 424.2—HB 424.8  
SPECIAL TOPICS IN  
HEALTH EDUCATION/  
HEALTH PROMOTION**

Half Courses

Surveys of contemporary societal issues relating to sexuality, drugs, adolescence, lifestyles, aging,

nutrition, and behavior change.

**HB 456  
CROSS-CULTURAL ISSUES  
IN HEALTH: THE WORLD**

Half Course

Exploration of the diversity of health practices among the world's population, the relationship and effect of beliefs and value systems on health and the effects of holistic health approaches on consumers and health care providers.

**HB 457  
CROSS-CULTURAL ISSUES  
IN HEALTH: THE UNITED  
STATES**

Half Course

Exploration of the diversity of cultures and related health care in a community, the health practices unique to the major American cultures including Black, Native American, Hispanic and Far Eastern oriental.

**HB 477  
PROGRAM DEVELOPMENT  
AND EVALUATION**

Full Course

Principles and methods of program development & evaluation utilizing and practicing theories of measurement and the appropriate selection of health education resources. Prerequisite: HB 410/417/478 or HB 517/522/525. PE 400 or equivalent is preferred.

**HB 478  
HEALTH PROMOTION/  
RISK REDUCTION  
PROGRAMMING**

Full Course

Individual, social and environmental determinants of health, disease and disability. Assessment of risk/wellness. Educational, organizational, administrative aspects of programming in various sites and settings.

**HB 484  
PROGRAM  
ADMINISTRATION  
AND MARKETING**

Full Course

Application of administrative theory in developing, marketing and implementing a health education program in the community. By permission.

# HISTORY/POLITICAL STUDIES

**FACULTY:**

James Hunt (chair), Michael DeGolyer, Robert Lacerte, Kathryn Lee, Arlin Migliazzo, Daniel Sanford, John Yoder (sabbatical leave, 1987-88)

**REQUIREMENTS FOR A HISTORY MAJOR (13 courses)**

HI 131	American History before 1865	1.0
HI 132	American History since 1865	1.0
HI 220	Ancient and Medieval Worlds	1.0
HI 222	The Modern World	1.0
One of the following:		1.0
HI 460	The Nature and Teaching of History	
HI 488	Ideas about History	
Two American History courses:		2.0
HI 320	America in the 19th Century	
HI 351	Economic History of the United States	
HI 357	Recent American History	
HI 363	American Foreign Policy	
HI 375	Early American History	
HI 485	History of the Pacific Northwest	
Two European History courses:		2.0
HI 354	19th Century Europe	
HI 355	History of England and the British Empire	
HI 356	Topics in British History	
HI 374	Renaissance and Reformation	
HI 377	The Enlightenment	
HI 424	Contemporary Europe	
HI 464	Ancient History	
One Nonwestern History course:		1.0
HI 245	Cultural History of China and Japan	
HI 246	Contemporary China and East Asia	
HI 325	History of Latin America	
HI 340	Contemporary Africa	

HI 366	History of Soviet Russia	
HI 445	Revolution in History	
Three approved elective courses in History		3.0
One major research paper		

A minimum of two courses in the major must be at the 400 level.  
Internship strongly recommended.

**REQUIREMENTS FOR TEACHING HISTORY WITH AN UNRELATED SECOND TEACHING FIELD (15 courses)**

HI 131	American History before 1865	1.0
HI 132	American History since 1865	1.0
HI 220	Ancient and Medieval Worlds	1.0
HI 222	The Modern World	1.0
HI 460	The Nature and Teaching of History	1.0
PO 102	American Political Establishment	1.0
Two courses in American history (for teaching in Washington, one of these courses must be HI 485)		2.0
One course in European history.		1.0
One course in nonwestern history.		1.0
At least three history courses must be at the upper division level.		
Five courses in an approved second teaching field.		5.0
Note: certification requirements are subject to change therefore, all teaching fields must be approved by the Education department.		

**REQUIREMENTS FOR TEACHING HISTORY WITH A RELATED SECOND TEACHING FIELD (Political Studies, Sociology, Psychology, English, Economics) (13 courses)**

HI 131	American History before 1865	1.0
HI 132	American History since 1865	1.0
HI 220	Ancient and Medieval Worlds	1.0
HI 222	The Modern World	1.0
HI 460	The Nature and Teaching of History	1.0
Three approved upper division courses		3.0
Five courses in an approved related 2nd teaching field.		5.0
Note: certification requirements are subject to change therefore, all teaching fields must be approved by the Education department.		

**REQUIREMENTS FOR A POLITICAL STUDIES MAJOR (13 courses)**

PO 102	American Political Establishment	1.0
PO 151	International Relations	1.0
PO 240	Comparative Politics	1.0
Two courses in American Politics:		2.0
PO 221	The American Presidency	
PO 242	American Political Parties	
PO 275	Cities and States in American Politics	
PO 363	American Foreign Policy	
PO 365	American Constitution	
PO 371	Public Policy and Administration	
PO 385	American Political History	
Two courses on Political Theory:		2.0
PO 323	Marxism and the Socialist World	
PO 433	European Political Thought	
PO 434	American Political Thought	
Three of the following courses:		3.0
PO 246	Contemporary China and East Asia	
PO 274	Government and Politics of Canada	
PO 340	Contemporary Africa	
PO 424	Twentieth Century Europe	
PO 445	Revolution in History	
Three additional approved courses in political studies		3.0
One major research paper.		
At least two courses in the major must be at the 400 level.		
Internship strongly recommended.		

**REQUIREMENTS FOR A MAJOR IN INTERNATIONAL STUDIES**

**(16 courses)**

PO 151	International Relations	1.0
PO 240	Comparative Politics	1.0
PO 323	Marxism and the Socialist World	1.0
PO 363	American Foreign Policy	1.0
PO 425	The Third World: Political Change	1.0
PO 498	Senior Seminar: International Relations	1.0
HI 222	Modern World	1.0
EC 201	Principles of Macroeconomics	1.0
Two credits of Modern Language		2.0

(at the intermediate level in Chinese, Russian, Japanese, or Korean; or at the advanced (300+) level in German, French, or Spanish)

One course in American Politics	1.0
PO 102 American Government	
PO 221 American Presidency	

One other-culture study involving foreign travel	1.0
Three courses in Regional Studies:	3.0

(two course sequence recommended)

HI 245	Cultural History of China and Japan
HI 246*	Contemporary China and East Asia

HI 354	Nineteenth Century Europe
HI 424	Contemporary Europe

HI 325	History of Latin America
SO 327	Contemporary Latin America

HI 340*	Contemporary Africa
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HI 365	Imperial Russia
HI 366	History of Modern Russia and the Soviet Union

SO 238	Sociology of the Middle East
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One additional course from the following or one course approved by the advisor: 1.0

HI 220	History of Ancient and Medieval Worlds
PO 258	Global Issues
PO 353	World Order Studies
HI 445	Revolution in History

\*-courses also listed under Political Studies (PO)

**HISTORY MINOR (6 or 7 courses)**

HI 131	American History before 1865	1.0
HI 132	American History since 1865	1.0
HI 220	Ancient and Medieval Worlds	1.0
HI 222	The Modern World	1.0
Two upper division History courses:		2.0

Education majors add the following:

HI 460	The Nature and Teaching of History
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**POLITICAL STUDIES MINOR (6 courses)**

PO 102	American Political Establishment	1.0
PO 151	International Relations	1.0
One course in American politics		1.0
One course in international politics		1.0
Two approved upper division courses		2.0

**PRELAW PROGRAM**

Students interested in preparing for law school are encouraged to select a broad range of courses within the heart of a liberal arts program. Any liberal major may be selected, but it is highly desirable that students select majors which would emphasize writing skills, logical and critical thinking, close reading of difficult material, and oral communication of ideas and arguments. Course selection should be worked out in consultation with the prelaw adviser, Dr. Kathryn Lee, of the History/Political Studies Department.

Majors which may be most relevant to preparation for law school include: His-

tory, Political Studies, Literature, Philosophy, Accounting, Social Sciences (Communication Studies, Sociology and Psychology), Mathematics and Sciences as long as the selection of major courses and electives is broadly designed and oriented towards rigorous training in thinking, writing, reading, and verbal communication.

Normally, law schools utilize the Law School Aptitude Test, together with an accomplished undergraduate record of academic achievement (g.p.a.), faculty references, and evidence of leadership potential or internship experience as a basis for making admissions decisions.

**HISTORY COURSES**

**HI 131  
AMERICAN HISTORY  
BEFORE 1865**

Full Course  
Discovery and settlement of North America; Puritans and Cavaliers; Enlightenment and the American Revolution; early Democracy and reform movements; Western expansion and slavery; the sectional crisis and causes and results of the Civil War. Course taught with a biographical focus. Fall.

**HI 132  
AMERICAN HISTORY  
SINCE 1865**

Full Course  
Recovery from the Civil War, development of twentieth century life, America's role in the community of nations. Spring.

**HI 220  
ANCIENT AND MEDIEVAL  
WORLDS**

Full Course  
The human story in history and literature, with emphasis on world civilizations of Ancient Near East, Greeks, Romans, India, China and Medieval Europe to 1500 A.D. Fall, Spring.

**HI 222  
THE MODERN WORLD**

Full Course  
Study of change and continuity in history, focusing on the impact of the social, political, religious, and economic forces which have

shaped our modern world over the past 500 years. Fall, Spring.

**HI 226  
THE FAMILY IN HISTORY**

Full Course  
Changing patterns in family relationships from the ancient world to the present. Examination of sex roles, courting, marriage, childhood, and adolescence in various world cultures. Special focus on the American sense of family.

**HI 228  
AMERICAN MINORITY  
HERITAGE**

Full Course  
History and culture of major ethnic and racial groups in American life. Special emphasis on the role of race and nationality in the pursuit and achievement of "the American Dream."

**HI 235  
PORTRAITS OF AMERICA**

Full Course  
The role individuals play in American History, 1630-1980's. Exploration of values, lifestyles, cultural impacts of persons on society. John Winthrop, Jane Addams, Walt Disney, Frank Lloyd Wright, Richard Nixon, many others. Alternate January Terms.

**HI 245  
CULTURAL HISTORY OF  
CHINA AND JAPAN**

Full Course  
Illustrates how cultural heritage can explain the current behavior

and character of the Chinese and Japanese. Religions, philosophies, arts, politics, and social organization as basic elements of Asian culture. Also listed as Political Studies 245.

**HI 246**  
**CONTEMPORARY CHINA AND EAST ASIA**

Full Course

Interpretation of recent events in China, Japan, Taiwan and Korea. Chinese revolution of 1911, warlord era in China, Japanese militarism, Communist revolution on the mainland, Japanese invasion of China, American occupation of Japan. Also listed as Political Studies 246.

**HI 297**  
**NONVIOLENT DEFENSE AND CONFLICT RESOLUTION**

Full Course

Major themes in the history and politics of nonviolence. Just War theory, nuclear pacifism, non-violent alternatives to military force. Ideas of Jesus, Gandhi, Niebuhr, M.L. King Jr., Gene Sharp, Mulford, Sibley. Also listed as Political Studies 297.

**HI 320**  
**AMERICA IN THE 19TH CENTURY**

Full Course

Social, religious and political reforms of the early 1800's; the far western frontier; the Cotton Kingdom; the Civil War and Reconstruction, industrialization and reform of the "Gilded Age" to the 1890's. Spring.

**HI 323**  
**MARXISM AND THE SOCIALIST WORLD**

Full Course

See Political Studies (PO 323) for

course description.

**HI 325**  
**HISTORY OF LATIN AMERICA**

Full Course

Latin America civilization from its Aztec and Indian heritage to the bloody Mexican revolution. Focus on history of Mexico and historical perspective on contemporary conflicts and evolutionary movements.

**HI 338 CHRISTIANITY AND CULTURE**

Full Course

Cultural attitudes and actions of Christians during critical historical periods. Individual analysis of cultural views. January Term.

**HI 340**  
**CONTEMPORARY AFRICA**

Full Course

Recent colonial and independence history of principal African countries. Traditional setting, cultural change, modern philosophies of political and economic development. Also listed as Political Studies 340.

**HI 351**  
**ECONOMIC HISTORY OF THE UNITED STATES**

Full Course

See Economics (EC 351) for course description.

**HI 354**  
**19TH CENTURY EUROPE**

Full Course

Study of the rise of the modern ideologies of Liberalism, Conservatism, Socialism, Nationalism within the context of social, political, economic and industrial change. Focus on individuals and forces, expressions in literature, art, and religion. Alternate Spring terms.

**HI 355**  
**HISTORY OF ENGLAND AND THE BRITISH EMPIRE**

Full Course

Historical development from prehistoric beginnings to present times. Emphasis on political and legal evolution, religious, intellectual, literary, economic, social heritage which has helped shape American life and culture.

**HI 356**  
**TOPICS IN BRITISH HISTORY**

1.25 Course

Taught every other year as part of Study Tour to England. Fall 1987.

**HI 357**  
**RECENT AMERICAN HISTORY**

Full Course

American life and culture since 1900. Focus on national and international forces which have contributed to the present context of American life. Special emphasis on popular culture and social movements. Fall.

**HI 363**  
**AMERICAN FOREIGN POLICY**

Full Course

Major themes, debates, patterns, precedents of American foreign policy. Also listed as Political Studies 363.

**HI 365**  
**IMPERIAL RUSSIA**

Full Course

Survey of Russian civilization from earliest times to 1855. Evolution of the tsarist state, genesis of East-West conflict, the expansion of the Russian empire. Studies in Russian culture.

**HI 366**  
**MODERN RUSSIA AND THE SOVIET UNION**

Full Course

Challenges to tsarist authority after 1855, rise of revolutionary agitation, adaptation of Marxism to Russian life and culture, history and politics of the Soviet system, transformation of the arts to serve the state, dissident voices, US-USSR relations. Also listed as Political Studies 366.

**HI 374**  
**RENAISSANCE AND REFORMATION**

Full Course

Institutions, individuals, social forces, ideas, patterns of behavior, artistic expressions. Emphasis on the vitality of this period. Alternate Fall terms.

**HI 375**  
**EARLY AMERICAN HISTORY**

Full Course

British North America from the first settlements to the formation of the United States Constitution in 1789. Colonial society, institutions, religion, economy, thought and culture through use of contemporary writings and biography. Fall.

**HI 377**  
**THE ENLIGHTENMENT**

Full Course

The rise of modern patterns of thought as affected by the science, art and literature of 17th and 18th century Europe. Scientific Revolution of Newton to the French Revolution of Napoleon; age of Reason to the reaction of Romanticism. Emphasis on the spirit of inquiry and daring. Alternate Spring terms.

**HI 385  
AMERICAN POLITICAL  
HISTORY**

Full Course  
Development of political parties and issues in the United States. Social, economic, political forces which shaped public movements and the leaders involved. Also listed as Political Studies 385.

**HI 424  
CONTEMPORARY EUROPE**

Full Course  
Forces, individuals, events that have shaped 20th century Europe. Special emphasis on the interaction between Europe and the Nonwestern world. Also listed as Political Studies 424. Spring.

**HI 445  
REVOLUTION IN HISTORY**

Full Course  
Theory and history of revolution in western civilization. The "Great Rebellion" in England and revolutions in America, France, Russia, China. Contemporary revolutionary movements in Latin America, Africa and Asia. Also listed as Political Studies 445.

**HI 460  
THE NATURE AND  
TEACHING OF HISTORY**

Full Course  
Philosophy and method in the teaching of history and the social studies. Determination of interpretation and bias, unit and lesson plan preparation, strategies for teaching social studies, measurement and evaluation. Experience-oriented. Alternate January terms (1988).

**HI 464  
ANCIENT HISTORY**

Full Course  
Dawn of civilization in Sumer

and Egypt to the flowering in Greece and Rome. Development of the western foundations of art, literature, science, politics, religion. Discussion of techniques and challenges of archaeology and historiography of this period. Alternate Fall terms.

**HI 485  
HISTORY OF THE PACIFIC  
NORTHWEST**

Full Course  
The Pacific Northwest as a geographic "culture area" from prehistory to the present. Perspectives of the various peoples who have lived there—Native Americans, Europeans, Canadians, Americans. Modernization and contemporary issues in the Pacific Northwest. Role of the region as a symbol of the pioneering spirit of the West. Alternate Fall terms (1987).

**HI 488  
IDEAS ABOUT HISTORY**

Full Course  
Major ideas and writings of history and their influence on our world view. Historical method, philosophy of history, biography, national bias, use of sources. Thucydides, Machiavelli, Gibbon, Marx, Toynbee.

**HI 499  
SENIOR HONORS THESIS**

Full Course  
Researching and writing of a major undergraduate thesis. By approval. May be repeated for credit to a maximum of two full courses. Also listed as Political Studies 499.

**POLITICAL STUDIES  
COURSES****PO 102  
AMERICAN POLITICAL  
ESTABLISHMENT**

Full Course  
Overview of founding principles, political culture, decision-making processes and institutions of American government.

**PO 151  
INTERNATIONAL  
RELATIONS**

Full Course  
Character and major problems of international life in today's world. Foreign policy behavior of major states, traditional and recent security issues, causes of war and conflicts, impact of independence.

**PO 221  
THE AMERICAN  
PRESIDENCY**

Full Course  
Constitutional development of the office. Executive branch relations with Congress, the bureaucracy, the judiciary, and the media.

**PO 240  
COMPARATIVE POLITICS**

Full Course  
Different governmental styles and political life in selected European and third world governments. Comparisons of public will and behavior, constitutions and human rights, political leadership and governmental performance.

**PO 242  
AMERICAN POLITICAL  
PARTIES**

Full Course  
The role of parties in current American government. Exam-

ination of interest groups, political action committees, campaigning, and voting behavior.

**PO 246  
CONTEMPORARY CHINA  
AND EAST ASIA**

Full Course  
See History (HI 246) for course description.

**PO 257  
ISSUES IN  
FOREIGN AFFAIRS:  
UNITED NATIONS,  
WASHINGTON, D.C.**

Full Course  
January Term study tour.

**PO 258  
GLOBAL ISSUES**

Full Course  
Modules exploring international connections of major physical and social problems in our world, e.g. food, energy, pollution, arms proliferation.

**PO 275  
CITIES AND STATES IN  
AMERICAN POLITICS**

Full Course  
Changing tasks of cities and states in managing our societal future and the extent to which structures and policies are effective. Politics of taxation, environment, consumer protection, transportation, urban planning, education.

**PO 293  
GREAT DECISIONS**

Quarter Course  
Participation in series of lectures and discussions. Written responses to presentations.

**PO 297****NONVIOLENT DEFENSE  
AND CONFLICT  
RESOLUTION**

Full Course

See History (HI 297) for course description.

**PO 323****MARXISM AND THE  
SOCIALIST WORLD**

Full Course

Context and development of Marx's critique of capitalism. Later interpretations and applications of Marx's theories in a variety of revolutions from that of the Soviet Union, China, Vietnam and Nicaragua to current upheavals. Also listed as History 323. Fall.

**PO 340****CONTEMPORARY AFRICA**

Full Course

See History (HI 340) for course description.

**PO 353****WORLD ORDER STUDIES**

Full Course

Progress of people in organizing beyond national borders, prospects for a world community based on world law. Advanced study in international relations.

**PO 363****AMERICAN FOREIGN  
POLICY**

Full Course

See History (HI 363) for course description.

**PO 365****AMERICAN  
CONSTITUTIONAL LAW**

Full Course

Examination of key Supreme Court decisions involving separation of powers, national regulation of the economy, church and state, and equal protection. Pre-

requisite: PO 102.

**PO 366****MODERN RUSSIA AND THE  
SOVIET UNION**

Full Course

See History (HI 366) for course description.

**PO 385****AMERICAN POLITICAL  
HISTORY**

Full Course

See History (HI 385) for course description.

**PO 424****TWENTIETH CENTURY  
EUROPE**

Full Course

See History (HI 424) for course description.

**PO 425****THE THIRD WORLD:  
POLITICAL CHANGE**

Full Course

Models chosen by third world nations to achieve equality in the modern world. Africa, Southeast Asia. Poor-nation problems. Developmental choices, response to world trade, human values in urbanization and technology.

**PO 433****WESTERN POLITICAL  
THOUGHT**

Full Course

Major turning points of Western political thought from Plato to the present. Spectrum from democratic thinkers to totalitarian extremists.

**PO 434****AMERICAN POLITICAL  
THOUGHT**

Full Course

Principal ideas influencing development of American political institutions and policies. Jefferson, Marshall, Lincoln, DuBois, Stanton, and later figures.

**PO 445****REVOLUTION IN HISTORY**

Full Course

See History (HI 445) for course description.

**PO 498****SENIOR SEMINAR**

Half or Full Course

In-depth simulation of problem-solving. Skills for graduate study and/or management positions in international affairs.

**PO 499****SENIOR HONORS THESIS**

Full Course

See History (HI 499) for course description.

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# MATHEMATICS AND COMPUTER SCIENCE

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**FACULTY:**

Rod Hansen (chair, Sabbatical Leave Fall 1987), Deane Arganbright, Howard Gage (Sabbatical Leave Fall 1986), Edward Korntved, Martha Nelson.

**REQUIREMENTS FOR A MATHEMATICS MAJOR****BACHELOR OF ARTS (13 courses)**

MA 110	Calculus I	1.0
MA 111	Calculus II	1.0
MA 210	Calculus III	1.0
MA 330	Linear Algebra	1.0
MA 356	Probability and Statistics	1.0
CS 274	Structured Programming Using PASCAL	1.0

Three of the following upper division courses . . . . . 3.0

MA 314	Introduction to Operations Research
MA 340	Advanced Calculus I
MA 341	Advanced Calculus II
MA 350	Numerical Analysis
MA 360	Number Theory
MA 365	Modern Geometry
MA 430	Graph Theory and Combinatorics
MA 448	Discrete Algebraic Structures
MA 481	Topics Seminar

Four approved courses with a single theme in a related area. . . . . 4.0

**BACHELOR OF SCIENCE (17 courses)**

MA 110	Calculus I	1.0
MA 111	Calculus II	1.0
MA 210	Calculus III	1.0
MA 212	Differential Equations	1.0
MA 330	Linear Algebra	1.0
MA 340	Advanced Calculus I	1.0
MA 341	Advanced Calculus II	1.0

MA 430	Graph Theory and Combinatorics	1.0
CS 274	Structured Program Using PASCAL	1.0
Four of the following upper division courses		
MA 314	Introduction to Operations Research	4.0
MA 350	Numerical Analysis	
MA 360	Number Theory	
MA 365	Modern Geometry	
MA 448	Discrete Algebraic Structures	
MA 481	Topics Seminar	
Four approved courses with a single theme in a related area		

**REQUIREMENTS FOR A COMPUTER SCIENCE MAJOR  
BACHELOR OF ARTS (Business Option) (16 courses)**

MA 356	Probability and Statistics	1.0
CS 175	Elementary Computer Programming	1.0
CS 274	Structured Programming: PASCAL	1.0
CS 373	Data Structures	1.0
CS 374	Files/Data Base Management	1.0
CS 376	Computer Organization: ASSEMBLER	1.0
CS 377	Business Programming: COBOL	1.0
CS 470	Systems Analysis	1.0
BU 230	Basic Accounting I	1.0
BU 231	Basic Accounting II	1.0
BU 332	Cost Accounting	1.0
BU 374	Principles of Management	1.0
BU 376	Operations Management	1.0
EC 201	Macroeconomics	1.0
EC 202	Microeconomics	1.0
One of the following:		
MA 108	Finite Mathematics for Social Science	1.0
MA 110	Calculus I	1.0

**BACHELOR OF SCIENCE (16 courses)**

MA 110	Calculus I	1.0
MA 111	Calculus II	1.0
MA 210	Calculus III	1.0
MA 330	Linear Algebra	1.0
MA 350	Numerical Analysis	1.0
MA 430	Graph Theory/Combinatorics	1.0
CS 175	Elementary Computer Programming	1.0
CS 274	Structured Program: PASCAL	1.0
CS 370	Introduction to Computer Logic	1.0
CS 371	Introduction to Microcomputers	1.0
CS 373	Data Structures	1.0
CS 376	Computer Organization: ASSEMBLER	1.0
CS 378	Scientific Programming: FORTRAN	1.0
PS 151	General Physics I	1.0
PS 153	General Physics II	1.0
PS 273	Electronics	1.0

**REQUIREMENTS FOR A MATHEMATICS MINOR (6 courses)**

MA 110	Calculus I	1.0
MA 111	Calculus II	1.0
MA 210	Calculus III	1.0
MA 330	Linear Algebra	1.0
MA 356	Probability and Statistics	1.0
One of the following:		
CS 175	Elementary Computer Programming	1.0
CS 274	Structured Programming: PASCAL	1.0

**REQUIREMENTS FOR MATHEMATICS AS A SECOND  
TEACHING FIELD  
(7 courses)**

MA 110	Calculus I	1.0
MA 111	Calculus II	1.0

MA 330	Linear Algebra	1.0
MA 356	Probability and Statistics	1.0
MA 421	Math Teaching: Secondary	1.0
One of the following:		
CS 175	Elementary Computer Programming	1.0
CS 274	Structured Programming: PASCAL	1.0
One additional approved course		
<b>REQUIREMENTS FOR A COMPUTER SCIENCE MINOR (5 courses)</b>		
MA 110	Calculus I	1.0
MA 356	Probability and Statistics	1.0
CS 274	Structured Programming: PASCAL	1.0
CS 373	Data Structures	1.0
CS 376	Computer Organization: ASSEMBLER	1.0

**MATHEMATICS COURSES**

**MA 064  
ARITHMETIC REVIEW**

Half Course  
Self-paced tutorial course for students needing to learn (or relearn) the arithmetic skills necessary for other coursework. Whole numbers, integers, fractions, decimals, percents, ratios, proportions, exponents. Credit not applicable toward total credit graduation requirements.

**MA 094  
INTRODUCTION TO  
ALGEBRA**

Half Course  
Self-paced tutorial course for students needing to learn (or relearn) to algebraic skills necessary for other coursework. Linear equations, polynomials, factoring, quadratic equations, rational expressions, graphing.

**MA 101  
INTERMEDIATE ALGEBRA**

Full Course  
For those desiring more preparation for MA 108 or MA 109. Sets, relations, functions, fundamental algebraic operations, factoring, fractions, exponents and radicals. Does not apply toward the Math/Science general requirement. Fall.

**MA 107  
BASIC CONCEPTS IN  
MODERN MATHEMATICS**

Full Course  
Mathematics for the liberal arts students. Topics include mathematical patterns and reasoning, computing, probability, financial mathematics, informal geometry, and the nature of numbers.

**MA 108  
FINITE MATHEMATICS  
FOR SOCIAL SCIENCES**

Full Course  
A study of systems of linear equations, matrices and linear programming with emphasis on applications to business, economics and social sciences. Fall and Spring.

**MA 109  
ALGEBRA AND  
TRIGONOMETRY**

Full Course  
Polynomial, rational, exponential, logarithmic and trigonometric functions. A preparation for Calculus I. Prerequisite: MA 101 or equivalent. Fall and Spring.

**MA 110  
CALCULUS I**

Full Course  
Functions, limits, continuity, differentiation, introductory integration for functions of a single

variable. Prerequisite: MA 109. Fall and Spring.

**MA 111  
CALCULUS II**  
Full Course

A continuation of topics in MA 110. Integration, applications of integration, and transcendental functions. Prerequisite: MA 110. Fall and Spring.

**MA 112  
CALCULUS FOR SOCIAL  
SCIENCES**  
Full Course

A study of limits, continuity, derivatives, integrals and partial derivatives with emphasis on applications to business, economics and social sciences. Spring.

**MA 210  
CALCULUS III**  
Full Course

Infinite series and multivariable calculus, including partial differentiation, vector analysis, multiple integrals. Prerequisite: MA 111. Fall.

**MA 212  
DIFFERENTIAL  
EQUATIONS**  
Full Course

Introduction to ordinary differential equations, their use in mathematical models in the physical, biological, social sciences, and economics. Continuous and numerical solutions. Prerequisite: MA 210 and CS 175 or permission. Alternate Spring terms (1987).

**MA 221  
THEORY OF ARITHMETIC**  
Full Course

For the prospective elementary teacher. Development of number systems, vocabulary and symbolism, present-day usage in arithmetic, algebra and geometry. Does not apply toward the

Math/Science general requirement for graduation except for candidates for elementary teaching certificates. Fall, Spring.

**MA 314  
INTRODUCTION TO  
OPERATIONS RESEARCH**  
Full Course

Linear programming, allocation and transportation problems, network models, scheduling/inventory models, Markov processes, queuing. Prerequisite: MA 111, CS 175, also MA 356 recommended. Alternate January terms (1987).

**MA 330  
LINEAR ALGEBRA**  
Full Course

Vector spaces, linear transformations, matrices, determinants, Euclidean spaces, systems of equations, eigenvalues. Prerequisite: MA 111, CS 175. Fall.

**MA 340, 341  
ADVANCED CALCULUS I,II**  
Full Courses

The real number system, elements of point set theory, sequences and series, differentiation, integration, partial differentiation, multiple integrals. Prerequisite: MA 210. Alternate years (1986-87).

**MA 350  
NUMERICAL ANALYSIS**  
Full Course

Elementary discussion of errors, polynomial interpolation, quadrature, linear systems of equations, solutions of non-linear equations. Numerical differentiation, integration, solutions to differential equations. Prerequisite: MA 210, CS 274. Alternate Spring terms (1988).

**MA 356  
ELEMENTARY  
PROBABILITY AND  
STATISTICS**  
Full Course

Descriptive statistics, probability, probability distributions, hypothesis testing, confidence intervals, correlation, regression. Prerequisite: MA 101. Fall and Spring.

**MA 360  
NUMBER THEORY**  
Full Course

Divisibility, congruence, prime numbers, diophantine equations, quadratic reciprocity, number theoretic functions. Emphasis on mathematics education and computing applications. Prerequisite: MA 111, CS 175. Alternate Fall terms (1986).

**MA 365  
MODERN GEOMETRY**  
Full Course

Sets and propositions, postulational systems, affine geometry, Euclidean and non-Euclidean geometry. Essential for high school mathematics teachers. By permission of department chair. Alternate Spring terms (1987).

**MA 421  
METHODS OF TEACHING  
SECONDARY SCHOOL  
MATHEMATICS**  
Full Course

Elementary applications of mathematics, history of mathematics, recreational mathematics. The development of the mathematics curriculum and available library and other resource materials. Prerequisite: MA 111, CS 175.

**MA 430  
GRAPH THEORY AND  
COMBINATORICS**  
Full Course

Paths and circuits, trees, planarity and duality, coloring of

graphs, permutations and combinations, multinomial theorem, generating functions, difference equations, principle of inclusion and exclusion, mobius function, Polya's theorem. Prerequisite: MA 210, CS 175. Alternate January terms (1988).

**MA 448  
DISCRETE ALGEBRAIC  
STRUCTURES**  
Full Course

Introduction to sets, logic, groups, rings, fields, lattices, Boolean algebra. Combinatorial and sequential networks, languages and automata, coding theory. Prerequisite: MA 111, CS 175. Alternate Fall terms (1987).

**MA 481  
TOPICS SEMINAR**  
Full Course

Mathematical topics of current interest to the mathematics faculty and advanced students. May be repeated for credit. Consent of Department Chair.

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**COMPUTER SCIENCE  
COURSES**

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**CS 170  
INTRODUCTION TO  
COMPUTER INFORMATION  
SYSTEMS**  
Full Course

Basic concepts of computers and information processing. Current application of computers in business, education, science, and medicine. Impact of computers on issues of privacy, employment, leisure and health care. Problem solving using software tools.



**CS 175  
ELEMENTARY COMPUTER  
PROGRAMMING**

Full Course  
An introduction to problem-solving methods and computer programming through the use of the BASIC language. Prerequisite: MA 108 or 109 or equivalent. Fall and Spring.

**CS 274  
STRUCTURED  
PROGRAMMING USING  
PASCAL**

Full Course  
Introduction to problem-solving and computer programming using the PASCAL language. Special emphasis on development of algorithms and writing programs in a structured form. Prerequisite: CS 175. Fall and Spring.

**CS 370  
INTRODUCTION TO  
COMPUTER LOGIC**

Full Course  
Fundamental principles of the functional organization of digital computers, Boolean algebra, and logical design of combinatorial and sequential circuits. Prerequisite: CS 175 or equivalent. Alternate Fall terms (1987).

**CS 371  
INTRODUCTION TO  
MICROCOMPUTERS**

Full Course  
An introduction to microcomputer architecture including the study of memory, CPU organization, I/O devices, bus structures. Prerequisite: CS 370 or equivalent. Alternate Spring terms (1988).

**CS 373  
DATA STRUCTURES**

Full Course  
An introduction to stacks,

queues, recursion, linked lists, trees, graphs, sorting and searching. Emphasis on algorithm analysis. Prerequisite: CS 274. Alternate Fall terms (1987).

**CS 374  
FILES AND DATA BASE  
MANAGEMENT**

Full Course  
Storage media and devices, fundamental file structures and processing, file management systems, data base management systems. Prerequisite: CS 274. Alternate Fall terms (1986).

**CS 376  
COMPUTER  
ORGANIZATION AND  
ASSEMBLER  
PROGRAMMING**

Full Course  
Computer organization and the structure of digital computers. Work in MACRO-II assembler language programming on a PDP-11 computer. Prerequisite: CS 274. Alternate Spring terms (1987).

**CS 377  
BUSINESS PROGRAMMING  
USING COBOL**

Full Course  
Basic principles of business data processing and programming using the COBOL language. Prerequisite: CS 274, Business 230, 231. Alternate January terms (1987).

**CS 378  
SCIENTIFIC  
PROGRAMMING USING  
FORTRAN**

Full Course  
Development of numerical solutions to scientific problems using the FORTRAN language. Prerequisite: MA 110, CS 274. Alternate January terms (1988).

**CS 470  
SYSTEMS ANALYSIS**

Full Course  
Methods of developing and improving business systems. Topics include fact-finding techniques, designing forms and files, documentation, proving and communicating system designs. Study of manual vs. computerized systems. Prerequisite: CS 274, Business 230, 231. Alternate Spring terms (1988).

# MODERN LANGUAGES

**FACULTY:**

Edward Miller (chair), Pierrette Gustafson (Sabbatical Leave Spring 1987), Karl-Heinz Evers, Faculty of the Intercollegiate Language Study Consortium

**INTERCOLLEGIATE LANGUAGE STUDY CONSORTIUM**

This cooperative agreement between Spokane colleges allows junior/senior level courses in French, German, and Spanish, and freshman/sophomore level courses in Chinese, Japanese, Korean, and Russian to be taught to students at Whitworth, Gonzaga University, and Eastern Washington University by faculty of these schools on a rotating basis, thus substantially increasing the course offerings of each school.

**REQUIREMENTS FOR A MAJOR IN FRENCH  
(9 courses beyond the elementary level)**

FR 201	Intermediate French I	1.0
FR 202	Intermediate French II	1.0
FR 307	French Conversation, Composition, Grammar	1.0
FR 308	French Conversation, Composition, Grammar	1.0
FR 330	Everyday French	1.0

Four approved French courses, including at least three taken at: 1) a French or French Canadian university, or 2) courses taken through the Intercollegiate Language Studies Consortium taught by other than Professor Gustafson . . . . . 4.0

Note: for a teaching major in French, add the following:

EL 453	Introduction to Linguistics	1.0
ML 442	Methods for Secondary Language Teachers	1.0

**REQUIREMENTS FOR A MAJOR IN SPANISH  
(9 courses beyond the elementary level)**

SN 201	Intermediate Spanish I	1.0
SN 202	Intermediate Spanish II	1.0
SN 307	Spanish Conversation, Composition, Grammar	1.0
SN 308	Spanish Conversation, Composition, Grammar	1.0
SN 330	Everyday Spanish	1.0

Four approved Spanish courses, including at least three taken at: 1) a Spanish university in Spain or Latin America, or 2) courses taken through the Intercollegiate Language Studies Consortium taught by other than Professor Miller. . . . . 4.0

**REQUIREMENTS FOR A MINOR IN FRENCH, GERMAN, OR SPANISH (5 courses)**

Five approved courses beyond the elementary level. . . . . 5.0

**REQUIREMENTS FOR AREAS OF CONCENTRATION:**

**Cross Cultural Studies (17 courses)**

An eight-course sequence in French, German, or Spanish including the following:

201	Intermediate I	1.0
202	Intermediate II	1.0
307	Conversation, Composition, Grammar I	1.0
308	Conversation, Composition, Grammar II	1.0

Four approved courses, including at least three taken: 1) in foreign study, or 2) at the Intercollegiate Language Study Consortium from other than Whitworth faculty. . . . . 4.0

Three of the following: . . . . . 3.0

FA 101	Introduction to the Fine Arts
EL 125	Reading Literature
EL 233	Literature of the Western World
EL 234	European Literature
EL 251	Modern World Literature
EL 320	Mythology
EL 453	Introduction to Linguistics

Four of the following: . . . . . 4.0

HI 222	Modern World
HI 245	Cultural History of China and Japan
HI 325	History of Latin America
HI 374	Renaissance and Reformation
HI 377	The Enlightenment
HI 424	Contemporary Europe
HI 455	Contemporary China and East Asia
PO 455	Contemporary China and East Asia
PO 151	International Relations
SO 251	Cultural Anthropology

Two of the following: . . . . . 2.0

JR 347	History of Communications
SO 227	Contemporary Latin American Problems
SO 327	Contemporary Latin American Problems
SP 113	Interpersonal Communications

**International Business Communication (19 courses)**

Four languages courses beyond the elementary . . . . . 4.0  
(or total of four courses in non-traditional language)

JR 125	Writing for Mass Media	1.0
SP 113	Interpersonal Communication	1.0
SP 210	Introduction to Public Speaking	1.0
BU 230	Basic Accounting I	1.0
BU 231	Basic Accounting II	1.0
BU 318	Marketing	1.0
BU 374	Principles of Management	1.0
EC 201	Principles of Macroeconomics	1.0
PO 151	International Relations	1.0

One of the following: . . . . . 1.0

JR 236	Broadcast Production
JR 242	Editing

Two of the following: . . . . . 2.0

(one must be an approved upper division course in Journalism or Speech Communication)	
BU 325	Organizational Behavior
BU 357	Financial Management
BU 363	Small Business Management
BU 376	Operations Management

EC 202	Principles of Microeconomics
JR 215	Mass Communication and Society
JR 362	Article and Feature Writing
JR 485	Advanced Journalism
SP 223	Small Group Communication
SP 322	Advanced Public Speaking
SP 412	Communication and Language

400-level language courses (through language consortium)

One approved History/Political Studies course related to the language . . . . . 1.0  
Recommended: one-month internship in an internationally-oriented business firm.

**MODERN LANGUAGES COURSES**

**ML 121,122**

**ELEMENTARY CHINESE**

Full Courses

First-year studies in the Chinese language, taught through the Intercollegiate Language Study Consortium.

**ML 131,132**

**ELEMENTARY RUSSIAN**

Full Courses

First-year studies in the Russian language, taught through the Intercollegiate Language Study Consortium.

**ML 151,152**

**ELEMENTARY JAPANESE**

Full Courses

First-year studies in the Japanese language, taught through the Intercollegiate Language Study Consortium.

**ML 161,162**

**ELEMENTARY KOREAN**

Full Courses

First-year studies in the Korean language, taught through the Intercollegiate Language Study Consortium.

**ML 442**

**METHODS FOR SECONDARY LANGUAGE TEACHERS**

Full Course

Study and application of various aspects of foreign language teaching. Testing, performance objectives, teaching of culture,

structure and drill, programmed learning.

**FRENCH COURSES**

**FR 101, 102**

**ELEMENTARY FRENCH**

Full Courses

Basic grammar, emphasis on conversation. Some cultural aspects are introduced.

**FR 130/230**

**EVERYDAY FRENCH**

Full Course

No English allowed. Students immerse themselves in the language in a free non-structured situation. Shopping, meals, conversation. Prerequisite: FR 101. Offered every other year, before study tour to France.

Required of beginning language students going on the tour.

**FR 201, 202**

**INTERMEDIATE FRENCH**

Full Courses

Emphasis on spoken language. Reading, writing, grammar. Discussion of current French issues, cultural patterns.

**FR 230—see FR 130**

**FR 307, 308**

**FRENCH CONVERSATION, COMPOSITION AND ADVANCED GRAMMAR**

Full Courses

French customs, mannerisms, points of view, colloquialisms. French cultural background. Ease in conversation, reading, writing.

**FR 330  
EVERYDAY FRENCH**

Full Course  
No English allowed. Intensive conversation, non-structured situation. Prerequisite: FR 201.

**FR 401  
MODERN FRENCH NOVEL**

Full Course  
Gide, Camus, Sartre as representatives of this century's French novelists.

**FR 402  
MODERN FRENCH DRAMA**

Full Course  
Cocteau, Anouilh, Ionesco, others exemplifying French theater of this century.

**FR 409, 410  
SURVEY OF FRENCH  
LITERATURE**

Full Courses  
Study of development of French thought, culture through literature from the Middle Ages to the present. FR 410 concentrates on the 19th and 20th centuries.

**GERMAN COURSES**

**GR 101, 102  
ELEMENTARY GERMAN**

Full Courses  
Fundamentals of pronunciation, reading. Basic grammar. Introduction to cultural aspects.

**GR 201, 202  
INTERMEDIATE GERMAN**

Full Courses  
Grammar review as framework for conversation, composition. Current interest topics, cultural attitudes.

**GR 307, 308  
GERMAN CONVERSATION,  
COMPOSITION AND  
ADVANCED GRAMMAR**

Full Courses  
Short literary works, topical issues as springboard for composition, discussion.

**GR 409, 410  
SURVEY OF GERMAN  
LITERATURE**

Full Courses  
Study of development of German thought, culture through literature from the Middle Ages to the present. GE 410 concentrates on the 19th and 20th centuries.

**SPANISH COURSES**

**SN 101, 102  
ELEMENTARY SPANISH**

Full Courses  
Basic structure and sound system, with emphasis on conversation. Contact with Spanish and Latin American cultures.

**SN 201, 202  
INTERMEDIATE SPANISH**

Full Courses  
Detailed review of grammar, pattern structures, idioms. Discussion of Hispanic cultures, conversation, some composition.

**SN 307, 308  
SPANISH CONVERSATION,  
COMPOSITION AND  
ADVANCED GRAMMAR**

Full Courses  
Readings, composition, discussion of contemporary Spanish literary works and grammar review.

**SN 330  
EVERYDAY SPANISH**

Full Course  
No English allowed. Students immerse themselves in the lan-

guage in a free, non-structured situation. Meals, guests, conversation.

**SN 409, 410  
SURVEY OF SPANISH  
LITERATURE**

Full Courses  
Study of the development of Spanish thought, culture by evaluation of representative literary works.

**MUSIC**

**FACULTY:**

Richard Evans (chair), Randi Ellefson, Shirley Richner, George Ross, Thomas Tavener, Michael Young (Sabbatical Leave 1987-88), Debbie Ellefson

Ensembles and Private Lessons: Sylvia Baker (saxophone), Norman Bellas (jazz improvisation), Bryan Bogue (percussion), Gale Coffee (flute), Helen de la Fuente (violin), Randi Ellefson (choirs, voice), Richard Evans (band), Ann Fennessy (voice), John Fritz (clarinet), Larry Jess (trumpet), Maurine Kalk (voice), Roger Logan (French horn), David Mintz (guitar), Barbara Novak (bassoon), Andy Owens (trombone), Greta Rizzuti (Orff method), George Ross (piano), Linda Siverts (piano), Wayne Smith (orchestra, string methods), Thomas Tavener (voice), Michael Young (organ, composition).

**REQUIREMENTS FOR A MUSIC MAJOR (minimum of 13.5 courses)**

MU 110	Music Theory I	1.0
MU 111	Ear Training I	.25
MU 112	Music Theory II	1.0
MU 113	Ear Training II	.25
MU 201	Introduction to Music Literature	1.0
MU 210	Music Theory III	1.0
MU 211	Ear Training III	.25
MU 212	Music Theory IV	1.0
MU 213	Ear Training IV	.25
MU 225	General Conducting	0.5
MU 301	Music History I	1.0
MU 302	Music History II	1.0
MU 383	Junior Recital	0-25
	Six terms of Private Lessons	1.5
	Eight terms of Ensembles	2.0
	1.5 full courses of approved Music courses	1.5

In addition to the requirements listed above, students may elect the following areas of emphasis:

**EMPHASIS AREAS IN MUSIC****Piano Performance (15 courses)**

Music Major requirements, less 1.5 FC of approved Music courses	12.0
MU 310 Form and Analysis	0.5
MU 330 Piano Techniques	0.5
Four terms of extra piano lesson credit	1.0
Chamber music ensemble involving piano	0.5
Supervised accompanying	0.5
Junior and Senior recitals (credit is contained in extra lessons)	

**Voice Performance (15 courses)**

Music Major requirements, less 1.5 FC of approved Music courses	12.0
One Full Course of credit from the following:	1.0
TA 145 Theatre Production	
TA 231 Oral Interpretation	
TA 273 Acting	
Four terms of extra voice lesson credit	1.0
One Full Course of credit from the following:	1.0
Vocal Literature, Opera History, Phonetics/Diction for the Singer, Accompanying	
Junior and Senior recital (credit is contained in extra lessons)	

**Church Music (15 courses)**

Music Major requirements	13.5
MU 405 History of Liturgy and Church Music	0.5
MU 407 Church Music History, Literature, Methods	0.5
Approved Internship (supervised work in a church as either a choir director or an organist)	0.5

**Composition (15 courses)**

Music Major requirements, less 1.5 FC of approved Music courses	12.0
MU 410 Counterpoint	0.5
MU 432 Orchestration	1.0
Composition lessons at 300 and 400 levels	1.0
One of the following half courses:	0.5
MU 220 Beginning Composition	
MU 230 Woodwind Techniques	
MU 231 Brass Techniques	
MU 310 Form and Analysis	
MU 331 String Techniques	
MU 332 Percussion Techniques	
MU 427 Advanced Conducting	
MU 443 Choral Techniques	

Full Recital of original compositions, in the Senior Year

Optional Half Recital in the Junior Year

**Other Emphasis Areas**

By arrangement with Music faculty advisor.

**REQUIREMENTS FOR A MUSIC EDUCATION MAJOR****(Minimum of 18.5 courses)**

All tracks require the following core courses:

MU 110 Music Theory I	1.0
MU 111 Ear Training I	.25
MU 112 Music Theory II	1.0
MU 113 Ear Training II	.25
MU 201 Introduction to Music Literature	1.0
MU 210 Music Theory III	1.0
MU 211 Ear Training III	.25
MU 212 Music Theory IV	1.0
MU 213 Ear Training IV	.25
MU 225 General Conducting	.50
MU 301 Music History I	1.0
MU 302 Music History II	1.0
MU 310 Form and Analysis	0.5
MU 427 Advanced Conducting	0.5
MU 432 Orchestration	1.0

Six terms of private or class lessons	1.5
Seven terms of ensembles	1.75

Recital Performance Proficiency

Keyboard Proficiency

**Elementary Track**

Required Core Courses	13.75
MU 440 Music Methods in the Elementary School	0.5
MU 443 Choral Techniques/Materials	0.5
2.75 Full Courses of Approved Courses	2.75
Two of the following:	1.0

    MU 230 Woodwind Techniques

    MU 231 Brass Techniques

    MU 331 String Techniques

    MU 332 Percussion Techniques

Guitar and Piano study recommended

**Secondary-Vocal Track**

Required Core Courses	13.75
MU 442 Secondary Music Methods	0.5
MU 443 Choral Techniques and Materials	0.5
2.25 Full Courses of approved coursework	2.25
Three of the following:	1.5

    MU 230 Woodwind Techniques

    MU 231 Brass Techniques

    MU 331 String Techniques

    MU 332 Percussion Techniques

Piano study is recommended

**Secondary-Instrumental Track**

Required Core Courses	13.75
MU 230 Woodwind Techniques	0.5
MU 231 Brass Techniques	0.5
MU 331 String Techniques	0.5
MU 332 Percussion Techniques	0.5
MU 442 Secondary Music Methods	0.5
MU 444 Instrumental Methods and Materials	0.5
1.75 Full Courses of approved coursework	1.75

Lessons on a second instrument or a second ensemble are recommended

**K-12 Track**

Required Core Courses	13.75
MU 230 Woodwind Techniques	0.5
MU 231 Brass Techniques	0.5
MU 331 String Techniques	0.5
MU 332 Percussion Techniques	0.5
MU 440 Music Methods: Elementary	0.5
MU 442 Secondary Music Methods	0.5
MU 443 Choral Techniques/Materials	0.5
MU 444 Instrumental Methods/Materials	0.5
0.75 Full Courses of approved coursework	0.75

**All Tracks**

There are professional Education courses that must be taken from the Education Department. Refer to the Education Department section in this catalog.

**NOTE TO ALL MUSIC, MUSIC EDUCATION MAJORS**

A great deal of additional information about the Music Program is listed in the publication "Student Guide to a Music Major" which is available on request or can be obtained when you get on campus.

**REQUIREMENTS FOR AREA OF CONCENTRATION****Arts Administration**

See Art for description of this area of concentration.

**FINE ARTS COURSE****FA 101  
INTRODUCTION TO THE  
FINE ARTS**

Full Course  
Integrates the disciplines of Art, Music, Theater and Dance into an examination of the fine arts experience. Elements, media, expressiveness.

**MUSIC COURSES****MU 110  
MUSIC THEORY I**

Full Course  
Notation, scale structure, voice leading, simple harmonic progressions. Work at the keyboard is included. Fall.

**MU 111, 113, 211, 213  
EAR TRAINING I, II, III, IV**

Quarter Courses  
Ear training, sight singing. Taken concurrently with corresponding Music Theory course.

**MU 112  
MUSIC THEORY II**

Full Course  
Seventh chords, inversions, non-harmonic tones, modulations, altered chords, complex chord progressions. Work at the keyboard is included. Prerequisite: MU 110. Spring.

**MU 113—See MU 111.****MU 201  
INTRODUCTION TO MUSIC  
LITERATURE**

Full Course  
Major developments within each of the major stylistic periods from the Middle Ages to the present. Composers and their works, terminology and forms, concepts, research and resources. Spring.

**MU 210  
MUSIC THEORY III**

Full Course  
Continuation of topics in MU 112. Prerequisite: MU 112. Fall.

**MU 211—See MU 111.****MU 212  
MUSIC THEORY IV**

Full Course  
An introduction to contemporary harmonic idioms. Prerequisite: MU 210. Spring.

**MU 213—See MU 111.****MU 220  
BEGINNING COMPOSITION**

Half Course  
Study of musical works with regard to relevant compositional points. Exploration of music writing for specific combinations of instruments and/or voices. Prerequisite: MU 112 or permission.

**MU 225  
GENERAL CONDUCTING**

Half Course  
Basic techniques including baton use, utilization of left hand for expressive purposes. Prerequisite: MU 112. Fall.

**MU 230  
WOODWIND TECHNIQUES**

Half Course  
Techniques, materials, concepts, application of scoring. Alternate years, Fall 1987.

**MU 231  
BRASS TECHNIQUES**

Half Course  
Techniques, materials, concepts, application of scoring. Alternate years, Spring 1988.

**MU 300  
DOMAIN OF THE ARTS**

Full Course  
Exploration of drama, poetry, dance, music, art, film on location in San Francisco. The arts in

relation to society, values, faith. January.

**MU 301  
MUSIC HISTORY I**

Full Course  
Musical styles, forms, composers from ancient through the Baroque. Lectures, reading, score analysis, coordinated listening. Prerequisite: MU 112. Fall.

**MU 302  
MUSIC HISTORY II**

Full Course  
Continuation of topics in MU 301, covering the Classical period to the present. Spring.

**MU 307  
HISTORY OF JAZZ**

Full Course  
Comprehensive review of the cultural settings from which jazz emerged. Major jazz styles, composer/performers, and recordings.

**MU 310  
FORM AND ANALYSIS**

Full Course  
Study of selected scores, implication from textural, rhythmic, melodic, harmonic, formal points of view. Student performance included. Prerequisite: MU 212 or permission. Spring.

**MU 330  
PIANO TECHNIQUES**

Half Course  
Techniques, materials, methods, concepts. Alternate years. Fall 1986.

**MU 331  
STRING TECHNIQUES**

Half Course  
Techniques, materials, methods, application of scoring. Alternate Fall terms (1986).

**MU 332  
PERCUSSION TECHNIQUES**

Half Course  
Techniques, materials, methods, application of scoring. Alternate Spring terms (1987).

**MU 340  
ELEMENTARY  
CLASSROOM MUSIC**

Half Course  
Procedures, materials for teaching music in the self-contained elementary classroom. Designed for non-music majors.

**MU 383  
JUNIOR RECITAL**

Variable credit  
Music majors only. Departmental approval required.

**MU 405  
HISTORY OF LITURGY AND  
CHURCH MUSIC**

Half Course  
A survey of worship practices and music in the Christian church from its beginnings to the present day.

**MU 407  
CHURCH MUSIC HISTORY,  
LITERATURE, AND**

**METHODS**  
Half Course  
The role of music in worship traditions of the Christian church; methods for implementation and maintenance of a successful church music program.

**MU 410  
COUNTERPOINT**

Full Course  
In-depth exploration of fugue, invention forms. J.S. Bach, selected contemporary composers as illustrations. Student construction of fugue, invention based on Bach's models.

**MU 427**  
**ADVANCED CONDUCTING**  
 Half Course  
 Advanced techniques of conducting with inclusion of mixed meters. Score study. Prerequisite: MU 301, 302, also MU 225 with a grade of "C" or better.

**MU 432**  
**ORCHESTRATION**  
 Full Course  
 Practical ranges of the instruments of the orchestra, transposing music for any instrument, and transcribing music for full orchestra and band. Score reading, error detection, instrumental balance. Prerequisite: MU 110, 112, 210 and junior standing.

**MU 440**  
**MUSIC METHODS IN THE ELEMENTARY SCHOOL**  
 Half Course  
 Procedures, materials for elementary school music teaching. For music majors, minors who may become elementary music specialists. Teaching, observation of lessons, performance organization.

**MU 442**  
**SECONDARY MUSIC METHODS**  
 Half Course  
 Exploration of all aspects of secondary school music teaching. Includes actual teaching experience.

**MU 443**  
**CHORAL TECHNIQUES AND MATERIALS**  
 Half Course  
 Techniques, problems in choral conducting, rehearsal procedure. Choral literature. Spring.

**MU 444**  
**INSTRUMENTAL METHODS AND MATERIALS**  
 Half Course  
 Rehearsal techniques, instrumental literature and materials, marching band techniques, program utilization. Spring.

**MU 483**  
**SENIOR RECITAL**  
 No Credit  
 For music majors with performance emphasis only. Prerequisite: MU 383.

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#### CLASS LESSONS

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Quarter Courses  
 (Class instruction. Limited to eight students per section. Fee in addition to tuition. Fall and Spring.)

**MU 140, 240**  
**BEGINNING, INTERMEDIATE CLASS GUITAR**

**MU 141**  
**CLASS PIANO**

**MU 142**  
**CLASS VOICE**

**MU 143**  
**CLASS JAZZ IMPROVISATION**

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#### PRIVATE LESSONS

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Quarter Course  
 (Available to all Whitworth students. May be repeated for credit at the same level. Fee in addition to tuition. Special policies for January Term lessons.)

**MU 150, 250, 350, 450**  
**PRIVATE ACCORDION**

**MU 151, 251, 351, 451**  
**PRIVATE BANJO**

**MU 152, 252, 352, 452**  
**PRIVATE BRASS**

**MU 153, 253, 353, 453**  
**PRIVATE GUITAR**  
**MU 154, 254, 354, 454**  
**PRIVATE HARPSICHORD**

**MU 155, 255, 355, 455**  
**PRIVATE ORGAN**  
**MU 156, 256, 356, 456**  
**PRIVATE PERCUSSION**

**MU 157, 257, 357, 457**  
**PRIVATE PIANO**  
**MU 158, 258, 358, 458**  
**PRIVATE STRINGS**

**MU 159, 259, 359, 459**  
**PRIVATE VOICE**  
**MU 160, 260, 360, 460**  
**PRIVATE WOODWINDS**

**MU 161, 261, 361, 461**  
**PRIVATE JAZZ IMPROVISATION**  
**MU 162, 262, 362, 462**  
**PRIVATE COMPOSITION**

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#### PERFORMANCE ENSEMBLES

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Quarter Course  
 (Available to all Whitworth students. May be repeated for credit at the same level. Selected January Term offerings.)

**MU 170, 270, 370, 470**  
**CHAMBER ENSEMBLE**  
 By permission. Performance in a small vocal or instrumental ensemble.

**MU 171, 271, 371, 471**  
**CONCERT CHOIR**  
 By audition. Works of all periods, a cappella and accompanied. Annual tour. The Concert Choir is in residence for rehearsal during alternate January terms (1987).

**MU 172, 272, 372, 472**  
**CHAPEL CHOIR**  
 A non-auditioned choir open to the college community. Especially for those who want to learn more about choral singing. Will regularly sing in chapel.

**MU 173, 273, 373, 473**  
**CONCERT BAND**  
 By audition, permission. Primarily original works for band and wind ensemble. Annual tour.

**MU 174, 274, 374, 474**  
**JAZZ ENSEMBLE**  
 By audition. All Jazz styles. Tours with Concert Band.

**MU 175, 275, 375, 475**  
**CHAMBER SINGERS**  
 A select small choral ensemble, the members being chosen from the Concert Choir. By audition.

**MU 176, 276, 376, 476**  
**ORCHESTRA**  
 By audition, permission. Open to students, community. Orchestra reads major symphonic works, presents a concert each long term.

**MU 179, 279, 379, 479**  
**JAZZ CHOIR**  
 By audition.

# NURSING

## Whitworth College Nursing Advisors:

Undergraduate Program leading to the Bachelor of Science in Nursing degree:

Lee Anne Chaney (Whitworth Biology department), Jan Holloway (R.N., M.A.) (ICNE faculty)

Graduate Program leading to the Master of Nursing degree:

Marian Sheafor (R.N., Ph.D.) (ICNE)

## INTERCOLLEGIATE CENTER FOR NURSING EDUCATION (ICNE)

Dean: Thelma Cleveland, R.N., Ph.D.

Associate Dean, Graduate Program: Marian Sheafor, R.N., Ph.D.

Associate Dean, Undergraduate Studies: Pauline Bruno, R.N., D.N.Sc.

48 faculty with advanced degrees in various nursing specialties

The ICNE is a unique consortium program serving Whitworth College, Washington State University, and Eastern Washington University. The faculty, staff and instructional resources of the ICNE are located on an extended campus in Spokane. The Center was established in 1968.

Two programs leading to academic degrees are offered at the Center. The undergraduate nursing major leading to the Bachelor of Science degree in Nursing prepares generalists in professional nursing practice. The Master of Nursing program prepares students for leadership positions in nursing education and nursing administration. The Center also has a Continuing Education program which offers workshops and classes in eastern Washington as well as preparation for School Nurse Certification.

## UNDERGRADUATE PROGRAM

The undergraduate program is accredited by the National League for Nursing and is approved by the Washington State Board of Nursing. Upon successful completion of the baccalaureate program, graduates are eligible to take the state examination for licensure as Registered Nurses.

The nursing major prerequisite courses and general college requirements are offered on the Whitworth College campus. Upon completion of these requirements and achievement of junior standing, formal application for admission into upper division course work at ICNE is required. Admission into Whitworth College and completion of prerequisites does *not* assure admission to the Center.

## CRITERIA FOR ADMISSION TO ICNE

No more than three of the courses prerequisite to the nursing major may remain to be completed at the time applications are reviewed.

First Aid Certification is required prior to entering the ICNE program.

Applicants are judged on the following criteria:

1. Cumulative GPA of 2.50 or higher.
2. Cumulative GPA of 2.50 or higher in prerequisite courses. Each prerequisite course must have at least a C grade.
3. A minimum score of 80% in each of six parts of a basic mathematics examination.
4. Quality of writing and content of response to the question on why the applicant has selected a career in nursing.

For further information on the upper division program at ICNE, contact the Associate Dean for the Undergraduate Program, Intercollegiate Center for Nursing Education, West 2917 Fort George Wright Drive, Spokane, Washington, 99204, or call (509) 458-6108.

## REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREE IN NURSING

### (28 courses)

Completion of Whitworth's General Graduation Requirements (Foreign Language requirement is waived for nursing majors).

Required lower division courses (9.6 courses)

BI 204	Microbiology	1.0
BI 220	Human Anatomy	1.0
BI 221	Human Physiology	1.0
CH 161	Principles of Chemistry	1.0
CH 163	Biorganic Chemistry	1.0
MA 356	Elementary Probability and Statistics	1.0
NF 361	Nutrition	1.0
NU 200	Profession of Nursing	0.6
PY 201	Principles of Psychology	1.0
SO 120	Social Reality	1.0

Required upper division courses (ICNE) (minimum of 17.4 courses)

NU 310	Pharmacological Basis Nursing Practice	0.6
NU 312	Pathophysiological Basis Nursing Prac.	1.0
NU 313	Mental Health Concepts: Individ. & Family	0.6
NU 320	Nursing Concepts: Foundation	1.0
NU 321	Nursing Practice: Foundation	1.2
NU 330	Nursing Conc./Prac.: Health Assessment	1.0
NU 340	Nursing Concepts: Parent/Child	1.6
NU 341	Nursing Practice: Parent/Child	1.8
NU 401	Nursing Leadership: Research	0.6
NU 402	Nursing Leadership: Group Theory & Practice	0.6
NU 403	Nursing Leadership: Critical Issues	1.0
NU 420	Nursing Concepts: Adult	1.2
NU 421	Nursing Practice: Adults	1.8
NU 440	Nursing Concepts: Community Health	0.6
NU 441	Nursing Practice: Community Health	0.8/1.2
NU 450	Nursing Concepts: Psych./Mental Health	0.6
NU 451	Nursing Prac.: Psych./Mental Health	0.8/1.2

One additional approved course\* . . . . . 0.6

A total of 36.0 credits (180 quarter hours).

12.0 upper division courses (60 quarter hours).

Available upper division nursing electives:

NU 307	Assertiveness Training for Nurses	0.6
NU 498	Special Topics in Nursing	variable
NU 499	Special Problems/Independent Study	variable

\*This course can be nursing or non-nursing. Independent study and correspondence courses do not fill this requirement.

## GRADUATE PROGRAM

The Graduate Program in Nursing was established in 1983. The program builds upon an undergraduate baccalaureate degree in nursing and provides a basis for further study at the doctoral level. The purpose is to prepare students for leadership positions in nursing education or nursing administration with a clinical focus on advanced nursing practice.

By inter-institutional agreement, the three sponsoring institutions charge the same tuition and fee rates for students in the ICNE Master of Nursing Program. Supporting non-nursing courses may be taken at any one of the sponsoring institutions.

For further information on graduate work leading to the degree Master of Nursing, contact the Associate Dean for the Graduate Program, Intercollegiate Center for Nursing Education, West 2917 Fort George Wright Drive, Spokane, Washington, 99204, or call (509) 326-7270.

## REQUIREMENTS FOR THE MASTER OF NURSING DEGREE Admission

The following are required for admission into the Master of Nursing program:

1. A bachelor's degree in nursing from an NLN-accredited program.

2. A minimum 3.00 gpa in undergraduate work (exceptions may be made based on substantial evidence of extra scholastic qualifications).
3. Satisfactory scores on the general Graduate Record Examination.
4. History-taking and physical assessment skills.
5. A grade of C or higher in a basic Statistics course.
6. Favorable recommendations regarding practice and potential for graduate work in nursing.
7. Eligibility for licensure to practice nursing in Washington.
8. Goals congruent with the program's philosophy and focus.

#### **Progression, Advancement to Candidacy, Periodic Review, Transfer of Credits, Requirements for Graduation**

For information in these areas, refer to the ICNE publication, "1985-87 Intercollegiate Center for Nursing Education", available at Whitworth through the Registrar's Office, Biology Department, or Nursing Counselor, or at ICNE.

#### **Tuition and Fees**

Full-Time Students (7-18 semester hours, 2.1-5.4 Courses):

Washington Resident, \$1160; Non-Resident, \$2888

Part-Time Students (1-6 semester hours), per semester hour:

Washington Resident, \$116; Non-Resident, \$288

Vietnam Veterans are billed at the following rate:

Full-Time, \$288; Part-Time, \$26 per semester hour.

#### **Course Requirements (15 courses—50 semester hours)**

NU 501	Nursing Theory and Research I (3 s.h.)	0.9
NU 502	Nursing Theory and Research II (3 s.h.)	0.9
NU 507	Professional Issues in Nursing (2)	0.6
NU 508	Strategies of Nursing Leadership (2)	0.6
One of the following: (4)		1.2
NU 513	Nursing Srvc Admin: Theory/Role Analysis	
NU 523	Nursing Education: Theory/Role Analysis	
One of the following: (3)		0.9
NU 514	Personnel Management in Nursing	
NU 521	Teaching/Learning/Evaluation in Nursing	
One of the following: (5)		1.5
NU 516	Practicum in Nursing Service Admin.	
NU 526	Practicum in Nursing Education	
NU 561	Transcultural Nursing (3)	0.9
NU 571	Advanced Nursing Concepts I (3)	0.9
NU 572	Advanced Nursing Concepts II (3)	0.9
NU 574	Advanced Nursing Practice (3)	0.9
NU 600/700	Thesis (4)	1.2
Cognate in Education or Administration (4)		1.2
(Two approved courses in the students area of emphasis)		
Eight semester hours of coursework chosen from: (8)		2.4
NU 503	Theory Development	
NU 524	Multimedia Approaches: Instruction/Education	
NU 598	Special Topics	
NU 599	Independent Study	
Approved graduate-level work in a non-nursing area		

## **NURSING PROGRAM**

### **NU 200 PROFESSION OF NURSING**

0.6 Full Courses  
(3 quarter hours)

Selected theoretical/historical aspects of professional nursing. Development of nursing roles, scopes of practice, problem solv-

ing, and ethical decision making.

### **NU 310 PHARMACOLOGICAL BASIS OF NURSING PRACTICE**

0.6 Full Courses  
(3 quarter hours)

Major drug classes, pharmacokinetics, mechanisms of drug action, toxic effects. Empha-

sis on nursing implications including age, misuse, patient education. Prerequisite: Junior in Nursing or interview with instructor.

### **NU 312 PATHOPHYSIOLOGICAL BASIS OF NURSING PRACTICE**

Full Course (5 quarter hours)  
Pathophysiologic processes, inter-relatedness with physiological defense mechanisms, theories of stress adaptation, age and psychological/behavioral responses. Prerequisite: Junior in Nursing or interview with instructor.

### **NU 313 MENTAL HEALTH CONCEPTS: INDIVIDUAL AND FAMILY**

0.6 Full Courses  
(3 quarter hours)  
Mental health in individual families: anxiety, stress and adaptation; assertiveness, family theory and dynamics; nursing roles/nursing process with families. Prerequisite: Junior in Nursing or interview with instructor.

### **NU 320 NURSING CONCEPTS: FOUNDATIONS**

Full Course (5 quarter hours)  
Nursing concepts foundational to care of well/ill clients. Nursing process, nurse/client roles, communication, relationship, basic needs and teaching/learning theories will be introduced. Prerequisite: Junior in nursing. Nursing 310, 312, 330 concurrent, or interview with instructor.

### **NU 321 NURSING PRACTICE: FOUNDATIONS**

1.2 Full Courses  
(6 quarter hours)  
Clinical application of the nurs-

ing process with emphasis on psychomotor skills and interpersonal relationships in the care of adult clients. Prerequisite: Junior in Nursing, NU 320 or concurrent or interview with instructor.

### **NU 330 NURSING CONCEPTS/ PRACTICE: HEALTH ASSESSMENT**

Full Course (5 quarter hours)  
Holistic multi-dimensional assessment of the well client throughout the adult years. Comparison of findings with established norms. Prerequisite: Junior in Nursing or interview with instructor.

### **NU 340 NURSING CONCEPTS: PARENT/CHILD**

1.6 Full Courses  
(8 quarter hours)  
Theoretical concepts undergirding holistic nursing care for families during childbearing and child-rearing. Incorporates wellness/illness concepts and developmental history. Prerequisite: NU 320, 321; NU 313 (or concurrent) or interview with instructor.

### **NU 341 NURSING PRACTICE: PARENT/CHILD**

1.8 Full Courses  
(9 quarter hours)  
Multidimensional assessment of childbearing and child-rearing families. Development of skill/judgments for holistic care of childbearing and child-rearing families. Prerequisite: NU 320, 321; NU 313 and 340 (or concurrent) or interview with instructor.

### **NU 401 NURSING LEADERSHIP: RESEARCH**

0.6 Full Courses  
(3 quarter hours)



Concepts and approaches used in investigation of nursing problems. Research critique process including evaluation and interpretation of statistics used. Prerequisite: Senior in Nursing or interview with instructor.

**NU 402  
NURSING LEADERSHIP:  
GROUP THEORY AND  
PRACTICE**

0.6 Full Courses  
(3 quarter hours)

Study of group theories and dynamics; nursing process applied to group as client. Co-leading experience to develop group leadership skills. Prerequisite: NU 320, NU 313 or interview with instructor.

**NU 403  
NURSING LEADERSHIP:  
CRITICAL ISSUES**

Full Course (5 quarter hours)  
Analysis of selected issues critical to the profession of nursing. Application of management/leadership theory. Prerequisite: NU 401, 402, 420, 421; NU 440, 450 (or concurrent) or interview with instructor.

**NU 420  
NURSING CONCEPTS:  
ADULT**

1.2 Full Courses  
(6 quarter hours)  
Theoretical basis for nursing management of clients throughout the adult lifespan. Health/illness problems which occur commonly in society emphasized. Prerequisite: NU 340, 341; NU 401 (or concurrent) or interview with instructor.

**NU 421  
NURSING PRACTICE:  
ADULT**

1.8 Full Courses  
(9 quarter hours)

Application of nursing process in management of adults of all ages with health/illness problems. Holistic approach to patients using nursing process. Development of clinical judgement and skills. Prerequisite: NU 340, 341; NU 420 (or concurrent) or interview with instructor.

**NU 440  
NURSING CONCEPTS:  
COMMUNITY HEALTH**

0.6 Full Courses  
(3 quarter hours)

Nursing process applied to community clients. Health care delivery, scope of practice, community health problems, community assessment and high-risk populations. Prerequisite: NU 420, 421; NU 403 or concurrent or interview with instructor.

**NU 441  
NURSING PRACTICE:  
COMMUNITY HEALTH**

1.0 or 1.2 Full Courses  
(5-6 quarter hours)  
Clinical experience providing nursing services in selected community settings. Community assessment strategies emphasized. Additional credit: Management theory application. Prerequisite: NU 403 and 440 or concurrent or interview with instructor.

**NU 450  
NURSING CONCEPTS:  
PSYCHIATRIC/MENTAL  
HEALTH**

0.6 Full Courses  
(3 quarter hours)  
Nursing process with clients experiencing psychiatric/mental health disruptions. History, theories, legal/ethical issues of psychiatric/mental health nursing. Prerequisite: NU 402, 420 and

421 or interview with instructor.

**NU 451  
NURSING PRACTICE:  
PSYCHIATRIC/MENTAL  
HEALTH**

1.0 or 1.2 Full Courses  
(5-6 quarter hours)  
Clinical application of nursing process with clients experiencing acute and chronic psychiatric/mental health disruptions. Additional credit: management theory application. Prerequisite: NU 450 or concurrent or interview with instructor.

**NU 499  
SPECIAL PROBLEMS**

Variable Credit  
Elective. Independent study in area of interest. May be repeated.

**NU 501  
NURSING THEORY AND  
RESEARCH I**

0.9 Full Courses  
(3 semester hours)  
Theory development in nursing, issues in theory development, and uses of theory in nursing research. Research methods, with emphasis on literature review, problem identification, statement of purpose, conceptual framework, design, sampling procedures.

**NU 502  
NURSING THEORY AND  
RESEARCH II**

0.9 Full Courses  
(3 semester hours)  
Data collection, data analysis, use of computer software and hardware, interpretation of findings, presentation of results. Interrelationships among components of the research process and nursing practice. Prerequisite: NU 501.

**NU 503  
THEORY DEVELOPMENT  
AND EVALUATION**

0.6 to 1.2 Full Courses  
(2-4 semester hours)  
Examination, evaluation of selected theories and conceptual models. Strategies for deriving testable hypotheses.

**NU 507  
PROFESSIONAL ISSUES**

0.6 Full Courses  
(2 semester hours)  
Issues affecting health care and the nursing profession. Societal trends and issues and the implications for nursing.

**NU 508  
STRATEGIES FOR NURSING  
LEADERSHIP**

0.6 Full Courses  
(2 semester hours)  
Analysis of strategies which form the core of nursing leadership regardless of role, position, or setting. Leadership theories, change theories, group process, decision making, consultation models.

**NU 513  
NURSING SERVICE  
ADMINISTRATION:  
THEORY AND ROLE  
ANALYSIS**

1.2 Full Courses  
(4 semester hours)  
Key issues affecting nursing administration. Selected organization and management theories for application in nursing service settings. Systems theory, role theory, communication theory, conflict theory, decision-making theory.

**NU 514  
PERSONNEL  
MANAGEMENT IN NURSING**

0.9 Full Courses  
(3 semester hours)

Theories, concepts related to human behavior in the work situation. Staffing, recruitment, hiring, retention, staff development, performance appraisal, labor-management relations.

**NU 516  
PRACTICUM IN NURSING  
ADMINISTRATION**

1.5 Full Courses  
(5 semester hours)

Analysis, application of management theories, concepts and processes in nursing service settings. Development of leadership behavior and validation of the role of nurse manager. Prerequisite: NU 513,514,574.

**NU 521  
PROCESS IN TEACHING,  
LEARNING AND  
EVALUATION IN NURSING**

0.9 Full Courses  
(3 semester hours)

Concepts related to the teaching-learning process, assessment of student learning needs, instructional strategies, learning objectives, evaluation of student learning and performance, test and measurement techniques.

**NU 523  
NURSING EVALUATION:  
THEORY AND ROLE  
ANALYSIS**

1.2 Full Courses  
(4 semester hours)

Key issues affecting nursing education. Application of educational theories to nursing education in a variety of settings. Analysis of concepts related to curriculum development, curriculum and program evaluation, the role of

the academician, instructional resources, higher and continuing education, student academic counseling, organizational analysis.

**NU 524  
MULTIMEDIA  
APPROACHES TO  
INSTRUCTION AND  
EVALUATION**

0.6 to 1.2 Full Courses  
(2-4 semester hours)

Approaches to group and individualized instruction and evaluation. Focus on experience in creating instructional software, use of the studio for televised learning units, use of other AV and computer hardware. Prerequisite: NU 521 or permission.

**NU 526  
PRACTICUM IN NURSING  
EDUCATION**

1.5 Full Courses  
(5 semester hours)

Combination of group seminar and individualized field experience in formal and informal classroom and clinical settings. Application and analysis of educational theories, and processes relevant to nurse educators in selected settings. Prerequisite: NU 521,523,574.

**NU 561  
ADVANCED CONCEPTS IN  
TRANSCULTURAL  
NURSING**

0.6 Full Courses  
(3 semester hours)

Transcultural nursing and ethnoscience. Sociocultural and biocultural theories of health and illness. Theoretical and methodological strategies from transcultural nursing and medical anthropology for applicability to nursing and health care.

**NU 571  
ADVANCED CONCEPTS IN  
NURSING I**

0.6 Full Courses  
(3 semester hours)

Nursing's distinctive domain in the health care system. Conceptualizations of clinician's rigorous, effective, and consistent use of the diagnostic reasoning process. Evaluation of the nursing diagnosis framework.

**NU 572  
ADVANCED CONCEPTS IN  
NURSING II**

0.6 Full Courses  
(3 semester hours)

Evaluation/analysis of selected theoretical formulations as a basis for health promotion, maintenance, and restoration, using the diagnostic reasoning process. Family, community, and health systems as they relate to nursing diagnoses and treatment of health problems. Prerequisite: NU 571.

**NU 574  
ADVANCED NURSING  
PRACTICE**

0.9 to 1.2 Full Courses  
(3-4 semester hours)

Combination of individualized laboratory experience and group seminar in episodic or distributive settings. Focus on the application of nursing diagnoses and nursing interventions in management of selected client problems. Clinical application of research findings. Prerequisite: NU 561,571,572.

**NU 598  
SPECIAL TOPICS**

Variable credit. May be repeated for credit.

**NU 599  
INDEPENDENT STUDY**

Variable credit. May be repeated for credit.

**NU 600/700  
THESIS**

The systematic development and investigation of a research problem selected by the student and executed with the guidance of a thesis committee.

# NUTRITION

## FACULTY:

Terri Sanders

### REQUIREMENTS FOR A NUTRITION AND FOODS MAJOR

All tracks require the following core courses:

NF 111	Nutrition, Food and People	1.0
NF 231	Food Preparation	1.0
NF 301	Quantity Food, Production and Management	1.0
NF 361	Nutrition	1.0
NF 362	Meal Management	1.0
NF 403	Advanced Nutrition	1.0
BI 204	Microbiology	1.0
BI 221	Human Physiology	1.0
CH 161	Principles of Chemistry	1.0
CH 163	Bioorganic Chemistry	1.0

### Track I—Food Management (17 courses)

Required core courses	10.0	
BU 230	Basic Accounting I	1.0
BU 231	Basic Accounting II	1.0
BU 318	Marketing	1.0
BU 374	Principles of Management	1.0
EC 202	Principles of Microeconomics	1.0
CS 175	Elementary Computer Programming	1.0
One of the following:	1.0	
BU 325	Organizational Behavior	
BU 373	Human Resource Management	

Recommended: NF 373, 401, 406, 409, Business 332, Math 109

### Track II—World Nutrition (15.5 courses)

Required core courses	10.0	
NF 373	Nutrition in the Community	0.5
PO 258	Global Issues	1.0
SO 251	Cultural Anthropology	1.0
SO 385	Sociology of Wealth and Poverty	1.0
RE 316	Mission of the Church in the World	1.0
One of the following:	1.0	
PO 246	Contemporary China and East Asia	
PO 340	Contemporary Africa	
SO 327	Contemporary Latin American Problems	

Recommended: NF 401, 406, Internship, Psych 201, Math 109, 356, Chemistry 271.

### Track III—Professional Nutrition (16.5 courses)

Required core courses	10.0	
NF 401	Seminar	0.5
NF 406	Diet Therapy	1.0
MA 109	Algebra and Trigonometry	1.0
MA 356	Elementary Probability and Statistics	1.0
EC 202	Principles of Microeconomics	1.0
EL 210	Writing II	1.0
CH 271	Principles of Organic Chemistry	1.0

Recommended: Chemistry 393, 401, Psych 201, Business 374, Education 212, Computer Science 175, Sociology 120, 251.

## NUTRITION COURSES

### NF111 NUTRITION, FOOD AND PEOPLE

Full Course

Basic nutrition principles. What constitutes a good, balanced diet and the importance of good dietary and life style habits. Current nutrition-related issues and controversies.

### NF 231(131) FOOD PREPARATION

Full Course

Art of cooking foods and having them at their best. Rationale for certain methods, and their variations and alternatives. Laboratory experience. Prerequisite: NF 111. Chemistry background recommended.

### NF 301 QUANTITY FOODS: PRODUCTION AND MANAGEMENT

Full Course

Menu planning, sanitation, food preparation in a quantity food format. Service, costing, purchasing, recipe adjustment. Practical experience in college food service. Prerequisite: NF 231.

### NF 361 NUTRITION

Full Course

Thorough investigation of the nutrients and their functions in body. Separation of fact from fallacy in the myriad of ideas concerning human nutrition. May be applied toward Math/Science general graduation requirement. Prerequisite: Chemistry 163.

### NF 362 MEAL MANAGEMENT

Full Course

Time, money and equipment

management in the preparation of family meals. Analysis of entire meals including nutritional value. Laboratory experience. Prerequisite: NF 231 and NF 361.

### NF 373 NUTRITION IN THE COMMUNITY

Half Course

### NF 403 ADVANCED NUTRITION

Full Course

The nature of nutrients as they enter the body system and perform their biochemical function, and why these nutrients are vital to optimum health. Integration with concepts of cellular nutrition to study specific needs of specialized tissue systems of the body. Prerequisite: Chemistry 163 and NF 361.

### NF 406 DIET THERAPY

Full Course

Importance of nutrition with regard to world health problems, and the role of the clinical dietitian. Identification of the dietary treatment for weight management, diabetes, childhood diseases, liver/gall bladder diseases, alcoholism. Nutritional aspects of drug-nutrient interactions. Nutritional assessments.

# PHYSICS AND GEOLOGY

## FACULTY:

Edwin Olson (Chair), Lois Kieffaber, Delbert Friesen.

### REQUIREMENTS FOR A PHYSICS MAJOR

#### BACHELOR OF ARTS (14 courses)

PS 151	General Physics I	1.0
PS 153	General Physics II	1.0
PS 251	General Physics III	1.0
PS 273	Electronics	1.0
PS 355	Quantum Mechanics	1.0
PS 363	Thermodynamics	1.0
One of the following:		
PS 451	Electricity and Magnetism I	1.0
PS 461	Theoretical Mechanics I	1.0
MA 110	Calculus I	1.0
MA 111	Calculus II	1.0
MA 210	Calculus III	1.0
MA 212	Differential Equations	1.0
CH 161	Principles of Chemistry	1.0
CH 273	Quantitative Concepts in Chemistry	1.0
One approved Physics course		1.0

#### BACHELOR OF SCIENCE (17.5 courses)

PS 151	General Physics I	1.0
PS 153	General Physics II	1.0
PS 251	General Physics III	1.0
PS 273	Electronics	1.0
PS 355	Quantum Mechanics	1.0
PS 361	Nuclear Physics	1.0
PS 363	Thermodynamics	1.0
PS 451	Electricity and Magnetism I	1.0
PS 453	Electricity and Magnetism II	1.0
PS 461	Theoretical Mechanics I	1.0
PS 463	Theoretical Mechanics II	1.0
PS 482	Science Seminar	.25
PS 483	Science Seminar	.25
MA 110	Calculus I	1.0
MA 111	Calculus II	1.0
MA 210	Calculus III	1.0
MA 212	Differential Equations	1.0
CH 161	Principles of Chemistry	1.0
CH 273	Quantitative Concepts in Chemistry	1.0

### REQUIREMENTS FOR A GEOLOGY MAJOR

#### BACHELOR OF ARTS (12.5 courses)

GL 131	Physical Geology	1.0
GL 150	Introduction to Astronomy	1.0
GL 222	Rocks and Minerals	1.0
GL 314	Structural Geology	1.0
GL 333	Stratigraphy/Earth History	1.0
Required summer field course, to be taken at another college		1.5
Two approved courses in Physics		2.0

One approved course in Biology	1.0
One approved course in Chemistry	1.0
One approved course in Mathematics	1.0
One additional approved science course	1.0

#### BACHELOR OF SCIENCE (16.5 courses)

GL 131	Physical Geology	1.0
GL 222	Rocks and Minerals	1.0
GL 314	Structural Geology	1.0
GL 322	Igneous and Metamorphic Petrology	1.0
GL 325	Physics and Chemistry of the Earth	1.0
GL 333	Stratigraphy and Earth History	1.0
Required summer field course, to be taken at another college		1.5
One approved course in Geology		1.0
Two approved courses in Physics		2.0
Two approved courses in Chemistry		2.0
Three approved courses in Mathematics		3.0
One approved course in Biology		1.0

#### REQUIREMENTS FOR PHYSICS AS A SECOND TEACHING FIELD (5 courses)

PS 151	General Physics I	1.0
PS 153	General Physics II	1.0
PS 251	General Physics III	1.0
PS 373	Electronics	1.0
One approved course in Physics		1.0

#### PRE-ENGINEERING (11.25 courses)

Two years at Whitworth, followed by two or three years at an institution offering specialized course work. This program gives a student with educational goals in one of the engineering areas the opportunity to pursue the first two years in a supportive atmosphere of small classes and close faculty contact. The courses listed below are recommended to meet the needs of many engineering schools, and allow some specialization in the sophomore level. Students are urged to determine the entrance requirements of their intended engineering schools as early as possible.

CH 161	Principles of Chemistry	1.0
CH 273	Quantitative Concepts in Chemistry	1.0
CS 175	Elementary Computer Programming	1.0
EN 110	Engineering Orientation	.25
EL 110	Writing I	1.0
MA 110	Calculus I	1.0
MA 111	Calculus II	1.0
MA 210	Calculus III	1.0
MA 212	Differential Equations	1.0
PS 151	General Physics I	1.0
PS 153	General Physics II	1.0
PS 251	General Physics III	1.0
Engineering Courses (cross-registration at Gonzaga University)		3.0

## ENGINEERING COURSE

### EN 110 ENGINEERING ORIENTATION

Quarter Course  
Concerns of the engineering profession: its scope, challenges, opportunities, rewards and educational requirements. Also included are discussions of creativity, patents, registration

and engineering societies.

## PHYSICS COURSES

### PS 121 CONCEPTS OF PHYSICS

Full Course  
Nonmathematical concepts of mechanics, heat, electricity, magnetism, optics and nuclear physics. January term.

**PS 151  
GENERAL PHYSICS I**

Full Course  
Basic principles of mechanics and wave motion. Includes laboratory. Prerequisite: Math 110 or concurrent enrollment. Fall.

**PS 153  
GENERAL PHYSICS II**

Full Course  
Continuation of PS 151. Basic principles of thermodynamics, electricity, and magnetism. Includes laboratory. Prerequisite: PS 151, also Math 111 or concurrent enrollment. Spring.

**PS 251  
GENERAL PHYSICS III**

Full Course  
Continuation of PS 153. Basic principles of optics, special relativity, and modern physics. Includes laboratory. Prerequisite: PS 153. Fall. Completion of this three-semester sequence is prerequisite for all upper-level physics courses.

**PS 273  
ELECTRONICS**

Full Course  
A "learn by doing" practical introduction to the fundamentals of electronic devices and circuits. Emphasis on modern instrumentation. Includes laboratory. Prerequisite: PS 153. Spring.

**PS 355  
QUANTUM MECHANICS**

Full Course  
An introduction to the principles of quantum mechanics including Schrodinger's equation applied to one-dimensional scattering, the hydrogen atom, and the harmonic oscillator. Prerequisite: PS 251, Math 212. Alternate years (Spring 1988).

**PS 361  
NUCLEAR PHYSICS**

Full Course  
Nuclear structure, radioactivity, fission, elementary particles, nuclear radiation detection instruments and techniques. Includes laboratory. Prerequisite: PS 251. Alternate Spring terms (1988).

**PS 363  
THERMODYNAMICS**

Full Course  
Thermodynamical laws, kinetic theory, states of matter, phase transitions, and statistical mechanics. Includes laboratory. Prerequisite: PS 251, Mathematics 212. Alternate Spring terms (1987).

**PS 371  
OPTICS**

Full Course  
Nature of light, geometrical and physical optics, interference, quantum optics, optical instruments. Includes laboratory. Prerequisite: PS 251, Math 212. Alternate years (January term 1987).

**PS 451  
ELECTRICITY AND  
MAGNETISM I**

Full Course  
Electric and magnetic fields, boundary value problems, steady and alternating currents, electrical instruments and measurement techniques. Includes laboratory. Prerequisite: PS 251, Math 212. Alternate Fall terms (1986).

**PS 453  
ELECTRICITY AND  
MAGNETISM II**

Full Course  
Continuation of PS 451. Maxwell's equations, electromagnetic waves, advanced topics in elec-

trical and magnetic phenomena. Includes laboratory. Prerequisite: PS 451. Alternate Spring terms (1987).

**PS 461  
THEORETICAL  
MECHANICS I**

Full Course  
Newtonian mechanics, central forces, dynamics of systems, oscillating systems, numerical techniques. Prerequisite: PS 251, Math 212. Alternate Fall terms (1987).

**PS 463  
THEORETICAL  
MECHANICS II**

Full Course  
A continuation of PS 461. Lagrange's equations, rigid bodies, continuous media. Prerequisite: PS 461. Alternate Spring terms (1988).

**PS 471, 473  
EXPERIMENTAL PHYSICS**

Variable Credit  
Supervised research projects in areas such as electronics, optics, nuclear physics, computer applications, atmospheric physics. Prerequisite: junior or senior physics major and permission.

**PS 482, 483  
SCIENCE SEMINAR**

Quarter Courses  
Current developments in physics, biology, chemistry, geology and nutrition. Guest speakers, faculty and student presentations. Prerequisite: Natural Sciences major, junior or senior standing, and permission.

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**GEOLOGY COURSES**

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**GL 131  
PHYSICAL GEOLOGY**

Full Course  
Earth's crust as the scene of a

battle between leveling forces (erosion, landslides) and forces causing irregularities (volcanos, mountain-building). Lab work with minerals, rocks and maps. Fall.

**GL 150  
INTRODUCTION TO  
ASTRONOMY**

Full Course  
Nature and origin of solar system, starlight and star life, components and structure of a galaxy, the expanding universe and cosmology.

**GL 222  
ROCKS AND MINERALS**

Full Course  
Chemistry and physics of minerals and their use in mineral identification. Nature, origin and utility of rocks and minerals. Prerequisite: GL 131 or permission. Spring.

**GL 314  
STRUCTURAL GEOLOGY**

Full Course  
Large and small-scale rock structures and their modes of origin. Response of rocks to crustal forces. Mapping techniques. Solving problems of earth geometry. Prerequisite: GL 131, PS 151.

**GL 322  
IGNEOUS AND  
METAMORPHIC  
PETROLOGY**

Full Course  
Nature and origin of igneous and metamorphic rocks. Examination of outcrops, hand specimens, thin sections. Prerequisite: GL 222 and a college-level Chemistry course.

**GL 325  
PHYSICS AND CHEMISTRY  
OF THE EARTH**

Full Course

Seismology, geomagnetism, gravity, terrestrial heat flow, element abundance/distribution/cycling, chemistry and physics of the oceans and atmosphere, meteorites and cosmochemistry. Prerequisite: college-level courses in Physics, Chemistry, Calculus.

**GL 333  
STRATIGRAPHY AND  
EARTH HISTORY**

Full Course

Methods and results of studying stratified rocks for their information about life and environments of the past. Introduction to paleontology. Prerequisite: GL 131.

# PSYCHOLOGY

**FACULTY:**

William Johnson (chair), Patricia MacDonald (sabbatical leave, Spring 1988), Kathleen Harrell Storm

**REQUIREMENTS FOR A PSYCHOLOGY MAJOR (13.5 courses)**

PY 201	Scientific Principles of Psychology	1.0
PY 210	Developmental Psychology	1.0
PY 227	Theories of Personality	1.0
PY 241	Social Psychology	1.0
PY 302	Theory and History	0.5
PY 326	Experimental Psychology	1.0
PY 350	Psychology and Christian Faith	1.0
PY 358	Abnormal Psychology	1.0
PY 370	Group Dynamics	0.5
PY 375	Advanced Principles	1.5
PY 423	Practicum in Psychology	1.0
PY 425	Psychology of Learning	1.0
PY 499	Senior Research	1.0
MA 356	Probability and Statistics	1.0

**PSYCHOLOGY COURSES****PY 102  
PERSONAL APPLICATIONS  
OF PSYCHOLOGY**

Full Course

Use of psychological principles to enhance personal effectiveness. Stress on application rather than theory. Improving memory and study skills, biofeedback, learn-

ing to relax, breaking bad habits, improving personal relationships. Fall.

**PY 201  
SCIENTIFIC PRINCIPLES  
OF PSYCHOLOGY**

Full Course

Use of scientific method in examining human behavior. How to deal objectively with questions about behavior. Laboratory exper-

ience. Principles of learning, motivation. Spring.

**PY 210  
DEVELOPMENTAL  
PSYCHOLOGY**

Full Course

The life process, from conception to death. Relationships established with a child and an elderly person. Prerequisite: PY 201. Fall.

**PY 227  
THEORIES OF  
PERSONALITY**

Full Course

Study, comparison of psychoanalytic, neanalytic, behavioral, humanistic and existential personality theorists. Prerequisite: PY 201. Fall.

**PY 241  
SOCIAL PSYCHOLOGY**

Full Course

An attempt to understand how an individual's thoughts, feelings, behaviors are influenced by the actual, imagined or implied presence of others. Trends and findings of current research, and its limitations. Prerequisite: PY 201 or permission. Spring.

**PY 300-309  
MODULES IN  
PSYCHOLOGY**

Half Course

Central topics in psychology not covered in other courses. Preparation for advanced study. Prerequisite: PY 201. Spring.

**PY 302  
THEORY AND HISTORY**

Half Course

Integrative experience, emphasis on enabling the student to develop a recognition of the role of theories in shaping our world. How we interact with the world personally and as a discipline. Prerequisite: PY 201. Spring.

**PY 326  
EXPERIMENTAL  
PSYCHOLOGY**

Full Course

Principles of psychological research. Experimental design and analysis. Laboratory experience. Prerequisite: PY 201 and Mathematics 356. Spring.

**PY 328  
CROSS-CULTURAL FIELD  
RESEARCH**

Full Course

Student-initiated research study in one of the following areas: social influence, cognitive/moral development, parenting, marriage and family, personality. Comparison of at least three cultural groups. Location: the island of Kauai, Hawaii. Prerequisite: PY 201, Math 356, and one of the following; PY 210, 227, 230, 241. Alternate January terms (1988).

**PY 350  
PSYCHOLOGY AND  
CHRISTIAN FAITH**

Full Course

Explores integration of psychological research and Christian faith. Examines potential tensions and resolutions in integrating psychological and Christian approaches to understanding development, maturity, conversion, counseling. Students research an area of the faith experience and attempt a first personal integration. Prerequisite: three courses in psychology, including PY 201. Spring.

**PY 358  
ABNORMAL PSYCHOLOGY**

Full Course

Study of behaviors categorized as mental illness or mental disorder. Pertinent genetic backgrounds, body chemistry, family interactions, other social rela-

tionships examined. Prerequisite: PY 201 and 227. Fall.

**PY 370**  
**ADVANCED**  
**INTERPERSONAL AND**  
**GROUP DYNAMICS**

Half Course  
Communication skills, understanding of group dynamics. Student analysis of small group situations. Prerequisite: PY 201. Spring.

**PY 375**  
**ADVANCED PRINCIPLES**  
**OF PSYCHOLOGY**

1.50 Course  
Advanced treatment of the topics in Scientific Principles. Training in group process, leadership styles. Teaching assistantship experience. Prerequisite: PY 201. Spring.

**PY 423**  
**PRACTICUM IN**  
**PSYCHOLOGY**

Full Course  
Placement in community agency or organization. Applications of psychological concepts and analysis of individual experiences in a seminar format. Prerequisite: senior Psychology major or permission. January Term. Odd numbered years in San Francisco.

**PY 425**  
**PSYCHOLOGY OF**  
**LEARNING**

Full Course  
Historical development of learning, major theoretical positions, empirical/theoretical issues. Seminar format. Prerequisite: PY 201, 326, Mathematics 356. Fall.

**PY 454**  
**MEASUREMENT IN**  
**PSYCHOLOGY**

Full Course  
Theory and principles in measurement of psychological variables and individual differences. Focus on concepts of validity, reliability and the standardization of tests and scales. Interpretation of test scores. Prerequisite: PY 201, Mathematics 356.

**PY 468**  
**THEORIES OF**  
**COUNSELING**

Full Course  
Introduction to the field of counseling, using a variety of learning resources. Prerequisite: PY 201 and 227. Alternate years, Spring.

**PY 499**  
**SENIOR RESEARCH**

Full Course  
Final learning/evaluation situation for psychology major. Seminar format. Prerequisite: PY 201, 326, Mathematics 356. Spring.

# RELIGION AND PHILOSOPHY

## FACULTY:

Roger Mohrlang (chair), Forrest Baird, F. Dale Bruner, Hans Bynagle, Ron Frase, Darrell Guder, Howard Redmond.

### REQUIREMENTS FOR A RELIGION MAJOR (12 courses)

All majors are required to take the following core courses:

RE 183	Foundations of Ministry	1.0
RE 231	Old Testament	1.0
RE 241	New Testament	1.0
RE 272	Religions of the World	1.0
RE 361	Christian Doctrine	1.0
RE 365	Church History	1.0
RE 384	Christian Ethics	1.0
One of the following:		1.0
PH 305	History of Ancient and Medieval Philosophy	
PH 320	Philosophy of Religion	

### Biblical Studies Track

Required core courses		8.0
RE 348	New Testament Theology	1.0
RE 451	Interpretation of the Bible	1.0
One approved course in Old Testament		1.0
One approved course in New Testament		1.0

### Ministry Track

Required core courses		8.0
RE 389	Models of Ministry	1.0
RE 394	Educational Ministries	1.0
One approved course in Ministry		1.0
Internship		1.0

### Religious Thought and History Track

Required core courses		8.0
RE 359	Reformation Theology	1.0
RE 457	Contemporary Religious Thought	1.0
RE 458	History of Christian Thought	1.0
One approved course in Church History, Ethics or Theology		1.0

### REQUIREMENTS FOR A PHILOSOPHY MAJOR (12 courses)

PH 110	Introduction to Philosophy	1.0
PH 201	Logic	1.0
PH 305	History of Ancient & Medieval Philosophy	1.0
PH 306	History of Modern Philosophy	1.0
PH 320	Philosophy of Religion	1.0
PH 335	Contemporary Philosophical Issues	1.0
PH 351	Philosophical Ethics	1.0
PH 499	Senior Thesis	1.0
Four approved courses, two of which may be in related fields		4.0

### REQUIREMENTS FOR A RELIGION MINOR (5 courses)

Five courses approved by Religion advisor,		
two of which must be upper division.		5.0

### REQUIREMENTS FOR A PHILOSOPHY MINOR (5 courses)

Five courses approved by Philosophy advisor,		
two of which must be upper division.		5.0

**THE PRE-MINISTRY PROGRAM**

Whitworth College is deeply committed to enabling students to receive the best preparation for entering a career in professional ministry. The Department of Religion and Philosophy and the Chaplain's Office coordinate this program, which is not a formal degree program, but supplementary to a traditional degree.

The college is visited on a regular basis by representatives of many of the finest seminaries in the country. Pre-ministry students are encouraged to meet with these representatives to find out more about seminary education and preparation for professional ministry.

The Chaplain's Office sponsors a conference for pre-ministry students on a regular basis.

A wide variety of service and leadership opportunities in church, para-church, campus ministry, and service organizations are available.

Pre-ministry students are advised by faculty and chaplains who have many years of experience in professional ministry. Several members of Whitworth's faculty are ordained, and many others have formal theological training and have served the church as laypersons.

**RELIGION****RE 131, 331  
GENESIS, EXODUS**

Full Course

Thorough study of the theological implications of Genesis and Exodus from a Reformation-Christian perspective.

**RE 140, 340  
STUDIES IN LUKE/ACTS**

Full Course

Lectures on the stories unique to Luke's gospel and on the Holy Spirit texts in Acts.

**RE 141, 341  
THE GOSPEL OF MARK**

Full Course

**RE 142, 342  
THE GOSPEL OF  
MATTHEW**

Full Course

**RE 147, 347  
THE GOSPEL OF JOHN**

Full Course

**RE 183  
FOUNDATIONS OF  
MINISTRY**

Full Course

Biblical basis for understanding and developing goals and approaches to ministry. Emphasis on the person in ministry,

mission of the Church, future shape of ministry.

**RE 203  
BIBLICAL BACKGROUNDS**

Full Course

A study of the historical and geographical setting of the Bible. Sometimes offered in conjunction with study tours to Israel and Greece.

**RE 230  
INTRODUCTION TO THE  
BIBLE**

Full Course

Basic introduction to the background and content of the biblical books. Apocrypha, formation of the Bible, unity and diversity, revelation and biblical authority, exegetical tools, hermeneutical issues.

**RE 231  
OLD TESTAMENT**

Full Course

A study of the major Old Testament books, with special emphasis on the Exodus from Egypt. History, theology, literature, archeology.

**RE 233, 333  
BEGINNING HEBREW**

Half or Full Course

Study of selected Old Testament passages in the original Hebrew language.

**RE 241  
NEW TESTAMENT**

Full Course

Study of the background, characteristics, and content of the individual New Testament books, with a view to gaining a good working knowledge of the New Testament.

**RE 242  
UNDERSTANDING JESUS**

Full Course

A study of the pivotal events and major teachings of Jesus as recorded in the Gospels. Who is Jesus? What did he do? What did he say? What has it meant to Christians over the centuries?

**RE 244  
I CORINTHIANS**

Full Course

Paul's letter concerning how to relate to the real world. Radical implications for interpersonal relationships in today's complicated, diverse world.

**RE 246, 346  
THE BOOK OF  
REVELATION**

Full Course

A study of the text and contemporary relevance of Revelation.

**RE 251, 351  
C.S. LEWIS**

Full Course

A study of the religious teachings of C.S. Lewis, as found in his theological, philosophical and imaginative works.

**RE 263  
CHRISTIAN  
ESCHATOLOGY**

Full Course

An intensive study of the Christian view of the "last things," including heaven, hell, final judgment, and Christ's second com-

ing, with special emphasis on the second coming.

**RE 272  
RELIGIONS OF THE  
WORLD**

Full Course

Introduction to the world's main religions. Historical developments, ideas, concepts.

**RE 274, 374  
SECT, CULT, AND  
DENOMINATION**

Full Course

The varied forms of Christian religious organization, belief and practice, both orthodox and unorthodox.

**RE 283, 383  
DIAKONIA**

Full Course

Summer mission service in situations demanding growth in faith and practical skills. Placement in the United States and abroad.

**RE 294, 394  
EDUCATIONAL  
MINISTRIES**

Full Course

A thorough study of the educational mission of the Church, including faith development, organization and administration of programs, and specialized approaches to particular age groups.

**RE 311, 312 (GK 301, 302)  
NEW TESTAMENT GREEK**

Full Courses

Concentrated study of Koine Greek, culminating in reading of the Epistles of John and selected passages from the Gospel of John in Greek. Fall, Spring.

**RE 316  
MISSION OF THE CHURCH  
IN THE WORLD**

Full Course

A survey of the many ways the



Church has attempted and is attempting to fulfill the great commission.

**RE 320  
PHILOSOPHY OF  
RELIGION**

Full Course  
See Philosophy (PH 320) for course description.

**RE 328  
CHRIST AND CULTURE**

Full Course  
An examination of the different attitudes to society taken by Christians, from a cultural and historical point of view.

**RE 332  
PSALMS AND WISDOM  
LITERATURE**

Full Course  
A study of the major books of the third part of the Hebrew Bible, "the Writings," with special emphasis on the theological teachings.

**RE 333—See RE 233.**

**RE 334  
OLD TESTAMENT  
PROPHETS**

Full Course  
A study of the second part of the Hebrew Bible, "the Prophets," with special emphasis on Isaiah and Jeremiah.

**RE 340—see RE 140.**

**RE 341—see RE 141.**

**RE 342—see RE 142.**

**RE 343  
GENERAL EPISTLES,  
APOCALYPSE**

Full Course  
Detailed study of the General Epistles and the Apocalypse of John, with primary focus on the writers' theology and ethics, and the development of exegetical skills. Prerequisite: RE 241.

**RE 346—see RE 246.**

**RE 347—see RE 147.**

**RE 348  
THEOLOGY OF THE BIBLE**

Full Course  
A study of the theology of the Old and New Testament writings, with special focus on the gospels and Paul's letters. Prerequisite: RE 231 and RE 241.

**RE 349  
PAUL'S LETTERS**

Full Course  
Detailed study of the Pauline Epistles, with primary focus on Paul's theology and ethics, and the development of exegetical skills. Prerequisite: RE 241.

**RE 351—see RE 251**

**RE 359  
REFORMATION  
THEOLOGY**

Full Course  
Seminar study of the major writings of the sixteenth century Reformation. Emphasis on Luther, Calvin.

**RE 361  
CHRISTIAN DOCTRINE**

Full Course  
A study of the major doctrines of the Christian faith.

**RE 365  
CHURCH HISTORY**

Full Course  
A study of the history of the Christian Church, with special emphasis on the Early Church and the Reformation.

**RE 372  
CUSTOMS AND CULTURE  
OF JUDAISM**

Half Course

**RE 374—see RE 274.**

**RE 383—see RE 283.**

**RE 384  
CHRISTIAN ETHICS**

Full Course  
Sources and norms of Christian

ethics. Situation ethics, love and justice, understanding of charity and social action.

**RE 387  
YOUTH MINISTRY**

Full Course  
An incarnational approach to understanding the adolescent, communicating the Gospel, Christian nurture and community, counseling, program development.

**RE 389  
MODELS OF MINISTRY**

Full Course  
Exploration of various approaches to ministry, with special emphasis on interaction with those practicing ministry. One particular ministry is generally featured. January.

**RE 393  
CHRISTIAN SPIRITUALITY**

Full Course  
A survey of various approaches to spirituality and selections from literature of Christian history as well as an opportunity for exploring personal approaches to spiritual formation.

**RE 394—see RE 294.**

**RE 451  
INTERPRETATION OF THE  
BIBLE**

Full Course  
A study of the history and practice of the interpretation of the Bible. Critical issues and hermeneutical problems.

**RE 457  
CONTEMPORARY  
RELIGIOUS THOUGHT**

Full Course  
Exploration of the development of religious thinking since the Enlightenment, with special emphasis on 20th century Christian theology.

**RE 458  
HISTORY OF CHRISTIAN  
THOUGHT**

Full Course  
Seminar study of major writings from each of the main periods of church history: ancient, medieval, Reformation, modern.

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**PHILOSOPHY COURSES**

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**PH 110  
INTRODUCTION TO  
PHILOSOPHY**

Full Course  
The skill of critical thinking. Preparation for the understanding and evaluation of great ideas.

**PH 201  
LOGIC**

Full Course  
The formal nature of logical thought and the informal, practical application of critical thinking to the analysis of arguments.

**PH 225  
CONSTRUCTING A  
PHILOSOPHY OF LIFE**

Full Course  
A rational look at one's life with regard to personal philosophical goals. Different schools of philosophy and their contributions to the practical goal of life orientation.

**PH 305  
HISTORY OF ANCIENT  
AND MEDIEVAL  
PHILOSOPHY**

Full Course  
Survey of Western thought from its development in Greece through the Middle Ages, using primary source readings. Plato, Aristotle, Augustine, Anselm, Aquinas.

**PH 306  
HISTORY OF MODERN  
PHILOSOPHY**

Full Course

Western thought from Descartes through the nineteenth century, using primary source readings. Descartes, Spinoza, Leibnitz, Locke, Berkeley, Hume, Kant, Hegel.

**PH 320  
PHILOSOPHY OF  
RELIGION**

Full Course

Place of reason in faith. Classical arguments for and against the existence of God. Philosophical approach to religious language, miracles, immortality. Prerequisite: Core 250. Also listed as Religion 320.

**PH 335  
CONTEMPORARY  
PHILOSOPHICAL ISSUES**

Full Course

An examination of some of the issues currently being discussed in philosophical literature. Prerequisite: PH 306 or permission.

**PH 351  
PHILOSOPHICAL ETHICS**

Full Course

Nature of moral judgments and values. Examination of the criteria on which ethical decision-making is based.

**PH 353  
EXISTENTIALISM**

Full Course

An examination of the major representatives of existentialism from a philosophical point of view; includes discussion of literary, artistic and religious themes.

**PH 354  
BIOETHICS**

Full Course

An examination of ethical issues such as abortion, euthanasia, allocation of resources, etc.

**PH 368  
PHILOSOPHY OF THE  
ARTS**

Full Course

What is beauty? An analysis and examples of the meaning of beauty in the different arts.

**PH 370-379  
MAJOR PHILOSOPHERS**

Full Courses

In-depth studies of major philosophers such as Plato, Aristotle, Kant, Wittgenstein.

**PH 499  
SENIOR THESIS**

# SOCIOLOGY AND ANTHROPOLOGY

**FACULTY:**

Frank Houser (chair), Donald Liebert, Lee Fish, Ronald Frase, Raja Tanas

**REQUIREMENTS FOR A MAJOR IN SOCIOLOGY (13 courses)**

SO 120	Social Reality	1.0
SO 378	Social Theory	1.0
SO 379	Social Research	1.0
MA 356	Probability and Statistics	1.0
	Five approved courses in Sociology	5.0
	Four approved courses from Computer Science, Economics, History/Political Studies, Psychology, or Sociology (maximum one course in Computer Science)	4.0

**REQUIREMENTS FOR A MINOR IN SOCIOLOGY (5 courses)**

SO 120	Social Reality	1.0
	Four approved courses in Sociology	4.0

**SOCIOLOGY****SO 120  
SOCIAL REALITY**

Full Course

Develops some basic understandings of social behavior, operation of societies. Fundamental processes, prospects of American society. Fall, Spring.

**SO 227,327  
CONTEMPORARY LATIN  
AMERICAN PROBLEMS**

Full Course

Wide range of problems facing Latin American societies, based on underdevelopment in their colonial past. Thematic approach: the military, peasants, Indians, U.S. foreign policy, multinational corporations, urbanization, education.

**SO 232, 234**

See Recreation (RC 232, 234) for course descriptions.

**SO 233  
IS LOVE ENOUGH?**

Full Course

An analysis of the components of a successful marriage. January term.

**SO 238  
SOCIOLOGY OF MIDDLE  
EASTERN SOCIETY**

Full Course

Culture, social stratification, political behavior, social/religious institution, revolutionary change, problems of diversity and integration in the peoples and cultures of the Middle East.

**SO 240  
AGING IN AMERICAN  
SOCIETY**

Half Course

Issues of coping with advanced age. Role of children, friends, community, the nations. Spring.

**SO 244  
I CORINTHIANS**

Full Course  
See Religion (RE 244) for course description.

**SO 250, 350  
DEVIANT BEHAVIOR**

Full Course  
How and why people become delinquents, addicts, deviants; and possible solutions. Spring.

**SO 251  
INTRODUCTION  
TO CULTURAL  
ANTHROPOLOGY**

Full Course  
The nature of culture, descriptive and comparative analysis of primitive cultures and peasant societies. Insight into issues such as race, stratification, causes of poverty and war. Spring.

**SO 258, 358  
WORK AND LEISURE**

Full Course  
Developing an understanding of society and personal life-style choices. Family lifestyles, the occupational order, the non-work culture, tourism.

**SO 265, 365  
URBAN COMMUNITIES**

Full Course  
Understanding today's urban world and its problems. Development of the city, patterns of urban settlement, influences of urban environment on groups and individuals. Social aspects of urban planning. Fall.

**SO 311  
THE FAMILY**

Full Course  
Study of changes of attitudes toward courtship, marriage, family. Why they are happening, the consequences, what stance we must learn to adjust wisely. Fall.

**SO 312  
SOCIAL PROBLEMS**

Full Course  
Sources, reasons for persistence of such social problems as race relations, dying cities, poverty. A look at how society works. Fall.

**SO 327—see SO 227**

**SO 334  
POPULATION**

Full Course  
How mortality, fertility, migration affect the distribution of population. Possible directions of future population growth.

**SO 338  
SOCIAL SCIENCE USE  
OF THE COMPUTER**

Full Course  
Interpretation of questionnaire results. Use of SPSS batch system. Frequencies, cross-tabulations, bi-variate analysis, graphs. By permission.

**SO 339  
APPLIED SOCIOLOGY**

Half Course  
Evaluation, research, thinking sociologically, metalogue, drawing valid generalizations from experience, sociology as a problem solving tool.

**SO 358—see SO 258**

**SO 365—see SO 265**

**SO 371  
INTRODUCTION TO  
SOCIAL SERVICES**

Full Course  
Community, agency responses to social welfare problems. Child abuse and neglect, family assaults, rehabilitation programs.

**SO 378  
SOCIAL THEORY**

Full Course  
Classical sociological explanations of social behavior. Student

theory building. Sociology as an art form. Fall.

**SO 379  
SOCIAL RESEARCH**

Full Course  
Basis for evaluation of sociological research. Research skills: hypothesis building, questionnaire construction, interviewing techniques, observation skills, data interpretation. Spring.

**SO 385  
SOCIOLOGY OF WEALTH  
AND POVERTY**

Full Course  
Inequalities of power, prestige, wealth in society. Analysis of life-styles, situation of the poor, relation of social policy to inequality. Spring.

**SO 425  
UNDERSTANDING THE  
JUVENILE OFFENDER**

Full Course  
An examination of the contributing factors relating to the development of juvenile delinquency.

**SO 426  
THE JUVENILE  
JUSTICE SYSTEM**

Full Course  
A study of the components, agencies, and programs that make up the juvenile justice system.

**SO 430  
SPORTS AND SOCIETY**

Full Course  
See Physical Education (PE 430) for course description.

**SO 443  
SOCIOLOGY OF RELIGION**

Full Course  
Understanding of U.S. and foreign religious behavior in theoretical, methodological terms. Sociology as both a threat to cherished beliefs and as a valuable tool for ministry. Spring.

**SO 444  
URBAN STUDY OF  
SAN FRANCISCO**

Two Full Courses  
Part of an urban term program in cooperation with Westmont College. City resources, land use, minorities and ethnic groups, urban emotional health, the arts, relevance of Christian faith to city human issues.

# THEATRE ARTS

## FACULTY:

Pat Stien (chair), Rick Hornor

### REQUIREMENTS FOR A THEATRE ARTS MAJOR (12 courses)

TA 231	Oral Interpretation	1.0
TA 270	Stage Makeup	0.5
TA 273	Acting	1.0
TA 279	Voice for the Performer	1.0
TA 361	Directing	1.0
TA 476	History of Theatre: Greek to Medieval	1.0
TA 477	History of Theatre: Renaissance to Modern	1.0
TA 494	Senior Performance	1.0

Two full courses of the following: 2.0

TA 145*	Theatre Production
TA 255	Story Theatre
TA 275	Technical Theatre
TA 277	Mime
TA 335	Choric Drama
TA 348	Chamber Theatre
TA 375	Technical Theatre

Two of the following quarter courses: 0.5

TA 130*	Private Lessons
PE 116	Modern Dance
PE 216	Intermediate Modern Dance
PE 139	Fencing
PE 143	Ballet
PE 243	Intermediate Ballet

Two full courses of the following: 2.0

TA 255	Story Theatre
TA 271	Religious Theatre
TA 276	Improvisational Acting
TA 277	Mime
TA 300	Theatre Study in London
TA 332	Oral Interpretation of Children's Literature
TA 334	Advanced Oral Interpretation
TA 335	Choric Drama
TA 338	Oral Interpretation of Biblical Literature
TA 372	Storytelling
TA 373	Creative Dramatics
TA 481,482	Theatre Arts Projects
EL 354	Shakespeare
EL 412	Drama Seminar
Independent Study in Theatre Arts	
Approved Internship	

\*also offered at 200, 300, 400 level

### REQUIREMENTS FOR THEATRE ARTS AS A SECOND TEACHING FIELD

<b>(5 courses)</b>		
TA 231	Oral Interpretation	1.0
TA 266	Acting	1.0
TA 361	Directing	1.0

One of the following:	1.0
One full course in Theatre Production	
TA 255	Story Theatre
TA 348	Chamber Theatre
One of the following:	1.0
TA 275	Technical Theatre (Set Construction)
TA 375	Technical Theatre (Lighting)

## FINE ARTS COURSE

### FA 101 INTRODUCTION TO THE FINE ARTS

Full Course

Integrates the disciplines of Art, Music, Theater and Dance into an examination of the fine arts experience. Elements, media, expressiveness.

## THEATRE ARTS COURSES

### TA 130, 230, 330, 430 PRIVATE LESSONS

Quarter or Half Courses

Individual instruction with members of the Theatre Arts faculty. Fall, Spring.

### TA 145, 245, 345, 445 THEATRE PRODUCTION

Half Course

Instruction and performance in a major theatre arts production. Repeatable for credit to a maximum of two full courses. Fall, Spring.

### TA 230—See TA 130.

### TA 231 ORAL INTERPRETATION

Full Course

The art of making literature come alive. Vocal expressiveness in communicating ideas, feelings from the printed page. Applied to short stories, novels, poems, plays. Fall, Spring.

### TA 245—See TA 145.

### TA 255 STORY THEATRE

Full Course

Combines art forms of interpretation and pantomime. Adapting and performing stories for varied audiences.

### TA 270 STAGE MAKEUP

Half Course

Techniques in application of various styles of stage makeup.

### TA 271 RELIGIOUS THEATRE

Full Course

Study of art forms suitable for worship including formal, informal theatre. Evaluation of materials, selection, staging, performance.

### TA 273 ACTING

Full Course

Experience in application and control of the sensory and emotional aptitudes, as an approach to acting. Fall.

### TA 275, 375 TECHNICAL THEATRE

Full Course

Instruction and laboratory experience in lighting and the designing and construction of sets.

### TA 276 IMPROVISATIONAL ACTING

Full Course

The process of becoming "stage-worthy." Exercises and techniques based on the Stanislavski

system, leading to self-discovery in the releasing of creative potential.

**TA 277**

**MIME**

Full Course

The Theatre of Silence. A study of mime techniques leading to performance.

**TA 279**

**VOICE FOR THE PERFORMER**

Full Course

Identifying and overcoming vocal abuse and faulty articulation habits, which are barriers to creative expression. Spring.

**TA 300**

**THEATRE STUDY IN LONDON**

Full Course

January term in London, England attending theatre performances and seminars.

**TA 330—See TA 130.**

**TA 332**

**ORAL INTERPRETATION OF CHILDREN'S LITERATURE**

Full Course

Effective presentation of children's literature to audiences including both adults and children. Selection of stories, poems appropriate for various developmental levels. Prerequisite: TA 231 or permission.

**TA 334**

**ADVANCED ORAL INTERPRETATION**

Full Course

Continued training of voice and body for mental and emotional responsiveness to literature requiring advanced skills of analysis and presentation. Alternate years. Prerequisite: TA 231 or permission of instructor.

**TA 335**

**CHORIC DRAMA**

Full Course

Disciplined vitality and creativity given to choral reading. Use of fine literature, classical and contemporary. By audition.

**TA 338**

**ORAL INTERPRETATION OF BIBLICAL LITERATURE**

Full Course

Effective communication of scripture and other literature with sacred themes. Of particular interest to prospective ministers and church workers. Prerequisite: TA 231 or permission.

**TA 348**

**CHAMBER THEATRE**

Full Course

New performing techniques for prose literature that take advantage of all the theatrical devices of the stage without sacrificing the narrative elements of the literature. Selection, script adaptation, performance. By audition.

**TA 361**

**FUNDAMENTALS OF DIRECTING**

Full Course

The technical aspects of directing: blocking, emphasis of characters, picturization, composition, rhythm. By permission of instructor. Alternate years.

**TA 372**

**STORYTELLING**

Full Course

Learning how to hear the voices in stories and how to bring them alive. Building voice and vocabulary. Learning what makes a good story and how to prepare it for telling. Performance.

**TA 373**

**CREATIVE DRAMATICS**

Full Course

Art of creative dramatics, and how to share it with children.

**TA 430—See TA 130.**

**TA 433**

**THEATRE ARTS FOR THE CLASSROOM TEACHER**

Full Course

Application of Theatre Arts techniques in the classroom—elementary and secondary.

**TA 445—See TA 145.**

**TA 476**

**HISTORY OF THEATRE: GREEK TO MEDIEVAL**

Full Course

The literature and manner of presentation of Greek, Roman, Medieval theatre. Alternate Fall terms (1987).

**TA 477**

**HISTORY OF THEATRE: RENAISSANCE TO MODERN**

Full Course

Study of theatrical contributions of Italian, French, Spanish, English Renaissance to Modern Theatre. Alternate Spring terms (1988).

**TA 481, 482**

**PROJECTS IN THEATRE ARTS**

Half Courses

Individually arranged projects.

**TA 494**

**SENIOR PERFORMANCE**

Full Course

Final Requirement for Theatre Arts major. By audition.

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## PREPROFESSIONAL HEALTH SCIENCES

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### STUDIES IN THE HEALTH PROFESSIONS

Whitworth College places a strong emphasis on preparation of students for entering one of the health professions. Programs exist in the Departments of Biology, Business/Economics, Chemistry, and Health Ed/Physical Ed/Recreation/Athletics, preparing students for a variety of professional schools, as well as supervisory and supplemental areas such as health service management and health education/promotion. In many cases students entering these latter areas have an existing career and professional certification and are seeking to expand their areas of professional expertise. In support of this, a number of these courses are regularly available during evening hours.

#### Health Service Management

This course of study leads to the degrees Bachelor of Arts or Bachelor of Science in Health Management. For course descriptions and major requirements for the bachelor's degrees, refer to the Department of Business Management, Accounting, and Economic Studies listings in this catalog. Master's level study leading to the degrees Master of Health Service Administration and Master of Science in Health Management is also available. For information on graduate study, contact the Department of Business Management, Accounting and Economic Studies by mail. Graduate program descriptions will be included in the Summer 1987 supplement to this catalog.

**Health Education/Health Promotion**

This course of study leads to the degrees Bachelor of Arts or Bachelor of Science in Health Education/Health Promotion. For course descriptions and major requirements for the bachelor's degrees, refer to the Department of Health Ed/Physical Ed/Recreation/Athletics listings in this catalog. Master's level study leading to the degrees Master of Health Education and Master of Science in Health Education is also available. For information on graduate study, contact the Department of Health Ed/Physical Ed/Recreation/Athletics by mail. Graduate program descriptions will be included in the Summer 1987 supplement to this catalog.

**Nursing**

Whitworth College is a full consortium member of the Intercollegiate Center for Nursing Education in Spokane, and through ICNE offers the degrees Bachelor of Science in Nursing and Master of Nursing. For information on course description-sand major requirements, refer to the Department of Nursing listings in this catalog.

**Four-Year Degree with Preparation for Medical, Dental, Veterinary Medicine, Osteopathy, Optometry, and Podiatry Schools\***

This program will, in most cases, encompass the professional school entrance requirements for the types of professional schools listed above. The courses listed below *do not* constitute a "pre-professional major." Each student must complete a major in one of Whitworth's departments (usually, but certainly not restricted to, a major in biology, chemistry, or physics).

The following are required science courses:

BI 151	Bioscience	1.0
BI 152	Animal Biology	1.0
CH 161	Principles of Chemistry	1.0
CH 163	Bioorganic Chemistry	1.0
CH 271	Principles of Organic Chemistry	1.0
CH 273	Quantitative Concepts in Chemistry	1.0
CH 393	Synthetic Organic Chemistry	1.0
MA 110	Calculus I	1.0
MA 111	Calculus II	1.0
PS 151	General Physics I	1.0
PS 153	General Physics II	1.0

No Pass/No Credit grades in basic courses or those required by Professional School. Contact Dr. Donald Calbreath, Chemistry Department.

The above courses constitute the science requirement for admission to essentially all professional schools. The college pre-professional advisor (Dr. Calbreath) should be consulted to determine exact entrance requirements for a specific school. The advisor maintains a current collection of U.S. professional school and graduate school catalogs for student use.

Listed below are additional courses which may provide useful background training. Some are required by at least one medical school in Oregon, California or Washington (note: residents of Alaska, Idaho and Montana are eligible to seek admission to the University of Washington's professional schools). Students from other states are encouraged to discuss entrance requirements with the pre-professional advisor.

Additional courses:

BI 347	Advanced Microbiology	1.0
BI 350	Comparative Anatomy	1.0
BI 354***	Developmental Biology	1.0
BI 363**	Genetics (required for Veterinary school)	1.0
BI 412***	Biology of Cells	1.0
CH 401***	Advanced Biochemistry	1.0
CH 421***	Structure and Dynamics I	1.0
CH 422	Instrumental Analysis	1.0
CS 175***	Elementary Computer Programming	1.0
MA 356***	Elementary Probability and Statistics	1.0
NF 361	Nutrition	1.0
PS 251	General Physics III	1.0

(particularly Optics—covered on MCAT)

\*\*—Required by one or more professional schools in Washington, Oregon, or California.

\*\*\*—Recommended by one or more professional schools in Washington, Oregon, or California.

**PreMedical Technology\***

Two years at Whitworth, two years of specialized course work at an appropriate university. Specialized courses may be taken locally at other colleges or universities and transferred into a Whitworth degree program.

BI 151	Bioscience	1.0
BI 204	Microbiology	1.0
BI 220	Human Anatomy	1.0
BI 221	Human Physiology	1.0
CH 161	Principles of Chemistry	1.0
CH 163	Bioorganic Chemistry	1.0
CH 271	Principles of Organic Chemistry	1.0
CH 273	Quantitative Concepts in Chemistry	1.0
CH 393	Synthetic Organic Chemistry	1.0
CH 422	Instrumental Analysis	1.0
CS 175	Elementary Computer Programming	1.0
EL 110	Writing I	1.0
MA 110	Calculus I	1.0
PS 151	General Physics I	1.0
PS 153	General Physics II	1.0

Contact Dr. Donald Calbreath, Chemistry Department

**Preoccupational Therapy\***

Two years at Whitworth followed by professional schooling elsewhere. Whitworth courses taken must be tailored to meet professional school requirements. The courses detailed below are required by most professional programs.

One of the following:	1.0	
MA 109	Algebra and Trigonometry	
MA 110	Calculus I	
PS 151	General Physics I	1.0
PS 153	General Physics II	1.0
CH 161	Principles of Chemistry	1.0
CH 163	Bioorganic Chemistry	1.0
BI 220	Human Anatomy	1.0
BI 221	Human Physiology	1.0
EL 110	Writing I	1.0
PY 201	Principles of Psychology	1.0
PY 210	Developmental Psychology	1.0
SO 120	Social Reality	1.0

Contact Dr. Lee Anne Chaney, Biology Department

**Prephysical Therapy\***

Two years at Whitworth, then transfer to an accredited physical therapy program at another school.

Courses should be chosen to meet the requirements of the particular professional school. Those listed below are most frequently listed.

CH 161	Principles of Chemistry	1.0
CH 163	Bioorganic Chemistry	1.0
BI 204	Microbiology	1.0
BI 220	Human Anatomy	1.0
BI 221	Human Physiology	1.0
One of the following:	1.0	
MA 109	Algebra and Trigonometry	
MA 110	Calculus I	
PS 151	General Physics I	1.0
PS 153	General Physics II	1.0
EL 110	Writing I	1.0
PY 201	Principles of Psychology	1.0
PY 210	Developmental Psychology	1.0
SO 120	Social Reality	1.0

Contact Dr. Lee Anne Chaney

**Preidental Hygiene\***

Two years at Whitworth, then transfer to an accredited dental hygiene program.

BI 151	Bioscience	1.0
BI 204	Microbiology	1.0
BI 220	Human Anatomy	1.0
BI 221	Human Physiology	1.0
CH 161	Principles of Chemistry	1.0
CH 163	Bioorganic Chemistry	1.0
CH 271	Principles of Organic Chemistry	1.0
NF 361	Nutrition	1.0
EL 110	Writing I	1.0
PY 201	Principles of Psychology	1.0
SO 120	Social Reality	1.0
SP 113	Interpersonal Communication	1.0

Contact Dr. Lee Anne Chaney, Biology Department

**Prepharmacy\***

Two years at Whitworth, then transfer to a professional pharmacy school.

BI 151	Bioscience	1.0
BI 152	Animal Biology	1.0
BI 204	Microbiology	1.0
BI 220	Human Anatomy	1.0
CH 161	Principles of Chemistry	1.0
CH 163	Bioorganic Chemistry	1.0
CH 271	Principles of Organic Chemistry	1.0
CH 273	Quantitative Concepts in Chemistry	1.0
CH 393	Synthetic Organic Chemistry	1.0

One of the following:

MA 109	Algebra and Trigonometry	1.0
MA 110	Calculus I	1.0
PS 151	General Physics I	1.0
PS 153	General Physics II	1.0
EL 110	Writing I	1.0

Contact Dr. Robert Bocksch, Chemistry Department

\*-It is to be understood that completion of any of the above health career programs does not guarantee admission to professional school. It is essential that a student entering one of these programs contact the indicated advisor as soon as possible.

# CORE AND FORUM

**CORE**

The Core courses are inter-disciplinary, thematic courses to acquaint Whitworth students with the many historical forces which have shaped our patterns of thinking, defined our value commitments, and created the options of behavior open to us today.

**CO 150  
WESTERN CIVILIZATION I:  
THE JUDEO-CHRISTIAN  
TRADITION**

Full Course

Thematically organized foundational course in Western civilization. An interdisciplinary teaching team explores basic Judeo-Christian perspectives on such topics as human nature, creation-fall-renewal, living of modern life from a stance of faith. Fall, Spring.

**CO 250  
WESTERN CIVILIZATION II:  
THE RATIONALIST  
TRADITION**

Full Course

Origins, development of classical humanism and its challenges and meaning in the world today. Philosophy, literature, art and science in ancient Greece, the Middle Ages and the Renaissance, and their continuing impact. Twentieth century challenges to rationalism and humanism.

**CO 350  
WESTERN CIVILIZATION  
III: THE SCIENTIFIC  
TRADITION**

Full Course

**FORUM**

All full-time Whitworth students are enrolled in The Forum for academic credit each long term in which they are in residence. Forum brings together the entire campus community twice a week. By consciously relating the intellectual perspective to the particular subject matter, the college provides a model for the practical utility of college education. Forum is planned by a student/faculty committee related to the Chaplain's Office, and reflects broad implications of Christian theology, intersecting all aspects of contemporary experience.

**GE 101,102,201,202,301,302,  
401,402  
FORUM**

Quarter Courses

An all-college course providing opportunity for faculty and visiting lecturers to apply their disciplines and concepts to issues in our society and the world. Credit based on attendance at least half of scheduled Forums.



## INDIVIDUAL STUDY

The following courses are available in each department:

**191, 192, 291, 292, 391, 392, 491, 492, 591, 592**

### INDEPENDENT STUDY

Variable Credit

Special projects may be undertaken on a tutorial basis by well-qualified students. Department approval of proposals is based upon 1) demonstrated readiness of the student for working independently, 2) no regular course covers the project materials, and 3) a faculty member agrees to supervise the study. Submit proposals on department forms to the coordinator by registration day of a new term. Full course. Fall, January, Spring or Summer terms.

**180, 280, 380, 480**

### FIELD STUDY

Variable Credit

Off-campus exploration in a field

new to the student. Work experience combined with extensive observation.

**390, 490**

### INTERNSHIP

Variable Credit

Off-Campus experience for students with some professional background. Participation in the activities of the sponsoring organization.

**386, 486, 586**

### READINGS

Variable Credit

Evaluation of literature in the student's field of study.

**395, 495**

### TEACHING ASSISTANT

Variable Credit

Experience for advanced student to aid the faculty member in such areas as paper and test grading, discussion leadership, tutorial work, lecture or test planning.



## GRADUATE AND CONTINUING STUDIES

The Whitworth tradition extends to graduate study with programming in areas relevant to the improvement of the total human condition. Persons seeking to enter a professional position or who are currently employed in a wide variety of human service areas will find a program which suits their needs.

Whitworth College has an active program in Graduate Studies in Education. Both the Master of Education and the Master of Arts in Teaching degrees are available. These are in such areas as School Administration, Guidance and Counseling, Open-Emphasis, Reading, Special Education and Gifted and Talented. Refer to the degree requirements and course descriptions in this catalog.

Professional certification programs for educational personnel are available in specific areas. Also, Fifth Year Teaching Certification (Continuing Level) may be combined with a Master's degree by careful planning with graduate office personnel.

For further information of Fifth Year Certification or Graduate Studies in Education please call (509) 466-3228.

Additional graduate degrees include the master's-level work in the areas of Health Education/

Health Promotion and Health Management, and the Master of Nursing in conjunction with the Intercollegiate Center for Nursing Education.

Continuing Studies at Whitworth is the arm of the college which manages evening school, summer school, all extended programs, and continuing professional education.

For specific information on these programs, or to receive an Evening School Bulletin or Summer School Bulletin, contact the Office of Continuing Studies, Whitworth College.



# CAREER AND LIFE PLANNING/R.O.T.C.

Planning for your life after college is an important aspect of the years you spend in college. The choice of a career should flow out of the self understanding that develops as a result of the total college program. The Career and Life Planning program assists students in values clarification and in the setting of life goals so that they will know how they want to invest their lives. Career seminars, workshops, the Career Resource Center and the Placement Office help students plan for their future.

In addition to their liberal studies programs many students also pursue programs in a variety of pre-professional and pre-career fields (Pre-Law, Pre-Ministry, Pre-Medicine, many others). Please refer to the section of this catalog titled *Academic Degrees and Programs* for further information on these programs.

## ROTC/Military Science

Whitworth students may elect to spend several years as officers in the military service following graduation. The volunteer Army's new ROTC program for both men and women emphasizes a number of competencies required for military and civilian leadership and management roles. Students enrolled during the first two years of college have no military service obligation. At the end of the sophomore year,

students may apply for advanced study which provides a monthly stipend for the last two years and several options for fulfilling the military service obligation upon graduation. Academic courses taken in the ROTC program provide regular credit toward graduation.

The following courses are taught on a regular basis at Whitworth by members of the Military Science/ROTC program at Gonzaga University:

### MI 151, 152 WORLD MILITARY HISTORY

Full Courses

### MI 253, 254 INTERNATIONAL COMPETITION

Full Courses

In addition, students may enroll in MI 301, 302, 401, or 402, General Military Science, field courses taught on the Gonzaga campus.

For further information, contact Gonzaga University, Spokane, WA 99258.



## THE LIBRARY

Librarians: Hans Bynagle (Director), Doris Banks (sabbatical leave, Fall 1986), Virgil Dedas, Robert Lacerte (sabbatical leave, Fall 1987)

Whitworth's library plays a central and creative role in the educational program of the college.

Centrally located on the campus, with satellite units in the Science and Music buildings, the library provides a balanced collection of more than 110,000 books and periodical volumes plus some 45,000 volume-equivalents on microfilm. Records and other nonprint media are also available. Through its participation in cooperative programs, such as the computerized Western Library Network and the Council of Spokane Area Libraries, the library extends its own

resources by providing ready access to vast regional and national resources via interlibrary loan.

Crucial to the library's mission is its staff, which consistently provides friendly, professional service. Oversight of library operations and development of the collections are responsibilities of the library faculty, who combine scholarly credentials with training and experience in librarianship. They participate in the college teaching program by providing library instruction to classes, research assistance, and consultation on individual student and faculty projects, as well as teaching classes in their academic fields.

# FIELD STUDIES AND STUDY ABROAD PROGRAMS

## MULTICULTURAL/ FOREIGN FIELD STUDIES

Knowledge of a major world culture other than one's own is a major learning goal at Whitworth. The college's multicultural and foreign field study programs have been expanded to provide the best opportunity for students to live and learn in vastly different cultural settings. In these diverse courses involving travel, students acquire understandings which help to form their value systems, priorities, and commitments to serve a world in need. Participants, hopefully, return better prepared to live in an interdependent world.

Programs are for either individuals or groups and range in cost from no more than campus room and board to over \$3000 plus tuition in areas with a high cost of living. Official exchange programs of the college, such as with Hong Kong Baptist University, Keimyung University, Universidad Iberoamericana, Nanjing University(China) and Sheldon Jackson College, and domestic studies, such as those in San Francisco and Honolulu, are generally the least expensive.

At least one term each year, a group of Whitworth students

locate in a foreign country for three months and receive instructions from Whitworth faculty. The repeated pattern of these "mini-colleges" abroad include France, Central America, the British Isles, and Africa (in planning stage only). These programs generally include from 20 to 40 students and are limited to sophomores through graduate students. Applications are received one year in advance and students may be screened on the basis of maturity and adaptability to foreign environments. The schedule for these programs is as follows:

### Full Term Courses

#### British Isles

Courses: English Literature, History.

Highlights: Ireland homestays, and study of political crisis in that area (conditions permitting).

Years: 1987 (fall) and every other year thereafter

#### France

Courses: French Literature, History and Art, including intensive French prior to departure.

Highlights: Living in several French cities and French homestays.

Years: 1988 (spring) and every other year thereafter

#### Central America

Courses: Contemporary Mexican and Central American Problems, including full term briefing course and intensive Spanish prior to departure.

Highlights: Service internship and travel to Costa Rica, Guatemala, Nicaragua, and Mexico.

Years: 1987 (spring) and every other year thereafter

#### Africa

To be announced.

## EXCHANGES AND JUNIOR YEAR ABROAD OPPORTUNITIES

#### Hong Kong

Hong Kong Baptist University

Highlights: Excellent for study in sciences, business, international affairs, literature, sociology, communications. Optional study of Chinese language. Semester or full year; transportation extra.

Prerequisite: Asian culture course

#### South Korea

Keimyung University, Taegu

Highlights: Room and board usually exchanged for tutoring in English; most subjects may be studied by tutorial with bilingual professors.

Prerequisite: Asian culture course

#### China

Nanjing University, Nanjing

Highlights: Exchange students must have considerable Mandarin Chinese language ability; special room and board facilities. Transportation extra.

#### Mexico

Iberoamericana University, Mexico City

Highlights: Special program of study for international students. Semester or full year; transportation extra.

Prerequisite: Spanish language.

#### Japan

Shikoku Christian College (being planned)

Switzerland (French language exchange being planned)

#### Alaska

Sheldon Jackson College, Sitka

Highlights: Study of the Alaskan Indian; recommended especially for students in education, the fine arts and sociology.

Available anytime, although January Term preferred

#### Washington, D.C.

American Studies, Christian College Coalition

Highlights: Seminars with public policy focus, interviews with political leaders, internship; room and board, transportation extra.

Prerequisite: American government course.

## JANUARY TERM

The one month of January is a period which affords an even broader variety of shorter study tours led by Whitworth faculty. Besides courses offered in regular pattern there are usually several "one-of-a kind" experiences for student selection. Notice of these travel courses are made in late Spring or early Fall prior to the proposed January of travel. The repeated courses are as follows:

**San Francisco**

Courses: Psychology, literature, music, arts, recreation, orientation to urban culture, and church services.

Highlights: Annual opportunity to study diverse cultures within the city and attend symphonies, theatres and art galleries

**Hawaii**

Courses: Cross-cultural psychology, cross-cultural education, Asian Studies, Christian missions, Geology, Art.

Highlights: Field interviews with local resource persons

**Israel**

Opportunity to attend the Institute of Holy Land Studies in Jerusalem; transfer study credit available in Biblical Archaeology

**London**

Course: Theatre Study.

Highlights: Back stage interviews with performing artists. Alternate years (1988).

**Belize, Central America**

Course: Tropical Biology. Alternate years

Washington, D.C., and New York  
Course: Study of U.S. foreign policy decision making and the role of American government agencies on global affairs.

Alternate years (1987).

West Germany (to be announced)

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**SUMMER TERM PROGRAMS**


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**Greece**

Course: Study of Paul's writings to the Christian churches with travel to Greece and surround-

ing areas. Sociology or Religion credit.

**China, Japan, Hong Kong**

Course: Study of contemporary society by visits to university campuses.

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**INTERNSHIPS**


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A vital part of liberal arts education is the integration of classroom studies with working environments off campus. At Whitworth all students are encouraged to prepare for later employment through training in the professional community. The internship-field study placements are available in all departments of the college. Those departments requiring or strongly recommending internships are as follows: Art, Business/Economics, Communication, Education (Student Teaching), History/Political Studies, Math/Computer Science, Nutrition, Psychology, Recreation, Religion (preministry), Science and Sociology.

Through the internship/field study program students practice the job search process and build contacts for future employment. Oftentimes the intern is assigned special projects based on his/her goals. Sophomores or juniors who are exploring major interests through the community experience and who expect, therefore, largely to observe activities in a field should enroll in "Field Study". The "Internship" title is reserved for juniors and seniors who intend to apply considerable background in their discipline to active work in the practicum. Students generally are graded on the basis of pass/no credit with a faculty adviser's evaluation based on remarks by the student's field

supervisor and other reports such as journals or summary papers. Periodic and follow-up conferences with faculty advisers are required.

Internships may qualify for from one to three full courses of credit and may take place during any term of the school year. Fall or spring term interns are encouraged to find Spokane locations. January term has become the most popular time for internship placements, especially those in other cities and countries. Academic departments have internship information available and should be consulted first. The Field Education Office coordinates the placement program and provides extra guidance and counseling for students.

Whitworth College does not guarantee internship vacancies to any student applicant nor do internships typically provide a salary. Students should expect to apply through an interview process. A proposal form must be submitted to Field Education prior to the term of study.

International summer internships with stipends are available through the International Cooperative Education program of the Pacific Northwest International/Intercultural Education Association. These placements are in European countries and Japan.

Some examples of the most popular domestic internships are: United States Senator's Office; Legislative Internship; Keytronics; Amnesty International; Attorney General's Office, Spokane; Foster Care through the Department of Social and Health Services; Cheney Cowles Museum; International Trade Administration; ISC Corporation; Hewlett-Packard;

Peace and Justice Center; Public Defender's Office; Environmental Intern Program; Conservation Corps.

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**FIELD COURSES**


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Every year during January Whitworth offers course work for students in San Francisco. Besides providing an orientation to urban culture, the San Francisco program facilitates practicum experience in recreation and psychology. Courses may vary from year to year but generally include studies in church services, literature, music and the arts.

Diakonia, the summer Christian outreach of the campus, also provides a chance for students to receive academic credit for volunteer Christian service. Diakonia students are selected on the basis of aptitude for diverse needy projects in this country and abroad.

Another part of summer programming is wilderness study, adventurous treks to places as remote as the Arctic and the mountain ranges at Pakistan, as well as those near the campus. Wilderness study courses emphasize survival, flora and fauna research, photography, and mission service.

# ADMISSIONS

Whitworth encourages applications from students who seek a four year coeducational liberal arts education that combines academic rigor with a meaningful campus life program. Students are selected from those applicants who demonstrate by scholastic achievement, measured aptitude and other interests, their ability to function successfully in Whitworth's program.

No prescribed pattern of courses is required for entrance but the relative strength of your program is considered. We prefer applicants who have four years of English, three or more years of history and social science, two or more years of math, two or more years of science and two years of foreign language.

## PROCEDURES

### How to Apply for Admission

To help ensure that you have a positive educational experience, the application process has been designed to provide us with a means for evaluating your potential for academic success. It has been tailored on the basis of scholastic achievement, aptitude, leadership skills, and other crucial factors and interests. Please keep in mind that variations in the application procedure are for the purpose of providing admissions personnel with the information needed to assess your potential for success at Whitworth College.

### New Freshmen:

If your cumulative high school G.P.A. is 2.5 or higher AND your combined SAT score is at least 900 (WPCT - 1020; ACT - 21), admission to the college requires the completed application and \$25 fee, a completed high school evaluation and official transcript, and your SAT, WPCT, or ACT score. After a thorough evaluation of your completed application file, a decision will be made by the Admissions Committee. You will receive notification in accordance with the terms outlined below under "Acceptance and Notification."

Whitworth College recognizes that many talented students do not necessarily demonstrate a high G.P.A. or aptitude scores, but they have the potential to complete a liberal arts program successfully. Therefore, if your cumulative high school G.P.A. is below 2.5 OR your combined SAT score is less than 900 (WPCT - 1020; ACT - 21), admission to the college requires the completed application and \$25 fee, a completed high school evaluation and official transcript, and your SAT, WPCT, or ACT score. In addition, *please forward the Reference Form to two (2) persons of your choice who are knowledgeable about you and your personal and academic achievements.* After a preliminary evaluation of your completed file, an interview (in person or by phone) may be arranged with a college represen-

tative. The Admissions Committee will then make a decision regarding your admission to the college. You will receive notification in accordance with the terms outlined below under "Acceptance and Notification."

In summary, to apply for admission, take the following steps:

1. Complete the application.
2. If applicable, copy the Reference Form and mail one to each of your two personal references.
3. Attach a check in the amount of \$25 (made out to Whitworth College) to the completed application.
4. Leave the completed application and fee with your high school counselor.

### Transfer Students:

Transfer admissions are based on the following requirements:

1. If your cumulative G.P.A. in college course work is 2.5 or above, admission to the college requires the completed application, \$25 fee, and official copies of all college transcripts. A high school transcript is needed unless you have completed the equivalent of thirty (30) semester hours or forty-five (45) quarter hours.
2. Many talented transfer students do not necessarily demonstrate a high G.P.A., but they have the potential to complete a liberal arts program successfully. Therefore, if your cumulative G.P.A. in college course work is below 2.5, admission to the college requires the completed application, \$25 fee, official copies of all college transcripts, and two (2) letters of reference (copy the Reference Form and mail one to each of your two personal references). A high school transcript is needed

unless you have completed the equivalent of thirty (30) semester hours or forty-five (45) quarter hours.

3. Junior standing is guaranteed for applicants who have an approved associate degree from a Washington State community college.

4. Transfer applicants with one full year of college work need not complete the high school evaluation section of the application form, but should forward the application to the Office of Admissions, Whitworth College, Spokane, Washington 99251, and have the registrar of each college or university previously attended send an official transcript to the Office of Admissions. If you have not completed one full year of college work at the time of making application, please request a copy of your high school transcript to be sent to the Office of Admissions.

### International Students:

International students who are not citizens of the United States are encouraged to apply for admission to Whitworth College. If you would like to know more about the program, please call or write the Office of Admissions and request a copy of the brochure entitled "International Studies at Whitworth College." A formal application is included.

International student admissions are based on the following requirements:

1. The completed application and \$25 fee;
2. Results of the Test of English as a Foreign Language (TOEFL) Score Requirements: English Language Program—460-524, Regular Undergraduate Program—525 and above;

3. A Declaration and Certification of Finances or Government Scholarship Statement;

4. A copy of all academic transcripts (both in original language and a translation), including all records from colleges and universities attended.

5. A handwritten biographical statement.

### Evaluation

Each applicant's file is carefully reviewed before the Admissions Committee grants admission to the college. Grade point average, test scores, quality of written application, participation, leadership, motivation, and initiative in high school are viewed as a whole in the admissions decision process.

### Acceptance and Notification

Beginning no later than January 1, if your application file is complete (a completed file includes the completed application, the \$25 fee, a completed high school evaluation and official transcript, your SAT, WPCT, or ACT score, and letters of reference (if required), by the 15th day of any month, you will receive notification of an admissions decision by the 5th day of the following month. If your application file is complete by the 30th of any month, you will receive notification of an admissions decision by the 20th day of the following month.

**PROVISIONAL ADMISSIONS:** a few applicants are admitted on a provisional basis if the committee has evidence to support the candidate's potential for success. Information regarding this contractual program will be made available after notification of acceptance.

### HONORS ADMISSION:

Accepted applicants with a 3.5 G.P.A. and a combined SAT score of at least 1100 (WPCT - 1201; ACT - 26) are qualified to participate in Whitworth's Honors Program. Information regarding the program will be made available after notification of acceptance.

### ADVANCED PLACEMENT

Whitworth College is very supportive of the Advanced Placement Program of the College Entrance Examination Board (CEEB). Students admitted to Whitworth who have received scores of 3, 4, or 5 will be given 5 quarter hours of credit or more for each subject area, to a maximum of 45 quarter hours (sophomore standing). In addition, tests in some areas will also gain the student credit applicable toward a major and/or waiver of a general graduation requirement.

### READMISSION OF FORMER STUDENTS

Students who have attended Whitworth and subsequently have attended another college or university need to follow the Transfer Student application procedure above.

Students who have attended Whitworth, who have not subsequently attended another college or university, and who have been out of school for one or more terms, should contact the Office of Admissions to reapply for admission.

### PART-TIME STUDENTS

Students enrolled for less than 3 courses are considered part-time. In many instances, the part-time student classification serves the need of the Spokane community and can be on a credit or audit basis. Students seeking an undergraduate degree on a part-time basis (usually through courses taken in the evening) should contact the Office of Continuing Studies for information on degree options available and admissions procedures. Students interested in graduate degrees in Education (Master of Education, Master of Arts or Teaching) should contact the graduate office in this area for admission procedures, catalogues and financial information. Part-time students not seeking a degree from Whitworth are not required to complete the normal admissions process; they may register directly through the Registrar's Office.

### CAMPUS VISITS

Perhaps the best way to discover how a college might meet an individual's needs is through a campus visit. The Office of Admissions is open weekdays throughout the year, but campus visits are most valuable when classes are in session. Visits should not be planned during campus vacations (see the Academic Calendar). The college will provide one full day's board and room for prospective students who visit the campus. Please call the Office of Admissions toll-free *at least one week in advance* to arrange for a visit.

# FINANCIAL AID

Assistance in many different forms is available to help as many students as possible who want to attend Whitworth but who have inadequate financial resources.

## PROCEDURES:

### How to Apply:

1. Apply for admission to Whitworth College by completing the application in accordance with the steps outlined under HOW TO APPLY FOR ADMISSION.

2. No earlier than January 1, mail a completed Financial Aid Form to College Scholarship Service (Whitworth College account number: CSS4953), Berkeley, California, or to the address recommended by your high school counselor or college financial aid office.

### Evaluation:

As soon as you have applied and a report from the College Scholarship Service has been received (we will receive a report from CSS approximately 4 to 5 weeks after you have mailed the form), the Office of Financial Aid will determine your eligibility for scholarships, grants, loans, and work/study opportunities.

### Notification of financial aid offer:

If we act favorably on your application for admission and evaluate your financial need . . .  
 . . . prior to March 1, you will receive notification of an offer no later than March 10;

. . . after March 1, you will receive notification of an offer along with your formal notification of acceptance.

### Acceptance of financial aid offer:

If you receive a financial aid offer prior to April 15 and you wish to accept the offer . . .  
 . . . sign the office copy of the financial aid offer, forward the signed copy to the Financial Aid Office at Whitworth College, Spokane, Washington, 99251, no later than May 1, and retain the student copy for your records.

If you receive a financial aid offer after April 15 and you wish to accept the offer . . .

. . . sign the office copy of the financial aid offer, forward the signed copy to the Financial Aid Office at Whitworth College, Spokane, Washington, 99251, no later than the return due date shown on the offer, and retain the student copy for your records.

IF YOU HAVE ANY QUESTIONS, write to the Office of Admissions, Whitworth College, Spokane, Washington 99251. Or you can phone (509) 466-3212 or call toll free, (800) 532-4668 *inside* the state of Washington or (800) 533-4668 *outside* the state of Washington.

## TYPES OF FINANCIAL AID

### Need Grants

Included in this form of aid are federal Pell Grants, the Washington State Need Grant, the Federal Supplemental Education Opportunity Grant, and Whitworth College grants. Your eligibility for these grants is based on your need determination of the College Scholarship Service FAF. This is aid that does not need to be paid back, and the financial Aid Office will create the right combination of these grants for you.

### Talent Awards and Scholarships

Within the framework of financial need, these forms of aid are given to high achieving students. Talent awards are given to athletes and musicians. Other scholarships are given to students based on high school test scores, grades earned at Whitworth, involvement in school and civic activities, and other factors.

### Achievement Awards

These awards are given for significant academic achievement by students not eligible for other financial aid. The Presidential Scholarship is limited to students with a GPA of 3.75 and above.

### Loan Funds

These may be administered directly by the college or in cooperative arrangements with the government or other institutions. Many loans carry low interest rates and normally do not require that repayment begin prior to graduation. The repayment period is often extended to ten years.

## Employment

The Student Employment Office is a clearing house for both on-and off-campus jobs. Most part-time jobs are on campus where the work does not usually exceed 15 hours per week and \$1,600 of pay per school year. Whitworth participates in the College Work-Study Program, a federally financed program.

## Other Forms of Aid

The Presbyterian Church, U.S.A., provides several types of student financial aid through its church-related colleges. They include the following:

### 1. NATIONAL PRESBYTERIAN COLLEGE SCHOLARSHIPS.

Awards range up to \$2000 annually, depending upon need. Applications, obtained from the Admissions Office of the Board of Christian Education, must be filed in November of the student's senior year in high school.

2. SAMUEL ROBINSON SCHOLARSHIPS. \$500 each for students already enrolled who submit original essays and applications by April 1. Details are available from the college Religion Department.

3. MINISTERIAL SCHOLARSHIP. Whitworth offers an \$800 tuition discount to students who are dependent children of regularly ordained pastors employed by Christian churches and who maintain a grade point average of at least 2.50. To apply students should write to the Director of Financial Aid and include information concerning eligibility.

**SCHOLARSHIP FUNDS**

Alumni Association Scholarship Fund  
 C. W. Anderson Scholarship for Nutrition  
 Dave Barnes & Aubrey M. Leavitt Scholarship Fund  
 Alice J. Benque Scholarship Fund  
 Amos A. Bratrude Scholarship Fund  
 Ernest E. & Margaret Yenny Brown Memorial Scholarship Fund  
 Helen Grinnel Brown Music Scholarship Fund  
 Frank and Helen Burgess Scholarship Fund  
 Rev. & Mrs. Calhoun Senior Memorial Scholarship  
 Richard E. Campbell Memorial Scholarship Fund  
 Anna Jane Carrel Music Scholarship  
 Ben B. Cheney Foundation Scholarship Fund  
 Caroline Cooper Scholarship Fund  
 Glen and Dorothea Cotterel Scholarship for Foreign Students  
 William H. Cowles Memorial Scholarship Fund  
 Ethel Klein Culverwell Music Scholarship  
 Vere I. Snyder DeVoe Memorial Scholarship  
 Harry and Marjorie Dixon Scholarship Fund  
 Journalism Fund in Honor of Mrs. Dorothy Dixon  
 Gordon A. & Priscilla Duncan Memorial Scholarship  
 Annie Ester Durham Scholarship Fund  
 Nelson W. Durham Scholarship Fund  
 Glen Erickson Memorial Physics Scholarship Fund

Rev. and Mrs. Albert E. Evans Memorial Scholarship Fund  
 Flora Communications Award  
 M. S. Frimoth Scholarship Fund  
 Robert H. and Grace R. Gaines Scholarship Fund  
 Sara Lou Gammons Music Scholarship Fund  
 Rev. John Gordon Memorial Scholarship Fund  
 J. Wilson Gowdy Memorial Scholarship Fund  
 Gordon Stanley Grace Memorial Scholarship  
 Richard Gray Memorial Scholarship  
 Helen Grinnel Brown Music Scholarship Fund  
 Michael Hammack Memorial Scholarship for Chemistry  
 Hammond Memorial Scholarship Fund  
 Loyd M. Harder Memorial Scholarship Fund  
 William R. Hearst Scholarship Fund  
 Eileen Elizabeth Hendrick Memorial Scholarship Fund  
 Edward H. Hughes Memorial Scholarship  
 Hal J. and Mildred L. Hunt Memorial Scholarship Fund  
 William B. Hyde Memorial Scholarship Fund  
 ISC Systems Distinguished Achievement Computer Science Award  
 Indian Scholarship Fund  
 Ida B. Johnston Scholarship Fund  
 David L. Jones Memorial Scholarship Fund  
 Elizabeth Ann Joyner Scholarship Fund  
 Kaiser Aluminum & Chemical Scholarship  
 William Kay Memorial Scholarship Fund  
 Pearl H. King Scholarship Fund  
 Dorothy L. Kison Scholarship Fund

Charles F. Koehler Memorial Scholarship Fund  
 Gertrude Lindsey Memorial Scholarship Fund  
 Lillian Whitehouse Lyle Scholarship Fund  
 Manifold Scholarship Fund  
 Lucile G. Martin Memorial Scholarship Fund  
 Rev. J. Renwick McCullough Memorial Scholarship Fund  
 William and Annie McEachern Memorial Scholarship  
 Jack McEachran Memorial Scholarship Fund  
 William L. McEachran Scholarship  
 Mrs. James McKay Memorial Scholarship Fund  
 Mary L. Mentzer Scholarship Fund  
 Aimee E. Millhouse Scholarship for Young Men  
 Ministerial Scholarship  
 William Moir Scholarship Fund  
 Charles W. Muir Christian Education Scholarship Fund  
 National Presbyterian College Scholarships  
 Anna E. Neill Scholarship Fund  
 Jane Bagnall O'Brien Nursing Scholarship Fund  
 Mave C. Olds Scholarship Fund  
 Dorothy Myers Phillips Scholarship Fund  
 Lisa Plotkin Memorial Scholarship Fund  
 Harry G. Prescher Scholarship Fund  
 Mary E. Quackenbush Scholarship Fund  
 Reader's Digest Scholarship Fund  
 Howard Redmond Scholarship Fund  
 The Donald W. Reynolds Communications Scholarship  
 Rice Family Business Department Scholarship Fund  
 Samuel Robinson Scholarship  
 Susie Rose Scholarship Fund

Elma Ross Memorial Scholarship Fund  
 William J. Sanders Scholarship Fund  
 The Phillip Schwab Memorial Scholarship Fund  
 John E. and Etna Ezzard Sheridan Memorial Scholarship Fund  
 Florence Soden Memorial Scholarship Fund  
 John M. Soule Memorial Scholarship Fund  
 Grace A. Stayt Memorial Scholarship Fund  
 Beth Thomas Scholarship Fund  
 Ingwer W. Thomsen Scholarship Fund  
 William P. and Belle M. Ulrich Scholarship Fund  
 Jean Villars Memorial Music Fund  
 Arthur E. and Enola Loring Wake Scholarship Fund  
 Mary Elizabeth Waltz Memorial Scholarship Fund  
 George and Lyda Wasson Scholarship Fund  
 Winona Marjorie West Scholarship Fund  
 Ethel Fairfield White Scholarship Fund  
 Mabel C. Willson Memorial Scholarship Fund  
 Dale Wilson Memorial Scholarship Fund

**STUDENT LOAN FUNDS**

Mr. and Mrs. Franklin Armstrong Student Loan Fund  
 David Barnes Memorial Student Loan Fund  
 George N. Beard Student Loan Fund  
 Mary Katherine Crim Student Loan Fund  
 J. Wilson Gowdy Student Loan Fund

George T. Gregg Student Loan Fund  
 Frances Gilbert Hamblen Memorial Loan Fund  
 Jim and Kathy Edens Hancock Memorial Student Loan Fund  
 Mr. and Mrs. James Harrison Memorial Loan Fund  
 Helen Bishop Herbage Memorial Student Loan Fund  
 Elizabeth Hewitt Memorial Student Loan Fund  
 Judge & Mrs. W. C. Husband Memorial Loan Fund  
 Alma Jepson Memorial Student Loan Fund  
 Martin Luther King Student Loan Fund  
 Mr. and Mrs. Thomas A. Landreth Memorial Student Loan Fund  
 Manito Park United Presbyterian Church Student Loan Fund  
 Anne E. Marshall Student Loan Fund  
 Otis and Elizabeth Merritt Student Loan Fund  
 Dr. C. L. Mood and Bettie Mood Memorial Student Loan Fund  
 Lawrence F. Moore Revolving Loan Fund  
 Mrs. P. T. Myers Student Loan Fund  
 Earl Oatman Memorial Student Loan Fund  
 Jane Bagnall O'Brien Nursing Loan Fund  
 Vicker Rotary Memorial Student Loan  
 Bee Lawler Rhinehart Memorial Loan Fund  
 Hulda Munter Senske Student Loan Fund  
 Josie Shadle Student Loan Fund  
 Dorothy Sinnitt Memorial Loan Fund for Music  
 Stevens-Swanby Student Loan Fund

Sarah A. Stewart Memorial Student Loan Fund  
 Ingwer W. Thomsen Student Loan Fund  
 David and Emma Thorndike Memorial Student Loan Fund  
 R. L. Ubers, M.D., Student Loan Fund  
 Dr. L. N. Williams Memorial Student Loan Fund

## POLICIES AND REGULATIONS

**1. NORMAL FULL-TIME COURSE LOAD.** The normal load for full-time students is 3.25 to 4.75 courses in the Fall and Spring Terms, 1 to 1.25 courses in the January Term, and 1 course in the May Term. A student must average 9.5 courses per year to graduate in four years. Permission to enroll in more than the normal load must be approved in writing by the Registrar.

**2. CHANGES IN REGISTRATION.** Deadlines for dropping and adding classes are published in the annual time schedule. Late fees will be charged for any schedule changes after the fourth week of classes, or for registration after the first week of classes.

**3. CLASS STANDING** is determined as follows: Freshman - formally admitted to the college; Sophomore—8.5 courses completed; Junior—18 courses; Senior—27 courses.

**4. GRADES AND GRADE POINTS.** The following symbols are used: A (Superior—4 points); B (Good—3 points); C (Fair—2 points); D (Poor—1 point); F (Failure—0 points); V (Official Withdrawal, does not affect GPA); Y (Unofficial Withdrawal, usually given when student stops attending a class without dropping it, computed as an "F" in the GPA); I (Incomplete, to be made up by six weeks into the next Fall or Spring term); I/P (In Progress); CR

(Credit, given upon completion of a Credit/No Credit course, does not affect GPA); NC (No Credit, given for unsatisfactory work in a Credit/No Credit Course, or for a D or F under the Pass/No Credit grading option); P (Pass); X (Grade not submitted by instructor); U (Upper Division Credit); G (Graduate Credit).

**5. PASS/NO CREDIT GRADING OPTION.** Students may choose to take one P/NC for each year in residence at Whitworth, not more than one in a given term. Core courses, courses in the major or area of concentration, and Education courses are excluded from this option. In addition to the limitations listed above, students may elect to take PE activity courses Pass/No Credit.

**6. GRADUATION HONORS** are: Cum Laude (3.50 gpa), Magna Cum Laude (3.75), Summa Cum Laude (3.90), based on at least 18 full courses taken at Whitworth. Transfer grades are not included in honors computation.

**7. ACADEMIC PROBATION/SUSPENSION.** Students are placed on probation at the end of any term in which their grade point average falls below 1.75 or their cumulative grade point average falls below 2.00 (1.75 for freshmen). Students continue on probation until their



cumulative grade point average reaches the minimum 2.00 standard.

Students may be suspended at the end of any term in which their grade point average falls below 1.00 or, if after being placed on probation, they fail to earn at least a 2.00 grade point average for the succeeding term.

If there are mitigating reasons for unsatisfactory progress that results in suspension, students may appeal in writing to the Academic Review Committee through the Office of the Registrar.

**FINANCIAL AID PROBATION/SUSPENSION.** In addition to meeting the GPA standards noted above, a student on financial aid as a full-time student must maintain satisfactory progress toward a degree based on a maximum of 5½ years to complete. The *minimum* course completion requirements for *full-time* students will be as follows: 1st year—7.25 courses; 2nd year—14.5 courses; 3rd year—21.75 courses; 4th year—29 courses; 5th—36.25 courses. Students failing to complete these minimums will be placed on financial aid probation and will not be eligible for some forms of aid. If after one term on financial aid probation a student's situation is not improved he/she may be placed in the status of financial aid suspension and *will not be eligible for any aid.*

Students desiring a review of their financial aid status must apply in writing to the Financial Aid Review Committee.

**8. ACADEMIC GRIEVANCES.** It is assumed that most grievances will be resolved in conversation between student

and professor or within the department involved. However, in cases where resolution is not so easily achieved, the procedures are: a) The student must first seek resolution of the conflict in consultation with the professor. The Vice President for Academic Affairs will assure that this initial exchange has taken place. b) If a satisfactory resolution is not possible in the first phase, the student may appeal in writing to the Vice President for Academic Affairs for adjudication in the matter.

**9. REQUIREMENTS FOR A SECOND DEGREE.** Whitworth graduates may obtain a second baccalaureate degree on completion of major requirements and a total of 45 courses, at least five of which must be taken after receiving the first degree.

Graduates of another institution must meet major requirements, the 8.5 course residency requirement, the general college requirements, and must receive their degree in a different field than the first degree.

**10. ACCEPTANCE OF TRANSFER CREDITS.** A maximum of 95 quarter hours (63 semester hours) may be transferred from a two-year college. Vocational-technical courses, noncollege-level courses, and incomplete courses are not transferable. Credit from Bible schools and nonaccredited colleges are evaluated on a course-by-course basis.

Effective Spring 1985, transfer students from Washington community colleges who have earned a Transfer Associate degree as defined by the Washington Inter-College Relations Commission, will be granted junior standing

(95 quarter hours) and waiver of all General Graduation Requirements, with the following exceptions: (1) Core 250, (2) Biblical Literature, (3) Foreign Language. If the foreign language requirement has been fulfilled based on high school course work, this will need to be substantiated by an official high school transcript.

**11. ALTERNATIVE COURSE CREDITS.** A maximum of nine courses (45 quarter hours, 30 semester hours) of alternative credits may be counted toward graduation. This includes CLEP and Advanced Placement credit, course challenge examinations, credit based on completion of advanced work, extension and correspondence credits and credit for military service and schools. Contact the Registrar for further information.

**12. CLEP/ADVANCED PLACEMENT.** Whitworth grants academic credit for sufficiently high scores on CLEP General and selected CLEP Subject Examinations. These cutoff scores are listed on the CEEB publication, "College Placement and Credit by Examination", available at most high schools and colleges, or may be gotten by contacting the Registrar's Office.

Whitworth is an active participant in the Advanced Placement program. Any score of 3 or above on an AP test, will give a student at least 5 quarter hours of Whitworth credit, and in many cases will also satisfy a General Graduation Requirement and/or requirement for an academic major. It is possible for a high school graduate to enter Whitworth College with *sophomore standing* based on AP course work.

**13. APPLICATION FOR GRADUATION.** Before beginning the senior year, the student applies for the specific degree desired and the Registrar's Office prepares a checklist for the final year's course planning.

**14. DOUBLE MAJORS.** A student may graduate with more than one major if all requirements are met for each major involved. There is no limitation on course overlaps between two declared majors.

**15. SECOND FIELD.** A student may choose a second teaching field in preparation for secondary level teacher certification. Particulars are noted in separate departmental listings.

**16. CHANGES IN ACADEMIC PROGRAM.** Students may elect to change their major, area of concentration, or second field, but are advised to evaluate possible increases in the length of time required to graduate. Any changes of program must be requested in writing at the Registrar's Office.

**17. VETERANS.** Whitworth College is an approved institution of higher education by the Council for Post-Secondary Education for veteran training. The college is committed to upholding and complying with the intent of VA regulations. Benefit recipients must meet satisfactory progress standards in order to continue receiving benefits for study. Standards are basically the same for VA benefit recipients as for other students. Records which permit monitoring of progress are kept in the Registrar's Office.

Termination of benefits will be initiated upon receipt of a withdrawal card or notification by an

instructor that a student is not attending class. It is the responsibility of the benefit recipient to submit a withdrawal card to the Registrar immediately upon stopping attendance in any course.

**18. EQUAL OPPORTUNITY POLICY.** It is the policy of Whitworth College to provide equal educational and employment opportunity for all students and employees regardless of race, color, national origin, sex, age, or handicap. The policy also extends to the consideration of religious preference provided, however, that the college reserves the right to hire only Christians in positions which the college considers necessary in achieving its educational and religious goals. The college is subject to the requirements of non-discrimination contained in the following Federal Legislation: Title VI of the Civil Rights Act of 1964, Title IX of the Educational Amendments of 1972, Sections 799A and 845 of the Public Health Service Act, Section 504 of the Rehabilitation Act of 1973 as amended, and the Age Discrimination in Employment Act. Questions should be directed to the Equal Opportunity Officer, Office of the President of Whitworth College.

**19. CONDUCT REGULATIONS.** As you become a member of the resident community, you will complete a residence contract which, among other things, includes an affirmation that you are aware of—and agree to abide by—the policies of Whitworth College. Three primary guidelines govern campus life at Whitworth:

1. Possession or consumption of alcoholic beverages is not allowed in campus.
2. Possession or consumption (use) of illegal drugs is not permitted on campus.
3. Cohabitation is not allowed on campus.

These policies are based on a number of considerations which the campus community has determined are essential for the quality of life desired at a Christian liberal arts college.

## STUDENT LIFE PROGRAM

You come to Whitworth College for an education. You come, not just to be taught, but to learn. As a learner you recognize that your education is not limited to classroom or formal educational activities. Whitworth recognizes that too! The Student Life Program is the college's validation of a whole range of learning you will experience here. It is our intent that your learning be productive. We know that increased learning increases your sense of satisfaction as well as your ability to both adapt to change and create change.

Exactly what does this "other" learning look like and how does it happen? It started when you applied to Whitworth. You began to distinguish the Whitworth educational product from your other options. It gets reinforced during new student orientation, when you meet your roommate, experience your first illness away from home, locate a part-time job, learn to manage your time well, apply for a student leadership position, run for student body office, become financially responsible for your educational indebtedness, initiate a new relationship, learn how to write a resume, attend a Bible study, explore career alternatives, plan a dance or a wilderness trip or being confronted on a policy violation. The list is virtually endless. To a large extent you will

determine both the range and depth of what can be learned here. You can count on the fact that change will occur in your life.

So the content of your education outside the classroom includes value development, decision making, creative adaptability, leadership, and problem solving. Obviously many of these same content areas will be addressed in your classes. The important point is that there is a linkage between what is learned in the class and outside the class. The result is a much stronger and coherent education. And you are the one who benefits.

The educational methods of the Student Life Program are primarily relational and programmatic rather than didactic. Within the department we have competent counselors, career advisors, study skills specialists, health educators, student activities advisors, chaplains, minority student advisors and international student advisors. Through counseling and special program development these people meet student needs and facilitate students' growth.

Get acquainted with the people and programs of Student Life. Learn where they are located on campus. The following offices are included in the Student Life Program: Student Activities (Hardwick Union Building), Health

Services and personal counseling (Schumacher Health Center), The Chaplain's Office (Seeley Mudd Chapel), Residence Life, Career Services, Minority Student Affairs, International Student Affairs, Student Employment, Study Skills, Tutoring, Testing, and Disabled Student Services (Student Life Center).

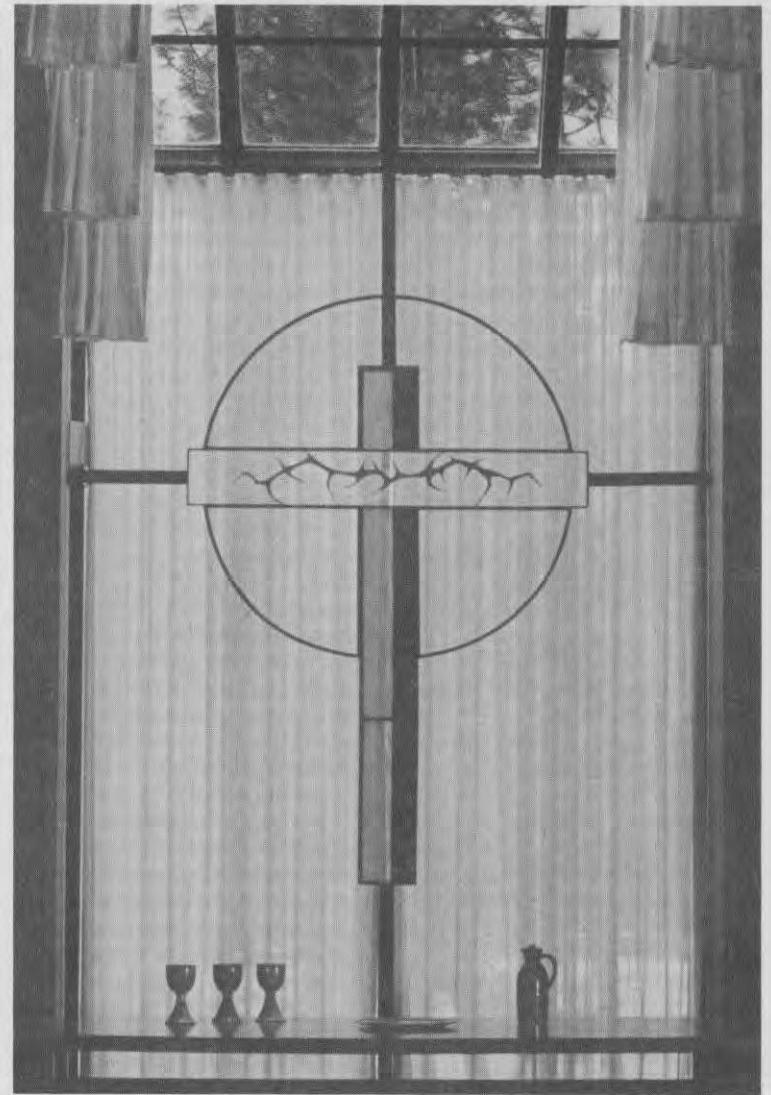
## THE CHAPLAINS' OFFICE PROGRAM

Christian communities come in many shapes and sizes. Whitworth's mandate is to be a liberal arts residential college where freedom and diversity accompany an enthusiastic commitment to Jesus Christ. As a college community we seek to affirm by thoughtful inquiry and responsible action the biblical and historic faith.

It is the special responsibility of the Chaplains' Office to provide nurture, worship, and service opportunities which deepen the faith commitment of the Christian community at Whitworth. Sunday Campus Worship, Compline (evening prayer), and Midweek Worship draw together students, faculty, and staff. Resident Chaplains, students who are involved in leadership development, lead bible study and fellowship groups in each resident hall. The Fall Weekend and other specialized conferences occur throughout the year. The Youth Training pro-

gram, Focus Days, Staley Lecture, The Hunger Task Force, World Mission Concern, and the Peace Action Coalition are among the numerous activities available to students. The linking of personal faith with concern for the larger world is one of the most important syntheses occurring in the college years at Whitworth. For example, each summer, students go out under the Diakonia program to serve in places like New York City with the Missionaries of Charity, the Cameron House in San Francisco, The Voice of Calvary Ministries in Jackson, Mississippi, or reconciliation ministry in Northern Ireland.

The opportunities offered by the Chaplains' Office are open to all students at Whitworth. No student is asked to assent to a theological or ethical creed, but all who come here should know of Whitworth's own commitment to the Christian faith. Not all students come or leave with this



commitment as their own, but we believe that every student should have an opportunity to seriously consider the Christian faith during his or her college years. For students who stand within the Christian community, college here can be years when faith is

broadened and deepened.

We believe that Whitworth's commitment to Christ provides a cornerstone for a liberal studies education, an ideal preparation for responsible competent leadership.

# ATHLETICS

Varsity and intramural athletics and club sports are also an important part of student activities on campus. Across the years college teams have won their share of championships and provided entertainment for thousands of fans. But even more important than the winning tradition and the excitement of competition is the way in which a student's participation in a sport builds maturity.

The college is represented by eight varsity men's teams as a member of the Evergreen Conference. Men's varsity sports are football, basketball, baseball, cross country, swimming, tennis, soccer, and track and field.

Whitworth women compete in six varsity sports: basketball, cross country, volleyball, swimming, tennis, and track and field.

Men's and women's sports are affiliated with the National Association for Intercollegiate Athletics (NAIA).

The athletic philosophy is reflected in the following statement (May 1981):

"The philosophy of the Whitworth College athletic program must in every sense reflect and promote the Christian educational mission of the institution.

Striving for excellence in all endeavors, while providing equal competitive opportunities for both men and women should be characteristic of the programs. However, while emphasizing excellence there must be a deter-

mination to remain within the financial boundaries articulated by the college administration. The recruitment of quality student-athletes who can enthusiastically support the mission of both the athletic program and the college must be an important goal, and each student-athlete should be strongly encouraged to become an integrated part of the total campus experience: spiritually, academically, and socially.

To augment the intercollegiate athletic program it is necessary to provide for a strong, well-funded intramural program geared toward lifetime sports and high student participation. In addition, by expanding the role of club sports the total athletic program can more effectively include the larger student population.

It is important to provide the athletic program with highly competent professional coaches who can model the Christian mission of the college during the process of offering teaching and coaching excellence. At the same time, the integrity must exist to adequately fund all programs so that once they have been launched, each head coach or director has the opportunity to develop and maintain a strong quality effort."

# FACULTY

**Robert H. Mounce**, Ph.D.,  
University of Aberdeen  
(Scotland), Th.M., B.A., Fuller  
Theological Seminary, B.A.,  
University of Washington,  
*President* (1981)

**Jean P. Anderson**, Ph.D.,  
University of Minnesota, M.A.,  
Northwestern University, B.S.,  
Wheaton College,  
*Associate Professor of Physical  
Education* (1973)

**Julia M. Anderton**, Ph.D.,  
University of Southern  
California, M.A., Seattle Pacific  
University, B.A., University of  
Tennessee,  
*Associate Professor of Human  
Development* (1983)

**Lewis F. Archer**, Ph.D.,  
Drew University, B.D., Pacific  
School of Religion, B.A.,  
University of Denver,  
*Professor of English* (1968)

**Deane E. Arganbright**, Ph.D.,  
M.A., University of  
Washington, B.S., Bowling  
Green State University,  
*Professor of Mathematics and  
Computer Science* (1977)

**Forrest E. Baird**, Ph.D.,  
M.A., Claremont Graduate  
School and University Center,  
M. Div., Fuller Theological  
Seminary, B.A., Westmont  
College,  
*Associate Professor of  
Philosophy* (1981)

**Doris H. Banks**, M.A.,  
University of Southern  
California, M.S., Syracuse  
University, B.S., SUNY-  
Geneseo,  
*Associate Professor, Library*  
(1979)

**Claudia Biermann**, M.B.A.,  
University of Puget Sound,  
B.A., University of  
Washington,  
*Assistant Professor of Business*  
(1985)

**Laura J. Bloxham**, Ph.D.,  
M.A., Washington State  
University, B.A., Whitworth  
College,  
*Professor of English* (1975)

**Victor Bobb**, Ph.D.,  
D.A., M.A., University of  
Oregon, B.A., Washington  
State University,  
*Associate Professor of English*  
(1986)

**Robert D. Bocksch**, Ph.D.,  
University of Wisconsin, B.S.,  
Wayne State University,  
*Professor of Chemistry* (1958)

**F. Dale Bruner**, Ph.D.  
University of Hamburg,  
M. Div., Princeton Theological  
Seminary, B.A., Occidental  
College,  
*Professor of Religion* (1975)

**Hans E. Bynagle**, Ph.D.,  
Columbia University, M.L.S.,  
Kent State University, A.B.,  
Calvin College,  
*Associate Professor, Director of  
Library* (1983)

**Donald F. Calbreath**, Ph.D.,  
M.S., Ohio State University,  
B.S., North Texas State  
University,  
*Assistant Professor of  
Chemistry* (1984)

**Lee Anne Chaney**, Ph.D.,  
University of New Hampshire,  
M.A., University of Arkansas,  
B.S., Beloit College,  
*Associate Professor of Biology*  
(1980)

**Thelma Cleveland**, Ph.D.,  
M.N., University of  
Washington,  
B.S.N., University of Illinois  
*Associate Professor of Nursing,  
Dean of the Intercollegiate  
Center for Nursing Education*  
(1970)

**A. Ross Cutter**, Ed.D.,  
University of California  
Berkeley, M.A., University of  
the Pacific, A.B., University of  
California,  
*Professor of Physical  
Education and Recreation*  
(1964)

**Virgil A. Dedas**, Ph.D.,  
University of Kentucky, M.A.,  
University of North Carolina,  
B.A., Wofford College,  
*Associate Professor, Library*  
(1979)

**Michael E. DeGolyer**, Ph.D.,  
The Claremont Graduate  
School, B.S., Stetson  
University,  
*Assistant Professor of History*  
(1984)

**Kay DeRoos**, Ph.D.,  
M.P.H., M.A., University of  
Minnesota, B.A., Concordia  
College (Moorhead),  
*Assistant Professor of Health  
Education/Promotion* (1985)

**Randi V. Ellefson**, D.M.A.  
Candidate, Arizona State  
University, M.F.A., University  
of Minnesota, B.A., Texas  
Lutheran College,  
*Assistant Professor of Music*  
(1984)

**Richard V. Evans**, D.M.A.,  
M. Mus., University of Oregon,  
B.Mus. Ed., Wheaton College,  
*Professor of Music* (1973)

**Martin B. Faber**, Ed.D.,  
M.A., University of Wyoming,  
B.S., Whitworth College,  
*Associate Professor of  
Education* (1972)

**Nancy Fox**, M.Div.,  
Fuller Theological Seminary,  
B.A., Colorado College,  
*Associate Chaplain* (1984)

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*Associate Chaplain* (1984)

**Leslie J. Francis**, Ed.D.,  
University of Northern  
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Washington State College,  
*Assistant Professor of  
Education* (1984)

**Ronald G. Frase**, Ph.D.,  
M.Th., Princeton Theological  
Seminary, B.Div., Fuller  
Theological Seminary, B.S.,  
Wheaton College,  
*Chaplain* (1973)

**Warren D. Friedrichs**, Ph.D.,  
University of Oregon, M.S.,  
Eastern Michigan University,  
B.S., Concordia Teachers  
College,  
*Assistant Professor of Physical  
Education* (1985)

**Delbert R. Friesen**, Ph.D.,  
University of Colorado, A.B.,  
Bethel College (Kansas),  
*Assistant Professor of Physics*  
(1985)

**Howard R. Gage**, Ph.D.,  
M.S., University of Oregon,  
B.S., Whitworth College,  
*Professor of Mathematics and  
Computer Science* (1969)

**Walter B. Grosvenor**, M.A.T.,  
University of Washington,  
B.A., Whitworth College,  
*Associate Professor of Art*  
(1968)

**Darrell L. Guder**, Ph.D.,  
University of Hamburg,  
*Associate Professor of  
Theology, Vice President for  
Academic Affairs and Dean of  
the Faculty* (1985)

**Pierrette C. Gustafson**,  
M.A.A.B.S., Whitworth  
College, Baccalaureate,  
Nice, France,  
*Associate Professor of Modern  
Languages* (1963)

**Rodney T. Hansen**, Ph.D.,  
Washington State University,  
M.A., University of  
Washington, B.S.,  
Whitworth College,  
*Professor of Mathematics and  
Computer Science* (1981)

**David L. Hicks**, Ph.D.,  
M.S., University of Georgia,  
B.A., Cascade College,  
*Professor of Biology* (1967)

**M. Richard Hornor**, M.A.,  
Washington State University,  
B.A., Whitworth College,  
*Instructor in Theatre Arts*  
(1985)

**Frank E. Houser**, Ph.D.,  
M.A., Columbia University,  
B.A., Houghton College,  
*Professor of Sociology* (1959)

**James B. Hunt**, Ph.D.,  
M.A., B.A., University of  
Washington,  
*Professor of History* (1973)

**Gordon S. Jackson**, Ph.D.,  
Indiana University, M.A.,  
Wheaton College, B.A.,  
University of Cape Town  
(South Africa),  
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Communication Studies* (1983)

**William L. Johnson**, Ph.D.,  
M.A., University of Oregon,  
B.S., Whitworth College,  
*Professor of Psychology* (1968)

**Gerald G. Kendall, Jr.**,  
M.B.A., St. Mary's College,  
B.A., San Francisco State  
College,  
*Assistant Professor of Business  
Management* (1984)

**Lois M. Kieffaber**, Ph.D.,  
The University of New Mexico,  
M.S., Columbia University,  
B.A., Manchester College,  
*Associate Professor of Physics*  
(1984)

**Thomas G. Kirkpatrick**, Ph.D.,  
University of Washington,  
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Theological Seminary, M.Div.,  
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Oregon,  
*Associate Professor of  
Communication Studies* (1980)

**Edward C. Korntved**, M.S.,  
Western Kentucky University,  
B.S., University of Wisconsin,  
*Instructor in Mathematics and  
Computer Science* (1984)

**Robert K. Lacerte**, Ph.D.,  
M.S.L.S., M.A., Case Western  
Reserve University, B.A.,  
Merrimack College,  
*Associate Professor, Library*  
(1978)

**Kathryn A. Lee**, Ph.D.  
Candidate, M.A., The John  
Hopkins University, B.A.,  
Wake Forest University,  
*Assistant Professor of Political  
Studies* (1984)

- Donald H. Liebert**, Ph.D.,  
Princeton Theological  
Seminary, M. Div., Fuller  
Theological Seminary, B.A.,  
Wheaton College,  
*Professor of Sociology* (1973)
- Doris K. Liebert**, M.Ed.,  
Whitworth College, B.A.,  
Seattle Pacific College,  
*Assistant Professor of  
Education, Director of Student  
Teaching* (1983)
- Patricia A. MacDonald**, Ph.D.,  
M.A., University of Rochester,  
B.A., University of  
Washington,  
*Professor of Psychology* (1955)
- Betty J. Malmstad**, Ed.D.,  
University of Houston, M.A.,  
University of Denver, B.A.,  
University of Montana,  
*Associate Professor of  
Education, Director of  
Graduate Studies in Education*  
(1980)
- Diana C. Marks**, M.Ed.,  
Whitworth College, B.A.,  
Wheaton College,  
*Associate Professor of  
Physical Education* (1956)
- Charles W. McKinney**, Ph.D.,  
Washington State University,  
M.S., Southern Oregon State  
College, B.S., Oregon State  
University,  
*Associate Professor Of  
Business and Management*  
(1985)
- Scott McQuilkin**, B.A.,  
Whitworth College,  
*Instructor in Physical  
Education* (1985)
- Paul J. Merkel**, M.Ed.,  
B.A., Whitworth College,  
*Associate Professor of  
Physical Education* (1954)
- Christine Meyer**, M.Ed.,  
University of Idaho, B.A.,  
Eastern Washington  
University,  
*Assistant Professor of  
Education* (1984)
- Randall B. Michaelis**, M.Ed.,  
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Whitworth College,  
*Assistant Professor of  
Education, Director of  
Computer Education* (1985)
- Arlin C. Migliazzo**, Ph.D.,  
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M.A., Northern Arizona  
University, B.A.,  
Biola University,  
*Assistant Professor of History*  
(1983)
- Edward Miller, Jr.**, Ph.D.,  
Candidate, M.A., Indiana  
University, B.A., Western  
Washington State College,  
*Assistant Professor of Spanish*  
(1984)
- Roger Mohrlang**, D.Phil.,  
Oxford University, M.A., Fuller  
Theological Seminary, B.S.,  
Carnegie Institute of  
Technology,  
*Associate Professor of Religion*  
(1978)
- Martha A. Nelson**, M.Sc.,  
Texas A & M University, B.Sc.,  
Seattle Pacific University,  
*Instructor of Mathematics and  
Computer Science* (1984)
- Leonard A. Oakland**, Ph.D.,  
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M.A., University of California-  
Berkeley, B.A., Westmont  
College,  
*Associate Professor of English*  
(1966)
- Edwin A. Olson**, Ph.D.,  
Columbia University, M.S.,  
B.S., University of Pittsburgh,  
*Professor of Physics and  
Geology* (1960)
- Sydney Peterson-Kennedy**,  
Ph.D., M.S., Northwestern  
University, B.S., Georgetown  
University,  
*Assistant Professor of  
Chemistry* (1985)
- Howard A. Redmond**, Ph.D.,  
M.A., University of Southern  
California, B.D., Princeton  
Theological Seminary, A.B.,  
University of California at  
Los Angeles,  
*Professor of Religion and  
Philosophy* (1957)
- Tammy R. Reid**, Ph.D.,  
Washington State University,  
M.A., Eastern Washington  
University, B.A.,  
Whitworth College,  
*Associate Professor of  
Education* (1971)
- Shirley S. Richner**, Ph.D.,  
University of Idaho, M.Ed.,  
Whitworth College, B. Mus.,  
University of Texas-El Paso,  
*Professor of Education and  
Music* (1976)
- Rita A. Rogers**,  
*Instructor in Dance* (1985)
- George A. Ross**, M.A.,  
University of Washington,  
B.A., University of Manitoba,  
*Associate Professor of Music*  
(1965)
- Terri K. Sanders**, M.S.,  
Oregon State University, B.A.,  
Lewis and Clark College,  
*Assistant Professor of Nutrition*  
(1984)
- Daniel C. Sanford**, Ph.D.,  
M.A., University of Denver,  
B.A., Whitworth College,  
*Professor of Political Studies,  
Associate Dean for Academic  
Affairs* (1970)
- Carlos L. Solera**, Ph.D.,  
Iowa State University, B.S.,  
University of Costa Rica,  
*Associate Professor of  
Economics* (1984)
- Donald E. Spencer**, Ed.D.,  
Western Michigan University,  
M.A., University of Iowa, B.S.,  
University of Minnesota,  
*Associate Professor of  
Education, Director of  
Continuing Studies* (1982)
- Howard M. Stien**, Ph.D.,  
University of Wyoming,  
M.Ed., Macalester College,  
B.A., Northwestern College,  
*Professor of Biology* (1965)
- Pat Stien**, M.A.T.,  
Whitworth College, B.A.,  
Wheaton College,  
*Associate Professor of Theatre  
Arts* (1966)
- Kathleen Harrell Storm**,  
Ph.D., M.A., Fuller Theological  
Seminary, M.S., Indiana  
University, B.A., Wheaton  
College,  
*Associate Professor of  
Psychology* (1982)
- Raja S. Tanas**, Ph.D.,  
Michigan State University,  
M.A., B.A., American  
University of Beirut  
(Lebanon),  
*Associate Professor of  
Sociology* (1983)
- Thomas T. Tavener**, D.M.A.,  
M.A., B.A., University  
of Washington,  
*Professor of Music* (1959)

**Craig L. Thomas**, Ph.D.,  
Candidate, A.M., Harvard  
University, B.A., Washington  
State University,  
*Assistant Professor of English*  
(1983)

**Mardis Thoreson**, M.F.A.,  
Washington State University,  
M.T., Montana State  
University,  
*Assistant Professor of Art*

**Robert A. Wauzzinski**, Ph.D.,  
University of Pittsburgh,  
M.Div., Pittsburgh Theological  
Seminary, B.S., Clarion State  
College,  
*Associate Professor, Edward  
B. Lindaman Chair of  
Communications, Technology  
and Change* (1986)

**George E. Weber**, Ed.D.,  
Gonzaga University, M.B.A.,  
Harvard University, B.A.,  
Whitworth College,  
*Associate Professor of  
Business and Economics*  
(1965)

**Gordon R. Wilson**, M.F.A.,  
Fort Wright College, B.S.,  
Portland State University,  
*Associate Professor of Art*  
(1979)

**Janet Yoder**, M.A.,  
University of Illinois, B.A.  
Goshen College,  
*Instructor in English* (1984)

**John C. Yoder**, Ph.D.,  
Northwestern University,  
M. Div., Mennonite Biblical  
Seminary, B.A.,  
Goshen College,  
*Associate Professor of Political  
Studies* (1980)

**Michael E. Young**, M.A.,  
B.A., University of  
Washington,  
*Associate Professor of Music*  
(1976)

#### PART-TIME INSTRUCTORS

**Karen Dalton**, M.A.A.B.S.,  
Whitworth College,  
*Instructor in Communication  
Studies*

**Barbara E. Filo**, M.A.T.,  
Whitworth College,  
*Instructor in Art*

**Linda Lawrence Hunt**,  
M.A.T.,  
Whitworth College,  
*Instructor in English*

**Margo S. Long**, M.A.T.,  
B.A., Whitworth College,  
*Assistant Professor of  
Education*

**Robert M. McCroskey**, M.S.,  
University of Missouri,  
*Associate Professor of  
Mathematics and Computer  
Science*

**Ronald Prosser**, Ed.D.,  
University of Arizona,  
*Instructor in Graduate Studies  
in Education*

**Mark G. Simmer**, B.S.,  
Willamette University,  
*Instructor in Communication  
Studies*

#### EMERITI

**Estella E. Baldwin**, M.A.,  
Whitworth College,  
*Registrar Emeritus* (1931-1968)

**John A. Carlson**, M.S.,  
University of Washington,  
*Professor Emeritus of  
Mathematics* (1935-1971)

**Anna J. Carrell**, M.M.,  
A.A.G.O., Cincinnati  
Conservatory of Music,  
*Professor Emeritus of Music*  
(1937-1964)

**Homer F. Cunningham**, Ph.D.,  
New York University,  
*Professor Emeritus of History*  
(1955-1981)

**Harry Dixon**, Ph.D.,  
University of Illinois,  
*Professor Emeritus of Business  
and Economics* (1960-1984)

**R. Fenton Duvall**, Ph.D.,  
University of Pennsylvania,  
*Professor Emeritus of History*  
(1949-1981)

**Ernestine Evans**, M.A.,  
Washington State College,  
*Associate Professor Emeritus  
of Business Education*  
(1941-1971)

**Alfred O. Gray**, M.A.,  
University of Wisconsin,  
*Professor Emeritus of  
Journalism* (1946-1980)

**Nicolin P. Gray**, M.S.,  
University of Washington,  
*Professor Emeritus of Biology*  
(1944-48, 1956-80)

**Albert C. Gunderson**, M.A.,  
University of Washington,  
*Associate Professor Emeritus  
of Theatre Arts* (1964-1985)

**Garland A. Haas**, Ph.D.,  
University of Washington,  
*Professor Emeritus of Political  
Studies* (1961-1984)

**Pauline Haas**, M.F.A.,  
Indiana University,  
*Professor Emeritus of  
Art* (1974-1985)

**Jasper H. Johnson**, Ed.D.,  
University of Washington,  
*Professor Emeritus of  
Education* (1953-1981)

**Milton E. Johnson**, Mus.D.,  
University of Dubuque,  
*Professor Emeritus of Music*  
(1957-1984)

**J. Russell Larson**, M.Ed.,  
Whitworth College,  
*Associate Professor Emeritus  
of Art* (1947-1979)

**Lillian Whitehouse Lyle**, M.A.,  
Whitworth College,  
*Assistant Director of  
Continuing Studies* (1965-1981)

**Leonard B. Martin**, M. Mus.,  
University of Southern  
California,  
*Associate Professor Emeritus  
of Music* (1949-1974)

**Merton D. Munn**, Ed.D.,  
University of Cincinnati,  
*Professor Emeritus of  
Education* (1941-54, 1969-1975)

**Margaret Saunders Ott**, M.S.  
Julliard School of Music,  
New York,  
*Honorary Professor Emeritus  
of Music* (1960-1982)

**Flaval Pearson**, B.A.Lib.,  
University of Washington,  
*Librarian* (1958-1978)

**Alvin B. Quall**, Ed.D.,  
Washington University,  
*Professor Emeritus of  
Education* (1953-1980)

**Isla R. Rhodes**, M.Ed.,  
Whitworth College,  
*Associate Professor Emeritus  
of Nutrition and Foods*  
(1960-1984)

**Clarence J. Simpson**, Ph.D.,  
Stanford University,  
*Professor Emeritus of English*  
(1953-1980)

**Evelyn A. Smith**, M.R.E.,  
The Biblical Seminary in  
New York,  
*Associate Professor Emeritus  
of Religion* (1944-81)

**Estella N. Tiffany**, M.A.,  
University of Washington,  
*Associate Professor Emeritus  
of Education* (1949-1967)

**Mae Whitten**, M.A.,  
Whitworth College,  
*Associate Professor Emeritus  
of English* (1945-1971)

**William G. Wilson**, M.S.,  
University of Washington,  
*Associate Professor Emeritus  
of Physics and Engineering*  
(1946-1969)

**Robert S. Winniford**, Ph.D.,  
University of Tennessee,  
*Professor Emeritus of  
Chemistry* (1963-1984)

**Roland Wurster**, M.A.,  
University of Oregon,  
*Associate Professor Emeritus  
of English* (1957-1980)

**Lawrence E. Yates**, Th.D.,  
Princeton Theological  
Seminary,  
*Professor Emeritus of  
Philosophy and Greek*  
(1948-1981)

## ADMINISTRATION

**Robert H. Mounce**, Ph.D.,  
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(Scotland), Th.M., B.D., Fuller  
Theological Seminary, B.A.,  
University of Washington,  
*President* (1981)

**Julia M. Anderton**, Ph.D.,  
University of Southern  
California, M.A., Seattle Pacific  
University, B.A., University of  
Tennessee,  
*Vice President for Student Life*  
(1983)

**Joseph P.H. Black**, Th.M.,  
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Seminary, B.S., Whitworth  
College,  
*Vice President for Institutional  
Advancement* (1985)

**G. Michael Goins**, B.A.,  
Whitworth College,  
*Vice President for Business  
Affairs* (1973)

**Darrell L. Guder**, Ph.D.,  
University of Hamburg,  
*Vice President for Academic  
Affairs and Dean of the  
Faculty* (1985)

**Diane Anderson**, B.A.,  
Whitworth College,  
*Manager of Bookstore* (1978)

**Bob Armstrong**, B.A.,  
Stanford University,  
*Director of Personnel and  
Administrative Support  
Services* (1982)

**Lonna Baldwin**, B.A.,  
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*Public Relations Assistant—  
News Bureau* (1982)

**Hans Bynagle**, M.L.S.,  
Kent State University, Ph.D.,  
Columbia University, A.B.,  
Calvin College,  
*Director of Library* (1983)

**John Carter**, B.A.,  
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Relations* (1985)

**Douglas Clegg**, B.Div.,  
Fuller Theological Seminary,  
B.A., Whitworth College,  
*Director of Church Relations*  
(1981)

**Ron Detrick**, B.A.,  
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**Elsa Distelhorst**, B.S.,  
Wheelock College,  
*Director of Professional  
Programs* (1985)

**Edward G. Eccles**, A.A.S.,  
Spokane Falls Community  
College,  
*Maintenance Supervisor*  
(1980)

**Julie D. Fish**,  
*Director of Field Services*  
(1977)

**Jon Flora**, B.A.,  
Whitworth College,  
*Director of Community  
Relations* (1980)

**Nancy Fox**, M.Div.,  
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*Associate Chaplain* (1984)

**Quinn Fox**, M.A.,  
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*Associate Chaplain* (1984)

**Ronald Frase**, Ph.D.,  
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Seminary, B.Div., Fuller  
Theological Seminary, B.S.,  
Wheaton College,  
*Chaplain* (1973)

**Wayne D. Gunderson**, B.A.,  
Whitworth College,  
*Controller* (1980)

**Gregory Hamann**, M.A.,  
Trinity Evangelical Divinity  
School, B.S., University of  
Minnesota,  
*Associate Dean of Students  
and Director of Residence Life*  
(1983)

**Don Holden**,  
*Director of Physical Plant*  
(1978)

**Rose Howell**, B.Th.,  
United Christian College,  
B.A., Bennett College,  
*Director of Minority Affairs*  
(1985)

**Larry Jones**,  
*Custodial Supervisor* (1984)

**Ann Kennaly**, B.S.,  
University of Idaho,  
*Assistant Director of Alumni  
Relations* (1980)

**Bonnie Kinkel**, B.S.,  
Concordia Teachers College,  
*Coordinator of Student  
Employment* (1979)

**Rhonda Koele**, B.S.N.,  
Briar Cliff College,  
*Director of Student Health  
Center* (1985)

**Patricia Larsen**, Graduate,  
Moody Bible Institute,  
*Administrative Coordinator of  
Conferences and Seminars*  
(1982)

**Debbie Lithgow**, B.A.,  
Eastern Washington  
University,  
*Accountant* (1982)

**Betty Malmstad**, Ed.D.,  
University of Houston, M.A.,  
University of Denver, B.A.,  
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*Director of Graduate Studies  
in Education* (1980)

**Robert M. McCroskey**, M.S.,  
University of Missouri, B.S.,  
Southern Methodist  
University, B.A., Eastern  
Washington University,  
*Director of Computer Services*  
(1962)

**Dayne J. Nix**, B.A.,  
Whitworth College,  
*Bursar* (1947)

**Paul J. Olsen**, M.S.,  
University of Wyoming, M.M.,  
B.A., Pacific Lutheran  
University,  
*Registrar and Director of  
Institutional Research* (1978)

**Marianne Pierce**, B.A.,  
Whitworth College,  
*Admissions Representative*  
(1986)



**John Reed, B.S.,**  
University of Idaho,  
*Director of Admissions* (1982)

**Chris Rosaaen, M.Ed.,**  
B.A., Western Washington  
University,  
*Assistant Director of*  
*Admissions* (1986)

**Willard D. Rusk, B.A.,**  
Whitworth College,  
*Director of Financial Aid*  
(1968)

**Daniel C. Sanford, Ph.D.,**  
M.A., University of Denver,  
B.A., Whitworth College,  
*Associate Dean for Academic*  
*Affairs* (1970)

**Linda Sharman, B.A.,**  
Whitworth College,  
*Director of Public Relations*  
(1973)

**Judy Simpson,**  
*Veterans Service Coordinator*  
(1974)

**Glenn Smith, M.A.,**  
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*Director of Student Activities*  
(1984)

**Dale Soden, Ph.D.,**  
M.A., University of  
Washington, B.A., Pacific  
Lutheran University,  
*Academic Counselor for Non-*  
*Traditional Students* (1985)

**Donald Spencer, Ed.D.,**  
Western Michigan University,  
M.A., University of Iowa, B.S.,  
University of Minnesota,  
*Director of Continuing Studies*  
(1982)

**Beverly Stanford,**  
*Assistant Director of Financial*  
*Aid* (1975)

**Gordon Toyama, B.A.,**  
Whitworth College,  
*Assistant Director of*  
*Admissions* (1985)

**Stephen Trefts, J.D.,**  
Gonzaga University School of  
Law, B.A., Colorado College,  
*Executive Vice President,*  
*Whitworth Foundation* (1981)

**Dennis Trotter, B.A.,**  
Whitworth College,  
*Assistant Director of*  
*Admissions* (1986)

**Alice M. Tyler, B.A.,**  
Central Washington State  
College,  
*Director of Records and*  
*Computer Services* (1975)

**Kay Walker,**  
*Manager of Audio Visual*  
*Services* (1964)

**Lynnae Walters, B.A.,**  
Whitworth College,  
*Graphics Assistant* (1982)

**Gordon Watanabe, M.Ed.,**  
B.A., Whitworth College,  
*Director of International*  
*Student Affairs* (1984)

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## FINANCIAL PROCEDURES AND INFORMATION

### Costs and Fees

Whitworth College is an independent institution and, like most such institutions, receives minimal support from public funds. Each student is charged tuition and fees which cover approximately three-fourths of what it costs the college to provide its services. The balance of these costs is met by income from endowment and by gifts from trustees, alumni and other friends of the college. Since prompt payment of student bills

is important in maintaining our quality educational program, all details for paying current charges must be finalized before students enroll for classes. Payment in full is due at the beginning of each term, or students and their parents may desire to use the insured budget plan, which spreads payments over a ten month period (June 1—March 1).

Last year Whitworth students received more than \$2,000,000 in scholarships and other financial aid from Whitworth and

more than one million dollars through Whitworth from federal and state sources. Recipients of aid include about 80% of the student body.

### Costs for 1986-87 Academic Year

(Note: These charges are for the 1986-87 year. Costs for the 1987-88 academic year will be announced when finalized.)

Tuition .....	\$7105
Room and Board .....	2710
Assoc. Student Body Fee ...	100
H.U.B. Fee .....	15
Total .....	\$9930

A full-time academic load is 3.25 to 4.75 courses in the fall and spring terms and 1.00 to 1.25 courses in the January Term.

Room and board charges do not cover regular college vacation periods. The above rate provides for a double room and 20 meals per week. 14-meal and 10-meal plans are available at a reduced rate. Students in private rooms pay 40% additional room rent.

Student Health and Accident Insurance must be carried by all students enrolled for more than three full courses unless there is a signed waiver on file in the Business Office showing other coverage. Those waivers must be submitted by September 26 for students beginning the fall term and February 13 for students beginning in the spring term. Current annual cost for student health and accident insurance for the 1986-87 year is \$97.

Additional expenses for books, supplies, personal items and transportation will vary with each student, and is a necessary con-

sideration when planning total costs.

Since fees are published several months in advance of the academic year, the Board of Trustees reserves the right to change this fee structure.

### Miscellaneous Costs

#### One Day Course—

For students enrolling in only one course in the day school .....

\$530

#### Part Time Day School—

For enrollment in 1.25 to 3.0 courses, per course ....

1060

#### Excess Course—

For courses in excess of 4.75 courses, per course ....

795

#### Excess Course Audit—

For student taking an audit in course in excess of a full-time load, per course .....

265

#### Audit Fee—

Per course .....

265

#### Independent Study—

Not to exceed two courses, and program must be approved in advance by the Academic V.P., per course .....

530

#### Evening School—

The maximum undergraduate course load in evening school is two full courses, per course .....

250

#### Combination Day and Evening Classes—

Evening School (per course) .....

250

Day School (per course) .....

1060

TOTAL (one Evening, one Day) .....

1310

**Graduate program rates** are contained in the specific program bulletin.

**Special Course Fees.** Several courses carry special fees (Art, Computer Science, Physical Education and others) to cover extra

costs. These courses are listed in the course schedule of the term they are offered.

**Change in Registration Fee** (after fourth week) .....

\$20

#### Late Registration Fee

begins Monday after registration .....

\$25

#### Diploma Fee:

Undergrad .....

\$50

#### Diploma Fee:

Graduate .....

\$60

**Matriculation Fee** .....

\$25

**Transcript Fee** .....

\$ 2

(Transcripts are released only when all financial accounts are current.)

A more detailed list of miscellaneous fees is available from the Business Office.

All fees are subject to change without notice. Fees for off campus and foreign study vary according to the program. Check with the Field Education Office for additional financial information.

### Tuition and Fees Refund Policy

All refunds must be claimed through proper application to the Business Office. Students may secure the forms from the Registrar's Office for class drops and withdrawals. The date that it is received by the Registrar's Office will be used to establish the refund date.

A student who withdraws during the course of a term is eligible for an adjustment of charges as follows:

*The first two weeks* following beginning of instruction - 100% refund on tuition, special course fees (such as music lessons and P.E. fees) and student fees, less \$10 service charge.

*3rd week* following beginning of instruction—80% refund on tuition and special course fees. No refund on student fees.

*4th week* following beginning of instruction—60% refund on tuition and special course fees. No refund on student fees.

*5th week* following beginning of instruction—40% refund on tuition and special course fees. No refund on student fees.

*After the 5th week* following beginning of instruction—No refund on tuition, special course fees, or student fees.

### Refund Dates for 1986-87

**Fall 1986**  
 First 2 Weeks 9-11-86 to 9-24-86  
 Third Week . . 9-25-86 to 10-1-86  
 Fourth Week . . 10-2-86 to 10-8-86  
 Fifth Week . . 10-9-86 to 10-15-86

**January 1987**  
 After 1st Class Meeting . . 100% (less \$10 service fee)  
 After 2nd Class Meeting . . 80%  
 After 3rd Class Meeting . . 60%  
 After 4th Class Meeting . . 40%  
 After 5th Class Meeting . . None

**Spring 1987**  
 First 2 Weeks . . 2-4-87 to 2-17-87  
 Third Week . . 2-18-87 to 2-24-87  
 Fourth Week . . 2-25-87 to 3-3-87  
 Fifth Week . . . 3-4-87 to 3-10-87

### Refund Policy—Workshops and Special ("S") Courses

Refunds minus a \$10 service charge will be granted up to 72 hours before the first class meeting. While no refunds can be given after the 72 hour limit, qualified participants may transfer credits to another "S" course.

### Room and Board Refund Policy

All refunds must be claimed through proper application through the Residence Life Office. Resident Assistant (R.A.) must

sign and date check out form for room refund, and Meal Sticker must be turned in to the Food Service Office for board refund.

A student who moves out of a dorm during the course of a term is eligible for an adjustment of charges as follows:

*First Week* following beginning of instruction—100% room refund less \$70 deposit. Board is prorated.

*Second Week* following beginning of instruction—80% room refund. Board is prorated.

*Third Week* following beginning of instruction—60% room refund. Board is prorated.

*Fourth Week* following beginning of instruction—40% room refund. Board is prorated.

*After Fourth Week* following beginning of instruction—No room refund, however board will be prorated throughout the entire term.

## ACADEMIC CALENDAR 1986-87 AND 1987-88

1986-87	FALL TERM	1987-88
Saturday, Sept. 6	<b>Dorms open at 1:00 p.m.</b>	Saturday, Sept. 5
Sun. & Mon., Sept. 7 & 8	<b>Orientation Activities</b>	Sun. & Mon., Sept. 6 & 7
Tuesday, Sept. 9	<b>Advising Day</b>	Tuesday, Sept. 8
Wednesday, Sept. 10	<b>Registration Day</b>	Wednesday, Sept. 9
Wednesday, Sept. 10	<b>Evening Classes Begin</b>	Wednesday, Sept. 9
Thursday, Sept. 11	<b>Day Classes Begin</b>	Thursday, Sept. 10
Monday, Nov. 10	<b>Faculty Development Day</b>	To Be Announced
W,Th,F, Nov. 26-28	<b>Thanksgiving Vacation</b>	W,Th,F, Nov. 25-27
Monday, Dec. 1	<b>Classes Resume</b>	Monday, Nov. 30
Monday, Dec. 15	<b>Reading Day</b>	Monday, Dec. 14
T,W,R, Dec., 16-18	<b>Final Examinations</b>	T,W,R, Dec. 15-17
Dec. 19 to Jan. 4	<b>Christmas Break</b>	Dec. 18-Jan. 3
Jan. 5 to 28	<b>January Term</b>	Jan. 6-30
	<b>SPRING TERM</b>	
Tuesday, Feb. 3	<b>Advising/Registration Day</b>	Tuesday, Feb. 2
Tuesday, Feb. 3	<b>Evening Classes Begin</b>	Tuesday, Feb. 2
Wednesday, Feb. 4	<b>Day Classes Begin</b>	Wednesday, Feb. 3
To Be Announced	<b>Faculty Development Day</b>	To Be Announced
March 30 to April 3	<b>Spring Vacation</b>	Mar. 21-26
Monday, Apr. 6	<b>Classes Resume</b>	Monday, March 28
Friday, April 17	<b>Good Friday (no classes)</b>	Friday, April 1
Tuesday, May 12	<b>Reading Day</b>	Tuesday, May 10
W,R,F, May 13-15	<b>Final Examinations</b>	W,R,F, May 11-13
Sunday, May 17	<b>Commencement &amp; Baccalaureate</b>	Sunday, May 15
	<b>Summer School—TO BE ANNOUNCED</b>	

# THE 4-1-4 CALENDAR

In 1969 Whitworth College became one of the first colleges in the country to adopt the 4-1-4 academic calendar. This calendar is favored by many liberal arts colleges because of its flexibility and potential for innovative and short-run off-campus courses.

The fall thirteen-week semester starts in early September and ends with the Christmas vacation.

During the month of January, students take one intensive course. Many opportunities exist for internship and independent study in the major during this

month. Also, Whitworth has developed a number of tuition-reciprocity agreements with other colleges on the 4-1-4 calendar, allowing students to experience another college for a month's time without upsetting tuition or financial aid arrangements.

The spring term begins in early February and ends in mid-May.

A twelve-week period of summer instruction is also offered in varied formats from weekend workshops to six-week traditional lecture courses.

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