

1976

1976-77 Seattle University Bulletin of Information

Seattle University

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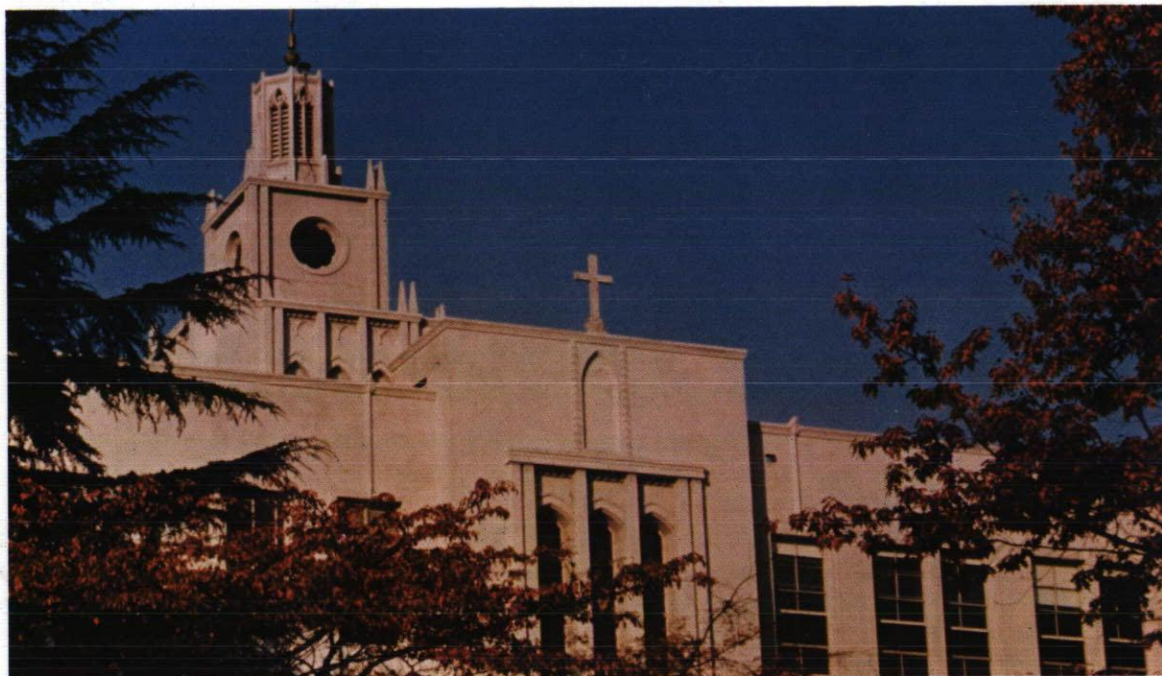
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Seattle University

1976-77 Bulletin of Information





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Winter Quarter 1976

November 12-21	Advance Registration (Winter 1976)
January 5	Registration
January 5	Classes Begin
January 9	Last Day to Register
January 9	Last Day to Add or Change
February 16	Washington's Birthday—No Class
February 17	Last Day to Remove Incompletes
February 18-27	Advance Registration (Spring 1976)
February 27	Last Day to Withdraw with 'W'
March 10-12	Final Examinations

Spring Quarter 1976

February 18-27	Advance Registration (Spring 1976)
March 29	Registration
March 29	Classes Begin
April 2	Last Day to Register
April 2	Last Day to Add or Change
April 16	Good Friday—No Class
April 26 - May 21	Advance Registration (Summer 1976)
May 10	Last Day to Remove Incompletes
May 19	Last Day to Withdraw with 'W'
May 31	Memorial Day—No Class
June 1-4	Final Examinations
June 5	Baccalaureate
June 6	Commencement

Summer Quarter 1976

April 26 - May 14	Advance Registration
June 21	Registration
June 21	Classes Begin
June 25	Last Day to Register
June 25	Last Day to Add or Change
July 5	Independence Day—No Class
July 16	Close First Term
July 19	Registration Second Term
August 12-13	Final Examinations

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Fall Quarter 1976

September 20	Orientation
September 21	Registration—Continuing Students
September 22	Registration—New Students
September 23	Classes Begin
September 29	Mass of the Holy Spirit
September 29	Last Day to Register
September 29	Last Day to Add or Change
October 25	Veterans Day—No Class
November 3	Last Day to Remove Incompletes
November 15-24	Advance Registration (Winter 1977)
November 22	Last Day to Withdraw with 'W'
November 25-26	Thanksgiving Holiday—No Class
December 6-8	Final Examinations

Winter Quarter 1977

November 15-24	Advance Registration (Winter 1977)
January 3	Registration
January 3	Classes Begin
January 7	Last Day to Register
January 7	Last Day to Add or Change
February 11	Last Day to Remove Incompletes
February 14-24	Advance Registration (Spring 1977)
February 21	Washington's Birthday—No Class
February 25	Last Day to Withdraw with 'W'
March 9-11	Final Examinations

Spring Quarter 1977

February 14-24	Advance Registration (Spring 1977)
March 28	Registration
March 28	Classes Begin
April 1	Last Day to Register
April 1	Last Day to Add or Change
April 8	Good Friday—No Class
April 25-May 13	Advance Registration (Summer 1977)
May 9	Last Day to Remove Incomplete
May 18	Last Day to Withdraw with 'W'
May 30	Memorial Day—No Class
May 31-June 3	Final Examinations
June 4	Baccalaureate
June 5	Commencement

Summer Quarter 1977

April 25-May 13	Advance Registration (Summer 1977)
June 16-20	Registration
June 20	Classes Begin
June 24	Last Day to Register
June 24	Last Day to Add or Change
July 4	Independence Day—No Class
July 15	Close of First Term
July 18	Registration Second Term
August 11-12	Final Examinations

Fall Quarter 1977

September 26	Orientation
September 27	Registration—Continuing Students
September 28	Registration—New Students
September 29	Classes Begin
October 5	Last Day to Register
October 5	Last Day to Add or Change
October 24	Veterans Day—No Class
November 10	Last Day to Remove Incompletes
November 14-23	Advance Registration (Winter 1978)
November 24-25	Thanksgiving Holiday—No Class
November 30	Last Day to Withdraw with 'W'
December 12-14	Final Examinations

Purpose and Scope

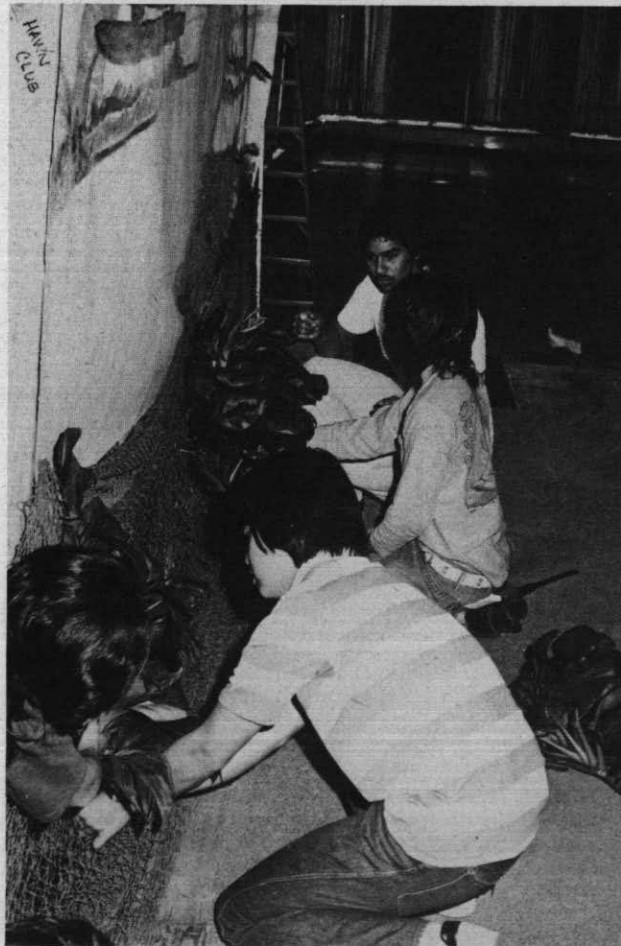
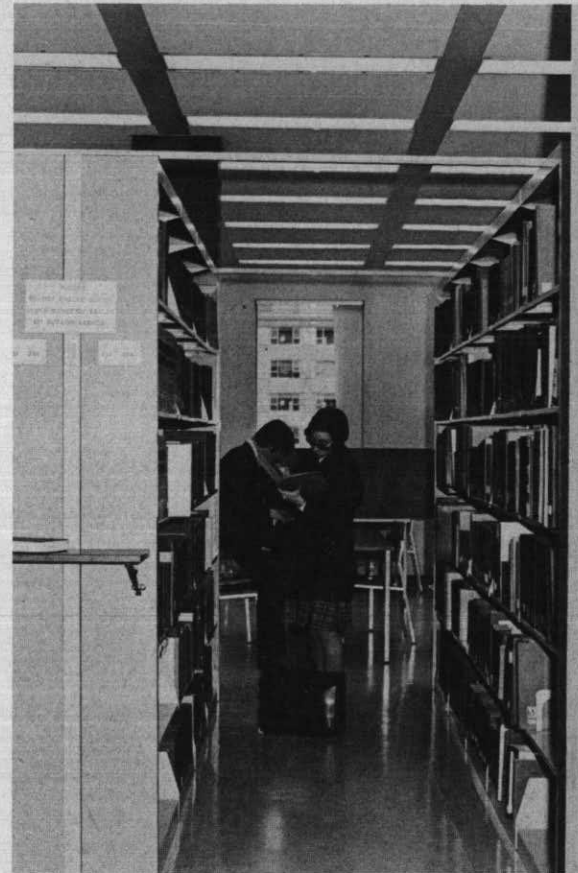
Seattle University, an institution of higher learning, has for its object and purpose:

- the conservation, interpretation and transmission of knowledge, ideas and values;
- the extension of the frontiers of knowledge by critical and exhaustive investigation or experimentation;
- the preparation for some of the professions by thorough and intelligent training in the theory and principles underlying those professions.

As a University, it attains its end not only through the sciences and humanities, including philosophy and theology, but also through its professional schools.

As a University operated under the sponsorship and direction of the members of the Jesuit order:

- it affirms its belief in a support of Christian ideals and values;
- it affirms its belief in the unity and totality of all human knowledge, whether experimental, speculative, or divinely revealed;
- it seeks, by a faculty inspired with the Spirit of Christ and by the creation of a liberal atmosphere inside and outside the classroom, to develop an unbiased, truly liberated and enlightened intelligence in its faculty and student body.



SEATTLE UNIVERSITY



In August, 1891, eleven years after the founding of Seattle, Fr. Victor Garrand, S.J., and Fr. Adrian Sweere, S.J., arrived in Seattle to lay the foundations of Seattle University. On April 16, 1893, work began on the brick building, known today as the Garrand Building. The first floor of the Building was used for classrooms, while the space between the second and third floors was left open to house the Immaculate Conception Church. The building is still in use today, although after the fire of 1907 the third floor was added, the roof was flattened and the steeple removed.



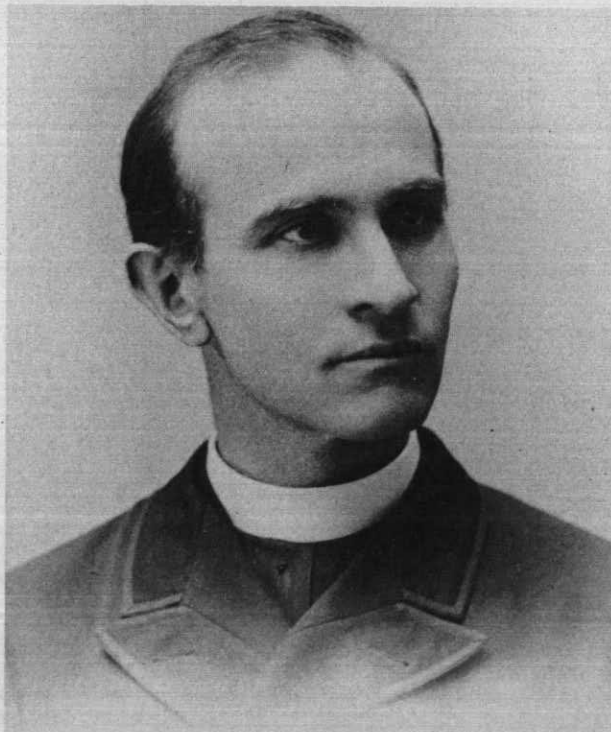
History

Seattle University's development as one of the Pacific Northwest's leading universities is closely interwoven with the history of Seattle and the Pacific Northwest. It is the story of a continuing effort on the part of the University to help meet the educational demands of a burgeoning area.

In 1890, concerned with the problem of providing adequate educational opportunity for the young men of the area, the Rt. Rev. Aegidius Junger bishop of the then Nesqually diocese, asked the Jesuit fathers to establish a school in Seattle. Two pioneer priests, the Rev. Victor Garrand, S.J., and the Rev. Adrian Sweere, S.J., were sent by the Rev. Joseph Cataldo, S.J., superior of the Rocky Mountain Missions, to answer the bishop's request.

They arrived in Seattle early in 1891 and immediately set about choosing a site for the new school. Upon the advice of some of the area's leading figures, they purchased several lots in the Broadway addition on the eastern edge of the young city. Pending construction of their new building, the fathers were asked to begin classes in St. Francis Hall, at what is now Sixth and Spring Streets in downtown Seattle. They assumed administration of the church and school on September 23, 1891, changing the name of the latter to the School of the Immaculate Conception.

In 1893, the cornerstone of the first building on the present campus at Broadway and Madison Streets was laid. The building, now the Garrand Building, served both as a school and as the first Immaculate Conception Church in Seattle. The following year, under the direction of the Rev. Conrad Brusten, S.J., and the Rev. Patrick Mahony, S.J., students were first enrolled in an



Rev. Victor Garrand, S.J.

"Academic" course of studies at the high school level. Four years later, the school received its Articles of Incorporation as an institution of higher learning under the corporate title, Seattle College.

The years that followed were years of struggle for the young institution. The frontier atmosphere of the time was not especially conducive to its growth and it was not until 1900 that the collegiate program was begun with a course in "The Humanities," the forerunner of today's College of Arts and Sciences. The following year the first graduate degree was awarded and in 1907, at the request of former students, evening courses were first offered. The University granted its first bachelors' degrees in the spring of 1909.

Conditions during the First World War led to the suspension of classes from 1918 until 1922. The latter year they were resumed on a seven-acre campus on Interlaken Boulevard which, with two buildings, had been presented to the college by Mr. and Mrs. Thomas C. McHugh. Both college and high school classes were held on the new campus until 1931 when the college returned to its former Broadway and Madison site.

The first women students were admitted to credit courses in 1933. Seattle University's second academic unit, the School of Education, was added in 1935. In 1937, full accreditation was granted by the Northwest Association of Secondary and Higher Schools. The School of Nursing was established in 1940 and the School of Engineering added in 1941. A fifth major academic unit, the School of Commerce and Finance was initiated in 1945.

On May 28, 1948, full university status was granted by the State of Washington and Seattle College assumed its present title, Seattle University.



Rev. Adrian Sweere, S.J.



Organization

Seattle University is a private, coeducational university conducted by the fathers of the Society of Jesus, popularly known as the Jesuits. It is open to students of all races and denominations and is incorporated under the laws of the State of Washington. One of 28 Jesuit colleges and universities in the United States, it derives its tradition and objectives from the four centuries of academic experience and educational ideals of the Society of Jesus, implemented by nearly two thousand years of Christian tradition and knowledge.

The University is composed of six major academic units:

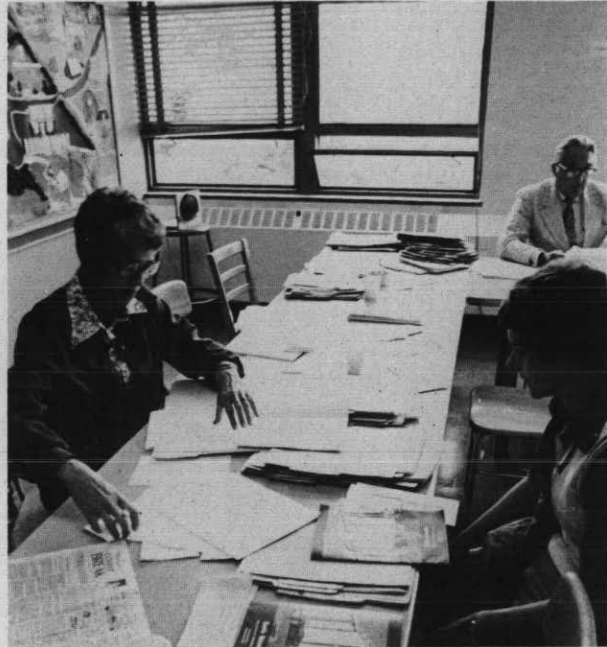
The College of Arts and Sciences comprises 12 departments. These are English, fine arts, foreign languages, history, journalism, military science, philosophy, political science, psychology, rehabilitation services, sociology and theology and religious studies. Program divisions are: community services, general studies, honors, police science and administration, prelaw and speech.

The Albers School of Business offers programs in accounting, economics, finance, general business, management and marketing.

The School of Education offers programs which qualify its students for teaching certificates and principals' credentials issued by the State Department of Public Instruction.

The School of Science and Engineering is composed of the departments of biology, chemistry, mathematics, physics and civil, electrical and mechanical engineering. Program divisions are: general science, health information services, medical technology, pre dental, premedical and preoptometry studies.

The School of Nursing offers a baccalaureate program in professional nursing which qualifies students for registration through state licensure.



The Graduate School has programs leading to masters' degrees in accounting, business, education, English, history, natural science, philosophy, public service, rehabilitation and religious education.

Accreditation

Seattle University enjoys the highest accreditation and its students are accepted for graduate and advanced study by leading colleges and universities in all parts of the country.

The University is accredited by:

- Northwest Association of Schools and Colleges
- National League For Nursing
- American Chemical Society
- Engineering Council for Professional Development
- American Assembly of Collegiate Schools of Business
- National Council for Accreditation of Teacher Education

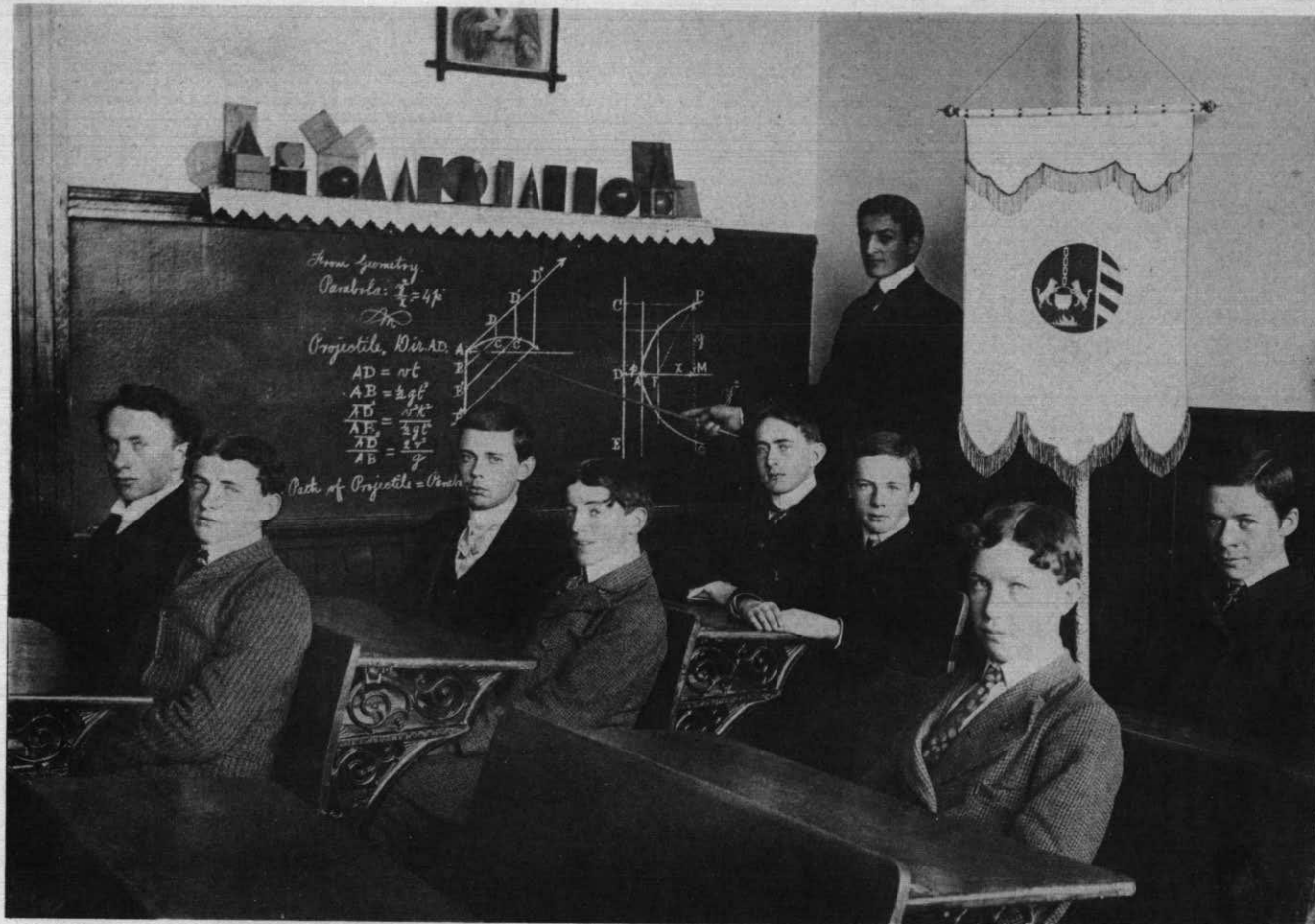
is approved by:

- Washington State Board of Education
- American Medical Association
- American Society of Clinical Pathologists
- American Medical Record Association
- Washington State Board of Nursing

The University is a member of:

- American Association of Colleges for Teacher Education
- American Association of University Women
- American Council on Education
- Association of American Colleges
- Association of Higher Education
- Association of Jesuit Colleges and Universities
- Independent Colleges of Washington
- National Catholic Education Association
- National Commission on Accrediting
- Northwest Association of Colleges
- Western Interstate Commission for Higher Education

THE CAMPUS



The cornerstone of the first building on the present campus was laid in 1893 and blessed by Most Rev. Aegidius Junger, Bishop of the Nesqually diocese. Four years later, the school received its Articles of Incorporation as an institution of higher learning under the corporate title of Seattle College. In 1902 this Humanities class was in session and, in 1915, students enjoyed winter on the campus grounds.

Campus and the City

Seattle University is located on a 41-acre campus on Seattle's historic First Hill. Within short walking distance are the city's major education, cultural and recreational facilities, business and shopping centers and the Puget Sound waterfront.

The University's physical facilities serve a current student enrollment of 3,500. Presently, the campus contains 23 buildings, including modern classrooms, student and faculty residences and service units.

The housing facilities available on campus are Bellarmine Hall (1962), with accommodations for 450 students and Xavier Hall (1955), with a capacity of 200. Residence halls are coed.

On campus facilities include the A.A. Lemieux Library (1967), the major study and resource center, with seating for 1,100 students. A variety of study areas, including individual carrels, study lounges and conference rooms, are available for the student's comfort and convenience.

The Connolly Center (1969) is the physical education teaching facility. In addition to classroom areas, recreational facilities include two swimming pools, basketball, badminton, tennis and handball courts and a gymnastics and dance area.



The Student Union Building (1953), the Chieftain, houses the office of the Vice President for Students, student offices, dining, lounge and meeting areas. A selection of auditoriums are available in the A.A. Lemieux Library, the William Pigott (1957) and Thomas J. Bannan (1961) Buildings for films, lectures, meetings and musical presentations. Teatro Inigo (1964) is the theatre for student drama productions.

Other major campus structures include the Liberal Arts Building (1945); Bookstore Building (1964); Loyola, the Jesuit faculty residence.

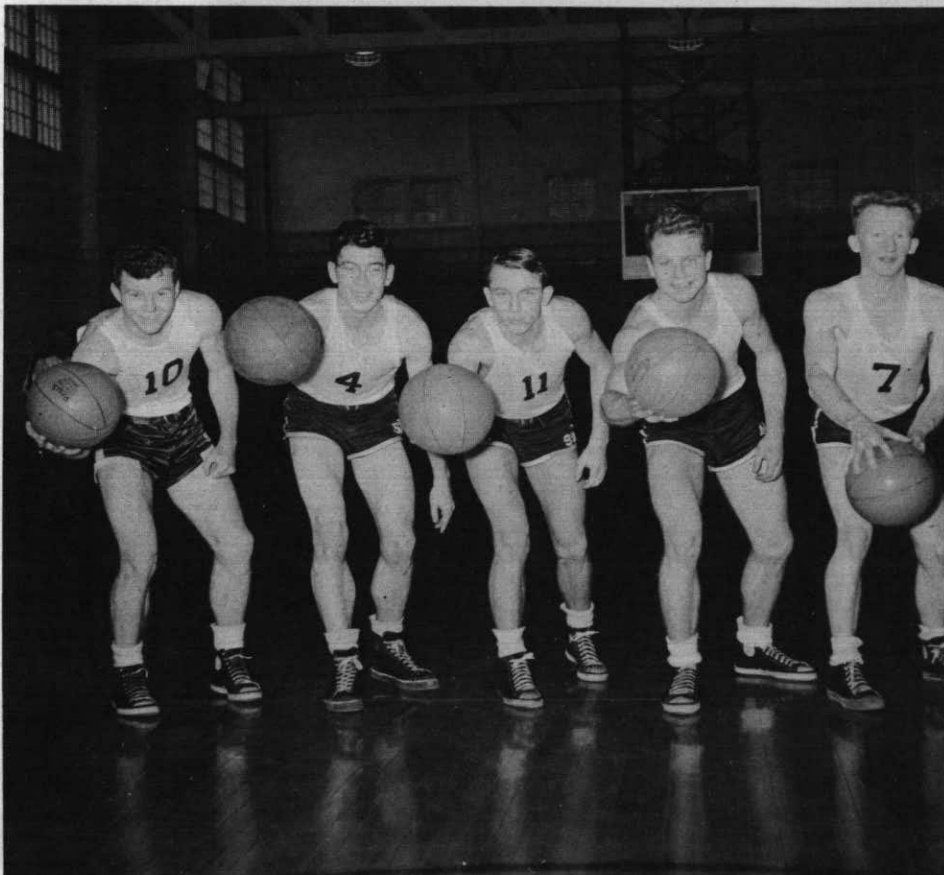
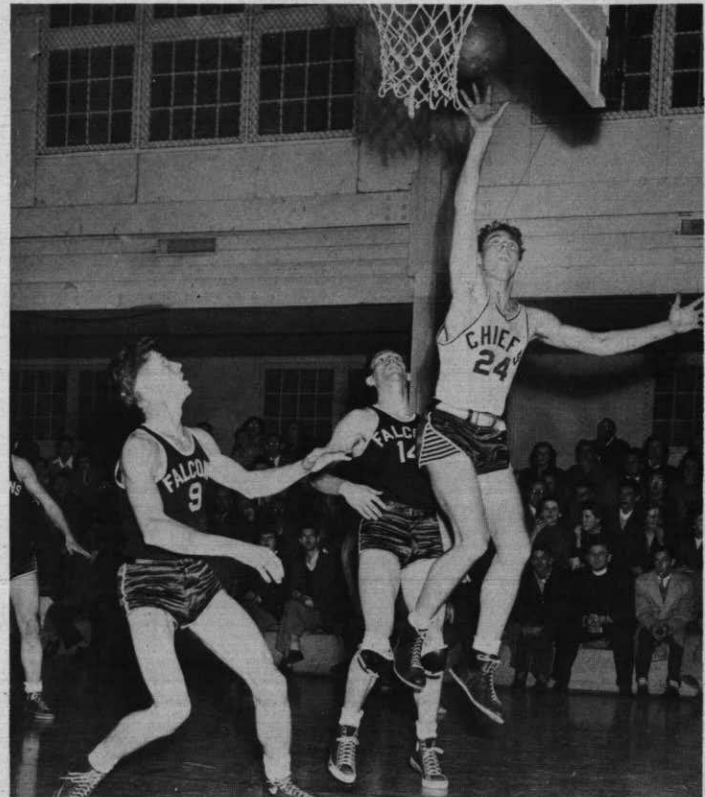
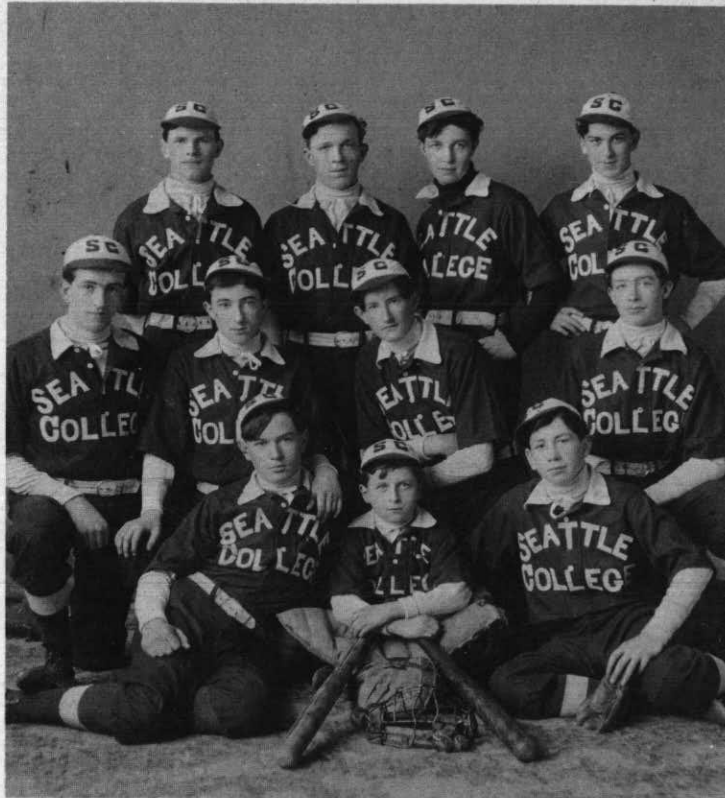
Seattle University is located in a seaport city surrounded by unsurpassed natural beauty. Seattle, the largest city in the Pacific Northwest and one of the 25 largest in the United States, has all the scenic and cultural variety of a metropolitan city with the unique advantage of mountains and water at its back door.

Within city boundaries, Lake Union and Lake Washington provide the opportunity for sailing, boating, water skiing and swimming.

Ski areas are within an hour's drive of the city, with night and weekend skiing during winter months. Easy hikes, with trails marked and guide books available, are popular in the spring and summer months, as well as more difficult hikes for seasoned enthusiasts.

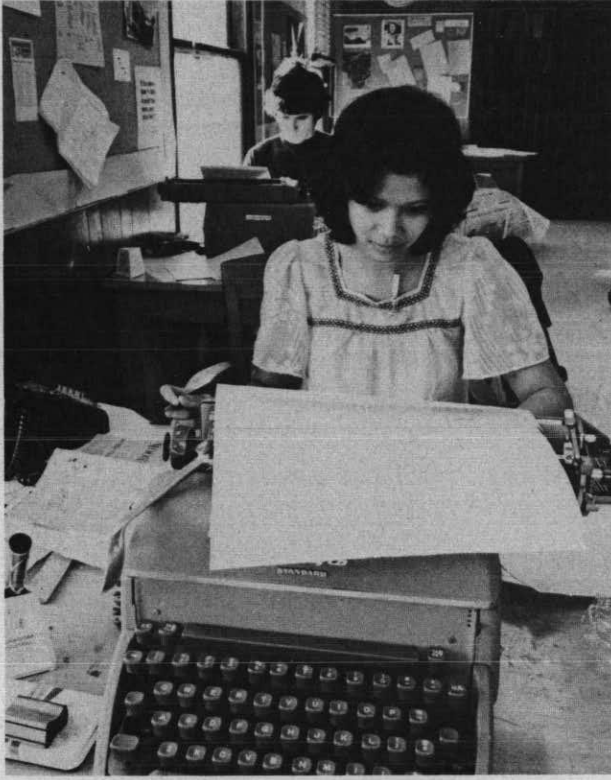
Bicycling has become increasingly popular and trails are set aside in various areas of the city.

Golf Courses, tennis courts, and indoor and outdoor pools for year-round swimming are available in addition to fishing and hunting opportunities.



Throughout the University's history, athletics have played an important part in student life. Early in the 1923 school year, the athletes of the college formed the "S.C." Club, which later became the Letterman Club. The first uniformed college team took the baseball field in 1901. The 1909 baseball team is pictured above. The first Seattle College basketball game was played in the Memorial gymnasium on November 5, 1947. The Seattle University Chieftains became known in the basketball world with the arrival on the Seattle scene of two brothers from New Jersey, John and Ed O'Brien. John became the University's first All-American. Elgin Baylor was the next Chieftain to become an All-American in 1957.

STUDENT SERVICES



COSTS—GENERAL INFORMATION

All charges are due and payable at the time of advanced registration or on registration day. Registration is a coordinated process involving the registrar, the controller and the director of Financial Aid. For further information about financial aid see pages 15-17. Seattle University reserves the right to change its charges without notice prior to the beginning of any quarter or summer session.

A student unable to meet the financial obligations before registration day may be temporarily admitted to class only under conditions agreed to by the Controller.

Tuition Rates

Undergraduate courses: Fall, Winter, Spring\$52.00 per credit hour
 Masters degree programs
 Business 76.00 per credit hour
 Public Service 65.00 per credit hour
 Rehabilitation 65.00 per credit hour
 Education 56.00 per credit hour
 Arts and Sciences 56.00 per credit hour

Auditors tuition 20.00 per credit hour
 (Auditors may not register until the second day of the term)

A deposit of \$50.00 is required of new students admitted for Fall quarter. This deposit is forfeited if a student does not register.

Family Tuition Plan

Two or more members of a family living in the same household and dependent upon a common support and who are attending the University concurrently as full-time undergraduate students may apply for a tuition discount. Further information on the Family Tuition Plan can be obtained at the Controller's Office.

Refunds

Withdrawals (full or partial)
 1-10 class days 80 per cent
 11-15 class days 60 per cent
 16-20 class days 40 per cent
 Thereafter No refund

Refunds are based on the number of consecutive Monday through Friday days from the first day of classes until the official date of withdrawal according to the above schedule. At least 10 class days must elapse between date of withdrawal and date of refund.

Fees—Non-refundable

Application, undergraduate and graduate\$20.00
 (must accompany application form)
 Application, transient students\$10.00
 Late registration, per day\$ 8.00
 Matriculation, undergraduate and graduate\$20.00
 Credit by examination (per credit hour).....\$10.00
 Validation of field experience (per credit hour) \$15.00
 Removal of incomplete (per course)\$ 8.00
 Graduation, undergraduate (per degree)\$25.00
 Graduation, graduate (per degree)\$50.00
 Graduation fees are due at the time of application for graduation, and graduation forms will be released only upon presentation of a receipt.
 Thesis binding\$15.00
 Graduate Record Examination\$ 7.00
 Medical Technology Internship (per credit hour) \$ 5.00
 Washington Pre-College Tests\$ 7.00
 Special Examination (per subject)\$ 5.00
 Make-up Examination (per subject)\$ 5.00

Laboratory Fees

Biology: All laboratory courses \$12.00
 Business 310, 509, 590\$25.00
 Chemistry: All laboratory courses\$12.00
 Education: Ed 330, 528\$ 5.00
 Ed 407, 547\$10.00
 Ed 441 (per 5 credits)\$35.00
 Engineering:
 CE 496, 497; ME 496, 497\$ 7.00
 All other laboratory courses\$12.00
 Health Information Services:
 HI 401, 402\$ 5.00
 HI 440, 441\$10.00
 HI 475, 491 (computer)\$15.00
 Mathematics: Mt 114, 214 30.00
 Music:
 MU 110, 111, 120, 122, 125\$50.00
 Piano Practice room, one hour daily
 per quarter\$ 5.00
 Nursing: N 205, 300\$ 5.00
 Physics: All laboratory courses\$12.00
 Psychology:
 Psy 381, 401\$10.00
 Psy 402\$15.00
 Psy 390\$30.00

Residence Charges

Room and board per academic year \$1,290.00
 Payment Schedule
 Deposit (refundable) 75.00
 Fall 466.00
 Winter 412.00
 Spring 412.00
 (Private Room, \$90.00 additional per quarter)

Student Services

The principal function of any university is to provide for its students an atmosphere conducive to intellectual progress—laboratories, library, classrooms and stimulating teachers. However, it is recognized that the total development of the individual is equally important. Consequently certain services have been introduced at Seattle University which exist for the purpose of serving the spiritual, social, personal and physical needs of the student body. These services of the university personnel described below are aids in making the educational pursuits of the students more profitable and satisfying.

Advisory System

The deans of the several schools supervise the academic guidance and counseling program of both freshmen students and upperclassmen in their school. Through the department chairman, they assign an adviser for each student according to his major or area of concentration. The assignment of an adviser is normally made either during orientation or at the time the student is interviewed.

Career Planning and Placement

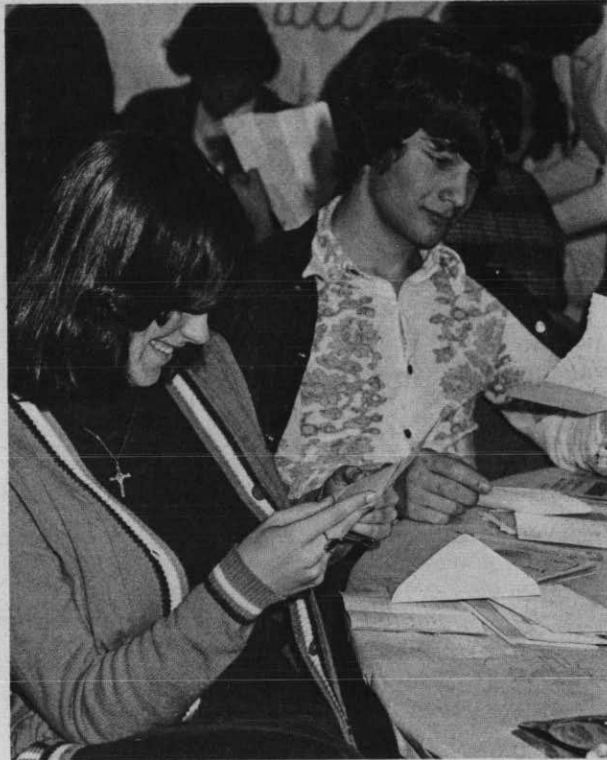
This office makes available to the SU student or alumnus, services related to career information, career counseling, job listing and referral, campus interviewing and job-seeking skills instruction. Literature pertinent to employing institutions is available as is material relative to career guidance. Trained personnel is available for vocational counseling. After registering with the office, the student or alumnus is entitled to sign up for interviews with companies visiting campus. Job announcements and openings are posted and accessible to walk-in traffic. Instruction is given in resume-writing and workshops, panels and small-group instruction in job-seeking skills and interview techniques are available.

Counseling and Testing Center

Specialized counseling is available at the Counseling and Testing Center by persons trained in clinical psychology. Here tests of scholastic and vocational aptitude, interest and personality are available to students. The service is administered without charge for students enrolled in the University. The Counseling and Testing Center also administers University-wide testing programs for the academic guidance of new students. At the discretion of the individual instructor, students may make up class examinations at the Center.

Minority Student Affairs Program

Seattle University offers to students from culturally unique economically and academically deprived backgrounds a special program of supportive services. These services include financial assistance, when available, counseling, tutoring, campus employment, job placement, post graduate and career information and ethnic cultural programs. For further information, contact the Director, Office of Minority Student Affairs, Bellarmine Annex.



Orientation

To assist new students in becoming better acquainted with the University and familiar with their academic program, the Academic Vice President, assisted by the Director for Student Activities, the staff of the Counseling and Testing Center and members of the Student Government, sponsors a New Student Orientation Program prior to fall quarter registration. Freshmen students are expected to attend all orientation sessions.

Religious Program

The Campus Ministry team organizes and directs liturgical and religious programs aimed at furthering the spiritual welfare of the University community. Masses are offered daily in Bellarmine Hall, the Liberal Arts Chapel and the Liturgical Center. Confessions are heard at posted times each weekday as well as before the Masses.

Special liturgical and religious events are planned throughout the year by the Campus Ministry team in cooperation with a student liturgical committee. One such event is the Search. The Search is a religious experience which involves a weekend away from campus where participants have an opportunity to reflect on their personal growth in the Christian life. In addition, retreats, Pre-Cana and penance services, Scripture study programs, prayer groups and faith instruction classes are scheduled to meet student needs. Non-Catholic students are invited to take part in all these activities.

For students who want to give some time to helping others, opportunities are provided to become involved in social action programs or to work with volunteer service organizations both during college years and following graduation. The Campus Ministry office also coordinates these activities through its Reach Out program.

Spiritual and Personal Guidance

Members of the Campus Ministry team are chiefly responsible for the spiritual and personal guidance of students. They are aided in this work by other members of the student personnel staff. The Jesuit Fathers living in Loyola Hall and those who serve as moderators in the residence halls are also trained counselors, and students should feel free to come to them when in need of assistance. These faculty and staff members are available by appointment or through the informal contacts of campus life.

Student Health Center

Students enrolled for 10 or more credit hours qualify to participate in University health services. These services are administered through the Student Health Center on campus.

Student Health Insurance

Full-time students and their dependents are eligible to participate in the University's voluntary student health insurance program. The program provides accident and sickness benefits. This insurance may be purchased at registration.

Student Organizations

Many campus organizations provide the student with an opportunity to develop his talents and to broaden his social and professional background. Included are professional societies, service clubs, student government groups, musical organizations, student publications, scholastic honoraries, religious committees and civic and charitable organizations. A list of chartered organizations may be obtained from the Office of the Director for Student Activities.

General Organizations

Associated Students of Seattle University — Has general supervision of all campus organizations and extracurricular activities. Direction is exercised through the student senate, activities board, financial committee, and the Director for Student Activities.

Associated Women Students—An organization whose purpose is to provide for the welfare of women students, to promote educational, religious, cultural and social interests, to foster cooperation and understanding and to instill ideals of leadership.

Student Publications

The Aegis—student yearbook.
The Spectator—semi-weekly student newspaper.
Fragments—literary publication.

Academic Honoraries

Alpha Sigma Nu—national Jesuit honorary recognizing outstanding scholastic attainment, loyalty and service.
Alpha Epsilon Delta—international premedical honorary.
Beta Gamma Sigma—national business school honorary.
Kappa Delta Phi—national education honorary.
Sigma Theta Tau—national nursing honorary.
Tau Beta Pi—national engineering honorary.

Service Honoraries

Alpha Phi Omega—a national service fraternity open to male students.
Intercollegiate Knights—a national service fraternity open to men.
Spurs—a women's service organization open to sophomore women who have shown qualities of scholarship, interest in school events and attributes of leadership and personality.
IK Little Sisters—women's service honorary.

Athletic Program

Seattle University is a member of the National Collegiate Athletic Association, the Association of Intercollegiate Sports for Women and the West Coast Athletic Conference. Its athletic policies are governed by the constitution and by-laws of these associations. The athletic program is administered by the Director of Athletics and his staff. Intercollegiate Sports for men include basketball, baseball, golf, tennis, crew, soccer and cross country. The Women's Intercollegiate Program offers competition in gymnastics, tennis, volleyball and track and field.

An intramural athletic program is conducted for both men and women students. The program is administered by the Director of the Connolly Center and includes a wide range of group and individual athletic activities.

Housing

Seattle University requires all full-time freshmen under 21 years of age to live in University housing unless they are married or living with their parents, or unless they have been granted an advance waiver. Letters of permission and requests for waivers are to be sent to the Director for Resident Student Services. Upperclassmen may live in the residence halls if space is available.

Residence Halls

Bellarmino Hall has a capacity of 444 and Xavier accommodates 206. The halls provide study and recreational facilities and lounges. All students living on campus take their meals in the Bellarmino dining room. The residence halls are supervised by professionally trained directors, floor moderators and student resident assistants.

Application for Housing

Requests for student housing are made through the Director for Resident Student Services. A seventy-dollar (\$70.00) deposit is required to make reservations. See page 12 for schedule of housing costs.

Cancellation of a reservation must be received at the office of the Director for Resident Student Services or Dean for Women no later than August 1.

Applicants who do not cancel contracts by the above date forfeit the deposit fee. Residents who terminate their stay in University residence halls before the end of a quarter incur significant financial loss.

FINANCIAL AID

Meeting College Costs

The financial aid program at Seattle University assists academically competent and needy students in meeting the expenses of their college education. This assistance is offered to both new and continuing students, may be directed toward normal educational expenses as well as living expenses, and is available to full-time students without racial or religious discrimination.

Seattle University expects its students and their families to make a reasonable contribution toward the expense of a college education. This expected contribution is determined by the financial need analysis of the College Scholarship Service (CSS) or the American College Testing Program (ACT). Financial need is the difference between the cost of attending college and the amount the student and family can contribute toward that cost. Once the expected student and family contribution is determined, the University will attempt to supplement that contribution with an award of financial aid which may consist of a combination of grants, loans, and/or part-time employment. The Financial Aid Director will determine the student's eligibility for all types of aid and, hopefully, the total cost of attending Seattle University can be met from three sources—student, family, and financial aid.

How to Apply for Financial Aid

- 1) Apply for admission to Seattle University. A student must be ACCEPTED to Seattle University before a financial aid award will be offered.
- 2) Submit by mail the Parents' Confidential Statement to CSS offices in Berkeley, California or Princeton, New Jersey or submit by mail the Family Financial Statement to ACT offices in Iowa City, Iowa. Be sure to indicate Seattle University as a recipient of the need analysis which will be calculated from the information you provide on the statement you mail to the service.
- 3) Submit the Seattle University Application for Aid by mail or in person to Seattle University.
- 4) Submit by mail a Basic Educational Opportunity Grant application to the Federal government at offices in Iowa City, Iowa.

To ensure maximum consideration for financial aid, your file must be complete in the Seattle University Financial Aid Office by March 1. It is the applicant's responsibility to see that the applicant's file is complete. Applicants whose files are completed after the deadline will be awarded on a funds available basis.

Currently enrolled students and transfer students who are enrolling for fall quarter must observe the March 1 deadline. All applicants for other than fall quarter should contact the financial aid office to determine the deadline prior to the quarter for which the applicant will enroll. Continuing students must reapply for financial aid each year.

Applicants are advised to make and retain copies of all documents submitted so that other documents which might require some of the same information might be easier to complete.

SCHOLARSHIPS

A limited number of scholarships are awarded annually to entering new students, transfer students and currently enrolled undergraduates. Awards are based on scholastic achievement, financial need, participation in school and community activities and leadership potential. Applicants must have a minimum of 3.40 grade point average on a 4.00 scale to be considered. Awards range from partial to full tuition and do not usually apply to living expenses.

Seattle University

Some scholarships are provided directly from Seattle University's own funds. The number awarded each year depends on available funds. Applicants need not prepare an application separate from the Seattle University Application for Aid.

Honors Program Scholarships

Tuition scholarships are granted for one year and are renewable on the performance basis. Applicants should contact the Honors Program chairperson for complete information.

Fine Arts Talent Scholarships

Tuition Scholarships are awarded annually by the Fine Arts department to students of outstanding talent in art, music or drama. Auditions are held under the jurisdiction of the Fine Arts department chairperson and inquiries should be directed accordingly.

Donated Scholarships

These are scholarships made available each year to Seattle University through the generosity of companies and individuals. In addition to the qualifications indicated, academic achievement and financial need are major considerations in selecting recipients.

Father Beezer Memorial

Alumni and friends of the late Gerald Beezer, S.J. have established a fund to maintain a scholarship in memory of his many years of devoted service to the University. Applicants may receive a partial scholarship grant at this time.

The Blume Family

The Boeing Company

A scholarship grant extended to students majoring in engineering, physics, mathematics, or business. Renewable annually.

Alphonse & Mary Brenner and John Brenner Scholarship Fund

A grant to a deserving Catholic student from the Yakima diocese.

Louella Cook Foundation

Farmers Insurance Group

Scholarship funds are granted to University students majoring in business or mathematics. These partial scholarship grants are renewable.

Seattle University Guild Scholarships

For scholarships in the Fine Arts department.

Italian Club of Seattle

For students whose parents are Italian Club members.

Laventhol & Horwath

A partial scholarship award to a student majoring in accounting.

Harry Kinerk Memorial Scholarship

A partial scholarship award in memory of the late Professor Harry Kinerk.

Rosemary McCone Memorial**Paul Pigott Memorial****Pay-n-Save Corporation Scholarship**

For a student majoring in marketing.

ROTC Scholarships—Army

The United States Army awards scholarships to selected high school seniors and to college freshmen, sophomores and juniors who enroll in the Army Reserve Officer Training Corps program at Seattle University. All expenses for tuition, books and fees are paid for one, two, three or four years, and each student receives an additional \$100 per month allowance while on scholarship during the school year. Write to the Seattle University Professor of Military Science for information on application procedures.

Albert A. Schafer Memorial**Seattle First National Bank Minority Scholarship**

A scholarship for a minority student enrolled in the School of Business.

Professional Nurses Traineeship

Traineeship grants for tuition, fees and a monthly stipend for full-time qualified nursing students who are completing their final year of undergraduate study.

Washington Congress of Parents, Teachers, and Students Financial Grant

A grant of \$175 per academic year to an incoming first year new student with deep need. This may be renewable all four years of college.

William E. Sullivan Memorial**Western Gear Foundation**

Awarded to students majoring in engineering in honor of the late Phillip L. Bannan, Sr., these scholarships are renewable if the student maintains a high scholastic standing.

William P. Woods Business Scholarship

A \$1,000 award to a deserving upperclassman or graduate. Applicants should contact the Dean for the School of Business.

Wyman Youth Trust**Loans**

Loans are a vital part of the financial aid award "package" offered to students. Some loans do not require payment of principle or interest until the student graduates or leaves school. At that time, low interest payments which may extend over a long period, begin.

Loans are an excellent means for the student to assume, but delay, at least a part of the cost of education. This allows the student's family to assume a portion of the education cost without utilizing current income or savings. Students must be United States citizens (or have Immigration Department approved permanent status) to be eligible for loans which involve federal funds.

National Direct Student Loan (NDSL)

A long-term loan based on financial need. Eligible students may borrow a total of \$5,000 for their undergraduate education. Repayment begins nine months after the student graduates or leaves school. The annual interest rate is three per cent and repayment may extend ten years. The NDSL repayment program also includes deferral provisions and forgiveness features.

Federally Insured Student Loan (FISL)

A long term loan arranged by the student with a lender selected by the student. A bank, credit union, or savings and loan are possible lenders. Students may borrow a total of \$7,500 for their undergraduate education. Repayment begins nine months after the student graduates or leaves school. The annual interest rate is seven per cent and repayment may extend ten years. The FISL is not need-based and may include a provision for the federal government to pay the interest while the student is in school. Early application is advised since processing takes 6 to 8 weeks.

Nursing Student Loan

A long-term loan based on financial need for full time nursing students. Eligible students may borrow up to \$2,500 annually. Repayment begins nine months after the student graduates or leaves the School of Nursing. The annual interest rate is three per cent and repayment may extend ten years. No interest is charged while the student is enrolled in the School of Nursing and forgiveness of 85% of the loan is available.

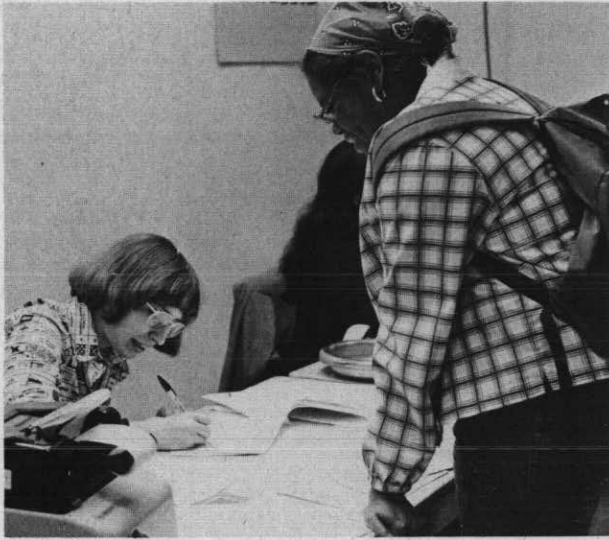
Law Enforcement Education Loan

A long term loan for full time students enrolled in a graduate or undergraduate program related to law enforcement. A LEEP loan will provide necessary funds to cover tuition and fees. The Police Science and Administration and Community Services programs have been approved for this loan. The loan features an annual interest rate of seven per cent and a liberal forgiveness policy.

Consult the Financial Aid office for current policy on student eligibility.

Student Short-Term Loans

Students are expected to arrive on registration day with funds required to pay tuition, room and board, and all fees. Late applicants for the Federally Insured Loan may not have received their loan funds, or other causes may prevent a student from having the required funds at registration. The Seattle University Alumni Credit Union may grant a short term loan to these students or their families. These loans, however, must be repaid during the quarter for which they apply. Application for these loans should be made before registration day directly to the Seattle University Alumni Credit Union.



Special Loan Funds

Ravetti Educational Fund

A low-interest loan fund established by Armand J. and Bessie M. Ravetti to assist needy students.

Bing Crosby Loan Fund

A low-interest loan established by the Bing Crosby Foundation.

Alda Medack Loan Fund

A fund established to provide emergency short-term loans to students.

Grants

Several forms of grants are offered as part of the financial aid award package which might also include loans and employment. These are non-repayable federal and state grants as well as Seattle University tuition grants which provide partial tuition. Need rather than grade point average is the primary consideration.

Supplemental Education Opportunity Grant (SEOG)

Seattle University receives these federal funds to distribute to students with exceptional financial need. SEOG awards usually range from \$200 to \$1,000 in the initial year and may continue in the subsequent years as student need and federal allocations determine. SEOG awards are non-repayable.

Basic Educational Opportunity Grant (BEOG)

Students considering Seattle University are encouraged to obtain a BEOG application form, complete the form, and mail it directly to the federal government in Iowa City, Iowa. In approximately four weeks the federal government returns to the student an eligibility report and, regardless of the reported eligibility, it is necessary for the student to forward that student eligibility report to the Seattle University Financial Aid Office which will determine the BEOG amount, all of which is non-repayable. Up to \$1,400 per year is available to qualified students. Students currently enrolled at Seattle University and receiving financial aid are required to file a BEOG application and submit the student eligibility report.

Nursing Scholarship Grant

Federal non-repayable grants of up to \$2,000 per year are available to nursing students with exceptional financial need.

Washington State Need Grant

A grant designed to assist needy and/or disadvantaged Washington state residents in obtaining post-secondary education. Selection is made by the Council for Postsecondary Education from nominations submitted by the University.

Law Enforcement Education Grants

Grants of up to \$250 per quarter are available for full time employees of police, corrections agencies, or the courts who are full or part-time students in a program related to law enforcement.

Veterans, Widows & War Orphans Educational Assistance

Veterans (or spouses of deceased veterans) may receive up to 45 months of educational assistance under terms of the GI Bill. War orphans and dependents of disabled veterans may also receive up to 45 months of educational assistance. Contact the Seattle University Veterans Office for information and forms.

Social Security Assistance

Students may be eligible for Social Security assistance if one of their parents currently receives or had received social security benefits. Eligible students must be between 18-22 years of age, unmarried and a full time student. Information and forms may be obtained from a Social Security office.

Student Employment

The financial aid award frequently includes the work-study element along with the loan and grant elements. Work-study is a system of employing needy students on or off campus as a part of their financial aid.

Federal College Work-Study Program (FCWSP)

Students who have a determined need are offered part-time employment on or off campus (non-profit employers).

State College Work-Study Program (SCWSP)

Students who have a determined need per the state formula are offered part-time employment with off campus employers which may be profit employers.

Army ROTC Subsistence

\$100 per month is paid to all students enrolled in the Army ROTC program during their Junior and Senior years. Write to the Seattle University Professor Military Science for information.

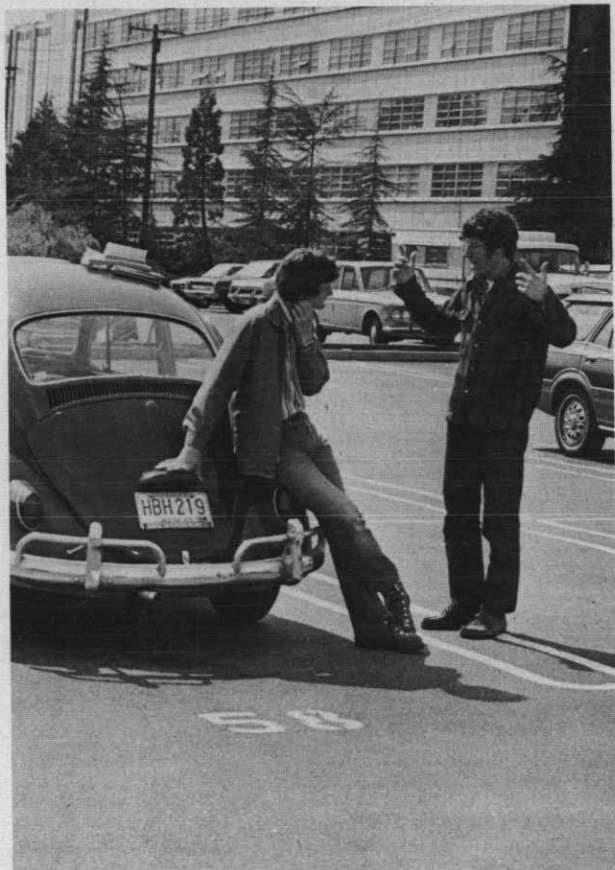
Student Job Placement Center

The Financial Aid Office maintains a listing of jobs available with Seattle area employers. No charge is made to the student for this service.



Much of the early activity of Seattle College centered in and around the Garrand Building. In 1898, classes were conducted in two rooms and referred to as the juniors and seniors. The playground was divided and known as the "upper" and "lower" grounds.

ADMISSION



Admission Policy

Seattle University selects for admission those students who have demonstrated in their prior studies an ability to achieve a level of academic performance necessary to earn a degree. University admission policy is established by the Academic Council. It is administered by the Academic Vice President through the Director of Admissions and Registrar. All records submitted by applicants become the property of Seattle University. In addition to the requirements for admission set forth in this section of the bulletin, reference must be made to additional or distinctive requisites in the individual colleges or schools of the University. This information will be found in the section of the bulletin dealing with the specific college or school.

Seattle University offers the opportunities and experiences of higher education to all students equally without regard to race, religion, age, sex or national origin. It does so in keeping with the guidelines and requirements of laws and regulations as promulgated by state and federal agencies.

Although the fall quarter is the usual time to begin University studies, admission may be granted to qualified applicants for any of the four quarters of the academic year. All applicants, excluding transients and audits, must remit the \$15 application fee to the University. Inquiries concerning admission should be addressed to the DIRECTOR OF ADMISSIONS, SEATTLE UNIVERSITY, SEATTLE, WASHINGTON 98122.

From Secondary Schools

To be admitted to the University as a regular student an applicant must meet the following entrance requirements:

Have graduated or will graduate from an accredited high school.

Have an academic high school grade point average of 2.50 or above as measured on the 4.00 scale or rank in the upper 50 per cent of the senior class.

Have completed 16 units of college preparatory courses.

Applicants with a grade point average below 2.50 as computed by the University admissions office will be reviewed by a special board. Applicants with a grade point average below 2.00 will not be admitted to the University on either a regular or probationary status.

Unit Requirements

Admission is granted subject to graduation from an accredited high school and the applicant must present as part of his high school record successful completion of a minimum of 16 units. One unit equals one year. These 16 units must be distributed as follows:

English	3
Mathematics (Algebra, Geometry)	2
History	1
Laboratory Science	1
Electives (approved)	9

If the student lacks one of the above required units, he may be permitted in some cases, by way of exception, to enter with provisional standing.

Two courses of three or more quarter hours each will be considered equal to one high school unit.

Application

In the State of Washington, application blanks for those wishing to enter as freshmen may be obtained from high school offices. Out of state applicants may obtain forms by writing to the Director of Admissions. To be considered official, records must be forwarded to the University directly by the high school or registrar of a previous school.

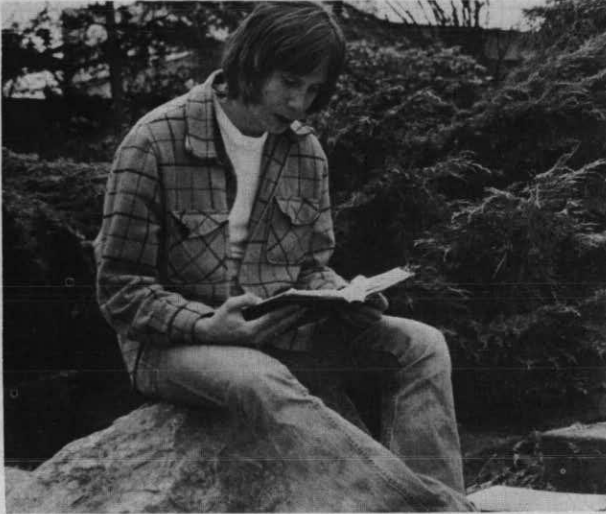
In making application for admission the candidate must complete the following procedures after completion of at least the sixth semester:

1. Complete page one of the Washington uniform application for admission and leave the entire form with high school counselor to have the back of the page completed and forwarded directly to the Office of Admissions.
2. Submit a non-refundable application fee of \$15 to the Office of Admissions. Make remittances payable to Seattle University.
3. If University housing is desired, immediately upon receipt of housing material submit an advance room deposit of \$70. This deposit is not refundable after August 1.
Requests for housing for men and woman should be addressed to the Director of Resident Student Services.
4. Follow carefully any other instructions which are received with the letter of acceptance.

Notification of acceptance or refusal will begin December 1 and continue as files are completed. However, students whose records do not give sufficient evidence of the ability to pursue college level work will be notified that a final decision will not be made until the receipt of specified information.

High school students are encouraged to apply before May 1. All applications for admission should be received no later than one month before the beginning of each quarter.





Early Admission

High school students with a grade point average of 3.3 or above on the 4.0 scale and who are recommended by their high school principal and their high school counselor will be considered for enrollment after their junior year at high school.

Early Decision Plan

Students who select Seattle University as their first-choice college and who have clearly demonstrated a high level of scholastic ability are eligible to apply for admission under this plan. Complete admission credentials should be submitted as soon as possible after the close of the sixth semester, but no later than November 1 of the senior year. Notification will be sent as soon as all credentials are received.

Probation

Students admitted on probation will be placed in the General Studies Program under the guidance of the General Studies Director. Probation students must gain regular status by the end of the freshman year or be subject to dismissal from the University.

Test application forms and information concerning testing centers and test dates may be obtained from high school counselors and principals. Applicants planning to take the College Boards may also write directly to the Educational Testing Service, P.O. Box 1025, Berkeley, California 94701, or P.O. Box 592, Princeton, New Jersey 08540. Students living in the eastern half of the United States should write to the latter address. Applicants planning to take ACT tests may write directly to American College Testing Program, Inc., Iowa City, Iowa. The Washington Pre-College Test will be made available to juniors in all Washington High Schools.

Placement Examinations

Placement test in chemistry, mathematics and foreign languages are administered by these departments during Orientation and offer entering freshmen the opportunity to show the extent of their preparation in these areas and enable their department head or adviser to determine the level at which they are ready to begin college work. For additional mathematics placement information, consult the departmental section of this bulletin.



Entrance Examination

In addition to the high school record, it is recommended that candidates for admission to the Freshman class take the Scholastic Aptitude Test of the College Entrance Examination Board or the test of the American College Testing Program or the Washington Pre-College Test and have the scores submitted to the Admissions Office of the University.

Advanced Placement

Entering students interested in receiving advanced placement in subject matter other than as set forth above should plan to take the Advanced Placement Tests of the College Entrance Examination Board. Information concerning these tests may be obtained from high school guidance personnel or by writing to Educational Testing Service. The Educational Testing Service will forward test results directly to Seattle University. At the discretion of the dean of the school and the head of the department, a student who has been given advanced placement on the basis of the CEEB Advanced Placement Tests may also be granted college credit. Advanced Placement or credit may also be granted on the basis of the subject examinations of the College Level Examination Program (CLEP) of the College Entrance Examination Board. To receive course credit through CLEP, students must submit the test results one month prior to the quarter they wish to enroll.

Special Consideration

Mature students who give exceptional promise may be admitted without rigid adherence to minimum unit requirements even if they have not graduated from high school or have graduated from a non-accredited high school. Decision as to admission in these cases is reserved to the Academic Vice President and the Board of Admissions. In some cases the student will be directed to the Counseling and Testing Center at Seattle University for guidance and testing.

Auditor

Admission as an auditor must be approved by the instructor of the course. An auditor will not be required to participate in class discussion or laboratory work. Assignments may be made at the discretion of the instructor.

From Other Universities

A student who has established a satisfactory record in another accredited college or university may apply for admission with advanced standings at Seattle University. An applicant for transfer must:

1. Submit to the Director of Admissions at Seattle University the application form, application fee and one official copy of a transcript from each college previously attended. Failure to furnish previous college records when applying for freshman standing or to supply complete college credentials when applying for advanced standing placed students under penalty of immediate dismissal.
2. Present a minimum 2.00 academic grade point average for college work attempted prior to transfer. Courses completed at the lowest passing grade are acceptable for transfer, but the dean or department chairman may require that such courses in the major field be repeated. No transfer applicant will be admitted with a grade point average below 2.00.
3. Transfer applicants who have completed less than one full year (30 quarter credits or 20 semester credits) at another university must fulfill secondary school unit requirements for admission to the Freshman class.
4. Submit a non-refundable application fee of \$15 to the Office of Admissions. Make remittances payable to Seattle University.

Students of other colleges or universities who have been placed on probation, suspended, or dismissed will not be considered for admission to Seattle University until at least one calendar year has elapsed. At the end of this period, admission can be granted only by the Board of Admissions. In such cases two letters of recommendation are required.

In assessing the student's record for admission, grades in non-credit courses will not be counted. For work done in institutions whose academic standing is unknown or for work with private teachers, admission and advanced credit will be granted only upon examination. Examination to establish credit for such work may be taken after completion of 15 credits in residence. This credit is granted according to conditions set down under Credit by Examination (see page 28).

Advanced Standing

For the purpose of guidance and registration, the Admissions Office will make tentative evaluation of transfer credits. All evaluations are subject to the approval of the Academic Vice President and the dean of the appropriate school.

The following conditions apply to transfer students in granting credits acceptable to Seattle University:

1. Credit transferred from two-year colleges may be applied to University freshmen and sophomore years only. Transfer of such credit may not exceed 90 credits.
2. For admission with advanced standing no more than 135 quarter credits in academic subjects will be accepted toward a bachelor's degree requiring four years of college study. All transfer students must take at least two courses in their major field of study at Seattle University and meet philosophy and theology requirements. Consult page 24 for listing of required courses in philosophy and theology.



3. Credit earned through extension courses may be accepted if the institution offering such work is a member of the National University Extension Association. Not more than 45 credits of extension credit will be accepted. Credit earned through correspondence shall not exceed 12 credits and must be included in the extension credit total of 45 credits.
4. Credits over 10 years old will be reviewed to determine transferability.

Foreign Students

Seattle University admits a limited number of students from foreign countries. Specific admission requirements and procedures for all foreign students, except Canadians, are listed on the official foreign student application form. Canadian applicants must meet the admission requirements outlined above for American students and eligible for admission to the university of their province. The Immigration Form (1-20) necessary to enter the United States is issued to the student upon receipt of proof of financial responsibility.

Special Students

A special student may take such undergraduate courses as the dean of his school may determine. A special student is not eligible for a degree until he fulfills the requirements for admission to the college in which he is enrolled. He may then become a regular student.

Transient Students

Admission as a transient student is granted to a student in good standing in any recognized college who meets Seattle University's admission standards and who is taking work to be transferred to his college. By special arrangement superior high school students may be admitted to specific courses in a transient status. University credit will be awarded for successful completion of the course to be applied toward a degree after the student enrolls in a college or university.

ACADEMICS



On October 26, 1931, Seattle College admitted its first women students in night school, non-credit lecture classes, and by 1933, the coeds were taking afternoon classes for credit. Fr. Howard Peronteau, S.J., the dean, was instrumental in opening the way for women to be admitted. The plan was completed under Fr. James McGoldrick, S.J., above, who became dean in 1933. On September 13, 1931, the student bookstore was established on campus. It was located in the Garrand Building from 1931 to 1965. The present Bookstore Building was acquired in 1965.

The CORE CURRICULUM

Students at Seattle University take a basic program of liberal studies courses called the core curriculum. Additional requirements, exceptions and stipulated courses are established by the schools and departments of the University and those sections of this bulletin should be consulted before choosing core courses. Check course descriptions in the respective departmental sections for prerequisites.

Required Sequences

ENGLISH SEQUENCE _____ 10 credits

En 100	Freshman English _____	5 credits
and any one of the following:		
En 132	Masterpieces of American Literature _____	5 credits
En 133	Masterpieces of World Literature _____	5 credits
En 134	Masterpieces of British Literature _____	5 credits
En 220	Introduction to Poetry _____	5 credits
En 230	Introduction to Fiction _____	5 credits
En 240	Introduction to Drama _____	5 credits
En 383	Masterpieces of Black Literature _____	5 credits

HISTORY SEQUENCE _____ 10 credits

Plan 1

Any two of the following courses in sequence: Hs 101 and 102 or 102 and 103.

Plan 2

Hs 103, Western Culture III, and any one of the following: Hs 231, 251, 271, 381, 347 or 348.

*FINE ARTS SEQUENCE _____ 5 credits

FA 101	Fine Arts—Art _____	5 credits
FA 102	Fine Arts—Drama _____	5 credits
FA 103	Fine Arts—Music _____	5 credits

*Any one of the above courses may be taken as an option to an English literature CORE course or a history CORE course to fulfill five (5) credits. (This option applies only to students in the Schools of Arts and Sciences and Nursing, but not Business, Education, or Science and Engineering, who require their students (including those transferring in from another School within the University or outside of it) to take the regular English/History sequence.)

MATHEMATICS/SCIENCE SEQUENCE _____ 10 credits

Any two 5-credit courses in mathematics, biology, chemistry or physics, which the student is qualified to take, will fulfill the mathematics/science requirement. The following courses are recommended for non-majors in mathematics and the sciences:

BI 101	Life Science _____	5 credits
Ch 100	Principles of the Physical Sciences _____	5 credits

Mt 175	Mathematics for Liberal Arts Students _____	5 credits
Ph 100	Modern Physical Science _____	5 credits
Ph 110	Fundamentals of Astronomy _____	5 credits

Business, mathematics, engineering and science majors should consult their departmental programs for mathematics/science requirements.

PHILOSOPHY SEQUENCE _____ 15 credits

PI 110	Philosophical Problems — The World _____	5 credits
PI 220	Philosophical Problems — Man _____	5 credits

and any other 5-credit course in philosophy which the student is qualified to take. No philosophy courses may be taken in the fall quarter of the Freshman Year. Consult the course listing in the Philosophy department section of this bulletin for third course options.

Transfer students with junior or senior standing (90 or more credits) are usually required to take two philosophy courses after transferring. Transfer students with freshman or sophomore standing (89 or fewer credits) are usually required to take three philosophy courses.

SOCIAL SCIENCE SEQUENCE _____ 10 credits

Any two 5-credit courses in economics, political science, psychology and/or sociology for which the student is qualified. The following are recommended:

Cs 321	Asian-American Experience _____	5 credits
Ec 100	Nature of Economic Society _____	5 credits
Ec 271	Principles of Economics I _____	5 credits
Ec 272	Principles of Economics II _____	5 credits
Ec 273	American Economic History _____	5 credits
Ec 371	History of Economic Thought _____	5 credits
PIs 160	American National Government _____	5 credits
PIs 200	Comparative European Democracies _____	5 credits
PIs 214	Government and the Economy _____	5 credits
PIs 242	American Political Thought _____	5 credits
PIs 249	Introduction to International Politics _____	5 credits
PIs 340	Comparative Asian Systems _____	5 credits
PIs 341	Comparative African Systems _____	5 credits
PIs 375	Minority Politics in the United States _____	5 credits
Psy 100	Introductory Psychology _____	5 credits
Psy 210	Personality Adjustment _____	5 credits
Psy 315	Abnormal Psychology _____	5 credits
Psy 322	Psychology of Growth and Development _____	5 credits

Sc 101	Fundamentals of Sociology I _____	5 credits
Sc 200	Perspectives in Social Psychology _____	5 credits
Sc 266	Interracial and Interethnic Relations _____	5 credits
Sc 302	The Black People's Social Movement _____	5 credits

(Students in the School of Education substitute Ed 322 for Psy 322.)

THEOLOGY AND RELIGIOUS STUDIES SEQUENCE _____ 10 credits

Students should choose one 5-credit course from each of the two theology and religious studies areas listed below:

AREA 1		
Rs 200	Judaean Christian Origins _____	5 credits
Rs 210	Synoptic Gospels _____	5 credits
Rs 215	Johannine Theology _____	5 credits
Rs 220	Pauline Theology _____	5 credits
Rs 240	Prophetic and Wisdom Literature of the Old Testament _____	5 credits
Rs 289	Comparative Religion _____	5 credits
Rs 290	Religious Experience, East and West _____	5 credits

AREA 2		
Rs 320	Fundamental Themes in Theology _____	5 credits
Rs 330	The Problem of God _____	5 credits
Rs 335	Christ and Modern Man _____	5 credits
Rs 340	Theology of Man _____	5 credits
Rs 344	Church as Community _____	5 credits
Rs 347	Black Religious Experience _____	5 credits
Rs 350	Perspective of Christian Hope _____	5 credits
Rs 420	Christian Sacraments _____	5 credits
Rs 433	Theology of Human Sexuality and of Marriage _____	5 credits
Rs 443	Vatican II and Future _____	5 credits
Rs 450	Theology of Liberation _____	5 credits
Rs 475	Contemporary Christian Morality _____	5 credits
Rs 476	Social Theology _____	5 credits
Rs 477	Christian Response to Some Socio-Legal Problems _____	5 credits
Rs 490	Special Topics - Core _____	3-5 credits

Students should begin their theology sequence in the Sophomore Year or later and should have taken some philosophy courses.

Transfer students with junior or senior standing (90 or more credits) must take one theology course. Transfer students with freshman or sophomore standing (89 or fewer credits) must take two theology courses.

Core Exceptions for Science, Engineering and Business

Science and engineering students should consult the section of the bulletin giving their programs of studies for their history and social science requirements.

Students in the School of Business must consult that section of this bulletin for required courses.

Academic Regulations

Each student is responsible for informing himself of the academic regulations and requirements set forth in this Bulletin of Information and for revisions of same as posted on campus bulletin boards or in other official publications of the University. Failure to meet the requirements or comply with regulations because of lack of knowledge thereof does not excuse the student from being subject to them.

A student's program of study must be approved by a member of the faculty, usually the adviser, at registration. However, such approval does not give official sanction to any failure to meet University requirements nor does it free the student of that responsibility necessary to intelligent personal choice.

The Academic Council has discretionary powers for all cases not covered by the rules and regulations listed in this section. The University reserves the right to cancel any class which does not meet the required minimum enrollment. The enrollment and graduation of each student, the awarding of academic credits, and the granting of any award or degree are strictly subject to the disciplinary power of the University. The University reserves the right to change any requirement and to ask a student to withdraw at any time.

The policy of Seattle University on the right of student access to his/her educational record and on confidentiality of information conforms to current public law. The full statement of policy is available for inspection in the Office of the Academic Vice President and/or Registrar.

Academic Terms

ACADEMIC AVERAGE — Computed by the University for each applicant to determine the quality of high school work in academic subjects such as English, algebra, history, and laboratory sciences. Non-academic high school subjects such as music, physical education, and typewriting are excluded when this average is computed.

ACCREDITED — Certified as fulfilling standards set up by regional accrediting agencies. Indicates that course work is acceptable to other colleges or universities.

ADVANCED PLACEMENT — Admission of freshmen to courses beyond the beginning level. Granted to students who pass designated advanced placement tests.

ADVANCED STANDING — Granted to transfer students who have previous college work which is acceptable to Seattle University.

ADVISER — A member of the faculty designated to assist the student in planning his program of study.

AUDITOR — A student who is permitted to register for course without obtaining college credit.

BACCALAUREATE MASS — Official academic function of Commencement Week for those graduating.

CERTIFICATION FOR TEACHERS — Granted through the School of Education to graduates who have met State of Washington requirements for teaching in elementary or secondary schools.



CHANGE OF MAJOR — Procedure whereby student declares his intention to change from one subject field into another within the same division (school or college) of the University.

CHANGE OF SCHOOL — Procedure whereby student obtains permission to change from one school of the University into another and officially notifies deans and the Registrar of the change.

CLASS CARDS — Issued to students and collected from them during registration. Used to produce class lists which constitute official notification to instructor that the student is enrolled in his class.

CLASSICAL — One of two types of degree programs offered by the College of Arts and Sciences. The classical degree differs from the non-classical in that it requires 15 hours of Latin or Greek courses numbered 300 to 499.

COLLEGE — One of the six academic administrative divisions of Seattle University, i.e., College of Arts and Sciences, consisting of the dean, his advisory board, the faculty of the college and the students registered in his division.

CORE CURRICULUM — That body of subject matter common to programs of study and the foundation of Seattle University's liberal education.

COMPREHENSIVE EXAMINATION — An examination covering the entire scope of the student's major area of study.

COREQUISITE — A course which must be taken in the same quarter with another specified course.

COURSE OF INSTRUCTION — A complete set of lectures, quizzes, recitations, student exercises, laboratory periods, and examinations on a given subject.

COURSE OF STUDY — See program of study.

CREDIT BY EXAMINATION — Procedure to obtain credit for work done in private study or for work not otherwise acceptable to the University.

CREDIT HOUR — The unit of instruction used in computing University graduation requirements. A credit is given for each hour of class per week for a term of nine or ten weeks. To earn five credits a student attends the class five hours each week for 10 weeks. A two-hour laboratory period is considered the equivalent of one hour of lecture and/or recitation except in the School of Science and Engineering.

CUMULATIVE GRADE POINT AVERAGE — The quality measurement of each student's university work computed by dividing total quality points by total credits attempted.

CURRICULUM — An established program of study leading toward a degree in a particular subject field.

DEFICIENCY — Lack of credit in a course required for graduation, or lack of credit in subject matter required for entrance.

DEGREE — Awarded by the University upon successful completion of a specific program of study.

DEGREE PROGRAM — See Program of Study.

DEPARTMENT — A division of a school or college of the University consisting of those faculty members who are actively engaged in instruction, administrative or research work in a specific subject field under the direction of a chairman.

ELECTIVE — A subject chosen by the student not demanded by his program of study.

FIELD OF CONCENTRATION — Student's major field. See major.

FIFTH YEAR — Status of those with bachelor's degree taking additional college work in any undergraduate area of study with no specific degree objective; may be seeking teacher certification.

FULL-TIME — For academic reporting purposes, 12 credits is considered full-time for undergraduate students and nine credits full-time for graduate students.

GENERAL STUDIES — Program for students who have a wide range of interest and want a broad liberal arts education, as well as students who have not yet decided upon a traditional major.

GRADE POINT AVERAGE — An average computed on the basis of numerical values assigned to the letter grades received by students. To determine this average the quality points assigned to the letter grades are totaled and divided by the total number of credit hours attempted.

GRADUATE STUDENT — One who has been admitted to Graduate School to pursue a specific advanced degree program or post master's program.

HUMANITIES — Cultural subjects as distinguished from social sciences (history, psychology, or sociology) and physical sciences.

I-20 FORM — United States immigration Form No. 20 issued by the University to students from foreign countries who have been accepted for admission.

INTERNSHIP — A period of one quarter or one year during which a student gains experience in an actual work situation. The length of internship and type of agency to which a student is assigned are determined by his major or some special interest within his major field.

LOW SCHOLARSHIP LIST — A warning list published quarterly of students whose poor academic work in one quarter if not immediately improved will result in probation or dismissal.

MAJOR — The specific field of study selected by a student.

MATRICULATE — Enrollment at the University for the first time as a regular student to pursue a degree or professional program.

MAKE-UP EXAMINATIONS — Special examinations prepared by an instructor for students who for serious reason miss a scheduled examination.

MINOR — The secondary field of concentration selected by a student.

ORIENTATION — A period preceding fall quarter in which new students are introduced to the University.

PART-TIME — For academic reporting purposes, less than 12 credits is considered part-time for undergraduate students and less than nine credits part-time for graduate students.

PERMANENT RECORD — The University record of all courses for which a student registers.

PLACEMENT TESTS — Tests in a specific field administered to entering students to determine the level of achievement before assigning his college courses.

PREREQUISITE — A required course which must be complete before a student is permitted to register for a more advanced course.

PROBATION — Status resulting from academic performance below the minimum university level.

PROVISIONAL STUDENT — One who is admitted with an entrance requirement unsatisfied.

PROGRAM OF STUDY — The curriculum in a given subject matter field. A series of courses assigned by schools and departments of the University which must be completed by the student before a degree is awarded.

QUALITY POINTS — The numerical values assigned to letter grades. See the section of this bulletin on the grading system.

QUARTER — Term of instruction consisting of nine or ten weeks during which a student completes a series of courses he has selected. There are three quarters in a regular academic year, Fall — September to December, Winter — January to March, and Spring — April to June. The summer quarter extends from June to August.

RATIO STUDIORUM — Traditional plan of studies of the Society of Jesus.

READMISSION — Procedure whereby a student who has not been in attendance for one or more quarters is permitted to register for continued course work.

REGISTRATION — Official enrollment in the University. Process in which student selects his courses each quarter.



REGULAR STUDENT — A fully matriculated student pursuing a degree program.

SPECIAL STUDENT — A student taking course work is not applicable toward a degree until regular standing is achieved.

SCHOOL — An academic and administrative division of the University consisting of a dean, his advisory board, the faculty of the school, and the students registered in the school.

SPECIFIC CURRICULUM — In addition to the core curriculum required of all students, each individual student selects a specific curriculum or field of concentration. These curricula are offered by the component schools of the University according to degree requirements.

TRANSCRIPT — A copy of the student's permanent record. An official transcript is one bearing the University's seal. An unofficial transcript bears no seal and is not acceptable as a genuine copy of a student's record by other universities. There is no fee for a transcript unless the student has a financial obligation outstanding in which case the fee is the full amount outstanding.

TRANSFER CREDIT — Credit awarded to a student for work completed at another college or university.

TRANSFER STUDENT — One who is admitted to Seattle University having previously completed work at another college or university.

UNIT OF INSTRUCTION — See Credit Hour.

WITHDRAWAL — Procedure whereby student notifies the University that he will not complete course(s) for which he is registered.

Attendance Requirement

Attendance may be an essential and intrinsic element of the educative process. In any course in which attendance is necessary to the achievement of a clearly defined set of course objectives, it may be a valid consideration in determining the student's grade. While there is no all-University regulation requiring class attendance, it is the responsibility of the instructor to state the relevance of attendance at the beginning of each course.

Classification of Students

Regular undergraduate students are classified as follows:

Freshmen —	0-44 credits completed
Sophomore —	45-89 credits completed
Junior —	90-134 credits completed
Senior —	135 or more credits completed

Other students are classified as follows:

5th year —	post baccalaureate students not seeking an advanced degree
Graduate —	post baccalaureate students admitted to Graduate School for a master's degree program
Special —	an undergraduate student awaiting approval for regular status
Transients —	non-matriculated students registering for one or two quarters only
Auditors —	non-matriculated students registered for audit only not for regularly graded credit

Concurrent Enrollment at Two Colleges

University regulations require students to seek written permission to be enrolled at another institution simultaneously with enrollment here. Credits completed at a second institution are not transferable unless prior to enrolling elsewhere a faculty action authorizing dual enrollment is approved by the Dean and Registrar.

Course Numbering System

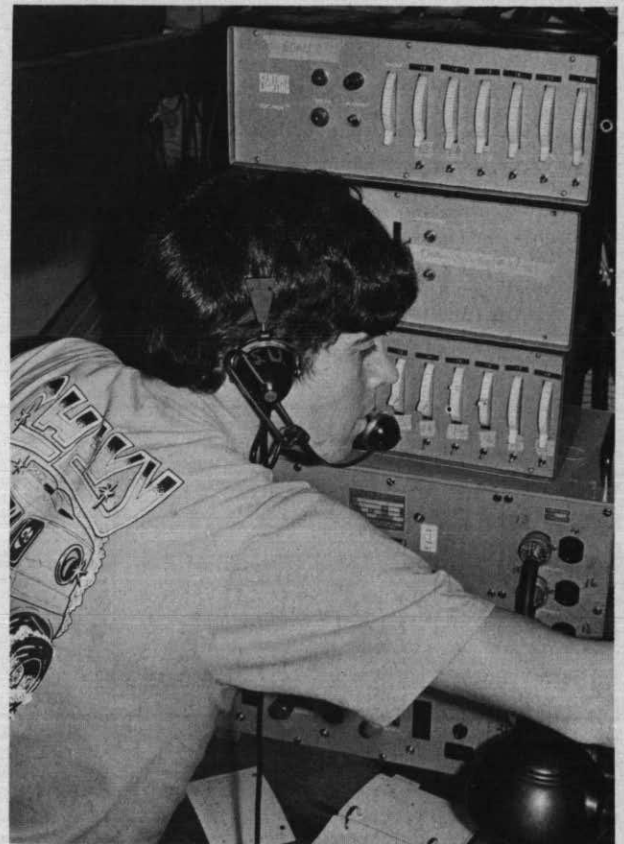
The course numbering system at Seattle University is as follows:

- 100 to 199 are freshman courses
- 200 to 299 are sophomore courses
- 300 to 399 are junior courses
- 400 to 499 are senior courses
- 500 and above are graduate courses — graduate standing required to register for courses numbered 500 or above.

Credit by Examination

Examinations for advanced credit in courses offered by the University may be taken by a student for work done in private study or on subject matter taken at a non-accredited college or university, with the following restrictions:

1. Student must be currently registered at Seattle University.
2. No student may take an advanced credit examination in a course in which he has already been registered.
3. The maximum number of credits obtainable by advanced credit examination is 30, not more than 15 of which may be obtained in one subject matter field. All credits obtained by examination will be counted as extension credit and included in the maximum 45 extension credits allowed.



4. No credit will be granted unless the applicant has earned a minimum of 15 resident credits with a minimum grade point average of 2.50.
5. No student within a given field of study may receive advanced credit in subject matter more elementary than that for which he has previously received credit.
6. No student will be permitted to repeat an examination for advanced credit.
7. No student may take examinations for more than 15 advanced credits in any one quarter.
8. No student may receive advanced credit by examination for lower division foreign language courses in his native language or from earlier schooling except in rare cases and for the 106 language course only.
9. Students who wish to qualify for credit by examination must apply to the Dean, Registrar and Controller for approval.
10. No graduate credit is to be given by examination.
11. No credit by examination may be given for physical education activity courses.

Credit Load

The normal load is 15 credits per quarter. No student may carry excess credit hours without permission from the dean of his school, which may be obtained before or during registration.

Students on academic probation may be required by the dean of their school to carry less than the normal credit load. Each student is responsible to his dean for judging the correct ratio between credit load, cocurricular activities and outside employment so that he has adequate time for academic preparation.

Dismissal

Students who have three quarters at Seattle University with a cumulative grade point average below 2.0 or who fail to maintain standards in a professional school, or those who receive failing grades in 10 or more credits in one quarter, or those with an excessive number of I or NC grades, are subject to dismissal. If dismissed for academic reasons, request for reconsideration must be filed in writing with the dean in accordance with the policy of the individual college.

A student withdrawing voluntarily from the University is entitled to a statement of honorable dismissal if he/she is not liable to dismissal on account of scholarship, absence, breach of discipline, or financial indebtedness to the University.

Examinations

Examinations in all courses are regularly held at the middle and end of each quarter, and at such other times as the instructor may determine. Absence from an announced written examination is excusable at the discretion of the instructor and subject to review by the dean. Students absenting themselves from a scheduled examination without justifiable cause will receive a failing grade for the examination.

Make-up examinations assigned by an instructor for students excused from a scheduled one are administered by the Counseling and Testing Center. Arrangements for a make-up examination and payment of the required fee are the responsibility of the student.

Grade Changes

Once a grade is recorded it can be changed only by the Academic Vice President on the written faculty action sheet completed by the instructor and countersigned by the department chairman and dean of the school. Errors in grades must be reported within six months of date of issue of grade reports.

Grade Point

The University uses a letter grade to indicate the level of individual student achievement. Each letter grade has a quality point value assigned for the grade achieved. The quality point value is assigned to each letter grade as follows:

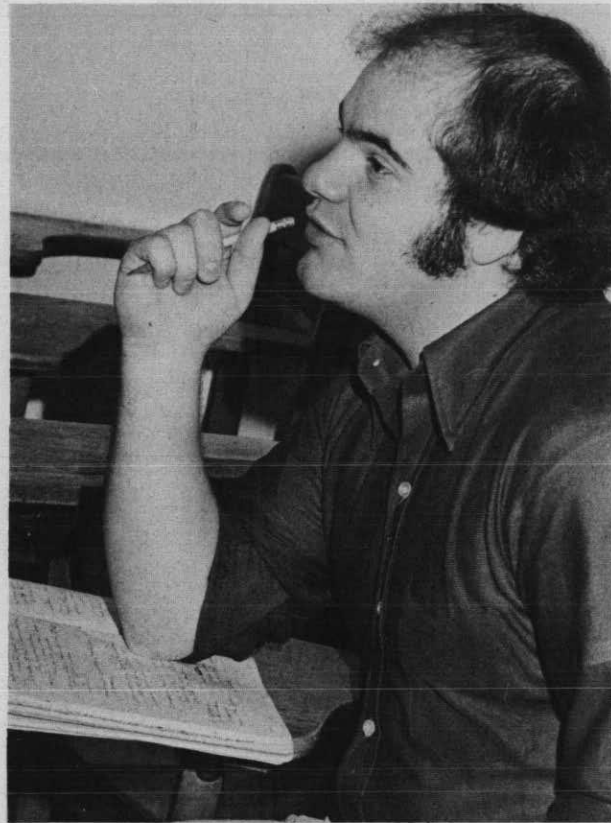
- A 4 quality points
- B 3 quality points
- C 2 quality points
- D 1 quality point
- E 0 quality points

The grades of CR, NC, I,W, S, N or Y have no negative quality point value.

Each student is required to maintain a C average, which is equivalent to a 2.00 grade point average. The grade point average is computed by dividing the total number of quality points achieved in one quarter by the total number of credit hours attempted in which the student earns a letter grade A, B, C, D or E.

Grade Reports

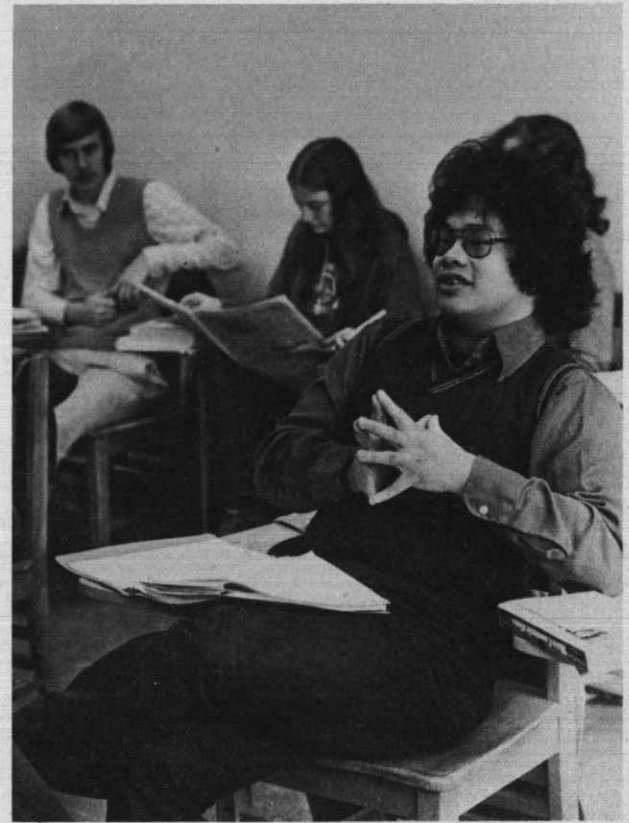
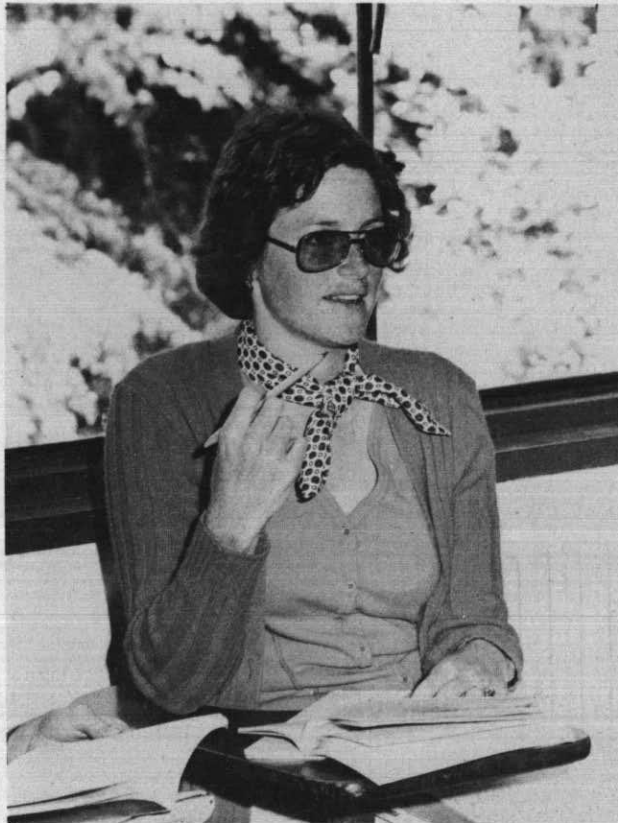
Student quarterly grade reports are mailed at the end of each quarter. The University does not hold itself responsible for grade report errors unless the Registrar is notified of the error within six months after the date of issue of a grade report.



Grading System

The University follows the letter grading system shown below.

Grade	Descriptive Value
A	Superior student — shows ability to use factual knowledge in reaching independent conclusions and can synthesize facts into a logical and coherent pattern; shows interest in relating collateral reading to the principles developed in course work; scholarship exceeds requirements.
B	Above average student — knowledge is very good, scholarship meets all requirements, information is complete but not detailed.
C	Average student — knowledge is good; scholarship meets assignments, but information is incomplete.
D	Below average student — knowledge is fair, scholarship does not meet assignments; essential information is lacking or false information given.
E	Failing student.
W	Withdrawal — official withdrawal during the first eight weeks of the quarter.
CR	Credit — grade assigned under credit/no credit option if work meets or is above minimum passing level.
NC	No Credit — grade assigned under credit/no credit option if work is below minimum passing level.



I **Incomplete** — the incomplete grade policy is as follows: At the discretion of the instructor the student is given this grade when as a result of serious illness or other justifiable cause the work cannot be completed. I grades carry no penalty — i.e. they are not counted in credit or grade point average computations. The student has until six weeks after the beginning of the next quarter, regardless of whether the student is enrolled, to complete the work and file an official Incomplete Removal request with the required fee. I grades assigned spring quarter must be removed by six weeks after the beginning of the fall quarter. Once this period elapses an I cannot be removed. In cases of serious illness, extensions will be granted provided student requests same and obtains approval from instructor and Registrar before the six week period elapses.

Records will be audited annually. Students with more than one I grade per quarter and/or a consistent pattern of I's in consecutive quarters will be considered on probation.

N **No Grade** — a suspended grade for courses in which work is not scheduled for completion until after the quarter closes, i.e. thesis or research courses at the graduate level. It is the responsibility of the student to arrange with the supervising instructor to remove the N within one calendar year of the quarter the grade is assigned. One calendar year is taken to mean within the following four consecutive academic quarters per the schedule given below. Once the closing date has passed, re-registration and payment of regular tuition is required in order to obtain

credit for the work completed. N grades assigned prior to Summer 1971 may be removed through August 1973 without re-registration.

N Grades Received	Must be Removed Before
Summer term	August of the following calendar year
Fall term	December 1 of the following calendar year
Winter term	March 1 of the following calendar year
Spring term	May 1 of the following calendar year

S **Satisfactory** — a satisfactory grade which may be given for thesis, research, independent study, off-campus courses, field experience type courses and in non-credit courses.

Y **Audit** — course for which no credit is given.

M **Missing** — symbol used on grade reports to inform student that grade has not been received from instructor.

Honor Roll

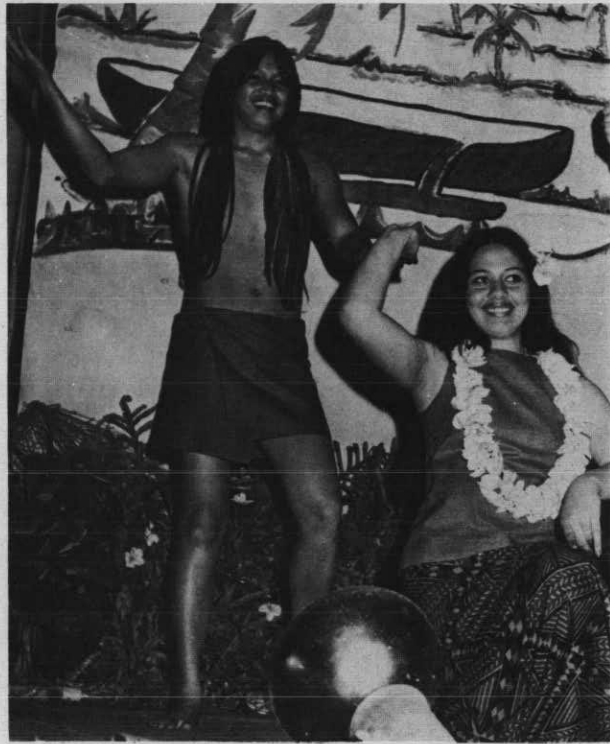
Undergraduate students registered for 12 or more credits who achieve a 3.50 or higher grade point average for any quarter will be included on the honors list published by the Registrar. The privilege of attending a single lecture or all sessions of classes for which they are not registered is granted to honor roll students with the permission of the teacher.

Credit/No Credit Option

Undergraduate students may elect a credit/no credit option in elective courses under the following conditions:

1. Student must declare his desire for credit/no credit during registration; student may change to or from credit/no credit only during the five-day drop/add period.
2. Eight courses (except those mentioned in 6 below) regardless of credit hours per course, is the maximum number of credit/no credit classes acceptable toward a bachelor's degree. Transfer students will be allowed the following number of credit/no credit courses at Seattle University:

Transfer Credits	0-44	7 courses
	45-89	6 courses
	90-134	4 courses
	135 and above	0 courses
3. Credit/no credit may apply to a maximum of two courses in the major or departmental requirements outside the University core.
4. Students who elect a credit/no credit option are eligible for quarter honor roll only if credit for graded courses totals 12 or more.
5. Only one credit/no credit course may be taken in a given quarter, except those in item No. 6 below.
6. All P.E. activity courses and music practice courses shall be credit/no credit.



7. All courses elected as credit/no credit will appear on the student's permanent record and will be graded:
 - CR (credit) — PASS
 - NC (no credit) — NO/PASS

CR and NC courses will not be computed in credits attempted and therefore will be excluded from computations of grade point averages. Courses in which a CR grade is given will be counted as completed credits. When student selected the CR/NC option this becomes a matter of record with the Registrar, but it is not reported to instructors.

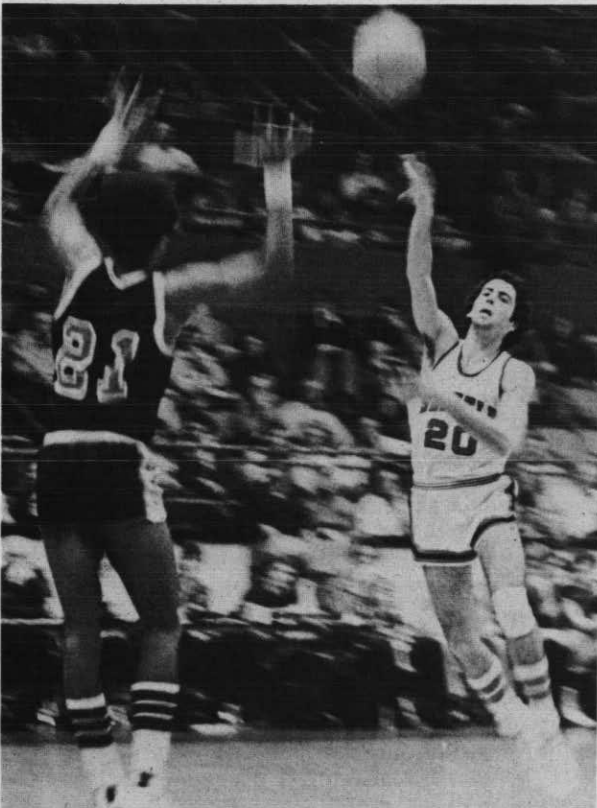
Probation

If a student falls below the standard he must maintain in order to graduate, he may be placed on probation and given the opportunity to improve the quality of his work before final dismissal. A student will be placed on probation if his cumulative grade point average falls below 2.00.

At the discretion of his dean a student on academic probation may be required to reduce the number of credits carried per quarter. Probation may extend for two quarters after the initial warning before dismissal is warranted.

Readmission

Students who have been absent from Seattle University for one or more quarters and students who have attended another school since withdrawing from Seattle University are required to fill out an application-for-readmission form. A re-entering student who has attended another school since his withdrawal from Seattle University must arrange for two copies of his transcript to be submitted to the Registrar before his application for admission can be considered.



Registration

Newly admitted students and returning students must present themselves at the University for registration on the date specified in the calendar or elsewhere by the Registrar.

No registrations are permitted after the fifth class day. Payment of the late registration fee of \$8 for the first day and \$8 for the next four days to a maximum of \$40 is required. Students registering late are held responsible for absences thus incurred.

Registration is completed only when fees are paid and approved registration cards are turned in to the Controller's office. No person may attend any University course for which he has not registered.

Registration Changes

Students are held accountable for completion of every course entered on registration cards. If it is necessary to drop or add a course or to otherwise change a program of study, the student must obtain a change of course card from the Registrar's office and present it to his adviser or dean for approval. This card must be returned to the Registrar within the specified time limit. No course may be added or changed after the fifth day of class. A student who drops or changes courses without following this procedure is ineligible for tuition refund and will be assigned a grade of I.



Repeating a Course

Students who receive a grade of D or E may repeat the course. In such cases the grade received the second time shall be the one counted in computing the grade point average required for graduation. The grade earned the second time cannot be higher than a C. In determining University graduation honors only the grade received the first time will be counted.

Transcripts

Students may obtain official transcripts from the Registrar's office. No official transcript copies will be sent for students with a financial obligation to the University until that obligation is satisfied.

Seattle University will not issue a transcript to any third party unless the student or graduate files a written request with the Registrar and supplies the necessary name and address.

Letters of recommendation or copies of transcripts should be requested at least one week before they are required. Transcripts cannot be issued during the period of registration, examinations, or commencement, nor will they be issued if the student has a financial or property obligation to the University.

The University does not hold itself responsible for any error on a transcript which is not brought to the attention of the Registrar within six months of the closing date of the quarter in which the error occurred.

Transfer within the University

To transfer from one school of the University to another or from one department to another (change of major) the student must follow this procedure:

Obtain a form from the Registrar and present it to the dean of the school from which withdrawal is sought. When the form is approved by this dean it is presented to the dean of the school in which the student wishes to enroll. If approved by the new dean the form is returned to the Registrar and the student's record is altered accordingly.

Withdrawal

The Registrar's office must be officially notified when a student withdraws from one or more of his courses. The withdrawal card is obtained from the Registrar and presented to the adviser, instructor, dean and Registrar in that order for approval and signature. In an emergency, notification of withdrawal may be made by telephoning the dean of the school or Registrar.

The official withdrawal is completed only when the approved card is presented to the Registrar within the specified time limit. A grade of W will be allowed until the eighth last class day of the quarter.

Degrees and Honors

Official Commencement Exercises are held once a year in June. Students completing course requirements at the close of summer, fall or winter quarter will receive diplomas at the succeeding Commencement. All responsibility for fulfilling the requirements for graduation rests with the individual student.

Application for a Degree

Application for a degree must be made at the Office of the Registrar within the period indicated in the University calendar or other official publications. Candidates for a degree normally file applications during the quarter preceding their final registration. A receipt for the graduation fee must be presented before the Registrar may issue the application forms.

Degree Requirements—Bachelor's

Candidates for an undergraduate degree must meet the requirements listed below.

1. Core curriculum requirements and specific requirements of the college or school from which the student expects to graduate must be fulfilled; A minimum grade point average of 2.00 must be achieved.
2. A minimum of 180 credits is required for the baccalaureate degree. However, only students matriculating as freshmen beginning September 1963 or later and transfer students matriculating January 1966 or later are eligible to graduate with 180 credits. Students who matriculated before these dates will be required to meet minimum requirements in effect at the time they were last enrolled as full time students, unless the following reduction scale applies:
 - a. Readmitted students who earn 12 credits after returning to campus will be permitted to graduate with 192 credits.
 - b. Readmitted students earning 35 credits after returning to campus may graduate with 185 credits.
 - c. Readmitted students earning 45 or more credits after returning to campus may graduate with 180 credits.
3. A minimum of 15 credits in philosophy and 10 credits in theology and religious studies are required in all degree programs. See page 24 for specific requirements.
4. The senior year must be spent in residence at the University, which shall be understood to mean the final 45 credits of degree requirements, and the class work is to be taken in the University classrooms under the direction of members of the faculty.
5. Completion of all degree requirements within 10 years of the date on which the college work was begun. Students who were in attendance prior to October 1951 are not affected by this regulation.
6. Satisfaction of all financial obligations toward the University.
7. While attendance at commencement is not compulsory, diplomas will be routinely mailed only to those graduates who declare their intention to graduate in absentia at least two weeks in advance of the commencement date.
8. Students working for a second baccalaureate degree, either consecutively or concurrently, must complete a minimum of 45 credits beyond the requirements of the first baccalaureate degree. These 45 credits must be completed in residence at Seattle University. A minimum of one course (5 credits) in philosophy and one course in theology and religious studies (5 credits) is required.



Students completing this minimum of 10 credits in philosophy and theology and religious studies at Seattle University or elsewhere as part of a first bachelor's degree will be considered as having fulfilled this requirement. Minimum academic and administrative requirements listed above must also be met.

Requirements for advanced degrees are given in the section on the Graduate School.

Honors at Graduation

Graduation with honors requires completion of at least 90 credits in residence at Seattle University; the minimum of 90 credits must be earned in regularly graded courses (courses in which grades of A, B, C, or D are given). Should a student elect the CR/NC option for any one course as part of his 90 credit minimum, he loses his honors eligibility. In programs where CR/NC grades are mandatory for field experience courses, a student with these as a part of his minimum 90 units also loses his eligibility for automatic honors on the scale shown below. However, such students may apply for honors by filing a petition with their Dean. The petition must be received by May 1 and will be reviewed by the Deans, with notification of the decision on honors issued to the student by May 20.

	1976 and After
Cum Laude	3.40
Magna Cum Laude	3.65
Summa Cum Laude	3.90

Special Awards

The President's Award — Awarded to the graduating senior who has maintained the highest scholarship throughout the four years of college work.



Seattle University's first major academic unit, the College of Arts and Sciences, was started in 1900. On April 7, 1937, Seattle College was granted full and unconditional accreditation by the Northwest Association of Secondary Higher Schools. Among the programs offered by the College of Arts and Sciences are music and drama.

COLLEGE OF ARTS AND SCIENCES

James G. Powers, S.J., Ph.D., Dean





College of Arts and Sciences

The College of Arts and Sciences has for its objective the development of personality — integral and liberal, Christian and humane. The instruments it employs to attain this objective are the traditional principles and structures of Jesuit education, of which in the ensemble of the University it is the natural custodian and guide.

Curriculum

Pursuant of this objective and these instruments and commensurate with its position as the oldest and largest school of Seattle University, the College of Arts and Sciences has a dual role: 1) for all the students of the University it provides the programs and faculty of the core curriculum — the primary instrument of Jesuit higher education and 2) for its own students it offers, beyond the core curriculum, programs and faculty guidance toward graduate proficiency in one or more of the various arts and sciences.

Organization

The College comprises 18 administrative subdivisions, of which 12 are departments in a specific academic subject. The departments are: English, Fine Arts, Foreign Languages, History, Journalism, Military Science, Philosophy, Political Science, Psychology, Rehabilitation, Sociology, Theology and Religious Studies.

The program divisions are: Community Services, General Studies, Honors, Police Science and Administration, Prelaw and Speech.

Each department chairman or program director, in collaboration with his proper or assigned faculty, arranges study programs and counsels individual students. All programs are coordinated and supervised by the Dean of the College. Students wishing to inquire about programs in detail should consult either the Dean or the respective department chairman or program director.

Admission Requirements

Students entering the College must satisfy all entrance requirements for the University as outlined in the Admission section in this bulletin. In addition, some departments list further requirements for admission into certain major programs. Concerning these the respective departmental sections in this bulletin should be consulted.

Degrees Offered

Bachelor of Arts (Classical)

Bachelor of Arts

with a major in: Asian Studies, Community Services, Drama, English, Fine Arts, Foreign Languages, History, Humanities, Journalism, Latin American Studies, Music, Philosophy, Political Science, Police Science and Administration, Psychology, Rehabilitation, Social Science, Sociology and Theology and Religious Studies.

General Program Requirements

Students in the College of Arts and Sciences must satisfy the core curriculum requirements of the University given on page 24 of this bulletin.

For the degree of Bachelor of Arts (Classical), in addition to these general requirements, the following must be fulfilled: 15 hours of courses number 300 to 499 in either Latin or Greek; 5 additional hours of English literature, and 5 additional hours of philosophy.

Additional specific requirements are set by the department or program division in which the student's major program is pursued. For these requirements consult the respective sections in this bulletin.

Subject Majors

In all programs having a specific subject major, the number of required courses and hours varies according to the department or program division. The minimal number required in any subject major is 40 hours; majors in departments having core sequences must consist of 35 hours beyond the core sequence.



Community Services

Herbert M. Kagi, Ph.D., Director

Associate Professor:

James W. King, S.J.

Assistant Professors:

Padmini Gulati
 Herbert M. Kagi
 Henrietta Tolson

Objectives

Community Services is an interdepartmental undertaking involving social work courses and economics, political science, psychology and sociology. The primary objective is to prepare students for work in the field of social services immediately after the bachelor's degree. Other objectives are to contribute to the liberal education of all students, and to prepare students for admission to graduate schools of social work. The program assists students in deciding on a career choice by making known the nature of, and opportunities in, the social service field, and provides knowledge and understanding of this field for students preparing for advanced training in the related professions.

Supervised field experience in agencies, institutions or related organizations is a unique and vital part of the program. This experience is provided in such areas as

probation and parole, public assistance, mental health facilities, youth and children's services, employment counseling and economic opportunity programs. The Community Services program is not an apprenticeship system but rather a basic program with courses and supervised field practice aimed at giving those principles, skills, knowledge and attitudes necessary for workers in the above fields. Coordinating seminars, concurrent with two required field experiences, provide each student opportunity to understand himself more deeply and acquire a broad perspective of community services.

Degree Offered

Bachelor of Arts in Community Services

General Program Requirements

Candidates must satisfy the core curriculum requirements of the University as given on page 24 of this bulletin. A minimum of two field experiences is required, with which the coordinating seminars must be taken concurrently. The required experiences must be in diverse areas.

Degree Requirements

Bachelor of Arts — 105 credits which must include CS 300, 374, 376, 378, 379, 478 and 479; 25 credits in sociology; 15 credits in psychology; 10 credits in political science; 10 credits in economics; 5 credits in statistics courses, in either the sociology or psychology departments; and 5 credits of Fine Arts.

Bachelor of Arts in Community Services

Freshman year

English 100 and core option	10 credits
History core option	10 credits
Mathematics/Science core option	5 credits
Philosophy 110	5 credits
Political Science	5 credits
Psychology	5 credits
Sociology	5 credits

Sophomore year

Economics	5 credits
Mathematics/Science core option	5 credits
Philosophy 220 and core option	10 credits
Political Science	5 credits
Sociology	10 credits
Psychology	5 credits
Theology	5 credits

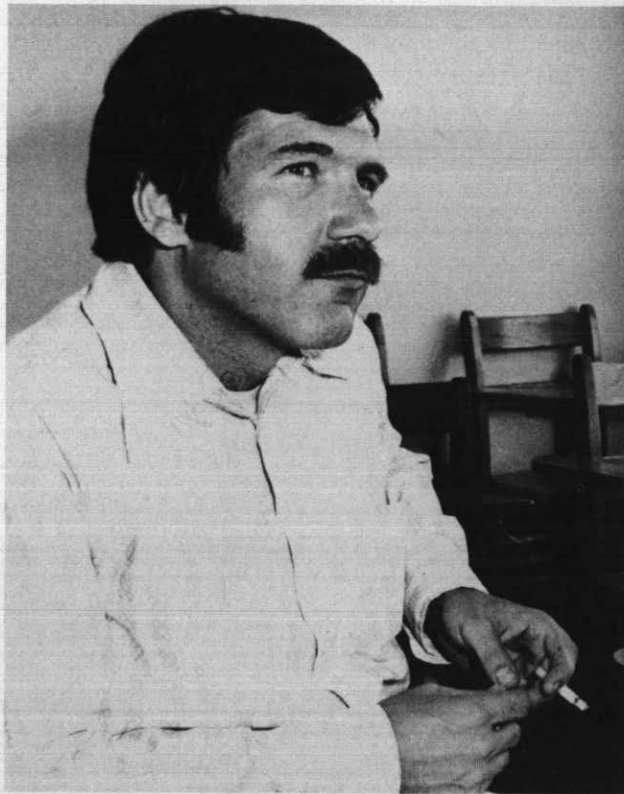
Junior year

Community Services 300, 374, 376	15 credits
Economics	5 credits
Fine Arts	5 credits
Psychology	5 credits
Sociology	5 credits
Theology	5 credits
Electives	5 credits

Senior year

Community Services 378, 379, 478, 479	20 credits
Psychology 201	5 credits
Electives	20 credits

Total . . . 180 credits



Alcohol Studies Program

James E. Royce, SJ, Ph.D., Director

Objectives

This program is designed to provide a strong background for work in alcoholism treatment and rehabilitation, in education and prevention, in social service agencies, in industry or in referral centers. It examines various aspects of addiction to alcohol and other drugs: causes, nature, effects, treatment and prevention and also provides supervised field experience.

Alcohol Studies Certificate

A certificate in Alcohol Studies will be granted upon successful completion of 20 credits, which must include the following courses: Alc 400 (or Psy 490), 401, 402, 403, 407-8, and a choice of 404, 405, 406, 409 or 410. Certificate candidates may register as transient students. These courses may also be taken as electives, or applied by those eligible toward the BA in Community Services, the BA in Rehabilitation, the BA in Police Science and Administration, or the M.A. in Rehabilitation. Candidates for the certificate may be a) paraprofessionals in or entering the field who wish stronger academic background to balance their experience, b) professionals lacking training in the specific field of alcoholism, or c) students in nursing, psychiatry or psychology, social work, rehabilitation, community services or allied fields.

The Certificate program is a combination of classroom instruction (12 credits) and supervised field experience (8 credits) under experienced counselors. Evening classes will permit in-service training.

Drug Abuse Studies Program

James W. King, SJ, S.T.D., Director

Objectives

This program is designed to provide a strong background for work in drug treatment and rehabilitation, in education and prevention, in social services agencies, in industry or in referral centers. It examines various aspects of drug addiction — causes, nature, effects, treatment and prevention and also provides supervised field experience.

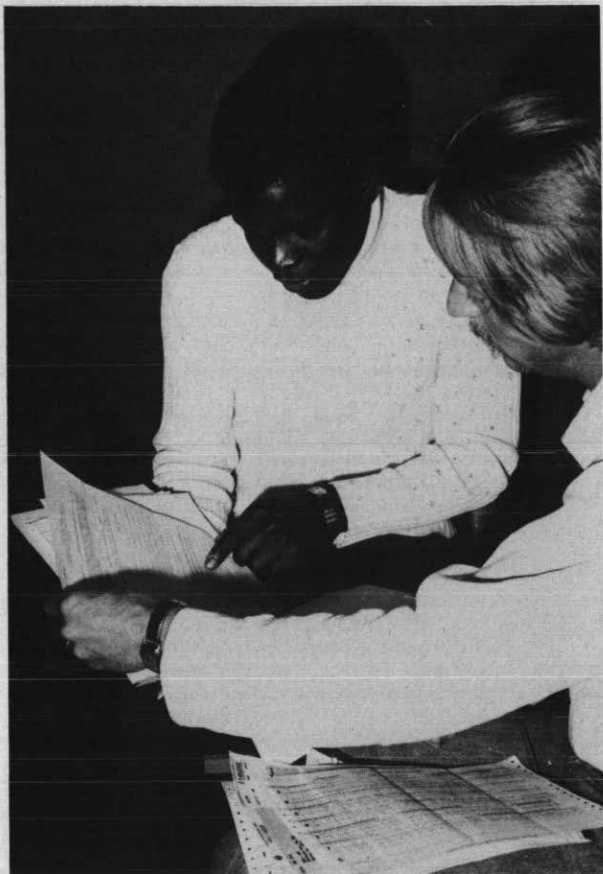
In the Seattle-King County area there are more than 45 agencies concerned with drug-related services exclusive of alcohol programs. Up to the present there has been no educational facility in this area which has instituted an in-depth training program for drug abuse specialists on the undergraduate level. This program will offer certification designed especially for the following groups: for students in the Rehabilitation Services degree program; for students in the Community Services degree program; for students in the Police Science and Administration program; for junior and senior high school health and drug counselors; for personnel from the law and justice system; for credentialed BSW and MSW graduates working in the field of drug rehabilitation; and for paraprofessionals working in drug rehabilitation agencies.

Drug Abuse Specialists Certificate

A certificate for Drug Abuse Specialists will be granted upon successful completion of 20 credits which must be in courses taken from the sequence CS 420 through CS 430. Certificate candidates may register as transient students. These courses may be taken as part of the regular accredited curriculum of the University, either as electives or applied by those eligible toward the BA in Community Services, the BA in Rehabilitation Services, and the BA in Police Science and Administration. Candidates for the Certificate may be: a) pre-professionals, many of them recovered addicts, in or entering the field, who wish stronger academic background to balance their experience; b) professionals lacking training in the specific field of drug abuse; or c) students in nursing, psychiatry or psychology, social work, rehabilitation, community services or allied fields.

Community Services Courses

- | | | |
|--------|---|-------------|
| CS 291 | Special Topics | 1-5 credits |
| CS 292 | Special Topics | 1-5 credits |
| CS 293 | Special Topics | 1-5 credits |
| CS 300 | Introduction to Community Services | 5 credits |
| | The historical development, structure and function of social welfare services and institutions with emphasis upon the philosophy and methods utilized by professional social work in meeting human needs. (fall, winter) | |
| CS 310 | Dynamics of the Family | 5 credits |
| | A study of the behavioral dynamics of interpersonal relationships with special emphasis on the impact of complementary roles in the family system. Overall concentration is on the reciprocal nature of relationships. Development of a conceptual framework for individual and family therapy through study of a variety of treatment modalities. (spring) | |



- CS 374 Intervention Skills 5 credits**
Provides students with some understanding of the basic principles and processes involved in giving help to individuals, groups and communities in the human services field; focus on some of the basic methods, techniques and strategies employed in the provision of services to these groups. (fall)
- CS 376 Factors of Interviewing 5 credits**
The interview as one of the major methods of helping people; study of factors of knowledge and method in proficient interviewing to provide a basis for future development. Prerequisite: CS 300 or permission. (winter, spring)
- CS 377 Field Experience 5 credits**
(Sc 377) For Sociology majors only. (spring)
- CS 378 Field Experience I 7 credits**
CS 379 Field Experience II 7 credits
CS 380 Field Experience III 3-7 credits
Direct observation, supervised practice experience and academic study in a selected social welfare agency or organization with stress placed upon the agency's clientele, its services and its functions in the community. Prerequisites: CS 376 or permission for 378; 378 for 379; 379 for 380. (fall, winter, spring)

Alcoholism Courses

- Alc 400 Survey of Alcoholism (Symposium) 3 credits**
History and scope of problems arising from addictive abuse. Socio-cultural, historical, criminal, statistical, industrial and family aspects of alcoholism. Definitions, stereotypes, myths, conflicting religious views. Psychology of addiction: patterns of progression, early symptoms and diagnosis, types of alcoholics. Theories of etiology; the disease concept. (Psy 490 may substitute for this course.) Pre or corequisite to Alc 401 through 410.
- Alc 401 Pharmacology, Detoxication and Medical Treatment 2 credits**
Physiology of alcohol: ingestion, absorption, metabolism. Behavioral effects of different blood levels. Psychiatric complications: damage to brain, liver and other organs; the alcoholic psychoses. Acute alcoholism. Emergency treatment. Management as a chronic illness. Therapeutic uses of other drugs. Clinics, antabuse, aversion therapy, inpatient vs. outpatient. Evaluation and comparison of results. Prerequisite: Alc 400.
- Alc 402 Counseling Principles and Techniques 3 credits**
Client-counselor relationships. Interview techniques. Intake and crisis intervention vs. long-range therapy. Supportive, client-centered, transactional, group, reality therapy and other approaches. Confrontation, role-playing, marriage problems. Report writing. Vocational and occupational guidance. Information and referral, use of local facilities. Pre or corequisite: Alc 400.
- Alc 403 Personal and Social Rehabilitation 2 credits**
Motivation and personality reconstruction in the recovering alcoholic. Post-detoxication vs. long-range sobriety; relapses, the dry drunk. Spiritual aspects of rehabilitation. Alcoholics Anonymous. Family and social adjustments. Al-anon and Ala-teen. Industrial programs and policies. Pre or corequisite: Alc 400.

- CS 315 Working with Children 2 credits**
Concepts, principles and the practice of social settings—from day care and recreation to individual and family counseling situations. Theories of child development which direct the modes of service to children. Study of the laws which control agency services to children. Examination of selected agency case records.
- CS 321 Asian-American Experience 5 credits**
From an historical perspective the course will cover the period beginning with the Asian immigrants to America. It will focus on the adaptations and the problems they faced and how they laid the groundwork for the present generation of Asian-Americans. The role of the dominant society in shaping the identity of the Asian-American will also be covered. (spring)
- CS 330 Citizen and the Law 3 credits**
A discussion of the role of the lawyer in society; a survey of the fields of poverty law; the processes of legal research; the Court system; jurisdiction — federal, state and local; and the structures of a lawsuit from complaint to decision. The course will also cover family law, the contractual relationship, consumer law, landlord-tenant and house laws, tort law and personal liability, wills and probate. (spring)
- CS 360 Society and Justice 5 credits**
Examination of the sanctions and processes of criminal law as related to the ethical implementations of social justice. Prerequisite: Upper division standing.

40 ARTS AND SCIENCES
Community Services

Alc 404 Agency Administration 2 credits
 Personnel policies and practices, budgeting, financing, office management, public relations, professional ethics. Informational and educational policies and techniques. Relations with public and private school systems, courts, other professions and agencies, law enforcement agencies, the clergy. Prerequisite: Alc 400.

Alc 405 The Law and Alcohol 2 credits
 Impaired driving, traffic court schools, probation and parole, correctional programs, constitutionality problems, preventative programs. Prerequisite: Alc 400.

Alc 406 Counseling Ethnic/Minority Alcoholics 2 credits
 Special problems and techniques, understanding of cultural background and instruction by members of minority groups. Prerequisite: Alc 400.

Alc 407 Field Experience I in Alcoholism 4 credits

Alc 408 Field Experience II in Alcoholism 4 credits
 Supervised work in an agency, clinic, rehabilitation center and referral center. Oral and written reports by student required. Prerequisite: Alc 400.

Alc 409 Special Topics 1-3 credits
 Courses taught by a particular expert or on a certain aspect; e.g., counseling the alcoholic family.

Alc 410 Individual Research 1-3 credits
 Open only to students with sufficient academic background to pursue independent study. Permission of director required.

Drug Abuse Courses

CS 420 History and Survey of Drug Abuse 5 credits
 Scope and complexity of problems arising from addictive drug abuse. Socio-cultural, historical, criminal, statistical, industrial, family aspects of drug abuse. Psychology of drug addiction; patterns of progression, early symptoms and diagnosis; types of drug addicts. Theories of etiology.

CS 421 Pharmacology, Detoxification and Medical Treatment 2 credits
 Pharmacology: physiology of drug addiction, tolerance, physical dependence, behavioral effects; complications of drug abuse: medical, psychiatric; treatment: emergency, detoxification, maintenance, narcotic antagonists, relationships between medical and psychological rehabilitation.

CS 422 Drug Counseling Principles and Techniques 2 credits
 Client-counselor relationships. Interview techniques. Intake and crisis intervention vs. long-range therapy. Supportive, client-centered, transactional group confrontation, aversion therapy, other treatment modalities. Vocational and occupational guidance. Information and referral, use of local facilities.

CS 423 Personal and Social Rehabilitation 2 credits
 Personality reconstruction in the recovering drug addict or abuser. Post-detoxification vs. long-range drug-free state, relapses, spiritual aspects of drug rehabilitation. Family and social adjustments. Follow-up techniques. Civil government and industrial programs and policies.

CS 424 Agency Administration 2 credits
 Personnel policies and practices, budgeting, financing, office management, public relations, professional ethics. Governmental regulations of drug agencies. Informational and educational policies and techniques. Relations with public and private school systems, courts, other professions and agencies, law enforcement agencies and the clergy.

CS 425 The Law and Drug Misuse 2 credits
 Local, state, federal laws concerning schedule drugs and opiates. Changing patterns of law on these governmental levels. Possession-sale law patterns. Marijuana and the law.

CS 426 Counseling Ethnic/Minority Drug Abusers 2 credits
 Special problems and techniques, understanding of cultural background. Instruction by qualified members of such groups as Blacks, Asian Americans and American Indians.

CS 427 Field Experience I - Drugs 4 credits

CS 428 Field Experience II - Drugs 4 credits
 Supervised work in two different agencies, clinics, rehabilitation centers, referral centers, mental health centers. Oral and written reports of students required.

CS 429 Special Topics - Drugs 1-2 credits
 Courses taught by experts in specialized areas or on certain aspects of drug use, abuse, rehabilitation, e.g., Transcendental Meditation and drug rehabilitation; behavioral modification; milieu; Gestalt theory.

CS 430 Individual Research - Drugs 1-2 credits
 Open only to students with sufficient academic background to pursue independent study. Permission of director required.

CS 478 Coordinating Seminar I 3 credits

CS 479 Coordinating Seminar II 3 credits
 Discussion and analysis of practices, programs, objectives, policies and procedures of various agencies, organization and institutions. Corequisites: CS 378 with 478; 379 with 479.

CS 491 Special Topics 1-5 credits

CS 492 Special Topics 1-5 credits

CS 493 Special Topics 1-5 credits
 Prerequisite: Upper division standing and permission.

CS 497 Individual Research 1-5 credits
 By arrangement, with professional supervision. Prerequisite: Upper division standing and permission.

CS 498 Independent Study 1-5 credits
 Prerequisite: Upper division standing and permission.



English

Alexander McDonald, S.J., M.A. (Oxon.), Chairman

Professors:

Robert J. Carmody, S.J. (Emeritus)
Joseph B. Monda
Edward H. Spiers

Associate Professors:

Hamida Bosmajian
Kenneth D. MacLean
Alexander F. McDonald, S.J.
James G. Powers, S.J.
William Taylor
Charles A. Wollesen, S.J.

Assistant Professors:

Donald J. Foran, S.J.
Dolores M. Johnson
Stephen R. Kuder, S.J.
Erlinda F. Rustia
Edwin H. Weihe

Objectives

The English department offers courses which are designed to develop in the student a knowledge and appreciation of the literature which comprises our cultural heritage, to give the student a knowledge of the language and its effective use in communication, and to prepare graduates for those professions which require a broad background in language, rhetoric and literature.

Degrees Offered

Bachelor of Arts
Master of Arts
Master of Arts (in Teaching)

General Program Requirements

Students in English must satisfy the core curriculum requirements of the University as given on page 24 of this bulletin. A Fine Arts sequence, FA 101, 102, 103, is recommended. For English majors the second core course requirement is met by En 264, 265 or 266. Those students who plan to go to graduate school, unless they have already achieved reading proficiency in French or German, are strongly advised to take 10 credits of one of those languages.

Departmental Requirements

Bachelor of Arts (English concentration)—60 credits of English which must include the following courses: En 100, 250, 264, 266, 310, 314, 315 and 330. The remaining credits must be taken in courses in the 300 and 400 series. The nature of the courses is to be determined by the student in consultation with his adviser.

Bachelor of Arts (Comparative Literature Concentration)—60 credits of English and Comparative Literature which must include the following courses: En 100, 250, 264, 265, 266, 314, 315, 414 and 416. The remaining credits must be taken in the 300 and 400 series. Recommended are En 382 and 415. The student must take one five-hour course of a foreign literature in the original language when a reading competency in that language has been demonstrated.

Teaching Major (School of Education) — 60 credits of English which must include En 100, 175, 250, 264, 265, 301, 330, either 266, 382, 482 or 484, and either 310 or 407. The remaining 15 credits must be taken in courses in the 300 and 400 series. En 314 and 315 are strongly recommended.

Undergraduate Minor — 20 credits of English beyond En 100 and either 264, 265 or 266. These courses should be taken in the 300 and 400 series, as specified by the department. For the Journalism — English Interdisciplinary Program, see the section on Journalism.

Master of Arts — 35 credits of English of which 25 must be in courses numbered 500 or above. In addition, a final written and oral examination, reading knowledge of a foreign language (normally French or German) and a master's essay are required. Details of this program can be obtained from the English Department.

Master of Arts in Teaching — 40 credits of English of which 25 must be in graduate courses. En 501, 505, 507 (or their equivalents) are required. Neither a foreign language nor thesis is required, and there is no final comprehensive examination.

Bachelor of Arts

Freshman year

English 100, 250.....	10 credits
Fine Arts 101, 102, 103 (English concentration; recommended).....	15 credits
Foreign Language (Comparative Literature concentration; recommended).....	15 credits
History core option	10 credits
Philosophy core option.....	10 credits

Sophomore year

English 264, 265, 266.....	15 credits
Mathematics/Science core option	5 credits
Philosophy core option.....	5 credits
Social Science core options	10 credits
Theology core options.....	10 credits

Junior year

English 310, 314, 315, 330 (English concentration).....	20 credits
or	
English 314, 315, 414, 415 (Comparative Literature concentration)	20 credits
French or German 105, 106	10 credits

Senior year

English 300 and 400 series courses	15 credits
Electives	30 credits

Total 180 credits

English Courses

En 100 Freshman English	5 credits
Study and practice in rhetoric, emphasizing expository writing and mastery of style.	
En 101 Freshman English	5 credits
Continuation of En 100.	
En 132 Masterpieces of American Literature	5 credits
Close reading and analysis of American literary classics: novels, plays, poetry and essays.	
En 133 Masterpieces of World Literature	5 credits
Close reading and analysis of world literary classics: novels, plays, poetry and essays.	
En 134 Masterpieces of British Literature	5 credits
Close reading and analysis of British literary classics: novels, plays, poetry and essays.	
En 175 Introduction to Literature	5 credits
Introduction to the study of novels, plays, poetry and essays.	
En 200 Advanced Composition	5 credits
Advanced study and practice in expository writing.	
En 203 Vocabulary	5 credits
A practical course in vocabulary building. Emphasis on etymology, Latin and Greek roots, prefixes and suffixes.	
En 220 Introduction to Poetry	5 credits
Introduction to the study of poetry with special emphasis on appreciation, form and technique.	



En 230 Introduction to Fiction	5 credits
Introduction to the study of fiction with special emphasis on appreciation, form and technique.	
En 240 Introduction to Drama	5 credits
Introduction to the study of drama with special emphasis on appreciation, form and technique.	
En 250 Practical Criticism	5 credits
Introduction to the terminology and techniques of literary analysis. Required of English majors.	
En 264 Great English Authors I	5 credits
En 265 Great English Authors II	5 credits
En 266 Great English Authors III	5 credits
I. Study of major British writers from the Medieval period through the Renaissance (1640). II. Study of major British writers from the Puritan period through the Eighteenth Century (1640-1798). III. Study of major British writers from the Romantic period to the Victorian period (1798-1900). Required of English majors.	
En 291 Special Topics	1-5 credits
En 292 Special Topics	1-5 credits
En 293 Special Topics	1-5 credits
En 301 Advanced Rhetoric and the Teaching of English	5 credits
Study of rhetorical theory and techniques and their application to writing, with emphasis on methods of teaching composition.	
En 305 Writing Fiction	5 credits
Study and practice in the forms and methods of short story writing, with subsidiary attention to other types of narrative writing.	
En 306 Writing Poetry	5 credits
Study of and practice in the modes and techniques of poetic composition.	
En 310 Introduction to Chaucer	5 credits
Study of Chaucer's "Canterbury Tales." Required of English majors.	
En 313 Mythology	5 credits
Study of the mythological backgrounds of English and American literature.	

En 314	Backgrounds of Western Literature I	5 credits
En 315	Backgrounds of Western Literature II	5 credits
	I. From the beginnings into Medieval Period. II. From Dante through the Renaissance. Required of English majors.	
En 330	Introduction to Shakespeare	5 credits
	Readings in the comedies, tragedies and histories. Required of English majors.	
En 382	Major American Novelists	5 credits
	American fiction from its beginning to modern times: Cooper, Melville, Twain, James, Hemingway, Faulkner and others.	
En 383	Classics of Black American Literature	5 credits
	An historical approach to the literature of Afro-Americans, with emphasis on the moderns: Jones, Wright, Cleaver, Baldwin, Ellison and others, in the context of general American literature.	
En 391	Special Topics	1-5 credits
En 394	Modern Tradition: Fiction	5 credits
En 395	Modern Tradition: Poetry	5 credits
En 398	Modern Tradition: Drama	5 credits
En 401	Studies in Rhetoric	5 credits
En 407	History of the English Language	5 credits
	Study of the historical development of English.	
En 411	Medieval Literature	5 credits
En 414	Eighteenth and Nineteenth Century Continental Literature	5 credits
En 415	Russian Literature	5 credits
En 416	Eastern Literature	5 credits
En 420	Renaissance Literature	5 credits
En 430	Shakespeare I	5 credits
En 431	Shakespeare II	5 credits
	I. Tragedies. II. Comedies/histories.	
En 440	Milton	5 credits
En 445	Seventeenth Century Literature	5 credits
En 450	Restoration and Eighteenth Century Literature	5 credits
En 452	Eighteenth Century English Novel	5 credits
En 460	Romantic Literature	5 credits
En 475	Victorian Literature	5 credits
En 477	Nineteenth Century English Novel	5 credits
En 482	American Literature to 1900	5 credits
En 484	Twentieth Century American Literature	5 credits
En 487	Contemporary Literature	5 credits
En 488	The Film and Literature	5 credits

En 490	Literary Criticism	5 credits
En 491	Special Topics	1-5 credits
En 492	Special Topics	1-5 credits
En 493	Special Topics	1-5 credits
En 497	Individual Research	5 credits
En 498	Individual Research	5 credits

Graduate Courses

En 500	Introduction to Graduate English Studies	5 credits
En 501	Studies in Rhetoric	5 credits
En 505	Comparative Grammars	5 credits
En 507	History of the English Language	5 credits
En 508	Old English	5 credits
En 510	Chaucer	5 credits
En 512	Medieval Literature	5 credits
En 520	The English Renaissance	5 credits
En 522	Elizabethan Drama (non-Shakespearean)	5 credits
En 535	Shakespeare (Comedies and Histories)	5 credits
En 536	Shakespeare (Tragedies)	5 credits
En 540	Milton	5 credits
En 545	Seventeenth Century Literature	5 credits
En 550	Eighteenth Century Literature	5 credits
En 560	English Romanticism	5 credits
En 570	Victorian Literature	5 credits
En 580	Colonial American Literature	5 credits
En 581	American Transcendentalists	5 credits
En 582	Modern American Literature	5 credits
En 584	The English Novel	5 credits
En 586	Modern Poets	5 credits
En 588	Modern Dramatists	5 credits
En 590	Theories of Criticism	5 credits
En 593	Special Topics	5 credits
En 594	Special Topics	5 credits
En 595	Special Topics	5 credits
En 596	Individual Research	5-10 credits
En 597	Individual Research	5-10 credits
En 598	Individual Research	5-10 credits
En 599	Thesis	10 credits



Fine Arts

William J. Dore, Jr., M.A., Chairman

Professors:

Louis K. Christensen
Nikolas Damascus

Associate Professors:

William J. Dore, Jr.
Marvin T. Herard
J. Kevin Waters, S.J.

Assistant Professors:

David M. Butler
James V. Connors, S.J.
Louis E. Kelly
Val M. Laigo

Objectives

The Fine Arts department provides that element of a liberal education which distinguishes the truly refined and cultured person. By studying the masterpieces of art, drama and music, the student is led to an awareness of one of man's superior intellectual powers, his creative imagination; by means of practical experience in the fine arts, he is enabled to understand the operation of that power.

By observing the characteristics of the arts in proper historical perspective, the student learns how changes of style reflect the changing attitudes, ideas, ideals and

social conditions of various historical periods. Thus the fine arts become an integrative study sharing in the common goals of all liberal arts subjects. The department offers basic professional courses in its three areas, but does not seek to duplicate the art academy, school of drama or conservatory of music. While the fine arts major acquires the basic professional foundation in his own field, the interdisciplinary approach enables him to obtain practical experience in the related art forms. The student's ability to pursue advanced study in his field will depend upon the nature of his talents and the extent of special gifts for his subject. The department also offers an elective program in Aesthetics.

Degree Offered

Bachelor of Arts

General Program Requirements

Students in fine arts must satisfy the core curriculum requirements of the University given on page 24 of this bulletin. Fifteen credits of fine arts courses are required.

Scholarships

The Fine Arts department maintains an active scholarship program in order to aid students towards graduation from Seattle University. Applicants must demonstrate talent in their chosen field as well as academic competency. Students applying for these scholarships should contact the chairman of the department for an application form.

Departmental Requirements

Bachelor of Arts — Major in Art — 69 credits which must include Art 221, 222, 223, 231, 232, 233, 311, 312, 334, 346, 351; 21 elective credits in art; 10 elective credits in music; Dr 220 and 7 elective credits in drama.

Bachelor of Arts — Major in Drama — minimum of 81 credits which must include Dr 101, 220, 221, 222, 225, 226, 227, 261, 262, 263, 351, 352, 353, 420, 421, 425, 451, 452, 453, and one of the following pairs: 300-301, 310-311, or 410-411-412; Art 221, 231 and 6 elective credits in art; Music 202, 251 and 3 elective credits in music.

Bachelor of Arts — Major in Music — 77 credits which must include Mu 115, 116, 117, 215, 216, 217, 315; 10 credits from 415, 416, or 417; 418; 6 credits of ensembles and 6 credits of vocal or instrumental lessons; 10 credits of art electives; Dr 220 and 7 elective credits in drama.

Bachelor of Arts — Area major in Fine Arts — 60 credits which must include Art 221, 222, 223, 231, 232, 233; 8 credits in the areas of painting, graphics and sculpture; Dr 220, 221, 225, 226, 227, 261, 300; Mu 115, 116, 117; 3 credits of ensembles, 3 credits of vocal or instrumental lessons; 5 credits of music electives numbered 200 or above.

Teaching Subject, Elementary, Art (School of Education) — 25 credits which must include Art 221, 231, 311, 312, 334, 346, 351, 370.

Teaching Subject, Elementary, Drama (School of Education) — 25 credits which must include Dr 220, 221, 225, 226, 227, 425.

Teaching Subject, Elementary, Music (School of Education) — 24 credits which must include FA 103, 115, 116, 117, 215; 2 credits of Mu 110 and 2 credits of Mu 130. Music 114 is required by the School of Education.

Teaching Subject, Elementary, Fine Arts (School of Education) — 25 credits which must include Art 221, 231; one course selected from 334-346-351; Art 370; Mu 115, 116; 1 credit of Mu 110 and 3 credits of Mu 130; Dr 220 and 261. Music 114 is required by the School of Education.



Bachelor of Arts — Major in Art

Freshman year

Art 221, 222, 223	6 credits
English 100 and core option	10 credits
Fine Arts 101	5 credits
Philosophy 110, 220	10 credits
Social Science core options	10 credits
Electives	4 credits

Sophomore year

Art 231, 232, 233 and electives	10 credits
Fine Arts 102	5 credits
History 101-102 or 102-103	10 credits
Mathematics/Science core options	10 credits
Philosophy core option	5 credits
Theology core option	5 credits

Junior year

Art 311, 312 and electives	20 credits
Drama 220 and electives	10 credits
Fine Arts 103	5 credits
Music elective	5 credits
Theology core option	5 credits

Senior year

Art electives	33 credits
Music elective	5 credits
Electives	7 credits

Total . . . 180 credits

Bachelor of Arts — Major in Drama

Freshman year

Drama 101, 225, 226, 227, 261, 262	11 credits
English 100, 134	10 credits
History core option	10 credits
Philosophy 110	5 credits
Electives	9 credits

Sophomore year

Art electives	4 credits
Drama 220, 221, 222, 263	12 credits
Mathematics/Science core options	10 credits
Philosophy 220 and core option	10 credits
Social Science core options	10 credits

Junior year

Drama 351, 352, 353, 420, 421	13 credits
Fine Arts sequence	15 credits
Music elective	5 credits
Theology core option	5 credits
Electives	5 credits

Senior year

Drama 425,451, 452, 453	18 credits
Drama electives	10 credits
English 430, 431	10 credits
Music elective	3 credits
Theology core option	5 credits

Total . . . 180 credits

Bachelor of Arts — Major in Music

Freshman year

English 100 and core option	10 credits
Fine Arts 103	5 credits
History core option	10 credits
Music 115, 116, 117	15 credits
Music 130 or 131 or 135	3 credits
Music 110	2 credits

Sophomore year

Fine Arts 101, 102	10 credits
Mathematics/Science core option	10 credits
Music 215, 216, 217	15 credits
Music 130 or 131 or 135	3 credits
Philosophy 110	5 credits
Social Science core option	5 credits

Junior year

Art electives	4 credits
Drama 220 and electives	10 credits
Music 110, 111 and 315	8 credits
Social Science Core	5 credits
Theology core option	5 credits
Electives	10 credits

Senior year

Art 221, 231 and elective	6 credits
Music 418;	5 credits
from 415 or 416 or 417	10 credits
Philosophy 220, option	10 credits
Theology	5 credits
Electives	9 credits

Total . . . 180 credits

Bachelor of Arts — Area major in Fine Arts

Freshman year

English 100 and core option	10 credits
Fine Arts sequence	15 credits
History core option	10 credits
Philosophy 110	5 credits
Social Science core option	5 credits

Sophomore year

Art 221, 222, 223	6 credits
Drama 220, 221	6 credits
Mathematics/Science core options	10 credits
Music 130 or 131 or 135	3 credits
Philosophy 220 and core option	10 credits
Social Science core option	5 credits
Theology core option	5 credits

Junior year

Art 231, 232, 233 and electives	12 credits
Drama 261 and electives	14 credits
Music 115, 116, 117	9 credits
Theology core option	5 credits
Electives	5 credits

Senior year

Art electives	2 credits
Music 110 or 111 and electives	8 credits
Electives	35 credits

Total 180 credits

Fine Arts Sequence and Symposium Courses

FA 101 Fine Arts — Art	5 credits
Synoptic view of art history; period and national styles; principles and implications of design, with cross-reference to music and drama	
FA 102 Fine Arts — Drama	5 credits
Introduction to drama as an art form. An historical approach with emphasis on major periods, plays and philosophies.	
FA 103 Fine Arts — Music	5 credits
Introduction to music as an art and as a literature, with emphasis upon historical and cultural correlations.	
FA 201 Fine Arts — Art and Music	5 credits
Interdisciplinary course providing both fundamental concepts and historical perspective. May be taken in lieu of either FA 102 or 103.	
FA 202 Fine Arts — Drama and Music	5 credits
Interdisciplinary course providing both fundamental concepts and historical perspective. May be taken in lieu of either FA 102 or 103.	
FA 400 Fine Arts—Symposium	5 credits
Interdisciplinary course combining art, drama and music using team teaching techniques. May be taken by all students in lieu of a Fine Arts sequence course and by majors to count towards their required courses in the related divisions. (Fine Arts majors must also take the Fine Arts sequence course in their field of specialization.) Prerequisite: Any of the above Fine Arts courses or permission.	

Aesthetics Courses

Ae 100 Introduction to Aesthetic Phenomena	5 credits
Light, sound motion, time and space as they relate to the arts and the environment. Exercises and experiences to help sharpen sensory perception, and to integrate abilities through creative activity. Prerequisite for all other Aesthetics courses.	
Ae 200 Special Language of the Arts	2 credits
Artists in their respective fields will lead the students in exercises and experiences which will help them encounter the specific sensory modes of thinking unique to each of the arts, by seeing and hearing works of art and developing their own skills through participation in and creating their own works.	
Ae 210 Relevance: The Arts and Society	3 credits
Exploring the relationship between the arts and society. Guest artists will demonstrate new forms and the students will view works of art and aesthetic considerations (or lack of same) in the urban environment to determine the effect of the arts and aesthetics on society today.	
Ae 300 Ensemble: Dance and Drama	2 credits
Artist-teachers in dance and drama will lead the students in exercises and experiences which necessitate ensemble work. Students will also view works of dance and theatre companies to determine effectiveness of ensemble.	
Ae 310 Cross Culture Aesthetics	5 credits
Focus on a selection of several ethnic and/or cultural groups with special emphasis on those cultures reflected in the population of the Pacific Northwest. Members of various ethnic/cultural groups will demonstrate the arts of their community and lead students participating in some of their dances and music.	
Ae 400 Making Aesthetic Judgments	3 credits
The class will view and listen to various works of art and apply aesthetic criteria in criticizing them. Guest critics in several of the arts will discuss their procedures and the function of criticism.	
Ae 410 Examining Point of View	3 credits
The class will experiment with film to demonstrate understanding about point of view. They will apply aesthetic criteria in creating an environment of their own choosing, using three-dimensional models, design plans and/or photography to communicate their ideas. The students will respond to and criticize each other's work.	
Ae 491 Aesthetics: Special Topics	1-5 credits

Art Courses

Art 221 Drawing	2 credits
Art 222 Drawing	2 credits
Art 223 Drawing	2 credits
Studies of line and value in the delineation of form; training in awareness and perception; structure and space indication; essential relationships of organic forms.	

Art 231 Design 2 credits
Art 232 Design 2 credits
Art 233 Design 2 credits
 Primary concepts and analysis of structure; problems of contemporary design; form in three-dimensional design.

Art 291 Special Topics 1-5 credits
Art 292 Special Topics 1-5 credits
Art 293 Special Topics 1-5 credits

Art 311 History of Art 5 credits
Art 312 History of Art 5 credits
 Survey of the arts of the Western world from the earliest times to the Renaissance and from the Renaissance to the present.

Art 321 Advanced Drawing 3 credits
Art 322 Advanced Drawing 3 credits
Art 323 Advanced Drawing 3 credits
 Study of the human form; special problems in group composition. Prerequisite: Art 223.

Art 331 Advanced Design 3 credits
Art 332 Advanced Design 3 credits
Art 333 Advanced Design 3 credits
 Problems of practical application; advertising art; synthesis and research. Prerequisite: Art 233.

Art 334 Graphics 2 credits
Art 335 Graphics 2 credits
Art 336 Graphics 2 credits
 Principles and techniques of print-making; lithography and woodcut.

Art 346 Painting 2 credits
Art 347 Painting 2 credits
Art 348 Painting 2 credits
 Study of the principles and practices of rendering in paint; complex composition; advanced problems.

Art 351 Sculpture 2 credits
Art 352 Sculpture 2 credits
Art 353 Sculpture 2 credits
 Principles and practices leading to a realization of the nature of form; dependence of design on materials; advanced problems.

Art 370 Arts and Crafts 5 credits
 Experience in artistic expression in basic art media for elementary and secondary school teachers.

Art 446 Advanced Painting 3 credits
Art 447 Advanced Painting 3 credits
Art 448 Advanced Painting 3 credits
 Experimental research toward the development of a creative and personalized idiom, synthesis and research. Prerequisite: Art 348 or permission of department chairman.

Art 451 Advanced Sculpture 3 credits
Art 452 Advanced Sculpture 3 credits
Art 453 Advanced Sculpture 3 credits
 Includes foundry techniques and lost wax process. Prerequisite: Art 453 or permission of instructor.

Art 470 Advanced Media 5 credits
 Experience in artistic expression in advanced art media for elementary and secondary school teachers.



Art 491 Special Topics 1-5 credits
Art 492 Special Topics 1-5 credits
Art 493 Special Topics 1-5 credits

Art 497 Independent Study 1-5 credits
Art 498 Independent Study 1-5 credits
Art 499 Independent Study 1-5 credits

Advanced work in academic or experimental research. Prerequisites: Advanced standing in art and permission of department chairman.

Drama Courses

Dr 101 Oral Communication Techniques 3 credits
 Theory and practice of basic groups of communication. Exercises in relaxation, breathing and breath control, voice production. Emphasis on theatre speech.

Dr 220 Pantomime 3 credits
 Study and practice of the form as a living art and as a basic part of all acting.

Dr 221 Improvisation 3 credits
 Living in free form under imaginary circumstances. Group exercises and improvisations for development of sensory perception and imagination.

Dr 222 Acting 3 credits
 Study and practice in modern realistic acting; preparation presentation and criticism.

Dr 225 Body Movement 1 credit
Dr 226 Body Movement 1 credit
Dr 227 Body Movement 1 credit
 Development and discipline of the body as an expressive instrument.

Dr 261 Production Preparation 5 credits
 Study of the specific technical areas of theatre and their inter-relation in production.

48 ARTS AND SCIENCES
Fine Arts

Dr 262	Production Projects	3 credits
Dr 263	Production Projects	3 credits
	Student specializes in one of the following areas: Scene Construction, Lighting-Sound, Costume-Makeup, Design (scene or costume). Laboratory periods in conjunction with major productions. Prerequisite: Dr 261	
Dr 291	Special Topics	1-5 credits
Dr 292	Special Topics	1-5 credits
Dr 293	Special Topics	1-5 credits
Dr 300	Dramatic Theory I	3 credits
Dr 301	Dramatic Theory II	3 credits
	I. A study of Aristotle's Poetics and other dramatic theories to Lessing. II. Dramatic theories from Diderot to Langer and the Present. Prerequisite: Dr. 300 for 301	
Dr 310	American Theatre I	5 credits
Dr 311	American Theatre II	5 credits
	I. The history of the American Theatre from its beginnings until the Civil War. II. The continuation of American Theatre history from the Civil War until the present.	
Dr 351	Representative Plays I	3 credits
Dr 352	Representative Plays II	3 credits
Dr 353	Representative Plays III	3 credits
	Great playwrights and representative plays presented in a chronological order. I. The Golden Age of Greece to the Elizabethan era. II. Restoration to the 20th Century. III. The 20th Century.	
Dr 400	Ensemble	1-5 credits
Dr 401	Ensemble	1-5 credits
Dr 402	Ensemble	1-5 credits
Dr 410	Tragedy	3 credits
	A senior seminar investigating tragic theories from Aristotle to the present.	
Dr 411	Comedy	3 credits
	A senior seminar on the nature of comedy from the Greeks until the present.	
Dr 412	Mixed Genre	3 credits
	A senior seminar on dramas that are neither tragedy nor comedy.	
Dr. 420	Directing	2 credits
	Theory and practice in principles of directing various styles of drama.	
Dr 421	Directing Experience	2 credits
	Practical application of directing principles. Work done in the community. Prerequisite: Dr 420 or permission of instructor.	
Dr 425	Drama Internship	12 credits
	Actual apprenticeship in specific area of study in the community under the supervision of the drama faculty. Prerequisite: Drama majors only, plus permission of Drama faculty.	
Dr 451	Theatre History I	2 credits
Dr 452	Theatre History II	2 credits
Dr 453	Theatre History III	2 credits
	I. Primitive to Elizabethan era. II. Restoration to 19th century. III. 19th and 20th century.	



Dr 491	Special Topics	1-5 credits
Dr 492	Special Topics	1-5 credits
Dr 493	Special Topics	1-5 credits
Dr 497	Independent Study	1-5 credits
Dr 498	Independent Study	1-5 credits
Dr 499	Independent Study	1-5 credits

Music Courses

Mu 110	Piano Lessons	1 credit
Mu 111	Vocal Lessons	1 credit
Mu 114	Music Fundamentals and Methods	5 credits
	Rudiments of music and methods that will lead to a successful music program in the elementary school. Required of all majors in elementary school education.	
Mu 115	Theory I	5 credits
Mu 116	Theory II	5 credits
Mu 117	Theory III	5 credits
	Basic musicianship, stressing scales and tonality, modes, intervals, chords, rhythm, form. Knowledge of these concepts will be acquired by listening, singing, analysis, discussion and keyboard practice. Prerequisite: Placement by examination.	
Mu 120	Violin	1 credit
Mu 122	Cello	1 credit
Mu 123	Classical Guitar	1 credit
Mu 125	Organ	1 credit



- Mu 130 A Cappella Choir** **1 credit**
- Mu 131 Vocal Ensemble** **1 credit**
- Mu 135 Fine Arts Ensemble** **1 credit**
Instruments, singers, dancers and actors in ensemble performance.
- Mu 136 Orchestra** **1 credit**
Prerequisite: Audition
- Mu 151 Songwriting** **5 credits**
A course for beginners in music theory. This course is designed for the general student.
- Mu 200 Music of J.S. Bach** **2 credits**
Analysis of his instrumental and vocal music, particularly as reflecting the ultimate refinement of Baroque form. Prerequisite: FA 103
- Mu 201 Studies in American Music** **3 credits**
Survey from the early folksong to the vocal and instrumental music of the present.
- Mu 202 History of Opera** **3 credits**
Consideration of the basic elements in the combination of music and drama with a historical survey of the various solutions offered to the problems involved. Prerequisite: FA 103.
- Mu 205 Symphonies of Beethoven** **3 credits**
Nine works, preceded by a brief consideration of symphonic form. Prerequisite: FA 103.
- Mu 207 History of Jazz** **2 credits**
Explorations of origins in Afro-American culture, its evolution as a result of merging cultures and the accomplishment of a distinctly new musical language.

- Mu 214 Introduction to 20th Century Music** **2 credits**
Techniques, forms and styles of impressionism and expressionism; neo-classicism and dodecaphony; total control-chance-electronic music.
- Mu 215 Theory IV** **5 credits**
- Mu 216 Theory V** **5 credits**
Advanced musicianship, beginning part writing and analysis.
- Mu 217 Theory VI** **5 credits**
Advanced musicianship, part writing and analysis. Harmonic style of the common-practice period up to the late Nineteenth Century. Corequisites: Mu 216 with 372; 217 with 373.
- Mu 251 Electronic Music** **3 credits**
Creative modification of electronic sound by means of synthesizers. Lectures and individual laboratory work. Recommended for public school teachers. No prerequisites.
- Mu 291 Special Topics** **1-5 credits**
- Mu 292 Special Topics** **1-5 credits**
- Mu 293 Special Topics** **1-5 credits**
- Mu 315 Theory VII and History of the 19th Century** **5 credits**
Advanced part writing and analysis. Harmonic style of the common-practice period from the establishment of the principle of tonality to the extension of that principle in the late Nineteenth Century.
- Mu 372 History and Literature of Music Classic Period** **3 credits**
Corequisite: Mu 216.
- Mu 373 History and Literature of Music Romantic Period** **3 credits**
Corequisite: Mu 217.
- Mu 415 Counterpoint (modal), Literature and History of the Middle Ages and Renaissance** **5 credits**
Sixteenth-Century contrapuntal style as found in the music of Palestrina and his contemporaries. For music majors.
- Mu 416 Counterpoint (tonal), Literature and History of the Baroque Era** **5 credits**
Eighteenth-Century contrapuntal style as found in the music of Bach and his contemporaries. For music majors.
- Mu 417 Counterpoint Literature and History of the 20th Century** **5 credits**
Contrapuntal techniques as used by composers in the Twentieth Century. For music majors.
- Mu 418 Orchestration and Harmonic Analysis** **5 credits**
Practical application of study of the instruments and their creative use. Prerequisite: Permission of adviser.
- Mu 491 Special Topics** **1-5 credits**
- Mu 492 Special Topics** **1-5 credits**
- Mu 493 Special Topics** **1-5 credits**



Foreign Languages

C. L. Abello, B. Econ., Chairman

Associate Professors:

Clarence L. Abello
Francis X. Bisciglia, S.J.
R. Maxime Marinoni
Paul B. Milan

Assistant Professors:

George Morris, S.J.
Adele Palmberg
James L. Stark

Instructor:

Paula J. Laschober

Objectives

The foreign language programs in French, German, Italian, Spanish, Latin, Greek and Japanese, as well as the interdisciplinary Asian Studies all recognize academic, cultural and practical purposes.

Academic — These goals aim at broadening the scope of the student's intellectual formation by affording facility in one or more languages and a background in other cultures. This end is achieved through a major-minor in foreign languages; or a double major, coupling proficiency in a foreign language with a major in another field.

Cultural — Learning about another culture and civilization, its history, geography, literature and arts through the medium of its language leads to better understanding one's self and the world. To achieve this goal all foreign language courses are taught in the language and in their cultural context.

Practical — Contrary to the common belief on many campuses, career opportunities involving foreign languages are quite good. For the university student trained in a particular field with the extra asset, proficiency in foreign languages, openings exist in the following fields: teaching, government, military, social and foreign service; professions such as international law, engineering, librarianship, foreign trade and international management.

To meet these objectives, the Foreign Languages department offers regular, intensive, specialized and multi-discipline courses and programs on the Seattle University campus, and in foreign countries.

Bachelor of Arts in Social Science — Asian Studies

This degree offers both academic and practical preparation for careers in economic, commercial and political areas of Foreign and Consular Service, Foreign Trade, International Management, the United Nations and career opportunities calling for a competence in Asian affairs and a working knowledge of an Asian Language.

A double major may be completed by meeting the major requirements of the Departments of Economics, History, Political Science, Sociology or Foreign Languages.

Degrees Offered

Bachelor of Arts
Bachelor of Arts in Social Science — Asian Studies
Master of Education — F/L Teaching (French)
Master of Arts in Education — F/L Teaching (French)

General Program Requirements

Students majoring in a foreign language must satisfy the core curriculum requirements of the University, as given on page 24 of this bulletin.

Departmental Requirements

Bachelor of Arts (modern languages) — 40 credits beyond the elementary language courses 115, 125 and 135. These 40 credits must include 215, 225, 235, 315, 325 and any three courses at the 400 level.

Bachelor of Arts (classical languages) — 45 credits in a combination of courses approved by the Classics adviser and the Department Chairman.

Bachelor of Arts in Social Science — Asian Studies — 45 credits in an Asian language, including field experience in the country of the language, and 55 credits in a concentration of courses selected from economics, history, political science and sociology.

Teaching Major (School of Education) — 40 credits beyond elementary courses 115, 125, 135. The 40 credits must include courses 215, 225, 235, 315, and 325.

Undergraduate Minor (modern languages) — 20 credits beyond elementary language courses 115, 125 and 135. Those 20 credits must be earned in 215, 225, 235 and 315.

Undergraduate Minor (classical languages) — 25 credits which must include two special topics courses.

Master of Education — F/L Teaching (French) — must meet the general requirements of the Graduate School and those of the School of Education. The foreign language requirements comprise an internship as a teaching assistant in the University's French-in-France Institute in Grenoble (Fr 460, 461, 462) and Fr 465 or 491

Master of Arts in Education — F/L Teaching (French) — Requirements are similar to those of the M.Ed. with a thesis required in place of the graduate project.

International Studies

The French-in-France Program offers a full academic year of study (45 credits) of French language, culture and civilization in Grenoble, France under the direction of regular faculty. The program is open to all students of the University, with no prerequisites.

The German-in-Austria program offers one full academic year of study in Graz, Austria under the direction of regular faculty. There are no language prerequisites and the program is open to all students of the University.

The Asian Studies Program offers facilities for the transfer to Seattle University of 45 credit hours, one full year's prearranged study of Japanese language (15 credits) and related studies (30 credits) in the International Program of Sophia University in Tokyo or in the Ateneo de Manila.

The Summer Institute in Rome for advanced Italian language students. Study and exploration of the culture, civilization, literature and arts of various regions of Italy. Headquarters are in Rome.

Reading Programs (sequence of two courses: 105, 106) prepare the student to translate the written text with accuracy and comprehension for scholarly purposes. They fulfill the foreign language requirements and help the student gain the facility needed to pass the graduate language examination.

The reading language requirements may not be satisfied by examination in a student's native language since the intent of such a requirement is mastery of a language new to the student.

Intensive programs are offered during the summer quarter in which one year's work in a language can be done, earning 15 credits.

The interdisciplinary concept is emphasized, in advanced courses, by the collaboration of the faculty of other departments, as well as the participation of Foreign Language faculty in programs in related humanities.

Credit by examination and waiver — The Foreign Languages department, recognizing proficiency over requirements, reserves the right to waive all or part of the degree requirements for students who demonstrate, by examination, equivalent achievement at the college level. Courses may be waived, allowing substitution of electives, or credit may be obtained by meeting the University's requirements for credit by examination.

Bachelor of Arts — Modern Languages

Freshman year

English 100, 133, 134 or 200 15 credits
History 101, 102, 103 or 321 15 credits
Major Language 115, 125, 135..... 15 credits

Sophomore year

Major Language 215, 225, 235..... 15 credits
Philosophy 110, 220 and core option 15 credits
Social science core options 10 credits
Theology core option 5 credits

Junior year

Major Language 315, 325, 415..... 15 credits
Mathematics/Science core options 10 credits
Minor Language 115, 125, 135..... 15 credits
Theology core option 5 credits

Senior year

Major Language 425 or 435, 440 or 445 10 credits
Minor Language 215, 225, 235, 315..... 20 credits
Electives 15 credits

Total . . . 180 credits

Bachelor of Arts — Classical Languages

Consult Classics adviser or department chairman.

Bachelor of Arts in Social Science — Asian Studies

Freshman year

English 100..... 5 credits
History 103, 281 10 credits
Philosophy 110, 220 10 credits
Theology core option 5 credits
Japanese 115, 125, 135 15 credits



Sophomore year

Social Science core option (Ec 100 or 271 and Pls 150 or 160 recommended) 10 credits
 Philosophy core option 5 credits
 Theology core option 5 credits
 Mathematics/Science core options 10 credits
 Japanese 215, 225, 235 15 credits

Junior year

Full academic year at Sophia University or Ateneo de Manila-Japanese 291, 292, 293 (including internship) 15 credits
 Major related Asian Studies 30 credits

Senior year

5 courses in the discipline of concentration selected from the 300 and 400 level 25 credits
 Electives 15 credits
 Senior Seminar 5 credits

Total 180 credits

Modern Language Courses

French Courses

Fr 105 Reading French 5 credits
 Fr 106 Reading French 5 credits
 An intensive two-course program of study of written French for reading and translation with accuracy and comprehension. The two-course sequence covers, at an accelerated pace, the matter generally studied in the traditional three-course sequence. The level of competency attained in 106 is consequently equivalent to that of the former 103.

All the following courses except Fr 390 are taught in French.

Fr 115 French Language I 5 credits
 Fr 125 French Language II 5 credits
 Fr 135 French Language III 5 credits
 Fr 215 French Language IV 5 credits
 Fr 225 French Language V 5 credits
 Fr 235 French Language VI 5 credits

Fr 291 Special Topics 2-5 credits
 Fr 292 Special Topics 2-5 credits
 Fr 293 Special Topics 2-5 credits
 Fr 315 French Culture, Civilization, History and Geography 5 credits
 Fr 325 Introduction to French Literature 5 credits
 Fr 390 French Literature in Translation 2-5 credits
 (for non-majors and non-minors only)
 Fr 415 XIXth Century, Literary Movements 5 credits
 Fr 425 XVIIth Century, Classicism 5 credits
 Fr 435 XVIIIth Century, The Enlightenment 5 credits
 Fr 445 XXth Century, Contemporary Literature 5 credits
 Fr 450 Methodology of Teaching the French Language 5 credits
 Fr 451 Teaching French Culture and Civilization 5 credits
 Fr 452 Language Improvement 5 credits
 These three courses form part of the requirements for the BA in Education — F/L teaching (French).
 Fr 455 Methodology of Teaching Foreign Languages (French) 2-5 credits
 Fr 460 Theories, Techniques and Practice of teaching the French Language 5 credits
 Fr 461 Theories, Techniques and Practice of Teaching French Culture and Civilization 5 credits
 Fr 462 Teaching Internship 5 credits
 These three courses form part of the graduate teaching internship with the French-in-France Program.
 Fr 465 Comparative Methods, Techniques and Performance Objectives of Foreign Language Teaching 3 credits
 Fr 491 Supervised Studies 2-5 credits
 Fr 492 Supervised Studies 2-5 credits
 Fr 493 Supervised Studies 2-5 credits

German Courses

Gr 105 Reading German 5 credits
 Gr 106 Reading German 5 credits
 An intensive two-course program of study of written German for reading and translation with accuracy and comprehension.
 Gr 115 German Language I 5 credits
 Gr 125 German Language II 5 credits
 Gr 135 German Language III 5 credits
 Gr 215 German Language IV 5 credits
 Gr 225 German Language V 5 credits
 Gr 235 German Language VI 5 credits
 Gr 291 Special Topics 2-5 credits
 Gr 292 Special Topics 2-5 credits
 Gr 293 Special Topics 2-5 credits
 Gr 315 German Culture, Civilization, History and Geography 5 credits
 Gr 325 Introduction to German Literature 5 credits
 Gr 390 German Literature in Translation 2-5 credits
 (for non-majors and non-minors only)
 Gr 415 Contemporary German Literature (Short stories-plays) 5 credits
 Gr 425 Survey and Excerpts of German Literature before 1900 5 credits
 Gr 430 Selected Works of German Literature 5 credits
 Gr 435 Contemporary German Literature (Tragedy and Comedy) 5 credits

Gr 440	German Classicism and Romanticism	5 credits
Gr 445	Contemporary German Literature (Prose)	5 credits
Gr 455	Methodology of Teaching Foreign Languages (German)	2-5 credits
Gr 491	Supervised Studies	2-5 credits
Gr 492	Supervised Studies	2-5 credits
Gr 493	Supervised Studies	2-5 credits

Italian Courses

It 101	Reading Italian I	5 credits
It 102	Reading Italian II	5 credits
It 103	Reading Italian III	5 credits
	Intensive study of written Italian for reading and translation with accuracy and comprehension.	
It 291	Special Topics	1-5 credits
It 292	Special Topics	1-5 credits
It 293	Special Topics	1-5 credits

Japanese Courses

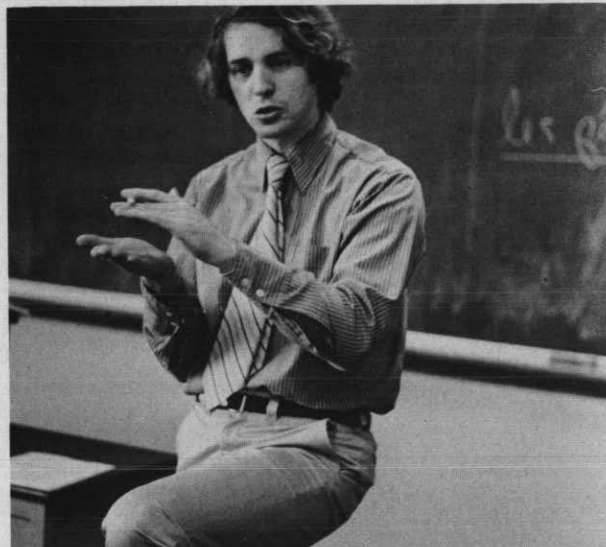
Ja 115	Japanese Language I	5 credits
Ja 125	Japanese Language II	5 credits
Ja 135	Japanese Language III	5 credits
Ja 215	Japanese Language IV	5 credits
Ja 225	Japanese Language V	5 credits
Ja 235	Japanese Language VI	5 credits
Ja 291	Special Topics	1-5 credits
Ja 292	Special Topics	1-5 credits
Ja 293	Special Topics	1-5 credits

Spanish Courses

Sp 105	Reading Spanish	5 credits
Sp 106	Reading Spanish	5 credits
	An intensive two-course program of study of written Spanish for reading and translation with accuracy and comprehension.	

All the following courses except Sp 390 are taught in Spanish.

Sp 115	Spanish Language I	5 credits
Sp 125	Spanish Language II	5 credits
Sp 135	Spanish Language III	5 credits
Sp 215	Spanish Language IV	5 credits
Sp 225	Spanish Language V	5 credits
Sp 235	Spanish Language VI	5 credits
Sp 291	Special Topics	2-5 credits
Sp 292	Special Topics	2-5 credits
Sp 293	Special Topics	2-5 credits
Sp 315	Spanish Culture, Civilization, History and Geography	5 credits
Sp 325	Introduction to Spanish Literature	5 credits
Sp 390	Spanish Literature in Translation (for non-majors and non-minors only)	2-5 credits
Sp 415	XIXth Century. The Romanticism	5 credits
Sp 425	The Generation of 1898 — Essays and Poetry	5 credits
Sp 435	Early 20th Century Literature	5 credits
Sp 440	Contemporary Spanish Theatre	5 credits
Sp 445	Contemporary Spanish American Literature	5 credits
Sp 450	Methodology of Teaching the Spanish Language	5 credits
Sp 451	Teaching Spanish Culture and Civilization	5 credits



Sp 452	Language Improvement (Sp 450, 451, 452 form part of the requirements for the BA in Education F/L Teaching-Spanish)	5 credits
Sp 455	Methodology of Teaching Foreign Languages (Spanish)	5 credits
Sp 491	Supervised Studies	2-5 credits
Sp 492	Supervised Studies	2-5 credits
Sp 493	Supervised Studies	2-5 credits

Classical Language Courses

Greek Courses

Gk 101	Greek Language I	5 credits
Gk 102	Greek Language II	5 credits
Gk 103	Greek Language III	5 credits
	Functional treatment of the phonology, morphology, syntax and lexicon of Koine Greek with readings from the New Testament. (I—fall, II—winter, III—spring)	
Gk 291	Special Topics	2-5 credits
Gk 292	Special Topics	2-5 credits
Gk 293	Special Topics	2-5 credits
Gk 390	Greek Literature in Translation (for non-majors and non-minors only)	2-5 credits
Gk 491	Supervised Studies	2-5 credits
Gk 492	Supervised Studies	2-5 credits
Gk 493	Supervised Studies	2-5 credits

Latin Courses

Lt 101	Latin Language I	5 credits
Lt 102	Latin Language II	5 credits
Lt 103	Latin Language III	5 credits
	Phonology, morphology, syntax and lexicon of Classical Latin. (I—fall, II—winter, III—spring)	
Lt 291	Special Topics	2-5 credits
Lt 292	Special Topics	2-5 credits
Lt 390	Latin Literature in Translation (for non-majors and non-minors only)	2-5 credits
Lt 491	Supervised Study	2-5 credits
Lt 492	Supervised Study	2-5 credits
Lt 493	Supervised Study	2-5 credits



General Studies Program

Mary Margaret Ridge, B.A., Director

Objectives

Students who have a wide range of interests and want a broad liberal arts education, AS WELL AS THOSE WHO HAVE NOT YET DECIDED UPON A MAJOR, may enroll in the General Studies Program. Such students begin their University work by taking core curriculum subjects required for all majors. They may then select courses from two or three related fields, and formulate a program that will best suit the needs of their long-range goals.

The thrust of the program looks to constructing in-depth combinations of a variety of disciplines such as fine arts, humanities, social sciences, or any other atypical interdisciplinary synthesis.

A student admitted to the General Studies Program may also transfer to one of the traditional majors of the College of Arts and Sciences, or to one of the professional schools, such as Business, Education, Nursing, Science and Engineering. A student may change at any time as long as academic qualifications for the intended program are met.

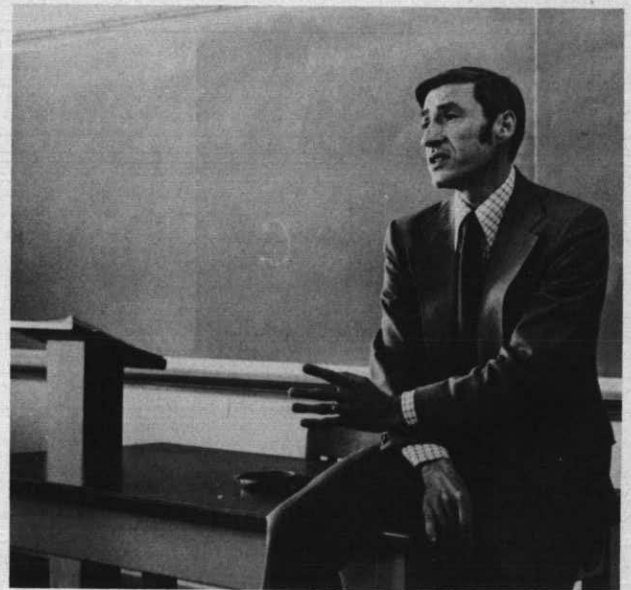
Degrees Offered

Bachelor of Arts in Humanities
Bachelor of Arts in Social Science

General Program Requirements

Requirements of a General Studies degree are 60 credits beyond the core, of which 40 credits must be taken in courses designated 300 or 400 level, plus five credits in an interdisciplinary seminar to be taken during the senior year.

Suggested combinations are: 40 hours in one subject and 20 in another; or 35 hours in one, 15 in a second, and 10 in a third; or 25, 20 and 15. THE SELECTION OF SUBJECTS AND THEIR MEANINGFUL COMBINATION IS THE RESPONSIBILITY OF THE STUDENTS IN CONSULTATION WITH THE PROGRAM DIRECTOR OR AN ASSIGNED ACADEMIC ADVISER.



History

Robert D. Saltvig, Ph.D., Chairman

Professors:

William N. Bischoff, S.J. (Visiting)
Joseph P. Donovan, S.J.
Thomas E. Downey (Emeritus)

Associate Professors:

C. Robert Harmon
Warren B. Johnson
Albert B. Mann
James E. Parry
Robert D. Saltvig

Objectives

The objectives of the History department are to provide an essential background to the study of Western Europe, the United States, Latin America and Russia-China-Japan for all students in the University and to deepen and broaden these studies for those majoring in history or those intending further study at the graduate level.

Degrees offered

Bachelor of Arts
Master of Arts

General Program Requirements

Students in history must satisfy the core curriculum requirements of the University as given on page 24 of this bulletin. Required sequences are 15 credits each of philosophy and language and 10 credits each of English, theology, social science and mathematics/science.

Departmental Requirements

Bachelor of Arts — 60 credits including Hs 101, 102, 103, 200, 400 and 499. Of the remaining 30 credits, a combination of three 300-numbered courses and two 400-numbered courses is to be taken in a general area (Western Europe, United States, Latin America or Russia-China-Japan) recommended by the student's adviser. Ten credits of language or their equivalent are required (may be taken in junior year). Further study in the same language or a second language is recommended for students contemplating graduate school.

Undergraduate Minor — 35 credits of history of which Hs 101, 102 and 103 are required.

Teaching Major (School of Education) — 55 credits of history including Hs 101, 102, 103, 231, 300, 341 (or Ed 420 for those preparing for elementary teaching) and five 300 numbered courses.

Master of Arts — 45 credits of history including Hs 500, 501 and seven field courses. Of the latter 15 credits are to be taken in a special area (Western Europe, United States, Latin America, and up to 20 credits may be taken from undergraduate courses numbered 405-498. In place of two of the 400-numbered courses a student may substitute a thesis, but he must register for Hs 599 the quarter in which he completes his work. A reading knowledge of a foreign language is required and an examination will be conducted before completion of one-half of the program. A final comprehensive examination, written and oral, covering all fields taken, but with emphasis on the special area, will be required.

Bachelor of Arts

Freshman year

English 100 and core option 10 credits
History 101, 102, 103 15 credits
Philosophy 110 5 credits
Electives 15 credits

Sophomore year

History 200 and electives 15 credits
Philosophy 220 and core option 10 credits
Theology core option 5 credits
Electives 15 credits

Junior year

History electives 15 credits
Mathematics/Science core options 10 credits
Social Science core option 5 credits
Theology core option 5 credits
Electives 10 credits

Senior year

Modern Language 10 credits
History 400, 499 and elective 15 credits
Social Science core option 5 credits
Electives 15 credits

Total 180 credits

History Courses

Hs 101 Western Culture I 5 credits
Hs 102 Western Culture II 5 credits
Hs 103 Western Culture III 5 credits
I. Topical studies in the civilizations of Western man from antiquity through the early Middle Ages. II. Western man from the High Middle Ages through the

Napoleonic world. III. Western man through the 19th and 20th centuries.

Hs 200 Methodology 5 credits
Techniques of historical research, criticism and writing. Prerequisites: Hs 101, 102, 103

Hs 231 Survey of the United States 5 credits
Events, movements and institutions of American history from the era of discovery and colonization to the present.

Hs 251 Survey of Latin America 5 credits
Events, movements and institutions of Latin American history from the era of discovery and colonization to the present.

Hs 271 Survey of Russian History 5 credits
An introduction to the history and culture of Russia and the Soviet Union.

Hs 281 Survey of the Far East since 1900 5 credits
Domestic and international development of China, Japan and the states of Southeast Asia.

Hs 291 Special Topics 1-5 credits

Hs 292 Special Topics 1-5 credits

Hs 293 Special Topics 1-5 credits

Hs 300 Teaching of History 5 credits
Techniques of instruction in historical awareness and in basic historical content for the secondary level of education. Limited to history majors and minors in the School of Education.

Hs 304 Europe of the Early Middle Ages 5 credits
European origins of Western civilization from Constantine to Charlemagne. Prerequisite: Hs 101.

Hs 305 Europe of the 11th and 12th Centuries 5 credits
Cultural, social and political institutions of Europe from the Ottonian Renaissance through the 12th century Renaissance. Prerequisite: Hs 102.

Hs 306 Europe of the High Middle Ages 5 credits
Analysis of the cultural, social and political institutions of 13th century Europe. Prerequisite: Hs 102.

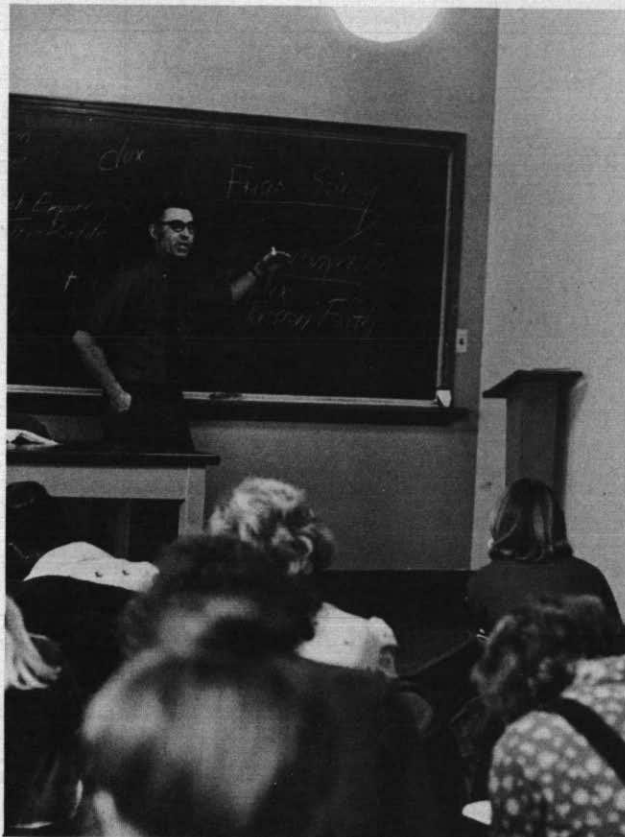
Hs 307 Europe of the Renaissance 5 credits
Movements and institutions from Italy to the rest of Europe; from the 14th through the early 16th centuries. Prerequisite: Hs 102.

Hs 309 Europe of the 16th Century 5 credits
The Protestant and Catholic Reformation. Prerequisite: Hs 102.

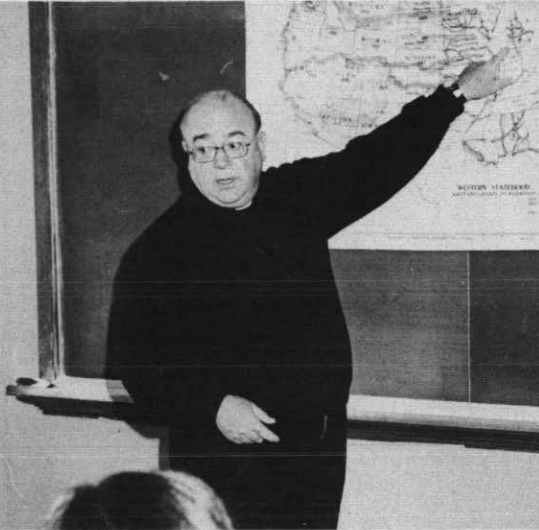
Hs 310 Europe of the 17th Century 5 credits
The Scientific Revolution, baroque synthesis and European state system to Utrecht. Prerequisite: Hs 102.

Hs 311 Europe of the 18th Century 5 credits
Cultural and political ferment of Western civilization in the century from Utrecht to Waterloo. Prerequisite: Hs 102.

Hs 313 Europe of the 19th Century 5 credits
The era of revolutions, in ideas and society, from the Napoleonic wars to the beginning of World War I. Prerequisite: Hs 103.



- Hs 315 Europe of the 20th Century 5 credits**
Contemporary movements and institutions in the home base of Western civilization, through war and peace. Prerequisite: Hs 103.
- Hs 321 Modern France 5 credits**
Development of cultural and political France from Francis I to the present. Prerequisite: Hs 103.
- Hs 331 Colonial North America 5 credits**
European discoveries, explorations and settlements from the 16th through the late 18th centuries.
- Hs 333 The Beginnings of the United States 5 credits**
The Revolution and the Constitution, the first continental expansion and the first world contacts to the era of Monroe.
- Hs 335 The Expansion and Crisis of the Union 5 credits**
The United States from the era of Jackson through the Civil War and Reconstruction.
- Hs 337 The United States - Expansion and World Power 5 credits**
Domestic and foreign development of American power from the end of Reconstruction to Great Depression.
- Hs 339 Recent United States 5 credits**
Development of American culture from the stock market crash of 1929 to the present with emphasis on political, social, diplomatic and economic affairs.
- Hs 341 The Pacific Northwest 5 credits**
Past development and present problems of the states comprising the United States Pacific Northwest with emphasis on Washington State.
- Hs 347 Afro-American History I 5 credits**
Hs 348 Afro-American History II 5 credits
I. African origins, slave trade, and the Afro-American experience to Emancipation. II. History of the Afro-American from Reconstruction to the present. Prerequisites: Hs 102 for 347; 103 or 231 for 348.
- Hs 351 Mexico 5 credits**
Formation and development of the Mexican nation from pre-Columbian and Spanish origins to the present.
- Hs 353 Brazil 5 credits**
Development, under Portuguese and other influences, of the Brazilian nationality and culture to the present.
- Hs 355 Argentina and Chile 5 credits**
History and culture of the southern South American republics from the first European settlements to the present.
- Hs 357 Central America and the Caribbean 5 credits**
The strategic center of the Americas from the Columbian beginnings to the present cluster of colonies and republics.
- Hs 359 The Andean Republics 5 credits**
History and culture of Peru, Bolivia, Ecuador and Colombia from the Spanish Conquest to the present.
- Hs 362 Tudor England 5 credits**
Rule of the Tudor monarchs from Henry VII through Elizabeth I and the English Reformation. Prerequisite: Hs 102.
- Hs 363 Stuart England 5 credits**
Rule of the Stuart Monarchs and the constitutional and religious crises of the 17th century. Prerequisite: Hs 102.
- Hs 365 Modern Britain 5 credits**
History of the great island kingdom, from the 18th through the 20th centuries. Prerequisite: Hs 103.
- Hs 372 Early Russia 5 credits**
Origins and development of Russia from the Kievan period through the era of Peter the Great.
- Hs 373 Modern Russia 5 credits**
History and culture of the Russian people in 19th and 20th centuries. Prerequisite: Hs 103.
- Hs 381 Chinese Civilization 5 credits**
The development of Chinese culture, thought and institutions down to the late 19th century.
- Hs 383 China — 20th Century 5 credits**
The Western impact and the Chinese Revolutions from the Opium War to the People's Republic.
- Hs 385 Traditional Japan 5 credits**
The development of Japanese culture, thought and institutions to 1867.
- Hs 387 Modern Japan 5 credits**
The transformation of Japan from Feudalism to Imperial power and industrial giant, 1867 to present.



- Hs 391 Special Topics 1-5 credits**
Hs 392 Special Topics 1-5 credits
Hs 393 Special Topics 1-5 credits
 Private work by arrangement with approval of department chairman.
- Hs 400 Historiography 5 credits**
 Historical study and writing and the philosophy of history from the earliest times to the present. Prerequisite: Hs 200.
- Hs 404 Studies in the Early Middle Ages 5 credits**
 Prerequisite: Hs 304.
- Hs 405 The 12th Century Renaissance 5 credits**
 Prerequisite: Hs 305.
- Hs 406 Studies in the Europe of the High Middle Ages 5 credits**
 Prerequisite: Hs 306.
- Hs 411 France: Ancien Regime 5 credits**
 Studies in the institutions and events of the century preludeing the fall of old France. Prerequisite: Hs 311.
- Hs 412 The French Revolution and Napoleon 5 credits**
 Studies in the institutions and events of the century preludeing the fall of old France. Prerequisite: Hs 311.
- Hs 414 Modern Germany 5 credits**
 Studies in German history and culture from Stein to Adenauer. Prerequisite: Hs 313 or 315.
- Hs 415 Modern Christian Culture 5 credits**
 Reading in interpretive and secondary literature investigating the relationship of Christianity to 19th and 20th Century Western culture.
- Hs 431 The Westward Movement 5 credits**
 American frontier history from colonial times to the end of the 19th Century. Prerequisite: Hs 333 or 335.
- Hs 432 American Diplomacy I 5 credits**
Hs 433 American Diplomacy II 5 credits
 I. Diplomatic history of the United States from Independence through the 19th Century. II. Diplomatic history of the United States during the 20th Century. Prerequisites: Hs 231 or 333 or 337 for 432; 231 or 337 or 339 for 433.

- Hs 434 American Revolution and Confederation 5 credits**
 Events and interpretations in the history of the Atlantic seaboard provinces from the end of the Great War for Empire through Independence and the Confederated United States. Prerequisite: Hs 331.
- Hs 435 American Civil War and Reconstruction 5 credits**
 Political, social and economic aspects of the American Civil War and Reconstruction.
- Hs 437 The Progressive Movement 5 credits**
 An American political and social phenomenon. Prerequisite: Hs 337.
- Hs 451 Pre-Columbian America 5 credits**
 Mayan, Aztec, Incan and other civilizations in subsequent Latin America. Prerequisite: Hs 351 or 353 or 355 or 357 or 359.
- Hs 453 Colonial Institutions in Latin America 5 credits**
 Various aspects, political, social, economic and religious. Prerequisite: Hs 351 or 353 or 355, 357 or 359.
- Hs 462 English Reformation 5 credits**
 Analysis of the many aspects of the Act of State from the King's "Great Matter" through the Elizabethan Settlement. Prerequisite: Hs 362.
- Hs 464 Puritans and Parliament - Men 5 credits**
 Crises of the 17th Century English church and state. Prerequisite: Hs 363.
- Hs 481 Modern Asian Revolutions 5 credits**
 Problems and forces in selected examples of Asian nations in the 20th Century, especially of circumstances, leaders, tactics and doctrines of revolutionary groups in China, Viet Nam and Indonesia.
- Hs 491 Special Topics 1-5 credits**
Hs 492 Special Topics 1-5 credits
Hs 493 Special Topics 1-5 credits
- Hs 494 Seminar 5 credits**
Hs 495 Seminar 5 credits
Hs 496 Seminar 5 credits

- Hs 497 Independent Study 1-5 credits**
Hs 498 Independent Study 1-5 credits
 Private studies by arrangement with approval of department chairman. Prerequisite: Completion of 300-series courses in related areas.
- Hs 499 Senior Seminar 5 credits**
 Specially directed projects in research and composition. Limited to seniors in Arts and Sciences. Prerequisites: Hs 200 and at least one course in the 400 series.

Graduate Courses

- Hs 500 Historical Methodology 5 credits**
- Hs 501 Historiography 5 credits**
 Analysis of the ideas and techniques of selected major historians, from Herodotus to contemporary writers.
- Hs 505 Medieval History 5 credits**
 Studies in Medieval history and culture.
- Hs 507 Renaissance and Reformation 5 credits**
 Studies in the cultural and religious history of Europe from the 14th through the 17th centuries.
- Hs 512 Early Modern Europe 5 credits**
 From the Renaissance through the Enlightenment.
- Hs 513 Revolutionary Europe 5 credits**
 Studies in continental revolutions at the end of the 18th and during the first half of the 19th centuries.
- Hs 531 United States — Colonial 5 credits**
 The British colonies in North America through the War for Independence.
- Hs 532 United States — National 5 credits**
 The new nation to the end of the Civil War.
- Hs 533 United States — Reconstruction, Populism and Progressivism 5 credits**
 The expanding nation to World War I.
- Hs 534 United States — 20th Century Domestic 5 credits**
 The contemporary nation from Wilson through Johnson.
- Hs 535 United States — World Relations 5 credits**
 Topics in the nation's diplomatic history.
- Hs 536 United States — Frontier America 5 credits**
 Studies in the westward movement.
- Hs 551 Latin America — Colonial 5 credits**
 Spanish and Portuguese colonies to the Revolution.
- Hs 552 Latin America — National 5 credits**
 The 19th and 20th centuries.
- Hs 553 Mexico 5 credits**
 Topics in Mexican history from the Spanish explorations to the present.
- Hs 554 Brazil 5 credits**
 Topics in Brazilian history from the Portuguese explorers to the present.
- Hs 598 Special Topics 1-5 credits**
- Hs 599 Thesis 5 credits**



Honors Program

Rosaleen Trainor, CSJ, Ph.D., Director

Associate Professor:

Sr. Rosaleen Trainor, CSJ

Objectives

The Honors Program is a two-year program designed to develop students who can think, read, write and speak integratively across various university disciplines. For that reason it is historically conceived, beginning with the Ancient Near East and proceeding through the civilizations of the Hebrews, Greeks, Romans and Medieval Europeans to modern and contemporary times. The various disciplines, literature, thought, history, fine arts and science, are correlated to provide the student with the greatest possible depth in each period under examination. The program is conducted according to the dialogue method in seminars. In addition, each quarter the student must write at least one paper in each course he is taking and be prepared to defend this written work in a tutorial session of five or six students and the instructor. Examinations are normally oral and cumulative and are given at the end of each quarter.

Scholarships/Applications

Scholarships are granted on a one-year basis, renewable on proof of competence. Applicants are chosen on the basis of their previous record and evidence that they are willing to make the effort necessary to achieve genuine superiority in the intellectual pursuits. In addition to application to Seattle University, candidates must apply directly to the Honors Program.

Program Requirements

When accepted in the Program, students complete each of the course sequences numbered Hu 101 through 243. Completion of the Honors Program satisfies University core requirements in philosophy, science, English, history and theology. En 220 and Pl 440 may be completed for additional credit in summer study or by special examination prior to entering the major field. Honors students, on completion of their two-year program, transfer into one of the departments of the University to fulfill the requirements for their major. After completing the Honors Program, students may elect to take Hu 398 or 499 while completing their major.

Honors Program Courses

- Hu 101 Humanities Seminar - Thought 5 credits
- Hu 202 Humanities Seminar - Thought 5 credits
- Hu 103 Humanities Seminar - Thought 5 credits

Three quarters of critical reading and discussion of the works which have most deeply influenced the development of the Western world, including the Old Testament, Pre-Socratics, Plato, Aristotle, Epictetus, New Testament, St. Augustine, St. Thomas.

- Hu 111 Humanities Seminar - Literature 4 credits
- Hu 112 Humanities Seminar - Literature 4 credits
- Hu 113 Humanities Seminar - Literature 4 credits

Critical examination of those literary works which have most deeply influenced the development of the Western world, including the dramatic books of the Old Testament, Homer and the Greek playwrights, Virgil, St. Paul, St. Augustine, The Cid, Song of Roland, Dante and Chaucer.

- Hu 121 Humanities Seminar - History 4 credits
- Hu 122 Humanities Seminar - History 4 credits
- Hu 123 Humanities Seminar - History 4 credits

Historical survey designed to furnish background discipline for humanities-thought and humanities-literature, covering Hebrew, Greek, Roman and Medieval Christian history.

- Hu 131 Humanities Seminar - Science 2 credits
- Hu 133 Humanities Seminar - Science 2 credits

The history and nature of the physical sciences.

- Hu 142 Humanities Seminar - Art 2 credits

Synoptic view of art history; period and national styles; principles and implication of design.

- Hu 191* Interdisciplinary Seminar 5-10 credits
- Hu 192* Interdisciplinary Seminar 5-10 credits
- Hu 201 Humanities Seminar - Thought 4 credits
- Hu 202 Humanities Seminar - Thought 4 credits
- Hu 203 Humanities Seminar - Thought 5 credits

Three quarters of critical reading and discussion, including Descartes, Bacon, Hobbes, Locke, Spinoza, Leibniz, Rousseau, Hume, Kant, Hegel, J.S. Mill, Nietzsche, Marx and the Existentialists.



- Hu 211 Humanities Seminar - Literature 4 credits
- Hu 212 Humanities Seminar - Literature 4 credits
- Hu 213 Humanities Seminar - Literature 4 credits

Shakespeare, Donne, Moliere, Milton, Dryden, Pope, Goethe, the Romantics, Victorians, Russian novelists and modern plays through the Existentialists.

- Hu 221 Humanities Seminar - History 4 credits
- Hu 222 Humanities Seminar - History 4 credits
- Hu 223 Humanities Seminar - History 4 credits

The Reformation to the present.

- Hu 231 Humanities Seminar - Science 3 credits
- Hu 232 Humanities Seminar - Science 3 credits

A study of some contemporary problems in the physical sciences.

- Hu 243 Humanities Seminar - Music 2 credits

Synoptic view of music history with emphasis upon historical and cultural correlations.

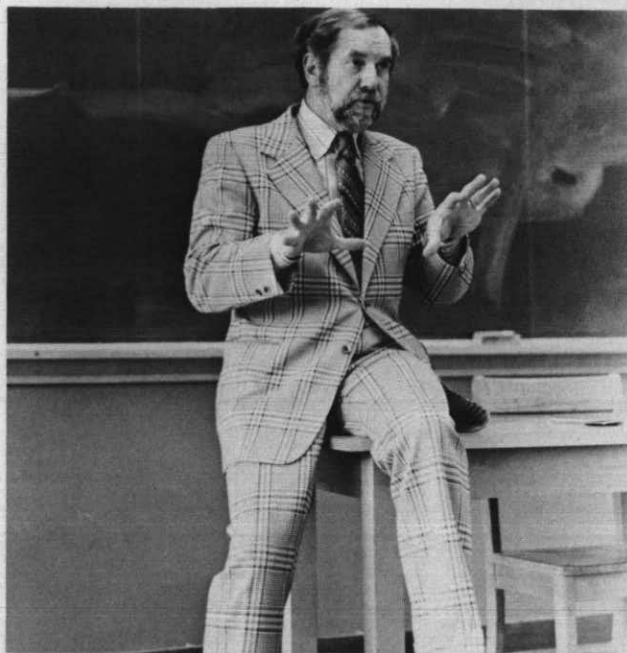
- Hu 291 Special Topics 1-5 credits
- Hu 292 Special Topics 1-5 credits
- Hu 293 Special Topics 1-5 credits
- Hu 398 Humanities Special Topics 1-5 credits

Private work by arrangement. Prerequisite: Approval of program director.

- Hu 499 Humanities Senior Seminar 5 credits

Reading and discussion of major synthetic literature in the humanities on selected topics. Prerequisite: Approval of instructor.

* Not an Honors Program course



Journalism

John R. Talevich, M.A., Chairman

Associate Professor:
John R. Talevich

Objectives

To the University's basic liberal studies program, journalism adds courses designed to give the student an awareness of the role of mass communications in a free society and the special knowledge and skills required for effective communication.

The journalism program is specifically directed toward editorial competence, the basis for careers in all areas of mass communications. It seeks to produce graduates who can become responsible professional journalists or who can undertake graduate study in specialized areas.

Degree Offered

Bachelor of Arts

General Program Requirements

Students in journalism must satisfy the core curriculum requirements of the University as given on page 24 of this bulletin. A student must have a minimum typing average of 40 words per minute to enroll in journalism writing courses.

During the freshman year the journalism student will be asked to specify an area of interest such as print or broadcast journalism, advertising or public relations, or graduate study. With his adviser he will then plan a sequence of courses, in journalism and in related areas, to meet his individual requirements.

Practical experience is an essential complement to the journalism student's course work. This experience may be gained through part-time work on off-campus media, as a staff member of a student publication or in internships.

Departmental Requirements

Bachelor of Arts — 50 credits in journalism which must include Jr 100, 200, 210, 250, 330 and 25 credits in courses numbered 300 and above; 10 credits of English beyond core requirements numbered 200 or above; 5 additional credits of core social science; 10 credits of upper division United States history courses (or approved substitutes); 10 credits of language or fine arts and/or speech and drama courses.

Journalism-English Interdisciplinary Program — 60 credits which must include Jr 100, 200, 210, 250, 330 and 15 credits chosen from Jr 310, 350, 370 and 430; and 20 credits chosen from En 250, 305, 382, 407, 488 and 490.

Journalism/Fine Arts Interdisciplinary Program—60 credits which must include Jr 100, 200, 210, 250, 330, 430 and 10 credits chosen from Jr 350, 370 or internship; and 20 credits of fine arts courses chosen in consultation with the adviser. Students in this program must also take the 10 credits of language/fine arts required by the department in the fine arts area.

Undergraduate Minor — 30 credits which must include Jr 100, 200, 210, 250 and 10 credits of additional courses numbered 300 and above.

Undergraduate Minor (teaching) — 25 credits which must include Jr 100, 200, 210, 250 and 465 or approved substitute.

Bachelor of Arts

Freshman year

English 100 and core option10 credits
History 101, 102 or 102, 10310 credits
Journalism 100 5 credits
Philosophy 110, 22010 credits
Social Science core options10 credits

Sophomore year

Journalism 200, 210, 25015 credits
Modern Language, Fine Arts or
Speech/Drama options10 credits
Philosophy core option 5 credits
Social Science option 5 credits
Theology core options 10 credits

Junior year

English 200/300 options10 credits
History 331 or 333 or 335 or 337 or 339
or 347 or 348 or approved substitutes ...10 credits
Journalism 330 and 300/400 options15 credits
Electives10 credits

Senior year

Journalism 300/400 options15 credits
Mathematics/Science core options10 credits
Electives20 credits

Total . . . 180 credits

Journalism Courses

- Jr 100 Introduction to Journalism 5 credits**
Review of grammar for journalists. Introduction to journalistic style. Study of contemporary media content.
- Jr 200 Mass Communication and Society 5 credits**
Historical press concepts; nature and functions of the mass media; social, political and economic roles; principles governing journalistic communication; role of the news consumer. (fall)
- Jr 210 Newswriting 5 credits**
Elements of the news story; practice in gathering data for and writing news stories. Prerequisite: Jr 100
- Jr 250 Newsediting 5 credits**
Copy and proof editing procedures; headline writing, layout and makeup of the newspaper; photographic editing techniques.
- Jr 291 Special Topics 1-5 credits**
Jr 292 Special Topics 1-5 credits
Jr 293 Special Topics 1-5 credits
- Jr 310 Reporting Public Affairs 5 credits**
Study of and practice in gathering and writing complex news stories based upon activities of government, judicial and community agencies. Prerequisite: Jr 210. (Biennially, fall)
- Jr 320 Photojournalism I 2 credits**
Jr 321 Photojournalism II 2 credits
Elementary principles of newsphotography, processing and picture editing. Photography for student publications. Prerequisite: Permission of department chairman. (Biennially, I-fall, II-winter)
- Jr 330 History of Journalism 5 credits**
Study of the origins and growth of the American press from colonial to modern times. (Biennially)
- Jr 345 Law of the Press 3 credits**
Constitutional guarantees and restrictions on freedom of information, with a study of significant cases; libel, copyright, privacy, postal regulations. (Biennially)
- Jr 350 Magazine and Feature Writing 5 credits**
Elements of non-fiction articles for newspapers and magazines; actual writing for sale. (Biennially)
- Jr 355 Communications Graphics 5 credits**
Basic typographic, layout and design concepts. Editing techniques for organizational publications. Planning and purchasing printing. (Biennially, winter)
- Jr 370 Editorial and Opinion Writing 5 credits**
Nature, function and structure of persuasive writing; analysis of media editorials; practice in editorial writing. (Biennially, spring)
- Jr 380 Publications I 1 credit**
Jr 381 Publications II 1 credit
Jr 382 Publications III 1 credit
Supervised editorial work on The Spectator and The Aegis. Prerequisite: Permission of department chairman. (I-fall, II-winter, III-spring)



- Jr 430 Reviewing the Arts 5 credits**
Reading, discussion and writing of newspaper and magazine style reviews of books, movies, television and musical and theatrical presentations. (Biennially)
- Jr 440 Literature of Journalism 1-5 credits**
Written and oral reports on selected works in journalism. Prerequisite: Permission of department chairman.
- Jr 460 Public Relations 5 credits**
Public relations as a management function; policies, procedures and problems; program analysis and case study. (Biennially, spring)
- Jr 465 Publications' Advising 5 credits**
Policies, techniques and problems in advising school publications. (summer)
- Jr 480 Publications IV 1 credit**
Jr 481 Publications V 1 credit
Jr 482 Publications VI 1 credit
Advanced, supervised editorial work on The Spectator and The Aegis. Prerequisite: Permission of department chairman. (IV-fall, V-winter, VI-spring)
- Jr 490 Journalism Ethics 3 credits**
Seminar in contemporary ethical problems for journalists.
- Jr 491 Special Topics 1-5 credits**
Jr 492 Special Topics 1-5 credits
Jr 493 Special Topics 1-5 credits
- Jr 497 Independent Study 1-5 credits**
Jr 498 Independent Study 1-5 credits
Jr 499 Independent Study 1-5 credits
Supervised research in communications; special projects; internships on media and affiliated agencies. For journalism students only. Prerequisite: Permission of department chairman.



Military Science

Lt. Colonel Archille O. Bourque, M.B.A., Chairman

Professor:

Lt. Col. Archille O. Bourque

Assistant Professors:

Capt. James Griffin
Capt. Montie T. Hess
Capt. Gordon A. Larson
Major Donald S. Ulm

Objectives

The Military Science program is specifically designed to give college men and women training and experience in the art of organizing, motivating and leading others. It includes instruction to develop self-discipline, physical stamina, and bearing—qualities that are an important part of leadership and should contribute to success in any kind of career, military or civilian. The emphasis is on “doing” rather than classroom instruction alone. Department philosophy is that leadership is learned only by leading, and ample opportunity is provided in the Military Science program for the practice of leadership under the supervision of experienced instructors.

The Army Reserve Officer's Training Corps (Army ROTC) program is conducted by the Military Science department to develop college educated officers for the Army and Army Reserve. Through Army ROTC the man or woman who wants an Army career can earn either a Regular Army or Reserve commission as a lieutenant. A student may take Army ROTC by two different methods; by enrolling in Army ROTC as an elective and majoring in some other academic discipline, or by majoring in Military Science.

Degree Offered

Bachelor of Science in Military Science

General Program Requirements

Students in Military Science must satisfy the University core curriculum requirements as given on page 24. Military Science majors must also satisfy requirements for a minor in some other academic discipline.

Programs

Three distinct programs are conducted by the Military Science department: Basic Army ROTC, Advanced Army ROTC, and the Military Science degree program.

Basic Program—The basic course is elective for all physically fit students at the University. The course consists of two hours of classroom instruction per week and three hours of leadership laboratory twice a month for six academic quarters (freshman and sophomore years). Students who are unable to participate in ROTC classes on campus during their first two years of college may satisfy requirements for Basic Army ROTC by attending Army ROTC Basic Camp for six weeks during the summer after their sophomore year.

Advanced Army ROTC—The advanced course is elective for qualified students who have received credit for the two-year basic course or successfully completed basic camp. The course consists of three hours of classroom instruction per week and three hours of leadership laboratory twice a month for six academic quarters (junior and senior years). Advanced course students must also attend Army ROTC Advanced Camp for six weeks during the summer between the junior and senior year. Advanced course students receive \$100 per month allowance for up to 20 months of their junior/senior years. Upon completion of advanced course requirements and graduation from the University, students are commissioned as second lieutenants in the Regular Army or Army Reserve.

Degree Requirements

Bachelor of Science in Military Science—40 credits in military science, successful completion of the Army ROTC advanced course, and completion of requirements for a minor in another academic discipline.

Undergraduate Minor—32 credits in military science which must include successful completion of the Army ROTC advanced course.

Scholarships

Army ROTC scholarships are available to selected students who desire a military career. Expenses for tuition, books and fees are paid for one, two, three or four years, and each student receives a \$100 per month allowance for each school year while on scholarship. For more information write the Professor of Military Science, Seattle University.

Bachelor of Science in Military Science

Basic Course

Freshman year (MS I)

English core requirement	10 credits
History core requirement	10 credits
Mathematics/science core requirement	10 credits
Military Science 101, 102, 103	6 credits
Philosophy core requirement.....	5 credits

Sophomore year (MS II)	
Military Science 200, 202, 203	6 credits
Philosophy core requirement	10 credits
Social science core requirement	10 credits
Theology and Religious Studies core requirement	10 credits
Electives	10 credits

Advanced Course

Junior Year (MS III)	
Military Science 300, 302, 303, 304	16 credits
Minor concentration	15 credits
Electives	15 credits

Senior year (MS IV)	
Military Science 401, 402, 403	12 credits
Minor concentration	15 credits
Electives	20 credits

Total 180 credits

Military Science Basic Courses

MS 101 Psychology of Leadership 2 credits
Psychological basis for the phenomenon of leadership. A study of why groups follow a leader in informal and formal situations. Two one-hour conferences per week. (fall, winter, spring)

MS 102 Analysis of Conflict 2 credits
Interdisciplinary studies in the uses and abuses of national power. Introduction to the principles of warfare and application of military force. Team-taught by political science, history and military science departments. Two one-hour conferences per week. (fall, winter, spring)

MS 103 American Military History 2 credits
United States military history from the colonial wars to the Vietnam conflict. Emphasis is on military leadership, the principles of war, and development of the military art. Two one-hour conferences per week. (fall, winter, spring)

MS 200 Communication Skills Development 2 credits
Development of oral and written communication skills for the military leader. Methods of military instruction. Student presentations and writing projects provide practice in communicating thoughts to others. Two one-hour conferences per week. (fall)

MS 202 Military Organizations 2 credits
Introduction to the structure of the American Military establishment and branches of the Army. Discussion of equipment and weapons available to combat units. Two one-hour conferences per week. (winter)

MS 203 Concepts of Combat Operations 2 credits
Principles of offense and defense. Application of the principles of warfare by small unit leaders. Combat formations and battle drill. Two one-hour conferences per week. (spring)

MS 204 Army ROTC Basic Camp 4 credits
Military training at Fort Knox, Kentucky qualifying the student for entry into the Army ROTC advanced course. Subjects include instruction offered on campus in MS 101 through MS 203. Open to students who have completed their Sophomore year and have no prior Army ROTC experience. Students receive pay and travel expenses. Six weeks during June and July. (summer)

MS 291 Special Topics	1-5 credits
MS 292 Special Topics	1-5 credits
MS 293 Special Topics	1-5 credits

Military Science Advanced Courses

MS 300 Military Topographical Analysis 4 credits
Principles of land navigation, orienteering, terrain analysis, map reading and aerial photograph interpretation for the small unit leader. Three one-hour conferences per week. (fall)

MS 302 Tactical Operations 4 credits
The role of the company commander and his subordinate leaders during tactical operations. Planning and execution of small unit offensive and defense maneuvers. Three one-hour conferences per week. (winter)

MS 303 Preparation for Leadership 4 credits
Special problems of military leaders. Adjustment to military life. Selected military subjects in preparation for Army ROTC advanced camp. Pre-camp testing and evaluation. Three one-hour conferences per week. (spring)

MS 304 Army ROTC Advanced Camp 4 credits
Application of leadership principles and techniques in a military environment. Students perform as leaders in a variety of roles, both administrative and tactical. All students receive pay and travel expenses. Conducted for six weeks during June and July at Fort Lewis, Washington. Successful completion of Advanced Camp is required for commissioning. Prerequisite: MS 303. (summer)

MS 401 The Military Team 4 credits
Discussion of command and staff, combined arms, combat support, and service support elements. Concepts of planning, coordination, and decision-making at division, brigade, battalion and company level. Three one-hour conferences per week. (fall)

MS 402 Military Logistics/Military Justice 4 credits
Discussion of the responsibilities of the junior officer concerning logistical management of the Army support system. The Uniform Code of Military Justice, its application within Army units, and its importance to military discipline. Three one-hour conferences per week. (winter)

MS 403 The US Military and World Affairs 4 credits
The interrelationship of the US with other nations and the role of military and political arms of government. Responsibilities of the junior officer in Army administrative management. Selected military subjects in preparation for commissioned service. Three one-hour conferences per week. (spring)

MS 404 Flight Instruction Program 4 credits
Ground school and flight instruction, dual and solo, conducted by FAA approved flight school. Costs paid by the Department of the Army. Private pilot's license may be obtained on completion of the course. Prerequisites: Must be enrolled as a senior in the Military Science program and meet physical requirements. (fall, winter, spring)



Philosophy

James B. Reichmann, S.J., Ph.D., Chairman

Professors:

Engelbert M. Axer, S.J.
J. Gerard Bussy, S.J., (Emeritus)
Leo B. Kaufmann, S.J.
James T. McGuigan, S.J. (Emeritus)
James B. Reichmann, S.J.

Associate Professors:

Robert J. Cousineau, S.J.
Harry H. Kohls, S.J.
Sr. Roberta McMahon, O.P.
Michael T. Toulouse, S.J.

Assistant Professors:

J. Patrick Burke
Vernon J. Harkins, S.J.
Ronald R. Talmage

Instructor:

James W. Riley, S.J.

Objectives

The task of philosophy is to study the world and man in terms of that which constitutes their inner-most unity and meaning. It seeks to discover those all-pervasive factors in the world which refuse to yield to the segregating tendencies of a fragmentary approach to knowledge and to truth. It strives to introduce the students to the language of universal communication whereby he might translate the complex manifold of human experience into relevant and creative meaning for himself and for society. It raises such searching questions as: What is the function of language? What is the meaning of knowing? What is change and is anything permanent? What does it mean to exist? What is the nature of value and can value be merely relative? What is man and his destiny? Can God's existence be rationally determined? What is the nature and origin of evil?

The philosophy taught at Seattle University strives to raise these and similarly significant questions in an atmosphere conducive to facilitating the student's search for truth. It unashamedly recognizes its debt to the past, particularly to those philosophers who have presented a realist view of man and his world compatible with the Judaeo-Christian vision of the universe. At the same time it realizes that to remain dynamically relevant to the contemporary age it must advance and grow and be ever open to new problems, new ideas, new contributions and new perspectives.

Degrees Offered

Bachelor of Arts
Master of Arts

General Program Requirements

Students in philosophy must satisfy the core curriculum requirements of the University as given on page 24 of this bulletin. In addition, students in philosophy must take 10 credits of language; 10 credits of fine arts; and 5 additional credits of each of the following: English, history, mathematics/science, social science, theology and religious studies.

Departmental Requirements

Bachelor of Arts — 55 credits of philosophy which must include PI 110, 220, 250 and 260 plus a program of seven upper division courses. These seven courses must include one from each of the following pairings: PI 340 or 350; 400 or 420; 460 or 465. Qualified students may substitute a written thesis for one of the required courses. Five credits are granted for the thesis which is written under the direction of a faculty member.

Undergraduate Minor — 35 credits of philosophy which must include PI 110, 220, 250, 260 and three upper division courses offered by the department.

Master of Arts — 45 credits of philosophy beyond the undergraduate major, which must include a 500 course in ancient, medieval, modern and contemporary philosophy (20 credit hours) and a written thesis (10 credits). In addition the student is required to take an elective associated with the thesis and a 5 credit 500 special topics reading course covering the period and/or problematic of the thesis. A reading knowledge of either French or German or of another language directly related to the subject matter of the thesis is required. Evidence of such proficiency must be given through either a written or oral examination prior to the beginning of the second quarter of graduate work, or three quarters (15 credits) of successfully completed language courses at the college level. A comprehensive written examination and an oral examination emphasizing the thesis and the period of the candidate's choice complete the program requirements.

Bachelor of Arts

Freshman year

English 100 and core option	10 credits
History core option	10 credits
Philosophy 110, 220	10 credits
Social Science core options	10 credits
Elective	5 credits

Sophomore year

English elective	5 credits
History elective	5 credits
Mathematics/Science core options	10 credits
Philosophy 250, 260 and seminar	15 credits
Theology core option	5 credits
Elective	5 credits

Junior year

Mathematics/Science elective	5 credits
Modern language 105, 106	10 credits
Philosophy seminars	15 credits
Theology core option	5 credits
Electives	10 credits

Senior year

Fine Arts sequence	10 credits
Philosophy seminars	15 credits
Social Science elective	5 credits
Theology elective	5 credits
Electives	10 credits

Total 180 credits

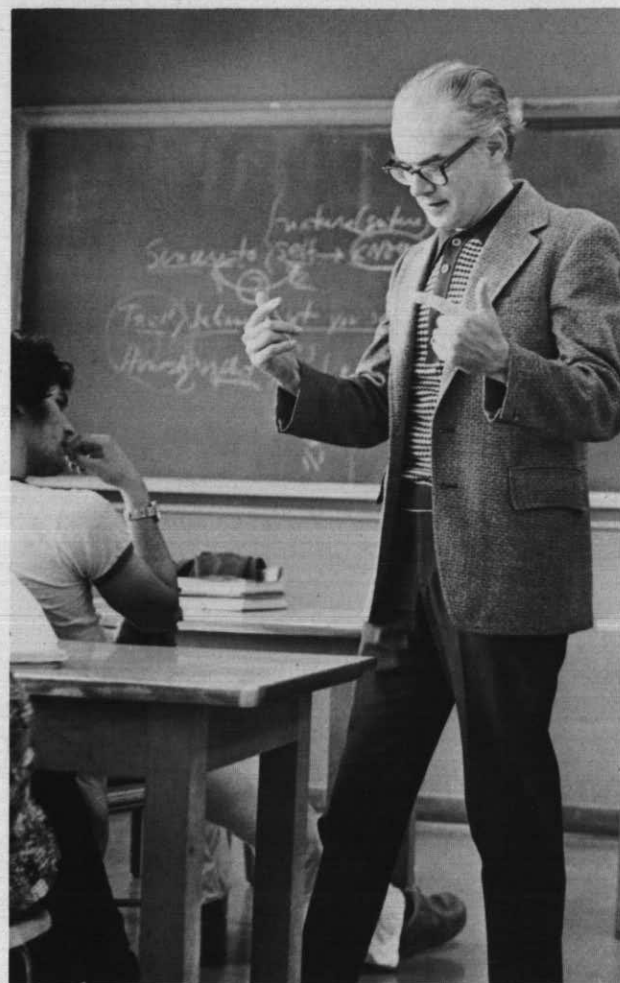
Philosophy Courses

PI 110	Philosophical Problems: World	5 credits
	A combined historical and problematic approach to the nature of philosophical inquiry. An introduction to fundamental philosophical problems of being, language, logic, knowledge, reality, human existence and God.	
PI 125	Introduction to Ancient Greek Philosophy	5 credits
	Readings from source material of the philosophy of the ancient Greeks. Investigation of the topics, problems and doctrines of the pre-Socratics, Plato and Aristotle.	
PI 150	Introduction to Medieval Philosophy	5 credits
	Synthesis of medieval philosophy in its historical perspective with a particular examination of the themes of Arabic, Scholastic and Nominalist metaphysics.	
PI 175	Introduction to Modern Philosophy	5 credits
	Readings from source material of the modern philosophers. Investigation of topics, problems and doctrines of selected authors from Descartes to Kant.	
PI 220	Philosophical Problems — Man	5 credits
	Systematic study of man, his nature and his powers. Special emphasis on the human knowing process and the problems of human freedom and personal responsibility. Prerequisite: PI 110.	
PI 230	Cognitional Analysis	5 credits
	Study of the dynamics of man's cognitional structure and of the implications of this dynamism for	

metaphysics and ethics based on Lonergan's "Insight" and related writings. Prerequisite: PI 220.

PI 250	Ethics	5 credits
	General theory of moral behavior, ethics as a science, the purpose of human life and the means of attaining this goal. Applications of general ethical theory in specific instances. Prerequisite: PI 220.	
PI 252	Business Ethics	5 credits
	Application of general ethical theory to those problems directly related to the business world; employment practices, wages, advertising, honesty, strikes. Prerequisite: PI 220.	
PI 255	Medical Ethics	5 credits
	Application of general ethical theory to basic problems encountered in the medical profession; fees, professional secrecy, rights of patients, abortion, transplants, drugs. Prerequisite: PI 220.	
PI 260	Logic I	5 credits
	Systematic treatment of traditional logic. The themes of communication and language, division and definition, propositions, syllogisms and the nature of science will be examined.	
PI 261	Logic II	5 credits
	Introduction to symbolic or mathematical logic from both an intuitive and formal standpoint. Elementary calculus of classes and relations and introduction to axiomatic set theory and Boolean algebra. Prerequisite: PI 220.	
PI 280	19th Century Philosophy	5 credits
	Readings from source material of the 19th Century philosophers. Investigation of central topics, problems and teachings of selected authors from Hegel to Nietzsche. Prerequisite: PI 220.	
PI 285	20th Century Philosophy — The Analytic Tradition	5 credits
	Readings from source material from 20th Century analytic philosophers. Investigation of contemporary schools of logical positivism and linguistic analysis from Russell to Wittgenstein. Prerequisite: PI 220.	
PI 290	20th Century Philosophy — The Speculative Tradition	5 credits
	Readings from source material of 20th Century process philosophers from Bergson to Whitehead and of the phenomenological tradition from Husserl to Sartre. Prerequisite: PI 220.	
PI 291	Special Topics	1-5 credits
PI 292	Special Topics	1-5 credits
PI 293	Special Topics	1-5 credits
	Prerequisite: PI 220	
PI 295	Contemporary Philosophical Problems	5 credits
	In-depth study of one or more contemporary philosophical problems such as: language and meaning; knowledge and reality; body-mind freedom and responsibility; God and evil; atheism.	
PI 300	Philosophy of Nature	5 credits
	Philosophical appraisal of the material universe, its nature, causes and activities, incorporating the mathematical and experimental findings into the philosophical account of the cosmos. Prerequisite: PI 220.	

- PI 303 Philosophy of Science 5 credits**
 Philosophical reflections on the historical development of the scientific view of the cosmos. Readings from significant sources. Prerequisite: PI 220.
- PI 305 Philosophy of Science — The Behavioral Science 5 credits**
 Study of the philosophical implications and presuppositions of the methodology and conceptual framework of the behavioral sciences; special emphasis on behavioral psychology and statistical analysis. Prerequisite: PI 220.
- PI 307 Philosophy of Science — The Life Sciences 5 credits**
 Consideration of the basic problems concerning the meaning, origin, evolution and structure of organic life. Prerequisite: PI 220.
- PI 310 Contemporary Ethical Theory 5 credits**
 Selected readings from contemporary moral philosophers such as Hare, Stevenson and Fletcher. Prerequisite: PI 220.
- PI 312 Contemporary Social Ethics 5 credits**
 Moral problems facing urbanized man in his contemporary setting. Prerequisite: PI 220.
- PI 315 Value Theory 5 credits**
 Survey and critique of various theories of value, including representatives of naturalism, utilitarianism, analysis, existentialism, formalism, moral sense. Prerequisite: PI 220.
- PI 325 Philosophy of Art 5 credits**
 Philosophical reflection on the nature of art and its reality; beauty as a transcendental property of being and its relationship to art and the artist. Prerequisite: PI 220.
- PI 335 The Philosophy of History 5 credits**
 Study of the aim and scope of history; the meaning of historical explanation and the criteria for historical truth. Prerequisite: PI 220.
- PI 338 Philosophy of Revolution 5 credits**
 A philosophical analysis of the underlying meaning and causes of the social and political phenomenon of revolution with emphasis on ideological revolutionary developments since the 17th century. Prerequisite: PI 220.
- PI 339 Philosophy of Racial Conflict 5 credits**
 A critical examination of the philosophical presuppositions of the historical phenomenon of racial conflict viewed as a derivative of cultural alienation. Prerequisite: PI 220.
- PI 340 Plato 5 credits**
 Selected readings from Plato's "Dialogues." Prerequisite: PI 220.
- PI 350 Aristotle 5 credits**
 Selected readings from the writings of Aristotle. Prerequisite: PI 220.
- PI 385 Epicureans, Stoics and Skeptics 5 credits**
 Survey of Post-Aristotelian and Pre-Plotinian philosophy, with stress on the writings of the Epicureans, Stoics and Skeptics. Prerequisite: PI 220.



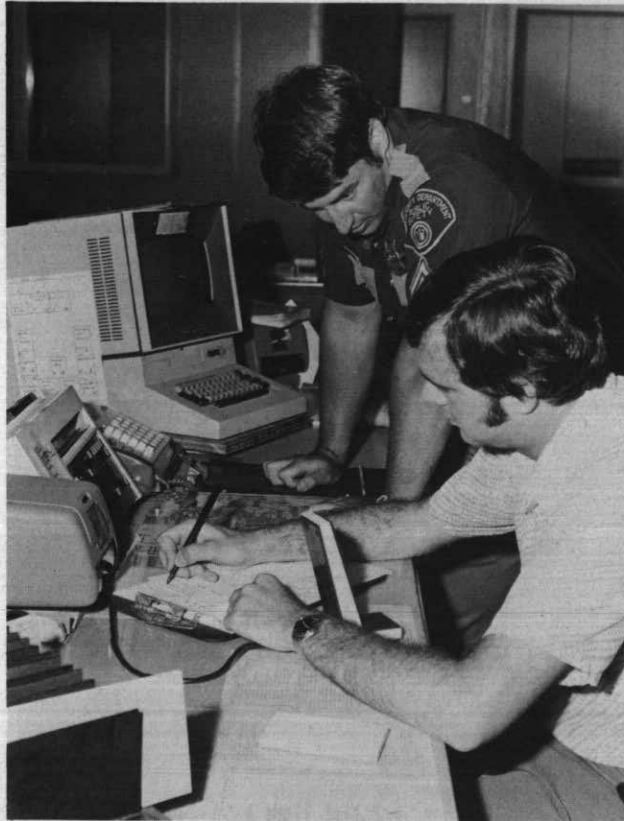
- PI 390 Plotinus 5 credits**
 Selected readings from Plotinus' "Enneads." Prerequisite: PI 220.
- PI 400 St. Augustine 5 credits**
 Readings from the important writings of St. Augustine, such as "The Confessions," "City of God." Prerequisite: PI 220.
- PI 410 Early Medieval Philosophy 5 credits**
 Philosophy of the early medieval period from Augustine to Aquinas, including leading Arab and Jewish philosophers. Prerequisite: PI 220.
- PI 420 St. Thomas Aquinas 5 credits**
 Selected readings from the writings of St. Thomas Aquinas. Prerequisite: PI 220.
- PI 440 Renaissance Philosophy 5 credits**
 Survey of readings from important Renaissance philosophers and Humanists such as Nicholas of Cusa, Machiavelli, Erasmus, Thomas More, Ficino, Pomponazzi, Bruno. Prerequisite: PI 220.
- PI 450 Descartes 5 credits**
 Consideration of his principal writings, discussion of clear and distinct ideas, the methodic doubt, the existence and attributes of God, the nature of the material world, the mind-body problem. Prerequisite: PI 220.

PI 455	British Empiricism of the Seventeenth Century Study of British Empiricism with special emphasis on Locke, Berkeley and Hume. Prerequisite: PI 220.	5 credits
PI 456	17th Century Rationalism Philosophical systems of Spinoza and Leibnitz. Prerequisite: PI 220.	5 credits
PI 460	Kant Seminar in "The Critique of Pure Reason" with a brief supplementary discussion of the moral rationalism of Emmanuel Kant. Prerequisite: PI 220.	5 credits
PI 465	Hegel Philosophy of Hegel with emphasis on "The Phenomenology of Spirit" and "The Philosophy of History." Prerequisite: PI 220.	5 credits
PI 467	Philosophy of Communism Investigation of selected writings from such framers of the philosophy of communism as Marx, Engels, Feuerbach and Lenin. Prerequisite: PI 220.	5 credits
PI 468	Marx A study of the historical background, philosophic origins and nature of the dialectical materialism of Karl Marx. Prerequisite: PI 220.	5 credits
PI 470	Philosophy of Society Consideration of the social nature of man, purpose of society, social groups, the common good, subsidiarity, pluralism and authority. Prerequisite: PI 220.	5 credits
PI 475	Linguistic Analysis Representative readings from among Wittgenstein, Ayer, Ryle, Austin, Strawson, Hampshire, Hare. Prerequisite: PI 220.	5 credits
PI 478	Process Philosophy Selected readings from philosophers of process such as Bergson, Dewey, Whitehead and Teilhard de Chardin. Prerequisite: PI 220.	5 credits
PI 480	American Philosophy Survey of American philosophy with readings from Peirce, James, Royce, Dewey, Santayana and Whitehead. Prerequisite: PI 220.	5 credits
PI 483	Heidegger Investigation of his theory of being and its relation to man and to time, especially as seen in "Being and Time" and "The Introduction to Metaphysics." Prerequisites: PI 220, 460 and 465.	5 credits
PI 484	Merleau-Ponty His philosophy as set forth in "The Phenomenology of Perception" and "The Structure of Behavior." Prerequisite: PI 220.	5 credits
PI 485	Paul Ricoeur — Philosophy of Will Introduction into Ricoeur's methodology and phenomenology of will, especially as contained in his "Freedom and Nature." Prerequisite: PI 220.	5 credits
PI 487	Contemporary Atheism Selected readings from Feuerbach and Nietzsche and from such existentialists as Sartre and Camus. Prerequisite: PI 220.	5 credits

PI 488	Early Existentialism Philosophies of Kierkegaard, Nietzsche and Dostoevsky, with emphasis on their existentialist trends. Prerequisite: PI 220.	5 credits
PI 489	Existentialism Selected readings from contemporary existentialist figures including Sartre, Heidegger, de Beauvoir, Camus, Jaspers, Marcel and Tillich. Prerequisite: PI 220.	5 credits
PI 490	Jean-Paul Sartre Analysis of Sartre's phenomenological ontology of "Being and Nothingness" and its contribution to existential phenomenology. Prerequisite: PI 220.	5 credits
PI 491	Special Topics in Philosophy	1-5 credits
PI 492	Special Topics in Philosophy	1-5 credits
PI 493	Special Topics in Philosophy	1-5 credits
PI 494	Seminar	5 credits
PI 495	Seminar	5 credits
PI 496	Senior Seminar Specially directed projects in research. Limited to seniors in Arts and Sciences. Prerequisite: PI 220 and at least two other courses in the 300/400 series.	5 credits
PI 497	Independent Study	1-5 credits
PI 498	Independent Study	1-5 credits
PI 499	Thesis Original philosophical investigation under the direction of a faculty member appointed by the chairman of the department. Prerequisite: PI 220.	1-5 credits

Graduate Courses

PI 510	Plato	5 credits
PI 520	Aristotle	5 credits
PI 525	Epicureans	5 credits
PI 530	St. Augustine	5 credits
PI 535	Early Medieval	5 credits
PI 540	St. Thomas Aquinas	5 credits
PI 550	Descartes	5 credits
PI 552	British Empiricists	5 credits
PI 554	17th Century Rationalism	5 credits
PI 560	Kant	5 credits
PI 565	Hegel	5 credits
PI 570	American Philosophy	5 credits
PI 580	Kierkegaard and Nietzsche	5 credits
PI 583	Sartre	5 credits
PI 584	Merleau-Ponty	5 credits
PI 585	Heidegger	5 credits
PI 586	Contemporary Ethical Theory	5 credits
PI 587	Value Theory	5 credits
PI 591	Special Topics	1-5 credits
PI 592	Special Topics	1-5 credits
PI 593	Special Topics	1-5 credits
PI 595	Individual Research	5 credits
PI 596	Individual Research	5 credits
PI 597	Individual Research	5 credits
PI 599	Thesis	10 credits



Police Science and Administration

Herbert M. Kagi, Ph.D., Director

Assistant Professors:

Herbert M. Kagi
Michael M. Kelliher

Objectives

The Police Science and Administration degree program seeks to offer academic preparation for professional performance in an expanding law enforcement role requiring a new scope of involvement and a spirit of inquiry; to provide an educational background in operational and managerial concepts and techniques in preparation for future positions of increasing responsibility in the management of police services; to provide students with a liberal arts education; and to contribute significantly to the improvement of the quality of police services.

Graduates of the program may qualify for careers in public and private law enforcement, criminal investigation, crime prevention, law enforcement training, education and planning, and other components of the criminal justice system.

Degree Offered

Bachelor of Police Science and Administration

General Program Requirements

Candidates must satisfy the core curriculum requirements of the University as given on page 24 of this bulletin. Because of the interdisciplinary nature of the degree program, majors are required to take 15 credits in sociology; 15 credits in political science; 15 credits in psychology; and 10 credits in economics.

Degree Requirements

Bachelor of Police Science and Administration — 55 credits in PSA which must include 20 credits in the Police sequence; 20 credits in the Administration sequence; and 15 credits selected by the degree candidate from either sequence.

Bachelor of Police Science and Administration

Freshman and Sophomore years

English 100 and core option	10 credits
History core option	10 credits
Mathematics-Science core option	10 credits
Police Science and Administration	5 credits
Philosophy option	15 credits
Theology option	10 credits
Economics	10 credits
Political Science	5 credits
Sociology	5 credits
Psychology	5 credits
Elective	5 credits

Junior year

Psychology	10 credits
Political Science	10 credits
Police Science and Administration	10 credits
Sociology	10 credits
Elective	5 credits

Senior year

Police Science and Administration	40 credits
(Police Sequence	20 credits)
(Administration Sequence ...	20 credits)
Elective	5 credits

Total 180 credits

Police Science and Administration Courses

PSA 291 Special Topics	1-5 credits
PSA 292 Special Topics	1-5 credits
PSA 293 Special Topics	1-5 credits

PSA 350 Police and the Community 5 credits

The role of police in the community; relationships with individuals, groups and community organizations. Analysis of ethnic, cultural and economic differences as factors in the administration of justice; causes of tension and conflict; positive and negative factors in the control of hostilities; community responsibility for the administration of justice.

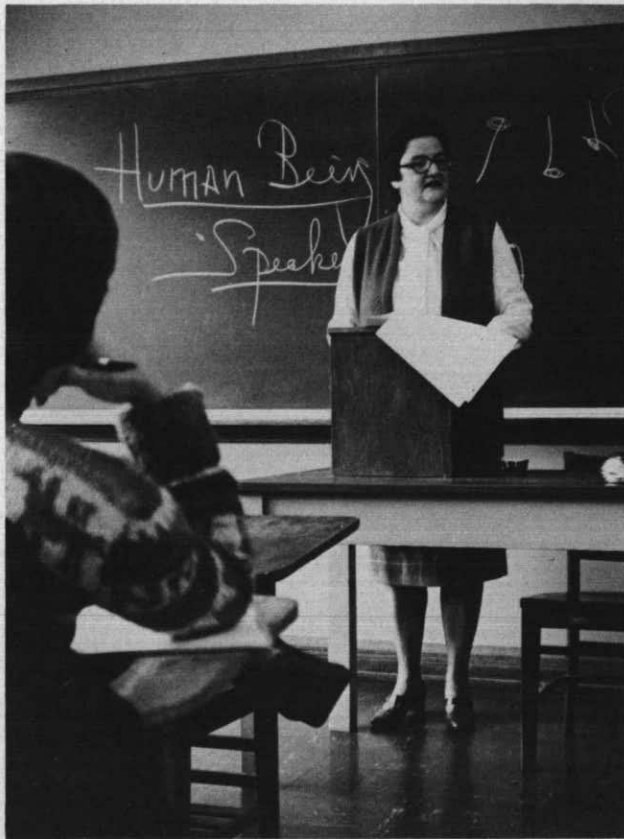
PSA 352 Comparative Police Systems 5 credits

Comparative analysis of police systems in the United States and selected foreign countries. Emphasis on the administration and organizational aspects, functions and process at work in selected foreign police systems. The relationships of the police to the government and the people they serve will also be analyzed.

- PSA 354 Police Planning 5 credits**
Survey of planning tools and techniques. Development of long and short range goals. Data collection, processing and analysis. Budgeting. Design of evaluation and monitoring systems. Calculation, interpretation and applicability of special techniques.
- PSA 355 Crime Prevention 5 credits**
Nature and causes of crime and deviant behavior; analysis of theory and methods of prevention; planning for elimination of conditions conducive to crime; demographic and ecological factors in the incidence and distribution of crime and delinquency. Emphasis on methods of early pre-crime deterrence and diversionary techniques.
- PSA 356 Industrial Security 5 credits**
Historical, philosophical and legal basis of private security. Role of security in modern industrial society. Administrative, personnel and physical aspects of the security field. Review of security and special problems, protective systems and measures taken by industry, retail stores and private police.
- PSA 360 Society and Justice 5 credits**
Survey of criminal justice process from arrest through release; the relationship and respective responsibilities of the police, the prosecutor, the defense, the courts, the prisons and corrections, as each integrates into a system designed to reduce criminal behavior.
- PSA 362 Deviant Behavior 5 credits**
An overview of what American society generally regards as deviant behavior. Emphasis is placed on the results of stigmatization and the acceptance of low self-esteem.
- PSA 365 Probation and Parole 5 credits**
Examination of current trends in probation, parole, supervision, the legal aspects, research, prediction and personnel.
- PSA 366 Corrections 5 credits**
Analysis of the various post-arrest treatment methods applied to offenders; examination of rehabilitative versus punishment theories; evaluation of psychiatric and psychological group treatment methods, reality therapy and other approaches to behavior modification; examination of the correctional institution and community-based corrections.
- PSA 378 Field Experience I 1-5 credits**
PSA 379 Field Experience II 1-5 credits
Direct observation, supervised practical experience and academic study in a selected law enforcement agency of organization in the criminal justice system.
- PSA 410 Juvenile Justice Systems 3 credits**
Examination and study of contemporary police-juvenile operations; police authority and responsibility. Theory and examination of the Juvenile Justice System. The development of police juvenile units. Relationship between the juvenile-officer, crime prevention and police community relations.
- PSA 415 Victimology 5 credits**
Survey of the victim-offender relationship; including the origin and scope of victimology, a victim and his society, the victim and the administration of justice and the social reaction to victimization.



- PSA 420 The Politics of Civil Liberties 5 credits**
An introduction to the "Politics" of civil liberties in American Society by inter-relating the attitudes and behavior of Americans with Supreme Court doctrine, and thereby portray the political context of civil liberties doctrine ("law") at the time of its promulgation and afterwards. The focus will be upon three major libertarian values: Freedom of expression; equality; and due process in criminal procedure.
- PSA 425 Problems of Public Service Bureaucracies 5 credits**
Descriptive analysis of the administrative side of large scale post-Industrial governments. Special emphasis upon coordination and conflict resolution among public agencies by examining the budgeting and planning processes.
- PSA 450 Politics of the Criminal Justice System 5 credits**
The relationship of political values and partisan influence in the criminal justice system including courts, prosecutors, attorneys and pressure groups.
- PSA 455 Criminal Justice System Planning 5 credits**
Methodology of systems planning, theories of analysis and problems of program evaluation with special attention to the criminal justice system.
- PSA 491 Special Topics 1-5 credits**
PSA 492 Special Topics 1-5 credits
PSA 493 Special Topics 1-5 credits
Prerequisite: Upper division standing and permission.
- PSA 497 Individual Research 1-5 credits**
By arrangement, with professional supervision. Prerequisite: Upper division standing and permission.
- PSA 498 Independent Study 1-5 credits**
Prerequisites: Upper division standing and permission.



Political Science

Ben Cashman, Ph.D., Chairman

Professors:

Charles S. LaCugna
Sr. Christopher Querin, S.P.

Associate Professor:

Ben Cashman

Objectives

The curriculum in political science introduces the student to political values, trains him in political analysis and informs him of government processes at the international, national, state and local level. It prepares students for graduate study or for careers in government, research, teaching or private enterprise where either a knowledge of political science or a broad liberal arts background is required.

The Bachelor of Public Affairs program is highly flexible and designed to serve a variety of student interests within the broad area of public affairs and activities. This program is for students who have decided on public service as a career and is especially suited for individuals now employed in the public area who have not completed the baccalaureate degree or wish additional education. (Depending on the agency, funds may be available to help defray tuition costs.) All of the options

within the program stress a basic academic program augmented by an on-the-job internship in an appropriate agency during the senior year. This program will give the necessary preparation for the beginning level staff, professional, and research positions in departments and agencies of city, county, state and national government. It is the expectation that normal progression after employment will bring graduates to leadership roles in public agencies.

Degrees Offered

Bachelor of Arts
Bachelor of Public Affairs

General Program Requirements

Students in political science must satisfy the core curriculum requirements of the University as given on page 24 of this bulletin. Political science majors are strongly encouraged to take additional courses in English, history, philosophy and theology and religious studies and are advised to enroll in courses in economics, psychology, sociology, fine arts and languages. Students who plan to attend law school after graduating in political science should take accounting.

Departmental Requirements

Bachelor of Arts — 60 credits of political science which must include Pls 150 and 160. Majors must select two courses in each of the four major subdivisions of the department and two additional in the area in which they intend to specialize. The four major subdivisions of the department and the applicable courses are: American Government and Politics — Pls 214, 280, 324, 325, 370, 371, 372, 374, 375, 418, 419.

International Relations and Foreign Policy — Pls 249, 350, 360, 362, 385, 390, 391, 437, 438.

Comparative and Foreign Governments — Pls 200, 315, 330, 335, 340, 341, 342, 400, 402.

Political Thought and Theory — Pls 242, 351, 353, 354, 355 490.

Bachelor of Public Affairs — 50 regular class credits of political science which must include Pls 160. A maximum of 15 additional internship credits will be allowed but an internship will not necessarily be required of all BPA students; determination of this requirement will be made in consultation with the adviser. If no internship is taken, the student must take 10 additional hours of political science course work. There are four areas of specialization within this degree and courses will be determined according to the area of concentration: Urban Studies, American Studies, International Studies and Public Administration.

Undergraduate Minor — 30 credits which must include Pls 150 and 160 and one course from each of the four major subdivisions of the department.

Bachelor of Arts

Freshman year

English 100 and core option	10 credits
History core options	10 credits
Philosophy 110, 220	10 credits
Political Science 150, 160	10 credits
Social Science core option	5 credits

Sophomore year

Philosophy core option	5 credits
Political Science 200 series	10 credits
Social Science core option	5 credits
Theology core options	10 credits
Electives	15 credits

Junior year

Mathematics/Science core options	10 credits
Political Science 300 series	20 credits
Electives	15 credits

Senior year

Political Science 400 series	20 credits
Electives	25 credits

Total 180 credits

Bachelor of Public Affairs

Freshman year

English 100 and core option	10 credits
History 103 and core option	10 credits
Philosophy 110, 220	10 credits
Political Science 160	5 credits
Psychology 100	5 credits
Sociology 101	5 credits

Sophomore year

Economics 271	5 credits
Philosophy core option	5 credits
Political Science	15 credits
Theology core option	10 credits
Electives	10 credits

Junior year

Mathematics/Science core options	10 credits
Political Science	15 credits
Electives	20 credits

Senior year

Political Science 488 or 489	15 credits
Political Science	15 credits
Electives	15 credits

Total 180 credits

Political Science Courses

Pls 150 Introduction to Political Science	5 credits
Study of concepts and tools used by political science; foundations of politics; development of the state and political and legal institutions; comparisons of various forms of government; definitions of key terms.	

Pls 160 American National Government	5 credits
Study of the foundations, structures, functions of the executive, legislative and judicial branches of the government and their inter-relations with the popular processes of government.	
Pls 200 Comparative European Democracies	5 credits
Analysis of selected foreign democratic systems; constitutional and ideological principles, governmental forms, practices and problems.	
Pls 214 Government and the Economy	5 credits
Government regulation and promotion of business, agricultural, labor and consumer interests. The regulatory agencies. Government corporations, anti-poverty programs. Government economic Stabilization policies, critique of American capitalism.	
Pls 242 American Political Thought	5 credits
Study of American political traditions; Puritanism, revolutionary thought, federalism, Jeffersonianism, intellectual democracy, slavery, progressivism, pragmatism, social utilitarianism and political thought in law and literature.	
Pls 249 Introduction to international Politics	5 credits
Analysis of the dynamic forces in international relations; power nationalism, sovereignty, colonialism, imperialism, theories of war and peace.	
Pls 280 The Judicial Process	5 credits
Overview of the role of law and the judiciary in American political life; the powers and limitations of the judiciary; individual rights in legal conflicts; study of selected key cases. Designed especially for non-majors.	
Pls 290 Parliamentary Procedure	3 credits
Parliamentary procedure based on the practice of Great Britain and the United States as summarized by leading authorities on parliamentary law. Practicum sessions, the writing and analyzing of Constitutions and the politics inherent in parliamentary procedure.	
Pls 291 Special Topics	1-5 credits
Pls 292 Special Topics	1-5 credits
Pls 293 Special Topics	1-5 credits
Pls 315 Comparative Totalitarian Systems	5 credits
Study of 20th Century totalitarian ideologies and their influence on governmental functions and processes. Comparative study of selected communist states, military dictatorships and nationalist-authoritarian states.	
Pls 324 Political Parties and Interest Groups	5 credits
Theories, organization, strategy and leadership or American political parties, campaigns and party leadership. Role of agrarian, labor, professional, educational, business and ethnic groups in the American political process; their impact on institutions and processes of government.	

- Pls 325 The Legislative Process 3 credits**
Analysis of American State and national legislative processes; legislative politics; the role of the legislature in the political system; lobbying; theories of representation.
- Pls 330 Government of the Soviet Union 5 credits**
Study of the ideological foundations of Soviet government, the functions of government, the role of the Party, the military and Soviet law.
- Pls 335 Government of Communist China 5 credits**
Study of the structure, function and processes of contemporary Chinese government; the role of the Party and the military; government administration and the personalities of the top leadership.
- Pls 340 Comparative Politics of Asia 5 credits**
Analysis of selected Asian systems; governmental forms and ideologues; problems of nation-building; inter-state relations in the area.
- Pls 341 Comparative African Systems 5 credits**
Analysis of selected governments of Africa; constitutionalism, militarism, economic development and social change.
- Pls 342 Comparative Latin American Systems 5 credits**
Analysis of selected governments of Latin America; nationalism, imperialism, revolutionary models and problems of economic development and social change.
- Pls 350 International Law 5 credits**
Fundamentals of international law; states and international law; the individual in international law; creation; application and enforcement of international law.
- Pls 351 Political Thought: Ancient and Medieval 5 credits**
Critical examination of political ideas from the pre-Socratics to 1400. Middle Eastern as well as Western Medieval ideas will be considered with emphasis on the rading of source materials.
- Pls 353 Modern Political Thought 5 credits**
Political ideas from Machiavelli through Hobbes, Locke, Montesquieu, Rousseau, the English Utilitarians, 19th Century non-Marxian Socialism.
- Pls 354 Comparative Marxist Political Theories 5 credits**
Critical examination of the chief theories developed by Marx, Engels, Lenin, Mao Tse Tung, Tito, Braz and certain revisionists.
- Pls 355 Recent Political Theory 5 credits**
Critical analysis of political theories from Marx to the present.
- Pls 360 Contemporary International Relations in Europe 5 credits**
European diplomacy and international relations from World War I to the present; contemporary developments and prospects for the future.
- Pls 362 Contemporary International Relations in Africa 5 credits**
Role of Africa in world politics from World War I to the present; the Western Powers in Africa; African nations in the United Nations.
- Pls 370 Public Administration 5 credits**
Role of public administration in the political system; relationship of bureaucracy to the executive, judicial and legislative branches of government, the budgetary process, personnel administration, organization theory; control of the bureaucracy.
- Pls 371 State Government and Politics 5 credits**
Comparative analysis of American state governments including the executive, judicial and legislative branches of government, state party politics; policy outputs of state governments; state-local, interstate and state-national intergovernmental relations.
- Pls 372 Urban and Metropolitan Government and Politics 5 credits**
Problems of large American cities with special emphasis on transportation, housing, public safety and planning problems. Fiscal problems of American cities; analysis of the types of American city government; metropolitan government; public school politics.
- Pls 374 The American Presidency 5 credits**
Analysis of the powers of American presidents: relationship with Congress, bureaucracy, judiciary, public, private sector of the economy and with foreign governments. Emphasis on analysis of the activities of the incumbent president and his contemporaries.
- Pls 375 Minority Politics in the United States 5 credits**
Examinations of the non-white American in political and legal perspective and an analysis of alternatives for change. Consideration of Native Americans, Chicanos and Asian-Americans with special focus on the Black political experience. Prerequisite: Pls 160 or permission.
- Pls 385 Peace and The United Nations 5 credits**
Introduction to the history, theories and problems of international organizations; the League of Nations and the United Nations and the Specialized Agencies.
- Pls 390 Diplomatic and Consular Practices 3 credits**
Analysis of American foreign policy-making; the Constitutional framework; operations of the Department of State and overseas missions; diplomatic privileges of immunities.
- Pls 391 United States Foreign Policy 5 credits**
Constitutional framework; major factors in formulation and execution of foreign policy; American policy in Europe, the Near East, Africa, the Far East and in Latin America historically and current.
- Pls 400 Comparative Political Institutions 5 credits**
Comparative study of the nature, structure and function of the major institutions of government through

the use of recent approaches to politics, political culture, systems analysis and the developmental model. Prerequisites: Pls 200 and 315.

Pls 402 Comparative Politics of the Middle East 5 credits

Study of the nature of the political conflict between Israel and her Arab neighbors; special emphasis on the political institutions of Egypt and Israel.

Pls 418 Constitutional Law 5 credits

Growth, philosophy and development of the United States Constitution as reflected in decisions of the Supreme Court with emphasis on the role of the Court in contemporary America. Prerequisite: Junior or senior standing.

Pls 419 The Supreme Court and the Bill of Rights 5 credits

Interpretation of the Bill of Rights by the Supreme Court and the impact on the individual and the States. Prerequisite: Junior or senior standing.

Pls 435 Politics of Developing Countries 5 credits

Emergence of nationalism, resistance and conflict in the modernization process, economic modernization, patterns and problems of political development.

Pl 437 Peace Movements and World Government 5 credits

An analysis of the theoretical basic of regionalism and universalism as approaches to world peace. A study of current regional experiments; proposals for revision of the U.N. Charter; World Federalism and World State. Trends and prospects.

Pls 438 Contemporary World Politics 5 credits

An examination of the dominant political forces on today's international scene and the effects of these forces on international relations, international law and international organizations. Trends and prospects toward peace and war today.

Pls 488 Internship — American Government 2-15 credits

Pls 489 Internship — International 2-15 credits

On-the-job experience with an appropriate governmental agency required for the BPA degree. Students may register for two or more credits per quarter; however, no more than 15 total intern credits may be earned. No letter grade will be given, only credit/no credit will be granted.

Pls 490 Scope and Methods of Political Science 2-5 credits

Analysis of the history, methodology and focus of research in political science. Current state of the discipline. Prerequisite: Permission of instructor.

Pls 491 Special Topics 2-5 credits

Pls 492 Special Topics 2-5 credits

Pls 493 Special Topics 2-5 credits

Pls 494 Seminars 2-5 credits

Pls 495 Seminars 2-5 credits

Pls 496 Seminars 2-5 credits

Pls 497 Independent Study 2-5 credits

Pls 498 Independent Study 2-5 credits

Pls 499 Independent Study 2-5 credits



Prelaw

Ben Cashman, Ph.D., Adviser

Sr. Christopher Querin, SP, Ph.D., Adviser

Program

The best preparation and a requirement for entrance to many law schools is the completion of a four-year program for the bachelor's degree. Only a few law schools will admit students who have completed three years of undergraduate work.

In advising prelaw students, Seattle University follows the recommendations of the Association of American Law Schools. These stress comprehension and expression in words, critical understanding of human institutions and values with which the law deals, and creative power in thinking. These capacities may be developed through study in any of a number of departmental majors.

Entering students interested in law must declare a major in the field in which they are most interested and for which they are best suited. Those unable to make such a determination upon entrance will be enrolled in the General Studies program. The program of study of each prelaw student must be approved by the departmental adviser and the prelaw adviser should be consulted quarterly. During their junior year, students must acquaint themselves with the entrance requirements of the law school they plan to attend and make arrangements to take the law school admissions test. The application form and the instruction booklet for this test may be obtained from the prelaw adviser.



Psychology

George D. Kunz, Dh.D., Chairman

Professors:

Thomas W. Cunningham
James E. Royce, S.J.

Assistant Professors:

R. Michael Brown
Thomas B. Hamilton
George D. Kunz

Objectives

The curriculum is designed for students who plan to work as professional psychologists and thus need a sound preparation for graduate study; for students who plan a career in any field dealing primarily with people, such as nursing, teaching, social work, guidance and personnel; or for those who desire a well-rounded education and thus need a basic knowledge and understanding of human behavior. The specific and unique role of the Psychology department is to provide a solid knowledge of psychology as an empirical science.

Degrees Offered

Bachelor of Arts
Bachelor of Science

General Program Requirements

Students in psychology must satisfy the core curriculum requirements of the University as given on page 24 of this bulletin. See programs of study below for additional requirements.

Psychology majors may choose any minor but are advised to take mathematics, biology or sociology. For social work, the recommended curriculum is a major in psychology and a minor in sociology. Premedical students may take a Bachelor of Science in psychology. All psychology majors must obtain a grade of C or higher in those courses listed below under departmental requirements, and must maintain a 2.00 grade point average in all other psychology courses.

Departmental Requirements

Bachelor of Arts — 45 credits of psychology which must include Psy 100, 201, 301 and 401.

Bachelor of Science — 45 credits of psychology which must include Psy 100, 201, 202, 301, 330, 401, 402 and a minimum of 40 credits of mathematics and physical science.

Undergraduate Minor — 30 credits of psychology which must include Psy 100.

Bachelor of Arts

Freshman year

English 100.....	5 credits
History core option	10 credits
Mathematics/Science core option	5 credits
Psychology 100, 201	10 credits
Electives	15 credits

Sophomore year

Mathematics/Science core option	5 credits
Philosophy 110, 220	10 credits
Psychology elective	5 credits
Social Science core option	5 credits
Electives	20 credits

Junior year

English core option	5 credits
Psychology 301, 401 and electives	20 credits
Social Science core option	5 credits
Theology core options	10 credits
Elective	5 credits

Senior year

Philosophy core option	5 credits
Psychology electives	10 credits
Electives	30 credits

Total 180 credits

Bachelor of Science

Freshman year

English 100.....	5 credits
History core option	10 credits
Mathematics/Science electives	15 credits
Psychology 100.....	5 credits
Electives	10 credits

Sophomore year

Mathematics/Science electives	10 credits
Philosophy 110, 220	10 credits
Psychology 201, 202 and elective	13 credits
Social Science core option	5 credits
Electives	7 credits

Junior year

English core option	5 credits
Mathematics/Science electives	10 credits
Psychology 301, 330 and elective	15 credits
Social Science core option	5 credits
Theology core options.....	10 credits

Senior year

Mathematics/Science elective	5 credits
Philosophy core option.....	5 credits
Psychology 401, 402 and elective	15 credits
Electives	20 credits

Total . . . 180 credits

Psychology Courses

Psy 100	Introductory Psychology	5 credits
	General introduction to the data of scientific psychology, including its nature, scope and method; organic, environmental and personal factors that influence human behavior. (fall, winter, spring)	
Psy 201	Statistics I	5 credits
Psy 202	Statistics II	3 credits
	I. Basic descriptive methods; measures of central tendency, variability, correlation and regression; inferential statistics, hypothesis testing, binomial probability, t-tests, Chi-square, simple analysis of variance. II. More complex analyses; factorial designs and non-parametric statistics. Prerequisite: Psy 201 or 202. (I-fall, winter, spring, II-winter)	
Psy 210	Personality Adjustment	5 credits
	The normal personality; self-knowledge and self-actualization; personality adjustment problems; various inadequate reactions, escape and defense mechanisms; positive mental health. Prerequisite: Psy 100 (winter, spring)	
Psy 291	Special Topics	1-5 credits
Psy 292	Special Topics	1-5 credits
Psy 293	Special Topics	1-5 credits
Psy 301	History and Schools of Psychology	5 credits
	Survey of the history of psychology, including the classic periods of structuralism, functionalism, behaviorism, psychoanalytic schools and Gestalt. Prerequisite: Psy 100. (fall)	



Psy 302 Contemporary Theories **5 credits**
Critical examination of the major theories, issues and methodology in psychology since 1935; emphasis on personality, learning and perception. Prerequisite: Psy 301 or permission. (winter)

Psy 315 Abnormal Psychology **5 credits**
Survey of abnormal mental and emotional life; symptoms, nature and causes of psychological disorders; abnormalities of specific functions; theories of etiology. Prerequisite: Psy 100. (fall)

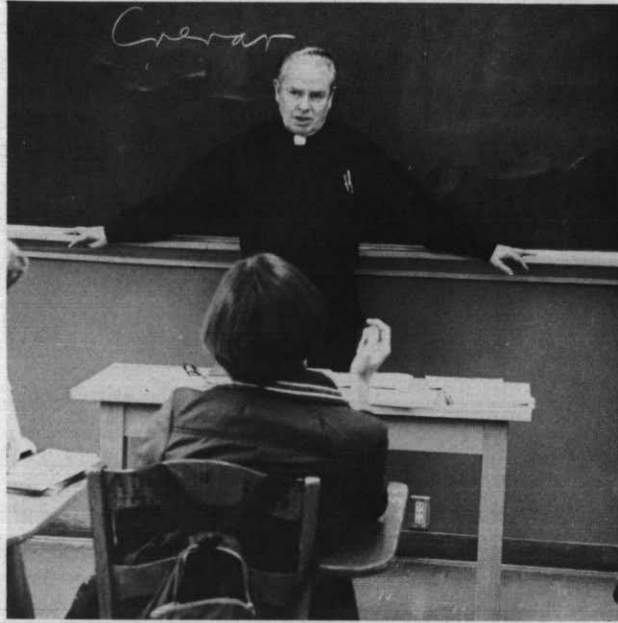
Psy 322 Psychology of Growth and Development **5 credits**
Development from infancy; formative aspects of childhood; puberty; characteristics and special problems of adolescents; emotional maturation. Prerequisite: Psy 100 or equivalent. (fall, winter, spring)

Psy 330 Physiological Psychology **5 credits**
Biological basis of behavior, cerebrospinal, autonomic and sensory systems; endocrine glands, relation of the brain to behavior. Prerequisites: Psy 100 and human physiology. (spring)

Psy 380 Measurement in Psychology **5 credits**
Principles of psychological measurement; nature, uses and limitations of psychological testing; reliability, validity. Prerequisite: Psy 201. (winter)

Psy 381 Psychological Tests **3 credits**
Survey of commonly used tests; aim, content, administration, scoring and interpretation. Prerequisite: Psy 380. (spring)

Psy 390 Computer Research Methods **3 credits**
Use of the electronic digital computer in behavioral science research. Laboratory session requires console technique and use of data processing equipment. Three lecture and three laboratory hours per week. Prerequisites: Psy 201. (winter)



- Psy 401 Experimental Laboratory Psychology I** 5 credits
- Psy 402 Experimental Laboratory Psychology II** 5 credits
I. Nature and interpretation of experimentation, basic experimental design; psychophysical methods; sensory and perceptual processes. II. Learning, student experience with animal conditioning. Three lecture and four laboratory hours per week. Prerequisites: Psy 100 and 201 for 401; 401 for 402. (I-fall, spring, II-winter)
- Psy 427 The Counseling Interview** 5 credits
Basic theory, principles and dynamics of the counselor-client relationship and the counseling process. Prerequisite: Permission. (spring)
- Psy 460 Group Dynamics** 5 credits
Survey of theories and empirical studies of the dynamics of group behavior; emphasis on means of more effective and productive group performance. Prerequisite: Psy 210 or equivalent. (fall, winter)
- Psy 490 Symposium on Alcoholism** 2-5 credits
Psychological, educational, physiological, social, industrial, psychiatric, therapeutic and rehabilitation aspects of the problem of alcoholism. Prerequisite: Junior or senior standing in psychology, sociology, premedicine or nursing, or permission. (winter)
- Psy 491 Special Topics in Psychology** 2-5 credits
Psy 492 Special Topics in Psychology 2-5 credits
Psy 493 Special Topics in Psychology 2-5 credits
By arrangement. Prerequisite: Permission.
- Psy 494 Seminar** 2-5 credits
Prerequisite: Permission. (fall)
- Psy 497 Individual Research** 2-5 credits
Psy 498 Individual Research 2-5 credits
Psy 499 Individual Research 2-5 credits
By arrangement. Prerequisite: Permission.



Rehabilitation

Ekkehard J. Petring, Ph.D., Chairman

Assistant Professors:

Josef Afanador
Susanne Bruyere
Jerome R. Dunham
J. Hutchison Haney
John L. Kite
Ekkehard J. Petring
John K. Thompson

Objectives

The Rehabilitation Program is designed to train students to become vocational rehabilitation professionals who work with mentally and/or physically disabled persons. As Rehabilitation Specialists, their goal will be to move disabled individuals from a status of dependence to the level of maximum functioning of which they are capable. Accordingly, Rehabilitation Specialists deal with clients, primarily on a one-to-one basis, who have disabilities preventing them from obtaining or retaining employment. Based on the level of rehabilitative readiness, some of the disability groups Rehabilitation Specialists might work with include alcoholics, blind, deaf and hard-of-hearing, drug addicts, industrially injured, mentally ill, mentally retarded, public assistance recipients, the severely disabled and parolees, to name a few.

The program prepares students who, upon graduation, might become employed in public and private human service settings such as state vocational rehabilitation agencies, federally sponsored human service agencies, county agencies, social welfare agencies, poverty programs, prisons, evaluation centers, and health-related associations, as well as private agencies such as transitional workshops, rehabilitation centers,

hospitals, speech and hearing centers, work activity centers (adult development centers) and others.

Emphasis is placed on actual supervised field experiences in a variety of rehabilitation related agencies (30 credits), in addition to giving the students knowledge in medical and psychological aspects of disability, the world of work or occupational information and community resources in rehabilitation.

Degree Offered

Bachelor of Arts in Rehabilitation

General Program Requirements

Students in rehabilitation must satisfy the core curriculum requirements of the University as indicated on page 24 of this bulletin plus additional credits in social science as outlined below.

Degree Requirements

Bachelor of Arts—65 credits in rehabilitation including Rhb 100, 201 (or Psy 380), 203 (or Psy 427), 210, 301, 305, 310, 400, 405, 410; 15 credits in psychology and 10 credits in sociology (Psy 100, 201, 315, and Sc 101, Sc elective).

Freshman year

English 100 and core option 10 credits
History core option 10 credits
Philosophy 110 5 credits
Psychology 100 5 credits
Rehabilitation 100 5 credits
Sociology 101 and Sociology elective 10 credits

Sophomore year

Biology 200, 210, or 270, 271 10 credits
Philosophy 220 5 credits
Psychology 201 5 credits
Rehabilitation 201, 203, 210, 301 20 credits
Theology core option 5 credits

Junior year

Philosophy core option 5 credits
Psychology 315 5 credits
Rehabilitation 300, 305, 400 15 credits
Theology core option 5 credits
Elective 15 credits

Senior year

Rehabilitation 405 5 credits
Rehabilitation 410 20 credits
Electives 20 credits

Total . . . 180 credits

Rehabilitation Courses

Rhb 100 Introduction to Rehabilitation 5 credits
Principles of vocational rehabilitation, the historical background, various community rehabilitation resources, the rehabilitation process, and the role and functions of the rehabilitation specialist within this process.

Rhb 201 Interviewing and Interpersonal Skills 5 credits
Using group and interpersonal communication techniques, the course emphasizes the interaction dynamics between the rehabilitation specialist and the disabled client.

Rhb 203 Tests and Measurement in Rehabilitation 5 credits
Analyzes various methods of testing and evaluating disabled people and how the methods relate to the rehabilitation process.

Rhb 210 Field Experience in Rehabilitation 5 credits
Actual experience in an agency or institutional setting within a rehabilitation framework. Integration and application of classroom knowledge with live experience in the field. Coordinating seminars are an integral part of each field experience course (one hour of seminar to eight hours of field experience). Prerequisite: Rhb 100.

Rhb 291 Special Topics 1-5 credits
Rhb 292 Special Topics 1-5 credits
Rhb 293 Special Topics 1-5 credits

Rhb 301 Environmental Impact of Disability 5 credits
The impact of mental, physical, and social disabilities as related to the individual, his social environment, the culture and its values, economic situations and vocational opportunities.

Rhb 305 Medical Aspects of Disability 5 credits
Study of medical terminology and various disabling diseases and conditions for a basic understanding of general medical and specialist examinations; how disabling conditions affect a client's vocational life. Prerequisite: Anatomy and Physiology.

Rhb 310 Field Experience in Rehabilitation 5 credits
See course description for Rhb 210.

Rhb 391 Special Topics 1-5 credits
Rhb 392 Special Topics 1-5 credits
Rhb 393 Special Topics 1-5 credits
By arrangement with the approval of department chairman.

Rhb 400 Rehabilitation Resources 5 credits
Rehabilitation community organization, its power structure, and methods of determining, evaluating and analyzing rehabilitation resources.

Rhb 405 Job Placement and Development 5 credits
The nature and use of occupational information as applied to job characteristics, job development, job seeking skills, vocational theories and practical experience.

Rhb 410 Field Experience in Rehabilitation 5-15 credits
See course description for Rhb 210.

Rhb 497 Independent Study 1-5 credits
Rhb 498 Independent Study 1-5 credits
Individualized studies by arrangement with the approval of department chairman.



Master of Arts in Rehabilitation

Ekkehard J. Petring, Ph.D., Director

Objectives

The Master of Arts in Rehabilitation is designed to prepare graduates for professional responsibilities in the human service field. To attain this major objective, the program is designed with the following goals: (1) to develop the graduate's rehabilitation skills for the entry level in private or public rehabilitation settings; (2) fulfill the need of the professional rehabilitation worker who wants to continue his education; (3) to fulfill the need of the student who wants an opportunity to specialize in the rapidly changing field of rehabilitation; (4) to fulfill the need of the student who wants in-depth study in a selected area of concentration.

The program prepares students who, upon graduation become employed as counselors in public and private human service settings, such as State vocational rehabilitation agencies, federally sponsored human agencies, county agencies, social welfare agencies, poverty programs, prisons, evaluation centers, and health related associations, as well as private agencies such as transitional workshops, rehabilitation centers, hospitals, speech and hearing centers, work activity centers (adult development centers), and others.

The development and improvement of counseling skills will be emphasized. Special attention will be given to counseling methods utilized in the student's area of interest, such as working with alcoholics or public offenders. Furthermore, each student will select electives in their area of interest.

General Program Requirements

Each student is responsible for knowing the academic regulations and requirements set forth in this Bulletin of Information, and for revisions of same.

Depending upon an applicant's professional background, the minimum number of credits are 45, the maximum 67.

A one-to-two day comprehensive written/oral examination will be required of rehabilitation graduate students nearing completion of their degree requirements.

Program of Study

The Master of Arts in Rehabilitation is comprised of four phases of study: A) Foundation; B) Rehabilitation core; C) Electives; and D) Educational research.

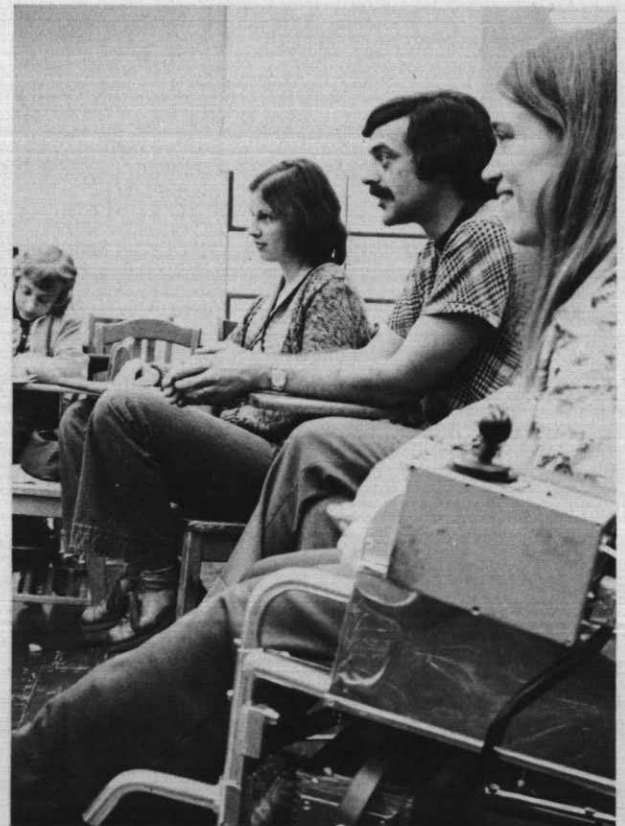
A. Foundation Courses

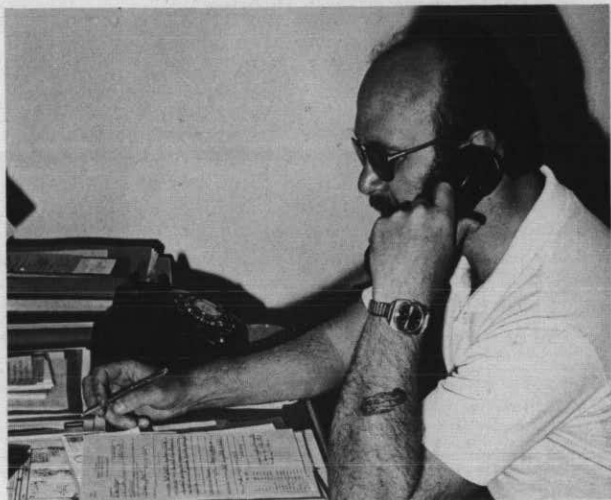
(may be waived for students with satisfactory prior academic coursework or relevant job experience):

- Rhb 301 Environmental Impact of Disability
- Rhb 305 Medical Aspects of Disability
- Rhb 400 Rehabilitation Resources
- Rhb 405 Job Placement and Development

Degree Offered

Master of Arts in Rehabilitation





Admission Requirements

- a. Bachelor's degree from an accredited academic institution, preferably in one of the social sciences.
- b. GPA: 3.00 minimum.
- c. Miller's Analogies Test.
- d. Personal interviews with rehabilitation faculty.
- e. Two letters of recommendation.
- f. In most cases, prior to acceptance, one year of experience in the field of rehabilitation or a related area.

B. Rehabilitation Core Courses

- RHB 500 Principles of Rehabilitation
- RHB 505 Vocational Diagnosis
- RHB 510 Rehabilitation Counseling Process
- RHB 515 Supervision and Management in Rehabilitation
- RHB 520 Group Process in Rehabilitation
- RHB 530 Practicum in Rehabilitation
- RHB 531 Practicum in Rehabilitation
- RHB 540 Internship in Rehabilitation

C. Electives (Four to six credits)

The course, or courses, chosen by the student must reflect relevance in his area of interest in rehabilitation. For example, if a student is interested in working with juvenile delinquents and/or adult offenders, a Police Science and Administration course in Corrections (PSA 366) or Probation and Parole (PSA 365) would be two suitable choices. Courses in Alcohol Studies may be chosen up to a total of 14 credits, which constitutes a specialty program.

D. Educational Research (One course)

- ED 500 Introduction to Research and Graduate study (3 credits)

Rehabilitation Courses

A) Foundation Courses

- Rhb 301 Environmental Impact of Disability 5 credits**
Impact of mental, physical, and social disabilities as related to the individual, his social environment, the culture and its values, economic situations and vocational opportunities.

- Rhb 305 Medical Aspects of Disability 5 credits**
Study of medical terminology and analysis of various disabling conditions and diseases for a basic understanding of general medical and specialist examinations.
- Rhb 400 Rehabilitation Resources 5 credits**
Rehabilitation community organization, its power structure, and methods of determining, evaluating and analyzing rehabilitation resources.
- Rhb 405 Job Placement and Development 5 credits**
Nature and use of occupational information as applied to job characteristics, job development, job seeking skills, vocational theories and practical experience.

B) Rehabilitation Core Courses

- Rhb 500 Principles in Rehabilitation 5 credits**
Counseling and placement in rehabilitation, rehabilitation supervision and administration and theories of career development.
- Rhb 505 Vocational Diagnosis 3 credits**
Critical review of clinical methods; individual appraisal and other methods of assisting the person with a disability in selecting a vocational objective; case review and analysis.
- Rhb 510 Rehabilitation Counseling Process 3 credits**
Theories of rehabilitation counseling, their techniques and emphasis on application in rehabilitation settings.
- Rhb 515 Supervision and Management in Rehabilitation 3 credits**
Principles of supervision and management; fiscal and case management as it applies to a variety of health and rehabilitation facilities.
- Rhb 520 Group Process in Rehabilitation 3 credits**
Seminar on the rehabilitation process, techniques, and selected counseling theories as applied to groups in conjunction with one supervised practicum experience.
- Rhb 530 Practicum in Rehabilitation 3 credits**
Counseling experience applying the principles of rehabilitation; the student functions part-time in a rehabilitation agency (one hour of individual supervision per two hours of practicum experience).
- Rhb 531 Practicum in Rehabilitation 3 credits**
- Rhb 540 Internship in Rehabilitation 15 credits**
Full-time placement in a rehabilitation setting, integrating and applying knowledge from the classroom; further development of counseling skills emphasized, students will be supervised by staff.
- RHB 591 Special Topics 1-10 credits**
- RHB 592 Special Topics 1-10 credits**
- RHB 593 Special Topics 1-10 credits**
- RHB 596 Individual Research 1-10 credits**
- RHB 597 Individual Research 1-10 credits**
- RHB 598 Individual Research 1-10 credits**



Sociology

James P. Goodwin, S.J., M.A., Chairman

Professors:

James P. Goodwin, S.J.
J. Robert Larson
Anita Yourglich

Assistant Professor:

David D. McCloskey

Objectives

Sociology has the dual capacity of satisfying the need of students for a humane and liberalizing discipline and of providing a sound basis for careers either in the science of sociology or in social research or in the social services. Courses are designed to provide a systematic inquiry into the complex structures of modern society and their many functions. They also investigate the interactions between persons, their groups and culture.

Students may choose sociology for various purposes: Some are interested in making a career of teaching sociology or doing sociological research; others study sociology in preparation for graduate study and a career in social work; still others seek in sociology a broader and deeper understanding of man and his

works. With a view to these interests, different combinations of courses are recommended to students. In a separate brochure, combinations of courses are suggested for those interested in the sociology of family relations, in the sociology of deviant behavior, in urban sociology, and in methods of sociological research. Common to all of these are required courses intended to communicate to the student a knowledge of the conceptual tools of analysis and the methods of sociological research.

Degree Offered

Bachelor of Arts

General Program Requirements

Students in sociology must satisfy the core curriculum requirements of the University as given on page 24 of this bulletin. In addition, 10 credits in a modern language and 15 credits in fine arts are required.

Departmental Requirements

Bachelor of Arts — 55 credits are required for a major in sociology of which 25 credits are in basic courses, including Sc 101, 200, 201, 380 and 381; and 30 credits are in the upper division courses of one of the following three programs: Preprofessional program for sociologists—30 credits. Sc 497 is required. Students in this program are not permitted to take Sc 300, 376 or 377.

Preprofessional program for social workers — 30 credits. Sc 300, 376 and 377 are required. The remaining credits may be selected from any upper division sociology courses. Sc 260 and 262 are recommended.

Liberal sociology major — 30 credits. The student may take any upper division sociology course with the approval of his adviser.

Undergraduate Minor — 30 credits which will include Sc 101, 380 and 17 to 20 credits of upper division sociology courses.

Bachelor of Arts

Freshman year

English 100 and core option	10 credits
Philosophy 110, 220	10 credits
Psychology 100	5 credits
Sociology 101, 201	10 credits
Electives	10 credits

Sophomore year

History core option	10 credits
Philosophy core option	5 credits
Political Science or Economics core option	5 credits
Sociology 200, 380, 381	15 credits
Theology core options	10 credits
Elective	5 credits

Junior year
 Mathematics/Science core options 10 credits
 Modern Language 105, 106 10 credits
 Sociology electives 15 credits
 Electives 10 credits

Senior year
 Fine Arts 101, 102, 103 15 credits
 Sociology electives 15 credits
 Electives 15 credits

Total 180 credits

Sociology Courses

Sc 101 Fundamentals of Sociology 5 credits

Nature of science as it applies to human social interrelationships; patterns of human relations in the formation of groups, the development of culture and the impact of these in the formation of the human person; ways in which interaction patterns emerge, become normative and result in integrated social structures. Stress is on analysis of interpersonal relations. Analysis of demographic and ecological principles as a basis for consideration of major institutional structures in human society, such as religious, economic, educational, political, and familial; social change and deviant behavior.

Sc 200 Perspectives in Social Psychology 5 credits

Consideration of theories and methods in contemporary explanations of the behavior of individuals in social contexts and social situations. Prerequisites: Sc 101 and Psy 100 recommended. Exceptions with permission of Professor.

Sc 201 Social Statistics 5 credits

Basic principles and methods for compiling and interpreting data statistically: graphs, frequency distributions, central tendencies, measures of association. Analysis of variance, Chi square, regression correlations, meaning and application of non-parametric statistics.

Sc 256 Criminology 5 credits

Theoretical overview of the conceptualizations of the causes of criminal behavior; sociological analysis of criminal interactions, criminal systems and their functions.

Sc 257 Juvenile Delinquency 5 credits

Analysis of deviations and delinquencies of juveniles as distinct from those of adult offenders, and sociological explanations of these behaviors within contemporary conceptual models.

Sc 260 Sociology of Family 5 credits

Explanation of family as a social system with structure and functions; differential analysis of the family system as a group and as an institution; utilization of modern sociological frames of reference to interpret the position of the American family in an era of social change. Prerequisite: Upper division standing or permission of instructor.

Sc 262 Socialization 5 credits

Sociological analysis of the process by which one is inducted into his socio-cultural systems, and a review of the effectiveness of the process in American society. Prerequisite: Upper division standing or permission of instructor.



Sc 266 Interracial and Interethnic Relations 5 credits

Concept of race and ethnic group; analysis of the factors in interracial and interethnic tensions; examination of the programs advocated for reducing tension and producing solidarity. Prerequisite: Upper division standing or permission of instructor.

Sc 280 Urban Community 5 credits

Study of urban community structures and institutions; historic city types; the process of urbanization; world cities; aspects of American urban communities. Prerequisite: Upper division standing or permission of instructor.

Sc 291 Special Topics in Sociology 1-5 credits

Sc 292 Special Topics in Sociology 1-5 credits

Sc 293 Special Topics in Sociology 1-5 credits

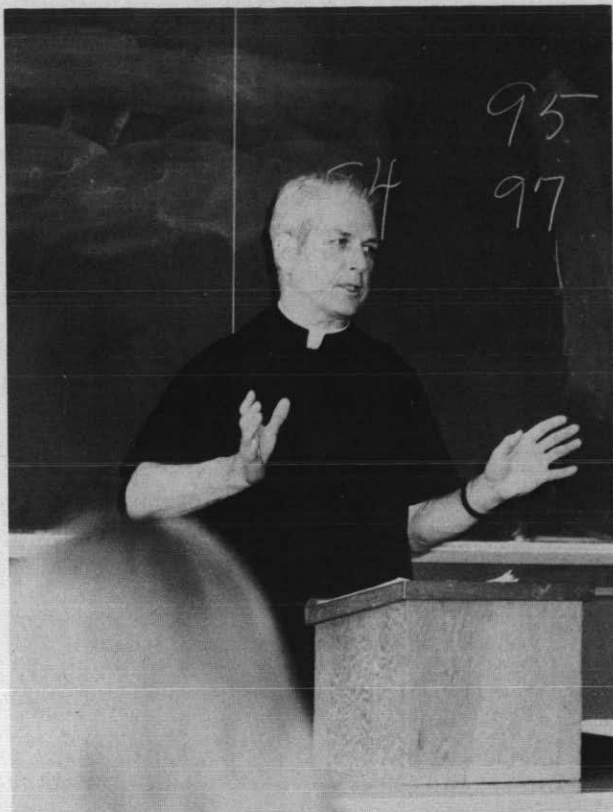
Sc 300 Introduction to Social Work 5 credits

(Cs 300) Historical development, structure and function of social welfare services and institutions with emphasis upon the philosophy and methods utilized by professional social work in meeting human needs. Prerequisite: Upper division standing or permission of instructor.

Sc 302 The Black People's Social Movement 5 credits

Theory of social movements applied to the black people's struggle for equality in America. Types of movements, stages of development, style of leadership in each. The aim is to understand the unfolding of a specific social movement and to test certain derivative hypotheses.

<p>Sc 340 Advanced Social Psychology 5 credits Analysis employing specific socio-psychological conceptual models; tests of propositions derived from these models; Prerequisite: Upper division standing or permission of instructor.</p>	<p>Sc 377 Supervised Field Experience 5 credits (Cs 377) Direct observation and academic study in a selected community agency with stress placed upon the agency's clientele, its services and its function in the community. Prerequisite: Sc 300 and 376.</p>
<p>Sc 350 Small Groups 5 credits Sociological models and methods for analyzing small, interpersonal systems of interaction, their dynamics and structures, as well as their potentials for change and growth.</p>	<p>Sc 380 Methods of Sociological Research I 5 credits</p>
<p>Sc 351 Police and the Community 5 credits (PSA 350) The role of police in the community; relationships with individuals, groups and community organizations. Analysis of ethnic, cultural and economic differences as factors in the administration of justice; causes of tension and conflict; positive and negative factors in the control of hostilities; community responsibility for the administration of justice.</p>	<p>Sc 381 Methods of Sociological Research II 5 credits I. Logical structure and general procedure of science, analysis of specific techniques of data gathering applied to sociology; observation, questionnaire, interview and case study; problems of measurement, including qualitative and quantitative techniques such as scaling; problem of data analysis, including test of hypotheses through statistical techniques. II. Application of methods learned in Sc 380 to the design and execution of a research project by the student. Prerequisites: Upper division standing or Sc 201 for 380; 380 for 381.</p>
<p>Sc 352 Society and Justice 5 credits (PSA 360) The criminal justice process from arrest through release; the relationship and respective responsibilities of the police, the prosecutor, the defense, the courts, the prisons and corrections, as each integrates into a system designed to reduce criminal behavior.</p>	<p>Sc 400 Sociology of Religion 5 credits Investigation of the religious institutions in society in terms of their structure, function and change. Prerequisite: Upper division standing or permission of instructor.</p>
<p>Sc 360 Complex Organizations 5 credits Sociological analysis of large, complex social organizations, the kinds of modern organizations and the relationships among organizations and to the larger social environment both historically and currently.</p>	<p>Sc 410 Social Stratification 5 credits Social differentiation with emphasis upon institutionalized aspects of power, privilege and prestige. Generalizations drawn from available studies of rank, social mobility and social classes. Prerequisite: Upper division standing or permission of instructor.</p>
<p>Sc 362 Deviant Behavior 5 credits (PSA 362) An overview of what American society generally regards as deviant behavior. Emphasis is placed on the results of stigmatization and the acceptance of low self-esteem.</p>	<p>Sc 412 Juvenile Justice Systems 3 credits (PSA 410) Examination and study of contemporary police-juvenile operations; police authority and responsibility. Theory and examination of the juvenile justice system. The development of police juvenile units. Relationship between the juvenile officer, crime prevention, and police-community relations.</p>
<p>Sc 363 Population 5 credits Analysis of population trends, problems and policies. Explanations of relationships demonstrated to exist between demographic and sociological variables. Prerequisite: Upper division standing.</p>	<p>Sc 415 Victimology 5 credits (PSA) A survey of the victim-offender relationship; including the origin and scope of victimology, a victim and his society, the victim and the administration of justice, and the social reaction to victimization.</p>
<p>Sc 365 Probation and Parole 5 credits (PSA 365) Examination of current trends in probation and parole supervision, personnel qualifications, legal aspects, and research on results and prediction of outcome.</p>	<p>Sc 420 Mass Communication 5 credits Consideration of message-formation and message-dissemination on the societal level with reference to social structures, social power and social change. Prerequisite: Upper division standing or permission of instructor.</p>
<p>Sc 366 Corrections 5 credits (PSA 366) Analysis of the various post-arrest treatment methods applied to offenders; examination of rehabilitative versus punishment theories; evaluation of psychiatric and psychological group treatment methods, reality therapy and other approaches to behavior modification; examination of the correctional institution and community-based corrections. Prerequisite: Upper division standing or permission of instructor.</p>	<p>Sc 430 Social Change 5 credits Critical review of attempts to explain transitions within a specific social system and large scale transitions from one societal form to another; discussion of concepts which may relate the two types of change in one general theory of social change. Prerequisite: Upper division standing or permission of instructor.</p>
<p>Sc 376 Factors of Interviewing 5 credits (CS 376) The interview as one of the major methods of helping people; study of the knowledge and skills needed for proficient interviewing to provide a basis for future development. Prerequisite: Sc 300 or permission.</p>	<p>Sc 457 Institute or Workshop 5 credits Special topics of current relevance in the nation or local community treated from a sociological perspective as a community service. Prerequisite: Upper division standing.</p>



Speech

Margaret A. Penne, M.A., Adviser

Objectives

The Speech program offers background and practice in the skills of oral delivery. It aims at uniting both speakers and auditors into a speech community which shares the highest contemporary standards of both written and oral expression. To accomplish this purpose effectively, the program provides in disciplined fashion opportunities for creative composition and vocal interpretation.

Program

Speech courses are a valuable adjunct to other degree programs in the general fields of the humanities and social sciences. Students interested in speech should include sequences of speech courses among their electives.

Speech Courses

Sph 100 Fundamentals in Speech 5 credits

Theory and practice of basic speech communication skills. Introduction to interpersonal communication, public communication and aesthetic communication.

Sph 200 Public Speaking 5 credits

Theory and practice in organizing and delivering a speech.

Sph 201 Interpersonal Speech Communication 5 credits

Theory and practice of skills in interpersonal situations. Emphasizes self-awareness, sensitivity to others, and a humanistic approach to communication.

Sph 202 Oral Interpretation 5 credits

Analysis and interpretation of literature. Practice in interpreting prose, poetry and drama.

Sph 204 Methods of Debate 5 credits

Introduction to debate; principles involved in rational and effective argumentation; practice in important forms of debate on the National debate topic.

Sph 291 Special Topics 1-5 credits

Sph 292 Special Topics 1-5 credits

Sph 293 Special Topics 1-5 credits

Prerequisite: Permission of instructor.

Sph 310 The American Speaker 5 credits

Study and criticism of American public speaking. Practice in contemporary methods of public speaking. Prerequisite: Sph 100 or Sph 200 or permission of instructor.

Sph 320 Speech for the Classroom Teacher 5 credits

Emphasis on the teacher as a communicator and leader in learning communication skills. Discussion, story telling, oral interpretation and drama.

Sph 491 Special Topics 2-5 credits

Prerequisite: Permission of instructor.

Sc 480 Sociology of Work 5 credits

Study of the industrial enterprise as a social system and the social and socio-psychological aspects of the individual's position in the industrial organization; relationship of these phenomena to a theory of work. Prerequisite: Upper division standing or permission of instructor.

Sc 491 Special Topics in Sociology 1-5 credits

Sc 492 Special Topics in Sociology 1-5 credits

Sc 493 Special Topics in Sociology 1-5 credits

Sc 494 History of Sociological Thought 5 credits

Historical survey and evaluation of selected leading figures in the rise and development of sociology as an independent discipline. Sociological thought from Comte through the social Darwinists and the analytical sociologists of Europe to major contemporary thinkers. Prerequisite: Upper division standing or permission of instructor.

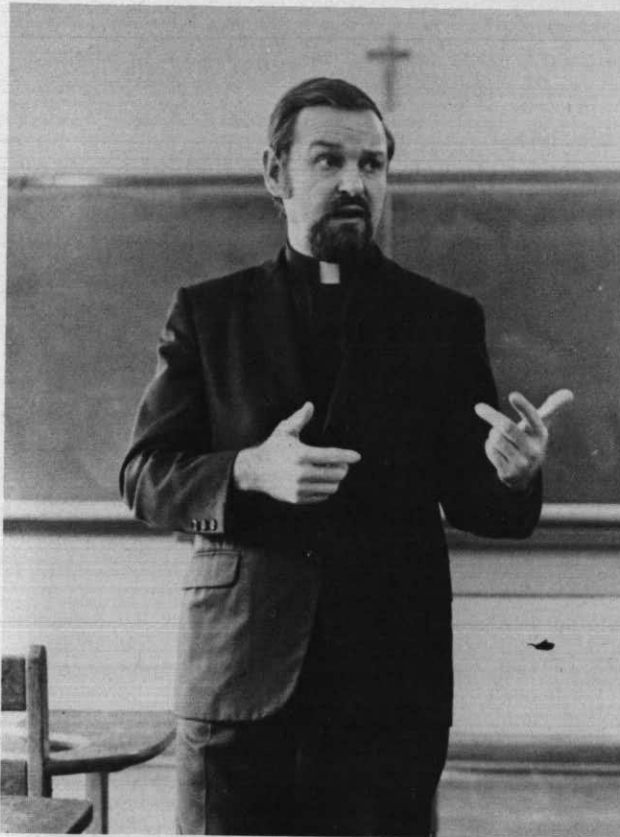
Sc 497 Individual Research 3-5 credits

Required of all sociology majors who are in the scientific program in preparation for graduate study in sociology. Each student must design and execute his own research project under the supervision of a member of the sociology staff.

Sc 498 Directed Reading in Sociology I 1-5 credits

Sc 499 Directed Reading in Sociology II 1-5 credits

Sociological reading at an advanced undergraduate level in a tutorial relationship with one professor. Prerequisite: Upper division standing.



Theology and Religious Studies

Roger Blanchette, S.J., M.A., Chairman

Professors:

William F. LeRoux, S.J.
Michael J. Taylor, S.J.

Associate Professors:

Francis J. Lindekugel, S.J.
Cornelius J. O'Leary, S.J.
Louis A. Sauvain, S.J.

Assistant Professors:

Roger E. Blanchette, S.J.
Robert J. Egan, S.J.
L. George Jeannot
L. John Topel, S.J.

Objectives

Theology and Religious Studies has the same fundamental purpose as the other disciplines in the University: intellectual training, the formation of a mature intellect. Within this general framework the department serves a two-fold purpose. It provides the theology and religious studies sequence of the core curriculum and it offers a program of courses leading to a Bachelor of Arts degree in theology and religious studies.

Degrees Offered

Bachelor of Arts
Master of Religious Education

General Program Requirements

Students in theology and religious studies must satisfy core curriculum requirements of the University as given on page 24 of this bulletin. In addition to the core curriculum, students in theology and religious studies must take an added five credits in social science and five credits in philosophy.

Departmental Requirements

Bachelor of Arts — 50 credits in theology and religious studies beyond the 10 credits required in the core. The student majoring in theology and religious studies is required to take the following courses: RS 200 and any two other Scripture courses; RS 320 and any two courses from among the following: RS 330, 335, 340, 344, 350, 420; RS 355, 357, 358 sequence; any three 400 numbered courses. The student who is majoring in theology and religious studies and who wishes to be recommended by the department for graduate studies in theology must demonstrate a reading proficiency in either Latin or Greek and in either French or German. Normally, this requirement will be met by three reading courses in these various languages.

Undergraduate minor — 30 credits in theology and religious studies which must include RS 200 and one other Scripture course; RS 320 and any other three 300 or 400 courses.

Bachelor of Arts

Freshman year

English 100 and core option	10 credits
History core option	10 credits
Philosophy 110, 220	10 credits
Social Science core options	10 credits
Theology and Religious Studies 200	5 credits

Sophomore year

Philosophy core option	5 credits
Social Science elective	5 credits
Theology and Religious Studies	15 credits
Electives	20 credits

Junior year

Mathematics/Science core options	10 credits
Philosophy elective	5 credits
Theology and Religious Studies 355, 357, 358	15 credits
Electives	15 credits

Senior year

Theology and religious studies electives	25 credits
Electives	20 credits

Total . . . 180 credits

Religious Studies Center

Religious Studies Center designates an agency established under the cooperative auspices of Seattle University and the Archdiocesan Office of Religious Education, committed to planning and providing programs in continuing religious formation for adults, professional and lay. Religious Studies Center courses are a continuing education service; credit for these courses are not applicable toward meeting the undergraduate elective, core, or other baccalaureate degree requirements. Courses offered through the Religious Studies Center are RS 201, 202, 203, 204, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 400, 401, 402, 404, 405, 406, 407, 408, 409, 410, 411, 412.

Master of Religious Education (SUMORE)

For Admission — a Bachelor of Arts degree or equivalent; 10 quarter credits or 6 semester credits of theology, or the equivalent in non-credit workshops or approved independent reading; grade point average of 3.00 for regular standing; no transfer credits accepted; no language requirements.

For Degree Conferral — 43 credits of course work completed over three eight-week summer sessions with adequate graduate achievement; all core subjects required; final written comprehensive examination; a 3 credit practicum research thesis. At the discretion of the director of the program and the Dean of the Graduate School, six quarter hours of graduate credits in areas related to religious education may be substituted for the practicum research thesis. A student permitted to make this substitution would complete 49 credit hours for the degree. These substituted credits may be earned only after attendance at the first two summer sessions. The substitution of these credits may be made from any college or university offering a graduate program in the areas related to religious education. Courses such as the communication workshops and communication seminars are non-credit, but are required core courses for all. Students must ordinarily live on campus; all degree work must be completed within six years of the initial summer.

Theology Courses

- RS 200** **Judaean-Christian Origins** **5 credits**
Survey of key books of the Bible and/or themes of the Scriptural tradition and its development. For students with a minimal previous background in biblical studies.
- RS 201*** **Old Testament: Meaning and Values for Today** **2 credits**
A study of the Old Testament, with a view to understanding its meaning and message for persons of faith in our time.
- RS 202*** **New Testament: Meaning and Values for Today** **2 credits**
A study of the New Testament, with a view to understanding its meaning and message for persons of faith in our time.
- RS 203*** **The Scriptures: Special Topics (Old Testament)** **2-3 credits**
- RS 204*** **The Scriptures: Special Topics (New Testament)** **2-3 credits**

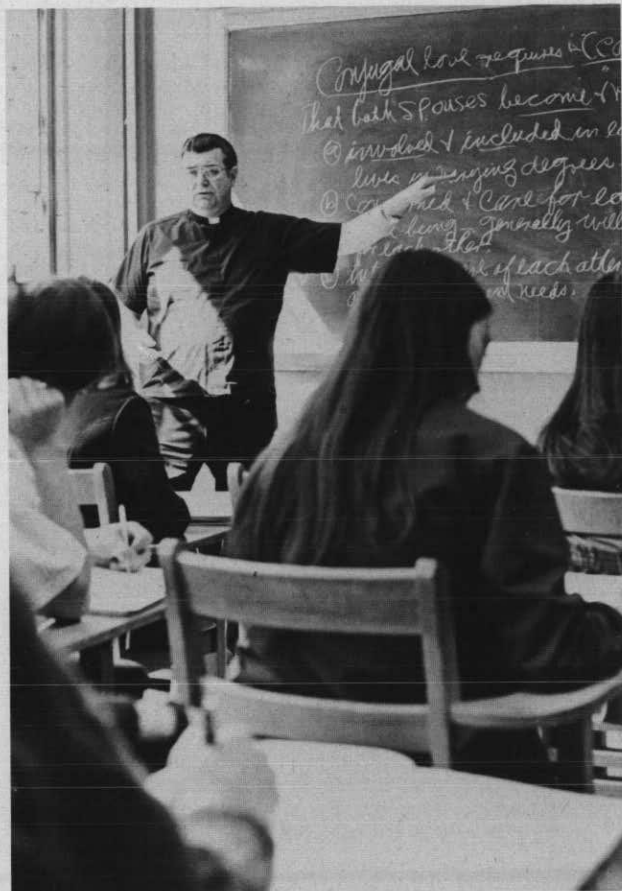
- RS 210** **Synoptic Gospels** **5 credits**
Investigation of the Gospels of Matthew, Mark and Luke.
- RS 215** **Johannine Theology** **5 credits**
Study of John's theological reflections on the Christ-event, given witness in his gospel, epistles and the Apocalypse.
- RS 220** **Pauline Theology** **5 credits**
Study of Paul's theological development analyzed in his epistles.
- RS 240** **Prophetic and Wisdom Literature of the Old Testament** **5 credits**
Study of prophecy in the Ancient Near East and its role in the development of Judaism. Rise of wisdom literature in the Ancient Near East, its expression in Judaism and its role in the Judaic community.
- RS 289** **Comparative Religion** **5 credits**
Investigation and contrast of the major world religions: Pantheism, Buddhism, Hinduism, Judaism, Christianity and Islam.
- RS 290** **Religious Experience East and West** **5 credits**
Anthropological, sociological and psychological perspectives on the phenomenon of religious experience in human history as these reveal the nature and meaning of this experience within human existence.
- RS 291** **Special Topics** **3-5 credits**
- RS 292** **Special Topics** **3-5 credits**
- RS 293** **Special Topics** **3-5 credits**
- RS 300*** **The Faith Experience of Modern Man** **2 credits**
The event of divine revelation in man's life, and the signs by which man comes to recognize God's presence in a secular world; man's personal response in faith to the manifestation of God in his life, as this can be understood through a study of the Scriptures, modern philosophy and reflection on human experience.
- RS 301*** **Theology of Person: Man and God in Contemporary Thought** **2 credits**
Study of contemporary man as interpreted by psychology, anthropology, philosophy, theology, and reflected in literature; contemporary concepts of God, as these arise out of man's personal experience and self-understanding.
- RS 302*** **Theology of Production: Divine Creation and Human Technology** **2 credits**
Man as creature in his multiple relationships of dependence on God and interdependence to his environment; how man exercises his human, creative power to overcome evil and improve his world; man's role and responsibility for technology and the future of society.

*Offered through the Archdiocesan Office of Religious Education and Seattle University; not open to regular students.

- RS 303* The Contemporary Jesus: Person or Movement?** 2 credits
The person of Jesus Christ in his historical, redemptive role as a basis for understanding Jesus Christ today; how Jesus relates to man today, both individually and within the community; the search for Jesus as a dimension of modern man's search for meaning.
- RS 304* Contemporary Morality: Freedom and the Christian Conscience** 2 credits
Basic principles of the Christian moral life framed in the context of lived morality today; Christian freedom as it informs the process of ethical decision-making and conscience formation.
- RS 305* Life and Death: Moral Issues and Alternatives** 2 credits
Study of the complex issues related to man's right to life; essential human values that are normative in addressing problems raised by medical technology today, e.g., euthanasia, genetic engineering, environmental control.
- RS 306* Social Justice: Moral Issues and Alternatives** 2 credits
Christian response to questions posed by conditions of society today; interrelationship between ethical perspectives and social structure as shown in the American experience.
- RS 307* The Church and Christian Mission** 2 credits
Socio-theological study of the Church, as sign and sacrament of Christ's saving presence among men; and as the historic community of faith exercising its priestly and prophetic nature through continuing dialog with all sectors of the society.
- RS 308* Sacraments and Religious Experience** 2 credits
The meaning and role of Christian sacraments in the religion of modern man; understanding how the sacraments in their psychological and social dimensions both create and express the Christian community while celebrating key moments in the religious experience of that community.
- RS 309* Prayer and Worship: Person and Community Before God** 2 credits
The spirit and function of prayer in Judaeo-Christian experience; the forms in which the prayer life of individuals and groups takes expression; and the qualities of prayer as it facilitates and enriches the growth toward Christian fulfillment.
- RS 320 Fundamental Themes in Theology** 5 credits
Speculative investigation into the reasonableness of revealed truths as accepted in Faith; the Incarnation, Redemption and their effects in man.
- RS 330 The Problem of God** 5 credits
The reality of God for contemporary man; what of reason's affirmation of God's existence and atheism; man's sense of God's presence and the growing feeling of God's absence, man's personal experience of God in the Bible and the theological reflection on who the God-who-is-with-us is?
- RS 335 Christ and Modern Man** 5 credits
Biblical foundation for the Christian affirmation of the human and divine in Jesus, and a further investigation and analysis of the Christian community's deepening understanding of this mystery — first as it related to the person of Jesus himself, then in its consequences for man and all human values.
- RS 340 Theology of Man** 5 credits
Study of the pre-biblical and biblical notions of man; the development of early Christian and scholastic theology of man as redeemed and graced; contemporary man as related to this background.
- RS 344 The Church as Community** 5 credits
Central biblical themes bearing on the nature and structure of the Christian Community; study of the further insights into, and expressions of the self-understanding of that Community in its dynamic, historical process of growth; the theological ferment concerning current issues such as authority and freedom, institutionalism and personalism, tradition and change.
- RS 347 Black Religious Experience** 5 credits
Black religion is a theology of freedom, of proclamation, of power of hope. Of course, each must be developed to show its convergence with religion in general, yet its divergence into Black Religion in particular. Black Religion, the Black Church, in its concrete existence is its own truth about God, and the observer who would chronicle this truth must start where the Church starts and end where the Church ends.
- RS 350 Perspective of Christian Hope** 5 credits
Christian perspective with respect to the future of man and the cosmos based upon the Christian's faith in the Resurrection and Glorification of Jesus Christ; a view of history that arises out of a Christian eschatology and a theology of hope that confronts modern secularism.
- RS 355 Early Christian Theology** 5 credits
Study of the development of Christian doctrine during the first five centuries of Christianity: theological, historical and literary analysis of the writings of St. Justin, Irenaeus, Tertullian, Origin, St. Athanasius, the Cappadocian Fathers, St. Augustine and St. Cyril of Alexandria. Prerequisite: RS 200.
- RS 357 Scholastic Theology** 5 credits
Seminar: the origin and main lines of scholastic theology, its spirit and aim formulated by St. Anselm, Abelard, St. Bernard, Alexander of Hales, St. Albert, St. Bonaventure, Duns Scotus, William of Occam, St. Thomas Aquinas. Prerequisite: RS 355.
- RS 358 Reformation Theology** 5 credits
The theological dispute of the Reformation on justification by faith alone; total depravity, irresistible grace, controversies among Catholics, Lutherans, Calvinists and Jansenists; the Enlightenment and Vatican Council I. Vatican Council II and some modern theologians in relationship to these theological disputes. Prerequisite: RS 357.

*Offered through the Archdiocesan Office of Religious Education and Seattle University; not open to regular students.

- RS 400* Theology of Liberation: Christian Hope** **2 credits**
Christian hope as the power of the future that assists man in understanding sources of social and political problems, and directs him in creating alternatives for liberating persons from forms of injustice.
- RS 401* Theology of Liberation: Faith and Secularity** **2 credits**
The phenomenon of secularization in our time; the historical factors that account for it, and present conditions that favor it: implications of secularization for Christian living, as the Christian message confronts the reality of the world today; how does secularization serve the ends of gospel liberation?
- RS 402* Theology of Liberation: Christian Praxis** **2 credits**
Theology as it not only interprets the world, but mobilizes men to change it; the responsibility of Christians to be agents of social change; and critique of some of the means through which humanizing social change is effected.
- RS 404* Catechetical Ministry I** **2 credits**
- RS 405* Catechetical Ministry II** **2 credits**
- RS 406* Catechetical Ministry III** **2 credits**
A three course sequence for the development and evaluation of a competency approach for the preparation of catechists. I. A rationale and theology for the ministry of catechist; historical and scriptural basis of catechetical ministry; qualities of the catechist. II. Competencies of the catechist; development of educational modules for skills and competencies needed in catechesis; facilitating faith experience, building of Christian community and personal identity. III. Testing and evaluating competency modules within the parish situation. Prerequisite: 404 for 405, 405 for 406.
- RS 407* Christianity and Culture** **2 credits**
Various views held by Christians toward the culture in which they live; observation of the American scene and the role of the Church both in encouraging notions of America as an especially chosen people and in challenging such assumptions. What the future role of the Church might be in preparing Americans to live more cooperatively on the "spaceship earth."
- RS 403* Religion and Technology** **2 credits**
The effects of technological society upon the environment, the production and consumption of goods and the human spirit, and of the resources within the Judaeo-Christian tradition which are relevant to the task of humanizing technology.
- RS 409* Environmental Ethics** **2 credits**
Ethical dimensions of the environmental crises, based on interdisciplinary sources of understanding; e.g., value assumptions of our own present society and the need to raise new value questions; and role of government in resolving the environmental crises.
- RS 410* Special Topics** **2-3 credits**
RS 411* Special Topics **2-3 credits**
RS 412* Special Topics **2-3 credits**



- RS 420 Christian Sacraments** **5 credits**
Dynamism of the sacraments of Christian life; the doctrinal, moral and liturgical aspects of the sacraments in the perspective of public worship and the Christian community.
- RS 433 Theology of Human Sexuality and of Marriage** **5 credits**
Meaning of the human love experience, its expression in human sexuality, the conditions within which this value is experienced; the relationship of human sexuality and marriage; marriage as the sign of the unity among men with God.
- RS 443 Vatican II and the Future** **5 credits**
Spirit and relevance of the Second Vatican Council as seen in the Council itself and the formation of its documents and its relationship to the present and the future in terms of the changing life of the Church.
- RS 450 Theology of Liberation** **5 credits**
Foundation will be given in those passages of Old and New Testament which describe Yahweh or Jesus as liberating men; a consideration of the medieval synthesis which placed this Christ as the end of all creation. This leads to a theology of hope in which Christ is viewed as the terminus of all cosmic and human evolutionary development. Liberation, finally, will be treated according to contemporary theologies of socio-economic and political liberation.

* Offered through the Archdiocesan Office of Religious Education and Seattle University; not open to regular students.

- RS 475 Contemporary Christian Morality** 5 credits
Dynamics of Christian living and the moral implications of the Christian commitment; formulation of the principles of a Christian ethic; contemporary approaches to decisionmaking in matters of morality; problems encountered by the Christian conscience in today's world including issues of life and death.
- RS 476 Social Theology** 5 credits
Evaluation of the growing socialization of human life and a study of major social issues in the 20th Century in the light of the Vatican II document "The Church in the Modern World" and the encyclicals "Peace on Earth" and "Development of Peoples" and of contemporary Protestant social statements.
- RS 477 Christian Response to Some Socio-Legal Problems** 5 credits
Traditional Christian reverence for life. Contemporary moral and legal problems such as eugenic engineering, artificial insemination, genetic surgery, compulsory sterilization and abortion. Recommended for students majoring in nursing, premedicine and prelaw.
- RS 478 Survey of Jewish History** 5 credits
Survey of Jewish history up to the contemporary period with special emphasis on the Second Commonwealth and Talmudic Period.
- RS 479 Survey of Jewish Theology** 5 credits
Study of monotheism versus paganism, sacrifice, reward and punishment, sabbath and holidays, dietary laws, morals and ethics, traced from the biblical period to the present.
- RS 481 Psalms and the Community of Israel** 5 credits
Analysis and dating of key Psalms according to literary types; influence of Israelite cultic life upon the composition of the psalms; Psalms as a reflection of the deepening religious life of the Old Testament.
- RS 485 Theological Horizons of Modern Literature** 5 credits
Study of selected literary works in terms of their theological implications and religious insights.
- RS 486 Catechesis: Vision and Tactics** 3-5 credits
Historical background and development of rationales and methodologies in religious education related to Vatican II; implication of Council statements on the "faith-formation" goal of catechesis and the consequent application of pedagogical insights from related social sciences to the formation of a knowledgeable faith.
- RS 487 Modern Protestant Theology** 5 credits
Theological position, history and trends of the major Protestant denominations; principal leaders of modern Protestant thought and their tenets; Bultman, Tillich, Niebuhr. Prerequisite: Approval of department chairman.
- RS 488 Methodology** 5 credits
Introduction to the history, methodology and sources of research in theology; the conditions for theological development; evaluating this development in terms of doctrinal evidence; and the continuing Christian response in its magisterial and credal functions.

- RS 490 Special Topics—Core** 3-5 credits
Under this number, from time to time, there will be provided various courses that are not otherwise available in the core curriculum. Ordinarily the prerequisite will be RS 200 or the approval of the department chairman.
- RS 491 Special Topics** 3-5 credits
RS 492 Special Topics 3-5 credits
RS 493 Special Topics 3-5 credits
RS 494 Special Topics 3-5 credits
- RS 496 Directed Readings in Theology** 2-5 credits
RS 497 Individual Research 2-5 credits
RS 498 Independent Study 2-5 credits

Graduate Courses

- RS 502 Religious Perspectives in Psychology** 2 credits
Transition and growth in faith from the religion of youth to the religion of maturity; understanding of faith in this process of growth; catechetical implications of religious instruction; natural liturgical response of men in their faith realized; problems associated with the learning, living and transmission of the Christian message.
- RS 505 Sacramental Theology** 3 credits
Explanation of membership in the worshipping community; use of the conceptual model of religious belonging and its application by Christianity past and present; deeper understanding of sacrament from historical perspective as well as the experience of living in a faith community entering into dialogue with God through the sacraments.
- RS 506 Communication Workshop: Interpersonal Communication Skills** 2 credits
Introducing the student to awareness of self and others, development of listening skills, examining barriers to effective interpersonal communication, constructive use of feedback and empathic responding.
- RS 507 Communication Workshop: Conflict Resolution** 2 credits
Applying interpersonal communication skills to conflicts within ourselves and between us and others, dealing with fear and ignorance, frustration and violence, alternatives to manipulation, perception as a source of conflict, awareness and personal responsibility, decision-making, building a power base and creative alternatives for conflict management.
- RS 508 Communication Workshop: Groups and Organizations** 2 credits
Clarifying expectations, dealing with conflict in constructive ways, understanding patterns of behavior in groups, reducing defensiveness, alternative ways of building satisfying living / working groups, achieving more effectiveness in helping relationships, developing an environment of trust.

RS 510 Theologies of the New Testament 3 credits
The nature of revelation, inspiration as human and divine process. The historical backgrounds of the community and its writers, the sacramental and catechetical situations which produced the literary genres of the early gospel tradition. Redaction criticism of the various gospels, Pauline Theology, formation of the New Testament canon.

RS 511 Modern Trends in Catechetics 2 credits
Catechetics will deal with the problem of faith communication and education, integrate the summer's course in the context of catechetics and develop modern trends in the difficult field of religious education. Required SUMORE core course.

RS 512 Introduction to Pastoral Ministry 2 credits
The meaning of ministry and of pastoral ministry, with further investigation into different styles of ministry now present in the Church, both in traditional ministries and in emerging new ministries.

RS 515 Liturgical Worship and Contemporary Prayer 2 credits
An introduction to the nature and historical forms of liturgy, present directives and contemporary theology of worship. The characteristics of good liturgy. Also some theology on the nature of prayer and particular aspects of traditional prayer which must meet the contemporary scene.

RS 520 Philosophy of Religion 3 credits
Religion in essence and manifestation in the religious subject and object and their reciprocal operation. The unique contribution of Chardinian concepts in the contemporary world.

RS 525 Religious Perspectives in Sociology 3 credits
Systematic inquiry into the complex structure and dynamic function of modern society with emphasis on the religious dimension of culture and its reciprocal relationships.

RS 530 Christ in the Gospel and Tradition 5 credits
The development of Christology in the primitive Church, culminating in the theologies of the Synoptics, John and Paul. The Church's growing understanding of these doctrines through controversy and conciliar definition. The development of dogma. Contemporary theologies of Jesus the Christ.

RS 532 Pauline Theology 3 credits
An advanced study of the development of Paul's thought as traced mainly in the great epistles. Certain Pauline themes and motifs will be selected for special study.

RS 535 The Church's Mission to the World 3 credits
The Gospel as leaven within and for the world. The Church's developing understanding of her role in the christianization of world process. Contemporary socio-economic problems of America and the world; poverty, underdevelopment, prejudice, alienation, revolution and counter-culture.

RS 540 Christian Self-Image 3 credits
Analysis of contemporary philosophical systems as the intellectual environment in which the Christian message is translated. Influence of philosophers from Kierkegaard through Marcel with consideration of linguistic analysts such as Van Buren.

RS 545 The Church as Historically Developing Community 3 credits
How the Church arose in the first century by divine-human processes. What the New Testament says is central to the Church and what is conditioned by the times. The development of the Church throughout history, especially as this is affected by diverse political systems, thought processes and economic conditions of the ambient world.

RS 550 Religious Perspectives in Anthropology 3 credits
Man as the creator of culture and the object of the culture create. Religion as a human phenomenon in different times and cultures and the implications of this for Catholicism. Anthropological analysis of the different cultures to which the religious educator directs the gospel message.

RS 555 Modern Moral Problems 3 credits
Exploration of the basic premises of law and authority in the moral dimensions of the Church; situation ethics and other moral concerns of man in the 20th Century; understanding the theological posture needed for personal and social morality.

RS 560 Sacraments: Their Existential Character 2 credits

RS 561 Adolescent Psychology 2 credits

RS 562 Theology of Hope 2 credits

RS 564 Theology of Change 2 credits

RS 565 Problem of God 2 credits

RS 568 Theory of Transactional Analysis 2 credits

RS 569 Seminar 2 credits

RS 570 Seminar 2 credits

RS 571 Seminar 2 credits

RS 572 Seminar 2 credits

RS 573 Seminar 2 credits

RS 574 Seminar 2 credits

RS 575 Seminar 2 credits

RS 576 Old Testament Seminar 2 credits

RS 577 New Testament Seminar: Gospels 2 credits

RS 578 New Testament Seminar: Epistles and other writings 2 credits

RS 579 Seminar 3 credits

RS 580 Practicum Research Thesis 3 credits

RS 590 Special Topics 1-6 credits

RS 591 Special Topics 1-6 credits

RS 592 Special Topics 1-6 credits

RS 596 Directed Readings in Religious Education 2-5 credits

RS 597 Independent Research 2-5 credits

RS 598 Independent Study 2-5 credits

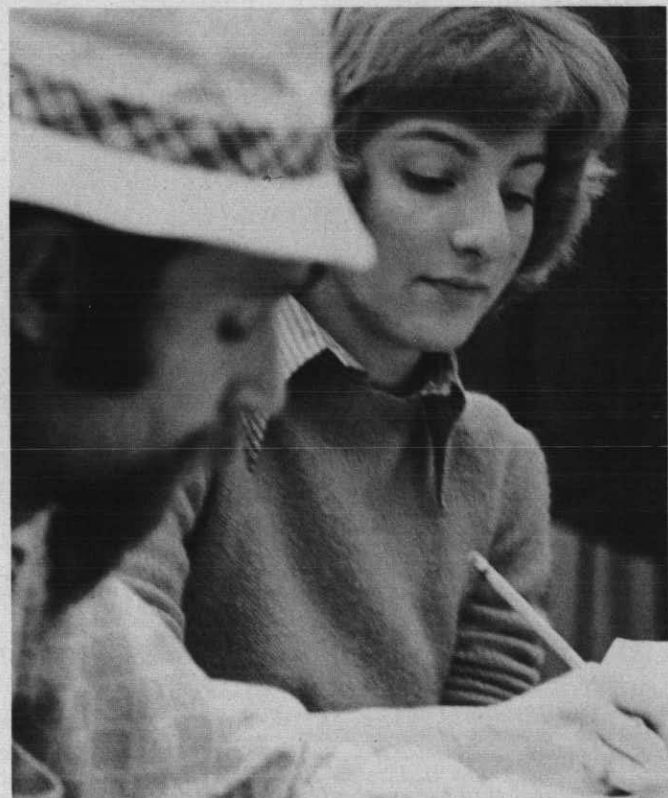
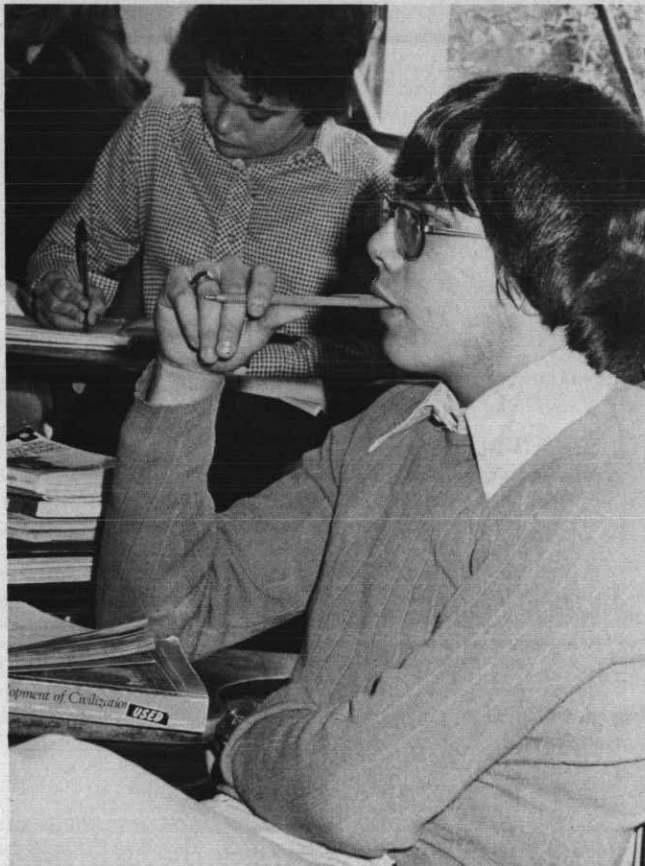
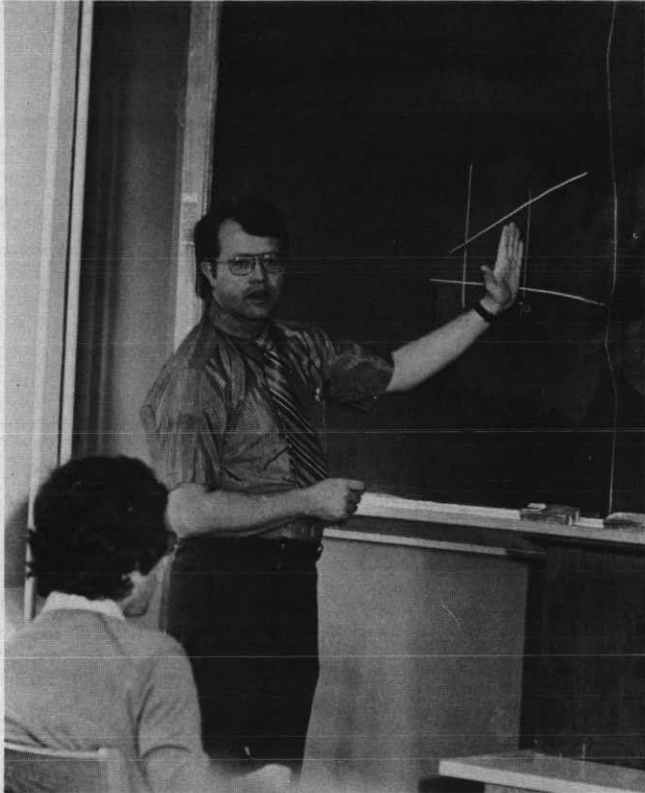


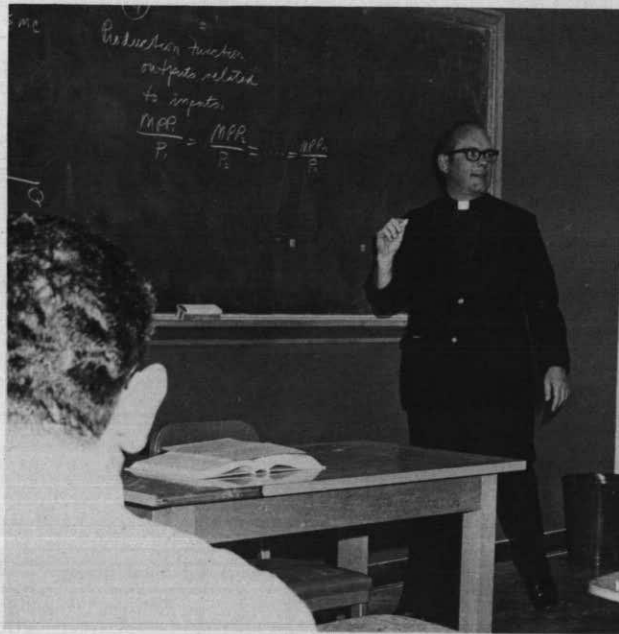
The Library was established on campus in 1931 in the Garrard Building; from 1931 to 1934, the Library and Bookstore were in joint quarters. During these years the library grew considerably and had to be relocated in the basement of the building. It remained in the Garrard Building until 1941 when it was moved to the third floor of the Liberal Arts Building. In November 1966, books and periodicals were moved to the new five-story A. A. Lemieux Library.

ALBERS SCHOOL OF BUSINESS

Gerald L. Cleveland, Ph.D., Dean

J. W. McLelland, M.A., Associate Dean





Albers School of Business

Professors:

Gerald L. Cleveland
Margaret Mary Davies
Khalil Dibee
Arthur C. Earl, S.J. (Emeritus)
John W. McLelland
Theodore J. Ross

Associate Professors:

Julian B. Andersen
Kenneth W. Cabbage
John D. Eshelman
Hildegard R. Hendrickson
Virginia L. Parks
Harriet B. Stephenson

Assistant Professors:

Frank Case, S.J.
C. Patrick Fleenor
John M. Harding
Keith W. McMaster
Darrell A. McNabb
Susan B. Ogden
Ronald A. Peterson
Jerry Standal
David E. Tinius
Barbara M. Yates

Instructor:

Donald B. Walter

Objectives

Collegiate education for business should prepare students for business careers, not simply for job-finding. A broad, liberal education, comparable to un-

iversity studies in other professional fields, will not replace practical business experience, but will provide a sound base for development of managerial talents.

The programs of the Albers School of Business implement the purpose of the University by providing professional guidance and instruction for developing those qualities which lead to competent leadership and service in the various fields of economic endeavor. The School seeks to prepare graduates capable of assuming responsible roles in the economic development of the Pacific Northwest, as well as national and international sectors, and in both private enterprise and government.

Accreditation of Bachelor of Arts in Business Administration

American Assembly of Collegiate Schools of Business.

Organization

The Albers School of Business has two principal divisions, undergraduate and graduate studies. Undergraduate majors are offered in five business fields: accounting, finance, general business, management and marketing. In addition, the School contains the Economics department which offers a bachelor's degree program and an undergraduate minor.

Admission Requirements

Admission to undergraduate programs is granted to applicants who have specified an interest in business or economics and who meet the University's entrance requirements described in the admissions section of this bulletin.

Students seeking entrance to graduate studies in business should communicate with the Director of the Master of Business Administration program.

Degrees Offered

Bachelor of Arts in Business Administration
Bachelor of Arts in Economics
Master of Business Administration (evening classes only)
Master of Science in Accounting (evening classes only)

Curriculum

The program of required study for the bachelor's degree in business has three principal components: the arts and sciences, the business core and an area of specialization. All students in the baccalaureate degree program fulfill requirements in English, mathematics, philosophy, a natural science, social sciences and theology and religious studies. The business core includes courses in accounting, administrative processes, economics, finance, information systems, legal environment, management, marketing and statistics. Specialization in one of the five major fields is required.

General Program Requirements

A minimum of 180 credits is required for bachelors' degrees in business or economics. See the degree requirements below for specific course requirements.

Degree Requirements

Bachelor of Arts in Business Administration — Students seeking this degree complete a program with the following components:

1. Requirements in arts and sciences75 credits
 English 100 and one of the following English courses: 132, 133, 134, 220, 230, 240 or 383; Mathematics 118, 130 and 214; Philosophy 110, 220 and a five-credit philosophy elective; social sciences, 10 credits (Psychology 100 and Sociology 101 recommended); ten credits in theology and religious studies selected from two different areas; five credits in natural science; and ten credits chosen with the direction of an adviser.
2. Business core requirements60 credits
 Business 170 or Economics 100; Business 211, 230, 231, 270, 310, 340, 350, 380, 482; Economics 271, 272.
3. Specialization in a major area of concentration20 credits
 Accounting, finance, general business, management or marketing.
4. Electives from any undergraduate offerings of the University25 credits

Total 180 credits

Graduate Programs

Master of Business Administration — The degree requires 45 graduate credits beyond the foundation in business and economics courses. A research paper must be completed in an area of concentration. The program is designed to accommodate those with baccalaureate degrees in business and other fields, including engineering, arts and sciences and education. Graduate school information appears in another section of this bulletin.

Master of Science in Accounting—The degree requires 45 graduate credits beyond the foundation in business and economics courses. A research paper must be completed in an area of specialization. The program is designed to prepare graduates for professional responsibilities in the following areas of specialization: financial accounting, managerial accounting and taxation. This program is designed to accommodate those with baccalaureate degrees in accounting, in other fields of business, and in other fields including Engineering, Arts and Sciences and Education. Graduate School information appears in another section of this bulletin.

Bachelor of Arts in Business Administration

Freshman year

- Business 170 or Economics 100 5 credits
- English 100 and 132 or 133 or 134 or 220 or 230 or 240 or 38310 credits
- Mathematics 118, 13010 credits
- Natural Science 5 credits
- Philosophy 110 5 credits
- Social Sciences (Psychology 100 and Sociology 101 recommended)10 credits

Sophomore year

- Business 211, 230, 231, 270.....20 credits
- Economics 271, 27210 credits
- Mathematics 214 5 credits
- Philosophy 220 5 credits
- Theology and religious studies 5 credits

Junior year

- Business 310, 340, 350, 380.....20 credits
- Business major (300-499).....10 credits
- Theology and religious studies 5 credits
- Electives other than business and economics10 credits

Senior year

- Business 482..... 5 credits
- Business major (300-499).....10 credits
- Philosophy 5 credits
- Electives25 credits

Total 180 credits

Accounting

Virginia L. Parks, Ph.D., C.P.A., Adviser

Objectives

The work of the accountant is firmly established as an indispensable service in the world of business. Professionally trained accountants serve in many areas of private business and government, such as cost determination, financial accounting, budgetary planning and auditing. By passing state examinations the accountant may pursue a career as a certified public accountant.

Minimum requirements for the accounting major are: Bus 330, 332, 333 and 431. Students who wish to prepare for the certified public accountant examination are advised to complete Bus 336, 370, 433, 435 and 436.

Finance

Khalil Dibee, Ph.D., Adviser

Objectives

The finance curriculum is designed to afford an understanding of the financial functions in business and the management of assets for financial institutions and individuals.

Requirements for the finance major are: Bus 341, 343, 441 and Ec 372. Ec 472 and 473 are strongly recommended.

General Business

Hildegard R. Hendrickson, Ph.D., Adviser

Objectives

The general business major provides the opportunity for a broad survey of business subjects. It is designed for students who intend to operate their own business enterprises, those who expect to attain greater specialization through on-the-job programs, or those who plan later to study in a specific area.

General business majors must complete at least 20 credits selected from: Bus 341, 343, 352, 370, 375, 381, 383; Ec 372, 374, 377, 471, 472, 473 and 476.

Management

Harriet B. Stephenson, Ph.D., Adviser

Objectives

The general area of management is concerned with the administration of private business or public enterprise. It includes relating the goals of an enterprise with the goals of those individuals and groups of individuals who make the enterprise a continuing process. The management major is designed for students seeking careers in administration, personnel or industrial relations in business or government.

Requirements for the management majors are: Bus 381, 383 and at least 10 credits from Bus 370, 375; Ec 372, 374, 377, 472, 473 and 476.

Marketing

Darrell A. McNabb, M.P.A., Adviser

Objectives

Marketing is the study of the flow of goods and services to ultimate consumers and users. Career opportunities in marketing are found in manufacturing, wholesaling and retailing, marketing research and in the promotional areas of advertising and personal selling.

The requirements for the marketing major are: Bus 352, 353, 451 and 452. Ec 374, 472 and 473 are strongly recommended.

Business Courses

Bus 170 Economic and Social Environment 5 credits
Survey of the significance and effect of economic and social environmental factors on the business sector; role and responsibilities of business in modern society; career opportunities in business; inter-relationships of major functional areas of business.

Bus 211 Business Statistics 5 credits
Basic statistics, probability concepts, probability distributions, expectation, sampling, estimation, hypothesis testing, index numbers and introduction to simple linear models. Prerequisite: Mt 130. (fall, winter, spring)

Bus 230 Principles of Accounting I (Financial) 5 credits
Introduction to financial accounting concepts with emphasis on the development of the student's ability to understand and interpret financial statements of business entities. (fall, winter, spring).

Bus 231 Principles of Accounting II (Managerial) 5 credits
Introduction to the use of accounting information for planning, control, and decision making in business organizations. Prerequisite: Bus 230 (fall, winter, spring)

Bus 270 Law & Business 5 credits
Nature and development of law; structure and functions of the courts; civil and criminal procedure; role of attorneys and an introduction to the law of contracts.

Bus 291 Special Topics 1-5 credits

Bus 292 Special Topics 1-5 credits

Bus 293 Special Topics 1-5 credits

Bus 310 Computer-Based Management Information Systems 5 credits
Data processing applications for business. Introduction to information systems. Planning, designing and implementing commercial systems. Development of computer-based management information systems and consideration of associated problems. Prerequisite: Mt 214.

Bus 330 Cost Accounting 5 credits
Determination of manufacturing costs in job order, process and standard cost systems; introduction to methods of cost control. Prerequisite: Bus 231.

Bus 332 Intermediate Accounting I 5 credits
Examination of the theory and development of generally accepted accounting principles; evolution of theory as relates to the current state of accounting for the assets of the entity and the measurement and reporting of periodic income. Prerequisite: Bus 231. (fall, spring)

Bus 333 Intermediate Accounting II 5 credits
Examination of the theory and development of generally accepted accounting principles; evolution of theory as relates to the current state of accounting for liabilities and owners' equities. Prerequisite: Bus 332. (winter, summer)

Bus 336 Federal Income Tax I 5 credits
Tax returns of individuals; gross income and deductions; use of a tax service and research in tax problems. Prerequisite: Bus 332.

Bus 340 Business Finance 5 credits
Study of the financial policies and practices of business firms; planning, control and acquisition of short-term and long-term funds; management of assets; evaluation of alternative uses of funds; capital structure of the firm; cost of capital; financing growth and expansion of business firms. Prerequisites: Ec 271, Bus 231. (fall, winter, spring)

Bus 341 Investment and Security Analysis 5 credits
Principles, policies and practices of investing. Analysis of public and private industries and securities, individual and institutional viewpoints. Prerequisite: Bus 340.

Bus 343 Financial Institutions and Markets 5 credits
Nature and function of bank and non-bank financial institutions and markets and their relationships and interdependence. Prerequisites: Ec 271, Bus 231.

Bus 350 Introduction to Marketing 5 credits
Survey of institutions and essential functions in the marketing system. Analysis of the marketing mix; product, place, promotion and price strategies. Prerequisites: Junior standing, permission. (fall, winter, spring)

Bus 352 Marketing Communication 5 credits
Business firms' methods of communications to their markets and publics. Analysis of the promotional mix; personal selling, advertising, sales promotion and publicity. Promotion strategies. Prerequisite: Bus 350.

Bus 353 Price Practices and Policies 5 credits
Methods of price determination and administration of price policies by manufacturers, wholesalers and retailers. Legal aspects of pricing under anti-trust laws. Prerequisites: Bus 211, 350.

Bus 370 Advanced Law and Business 5 credits
Commercial law, including contracts, business structures and property relationships; legal aspects of government and business, including credit and environmental legislation. Prerequisite: Bus 270.

Bus 375 Economics of Profit Sharing 5 credits
Survey of the philosophy, economics and law in the field of profit sharing; analysis of profit sharing plans in use by industry today. Prerequisites: Bus 231, Ec 271.

Bus 380 Management Practices 5 credits
Survey of quantitative and behavioral concepts of management; case studies relating the concepts of management practices. Prerequisite: Bus 231. (fall, winter, spring)

Bus 381 Organization Theory 5 credits
Study of administrative setting and roles of supervisory personnel as determinates of the scope and techniques of management functions; involves interpersonal relations, communication, leadership, organization structure, individual behavior and motivation. Prerequisite: Bus 380.

Bus 383 Personnel Management 5 credits
Management of human resources to achieve the goals of the firm and its personnel in times of change in technology and personal preferences. Prerequisite: Bus 380.

Bus 431 Advanced Accounting I 5 credits
Special accounting problems associated with partnerships and business combinations. Particular emphasis on consolidated financial statements and price-level adjusted financial statements. Prerequisite: Bus 333.

Bus 433 Seminar in Accounting Theory 5 credits
Critical examination of accounting theories; concepts, postulates and principles related to income measurement, assets, liabilities and equities. Prerequisite: Bus 333.

Bus 435 Auditing 5 credits
Introduction to the purpose, scope, concepts and methods used in examining and attesting to financial statements, with emphasis upon generally accepted auditing standards and accounting principles. Consideration given to current issues concerning professionalism, and the developing role of the public accountant. Prerequisite: Bus 333.

Bus 436 Federal Income Tax II 3 credits
Tax returns of partnerships and corporations; problems related to installment sales, cash basis and accrual basis. Prerequisite: Bus 336.

Bus 441 Case Problems in Finance 5 credits
Variables relevant to financial problems; skill, techniques and judgment necessary to make financial decisions. Prerequisite: Bus 340.

Bus 451 Marketing Research 5 credits
Purpose, methods and techniques of marketing research. Prerequisites: Bus 211, 352, 353.

Bus 452 Marketing Management 5 credits
Case studies of corporate problems and decision-making within marketing departments. Student participation in various roles of marketing, executive action involving organization planning, execution and control of marketing programs. Prerequisites: Bus 231 and 451. Seniors only.

Bus 482 Business Policy and Organization 5 credits
Case studies of formation of policy and administration of business enterprise; intellectual discipline which permits the understanding of a problem, the planning of a program of action and the progression to execution and constant review; original work in analysis and policy decisions. Prerequisite: Senior standing. (fall, winter, spring)

Bus 491 Special Topics 2-5 credits

Bus 499 Independent Study 1-5 credits
Supervised individual research. Open to senior business majors with the approval of the student's adviser.

Graduate Courses

Bus 501 Descriptive and Analytical Statistics 3 credits
Basic statistics, probability concepts, probability distributions, expectations, sampling, estimation, hypothesis testing, index numbers, introduction to simple linear models.

Bus 502 Financial Accounting 3 credits
Concepts and principles underlying accounting with special attention to income determination and measurement of assets and equities. Analysis of business performance from accounting viewpoints.

Bus 503 Corporate Financial Theory 3 credits
Theory and practice of business finance with emphasis on asset management, capital structure, cost of capital and capital budgeting. Prerequisite: Bus 502.

Bus 504 Marketing Principles 3 credits
Introduction to marketing and its functions. Examination of contemporary problems and issues in marketing of goods and services.

Bus 505 Legal Environment 3 credits
Examination of objectives of American legal system, its structure and procedures, as well as the dynamics of courts and regulatory commissions. Relationship of law to social change and preservation of society's values; limits of the law's ability to produce change. Illustrations of above principles from criminal and family law, contracts and property law.

Bus 506 Macroeconomics 3 credits
Determinants of the aggregate level of income, employment and prices. Stabilization problems and policies.

Bus 507 Administrative Practices 3 credits
Analysis of traditional processes of management: planning, organizing, directing, coordinating and controlling. Emphasis on analytical skills needed by the manager and the integration of individuals within organizations.

- Bus 509 Introduction to Information Systems 3 credits**
Planning, designing and implementing commercial systems. Use of programming concepts for problem solving. Development of computer-based management information systems and associated problems.
- Bus 510 Survey of Quantitative Methods 3 credits**
Survey of statistical techniques used in business decision making. Sampling, time series analysis, analysis of variance, linear programming, inventory models, quality control and other selected topics. For students not intending to pursue the quantitative area. Prerequisite: Bus 501.
- Bus 511 Advanced Statistical Analysis 3 credits**
Probability distributions, sampling, analysis of variance, multiple correlation and regression, time series analysis, non-parametric statistics and introduction to linear programming. Prerequisite: Bus 501.
- Bus 512 Operations Research 3 credits**
Philosophy and methodology of operations research, linear programming, inventory models, simulation, queuing theory, game theory and introduction to dynamic programming. Prerequisite: Bus 511.
- Bus 513 Operations Analysis 3 credits**
Applications of operations research and statistical techniques to solutions of business problems in finance, marketing, logistics, production, computer systems and management decision making; opportunity for field research problems. Prerequisite: Bus 511.
- Bus 519 Research in Quantitative Methods 3 credits**
Prerequisite: Permission of adviser.
- Bus 520 Federal Tax Procedure 3 credits**
Analysis of federal tax procedure at the administrative level and in litigation. Consideration of treasury regulations, administration regulations, assessments, compromise agreements, and referred claims; pretrial, trial and appellate processes; tax collection, penalties, and prosecution of the taxpayer.
- Bus 521 Federal Income Taxation of Individual 3 credits**
Analysis of federal income tax laws as they pertain to the individual taxpayer with emphasis on tax planning techniques.
- Bus 522 Federal Income Taxation of Corporations 3 credits**
Analysis of federal income tax laws as they pertain to the corporate taxpayer and shareholders with emphasis on tax planning techniques.
- Bus 523 Taxation of Capital Assets 3 credits**
Analysis of federal income taxation of capital assets, utilizing statutes, selected materials and cases to examine special code provisions pertaining to capital assets treatment.
- Bus 524 Tax Research and Decision Making 3 credits**
Examination of materials and methods of tax research for use in tax planning and policy making.
- Bus 527 Intermediate Accounting I 3 credits**
Examination in depth of the theory and development of generally accepted accounting principles; evolution of theory as it relates to the current state of accounting for the assets of the entity and the measurement and reporting of periodic income.
- Bus 528 Intermediate Accounting II 3 credits**
Examination in depth of the theory and development of generally accepted accounting principles; evolution of theory as it relates to the current state of accounting for liabilities and owners' equities.
- Bus 530 Managerial Accounting 3 credits**
Concepts of managerial accounting; attention-directing and problem-solving functions of accounting in current planning and control; evaluation of performance; special decisions and long-range planning. Emphasis on cost analysis rather than on cost record keeping. Prerequisite: Bus 502.
- Bus 531 Management Control Systems 3 credits**
A study of the nature, structure and processes of management control systems, considering such issues as organization structure, organization objectives, key economic variables, and performance analysis in both profit and not-for-profit organizations. Text, cases, readings and guest practitioners are used to explore the key issues. Prerequisite: Bus 530.
- Bus 532 Advanced Cost Accounting 3 credits**
A study of selected accounting topics, such as methods of cost estimation, cost for decision models, variance analysis, cost allocations, product costing, direct costing, transfer pricing, product pricing, and the behavioral aspects of budgeting and planning, decision making and control. Coverage of conventional practices and exploration of proposals for change. Lectures, problem solving, and discussion. Prerequisite: Bus 530.
- Bus 533 Contemporary Accounting and its Environment 3 credits**
Examination of the role of accounting in society; essentials of accounting measurement; formulation of accounting concepts, interaction of accounting with other disciplines with which it has the greatest interplay—economics, law, mathematics, information systems, communication theory and behavioral sciences. Prerequisite: Bus 502.
- Bus 534 Seminar in Accounting 3 credits**
Current topics in accounting with emphasis on areas of interest to seminar participants. Examples of such topics are development of accounting principles, audit responsibility, international accounting, governmental accounting, information systems, human resource accounting, and the regulatory agencies impacting upon accounting information. Prerequisite: Bus 502, and the permission of instructor. Prerequisite for Bus 539.
- Bus 535 Advanced Auditing 3 credits**
Examination of the changing business environment of the auditor and the impact of these changes on auditing philosophy, objectives and methodology.
- Bus 537 Special Topics 3 credits**
- Bus 538 Special Topics 3 credits**
Advanced courses in taxation, managerial accounting, financial accounting and auditing. These courses will be listed in the quarterly class schedule as offered.

Bus 539 Research in Accounting 3 credits
Prerequisite: Bus 534 and permission of instructor.

Bus 540 Managerial Finance 3 credits
Case in business finance that develop students, skill for identifying problems, acquiring relevant factual material and using appropriate financial theory for making decisions in simulated business settings. Prerequisite: Bus 503.

Bus 542 Investments 3 credits
Principles and practices of investments, security analysis and valuation, portfolio management and elements of the investment process. Prerequisite: Bus 540.

Bus 543 Advanced Financial Theory 3 credits
Examination of advanced current topics and issues in financial theory using a seminar approach. The course involves readings, discussions and short papers on selected topics. Prerequisite: Bus 540.

Bus 544 Money and Capital Markets 3 credits
Structure of US money and capital markets, the impact of monetary and fiscal policies on the funds flows and interest rates in these markets and the policies of financial institutions participating in these markets. Prerequisite: Bus 506.

Bus 549 Research in Finance 3 credits
Prerequisite: Permission of adviser.

Bus 550 Marketing Policy 3 credits
Managerial approach to the study of various policy areas in marketing through the use of case studies. Prerequisite: Bus 504.

Bus 552 Marketing Research 3 credits
Purpose, methods and techniques of marketing research and description of marketing information systems. Prerequisite: Bus 550.

Bus 554 International Marketing 3 credits
Growing importance of international marketing; differences in economic, cultural and political factors between countries, feasibility of using American techniques in performing marketing functions abroad. Prerequisite: Bus 550.

Bus 555 Management of Marketing Communication 3 credits
Role of promotion in marketing: functions of personal selling, advertising, sales promotion and publicity and their coordination into an effective promotional mix, evaluation and control of promotion. Prerequisite: Bus 550.

Bus 559 Research in Marketing 3 credits
Prerequisite: Permission of adviser

Bus 570 Managerial Economics 3 credits
Theory of the consumer, the firm, and the industry, with emphasis on applications to business decision making. Prerequisite: Bus 506.

Bus 574 Advanced Managerial Economics 3 credits
Application of economic theory and methodology to business administration practice, using tools and techniques of economic analysis to solve business problems. Prerequisite: Bus 570.



Bus 575 International Trade and Development 3 credits
Economic fundamentals of international trade including the working of the foreign exchange market. National policies and international institutions. Foreign branches and subsidiaries. Multinational corporations. Centrally planned economies. Developing nations. Prerequisite: Bus 506.

Bus 576 International Finance and Investment 3 credits
Balance of payments. International investment. Exchange controls. Liquidity and adjustment problems. I.M.F. and possible developments. American payment problems. Special drawing rights. Proposals for international payments systems. Eurodollar market. Prerequisite: Bus 506; 575 recommended.

Bus 578 Legislative Regulation of the Modern Corporation 3 credits
Influence of modern legislation, regulations, and court decisions, with special emphasis on labor law and labor relations. Additional illustrative material from anti-trust and consumer regulation.

Bus 579 Research in the Environmental Area 3 credits
Prerequisite: Permission of adviser.

Bus 580 Organizational Structure and Behavior 3 credits
Conceptual understanding of organization structure and functioning. Provides examination of various forces operating in an organization. Examines research studies from various disciplines to understand the organizational functional and dysfunctional aspects. Explores introduction of change. Prerequisite: Bus 507.

- Bus 581 Administrative Social Communication 3 credits**
 Analysis of socio-psychological theory and research, decision making, group structure, dynamics and leadership and how these influence social communication in small groups and the formal organization. Emphasis is on the understanding of theory and the practice of communication skills in class. Prerequisite: Bus 580.
- Bus 582 Decision Theory 3 credits**
 Study, analysis and discussion of the total decision making process. Particular emphasis is accorded the interdisciplinary aspect of decision making and the concept of rational decisions. Prerequisite: Bus 510, 580.
- Bus 583 Management Philosophy 3 credits**
 Review, analysis and discussion of managerial values, ideology, motivation and objectives. The power of managers and their social responsibilities are examined through the evolution of management thought and the theories of technological "determinism". Prerequisite: Bus 580.
- Bus 584 Comparative Administration 3 credits**
 Examination of differences which exist in managing various types of organizations and institutions. Analysis of different managerial approaches to public issues affecting business. Prerequisite: Bus 580.
- Bus 585 Management of Change 3 credits**
 Analysis of the process of social change in American society, its impact on the public and organizations, especially the corporation. Problems of technology and culture, ecological awareness, poverty, consumer law, new life styles and new attitudes toward work. Prerequisite: Bus 580
- Bus 586 Small Business Management 3 credits**
 Procedures and problems in starting and operating a successful small business enterprise. Prerequisite: Bus 530, 540, 550, 580.
- Bus 589 Research in the Behavioral Area 3 credits**
 Prerequisite: Permission of adviser.
- Bus 590 Special Topics 1-3 credits**
 Prerequisite: Permission of adviser.
- Bus 595 Policy and Processes 3 credits**
 Analysis of policy problems faced by chief administrative officers of business firms. Determination of objectives; development of policies to achieve objectives; organization of executive personnel to implement policies; coordination of the organization; and adjustments to changes in environment. Case study seminars with simulation (business gaming). This course integrates and builds upon the work of the Core. Should be scheduled toward the end of the student's course work. Prerequisites: Nine of Management Core (9 courses beyond Foundation), which is to include: Bus 530, 540, 550, 570, and 580 and at least one course from the 4 Areas of Concentration, (Quantitative, Functional, Environmental, Behavioral).
- Bus 599 Research 1-3 credits**
 Prerequisite: Permission of adviser.

Economics

John D. Eshelman, Ph.D., Adviser

Objectives

The courses in economics are designed to acquaint the student with the economy in which he lives and to provide for the application of these courses to all other social sciences. The tools of analysis necessary to solve such problems as income distribution, domestic and international finance, economic fluctuations and business organizations are acquired and opportunity is given to apply the various methods of solution. Students who prove especially able in economics courses are encouraged to pursue graduate work in preparation for professional status as economists in government, industry or the academic world.

Degree Offered

Bachelor of Arts in Economics

General Program Requirements

Students in economics must satisfy the core curriculum of the University on page 24 of this bulletin. In fulfilling the core, Pls 160, Mt 118 and 130 are required. In addition, students who do not elect Ec 273 as part of their major program must substitute Hs 231 for one of the history core courses.

Departmental Requirements

Bachelor of Arts — 55 credits of economics which must include Ec 271, 272, 372, 374, 479 and six additional economics courses not including EC 100 (Bus 343 may be substituted for one); Bus 211 and 230.

Undergraduate Minor — 30 credits of economics which must include: Ec 271, 272, 372, 374 and any two courses in economics selected with the assistance of an adviser.

Bachelor of Arts in Economics

Freshman year

English 100 and core option	10 credits
History 231 and core option	10 credits
Mathematics 118, 130	10 credits
Philosophy 110	5 credits
Political Science 160	5 credits
Elective	5 credits

Sophomore year

Business 211, 230	10 credits
Economics 271, 272	10 credits
Philosophy 220	5 credits
Social Science core option	5 credits
Electives	15 credits

Junior year

Economics 372, 374 and electives	20 credits
Philosophy core option	5 credits
Theology core options	10 credits
Electives	10 credits

Senior year

Economics 479 and electives	25 credits
Electives	20 credits

Total . . . 180 credits

Economics Courses

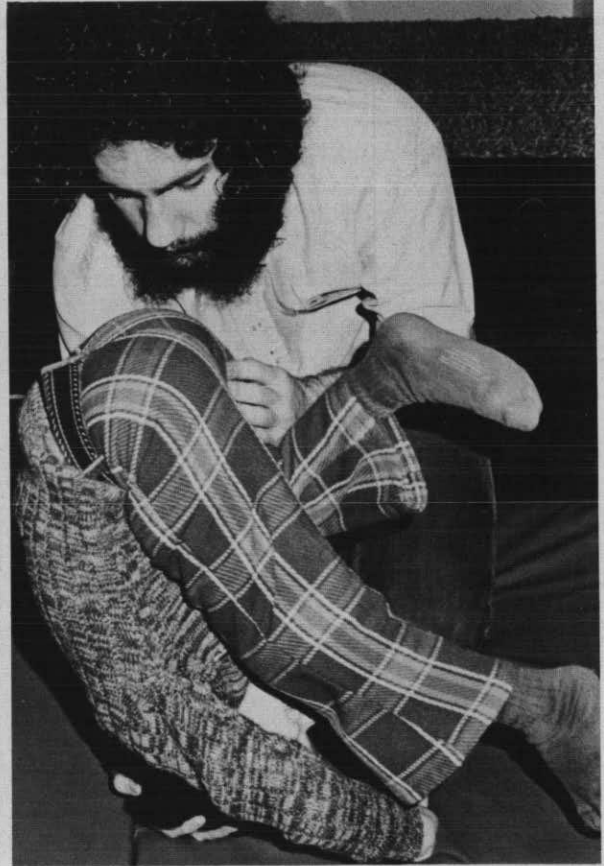
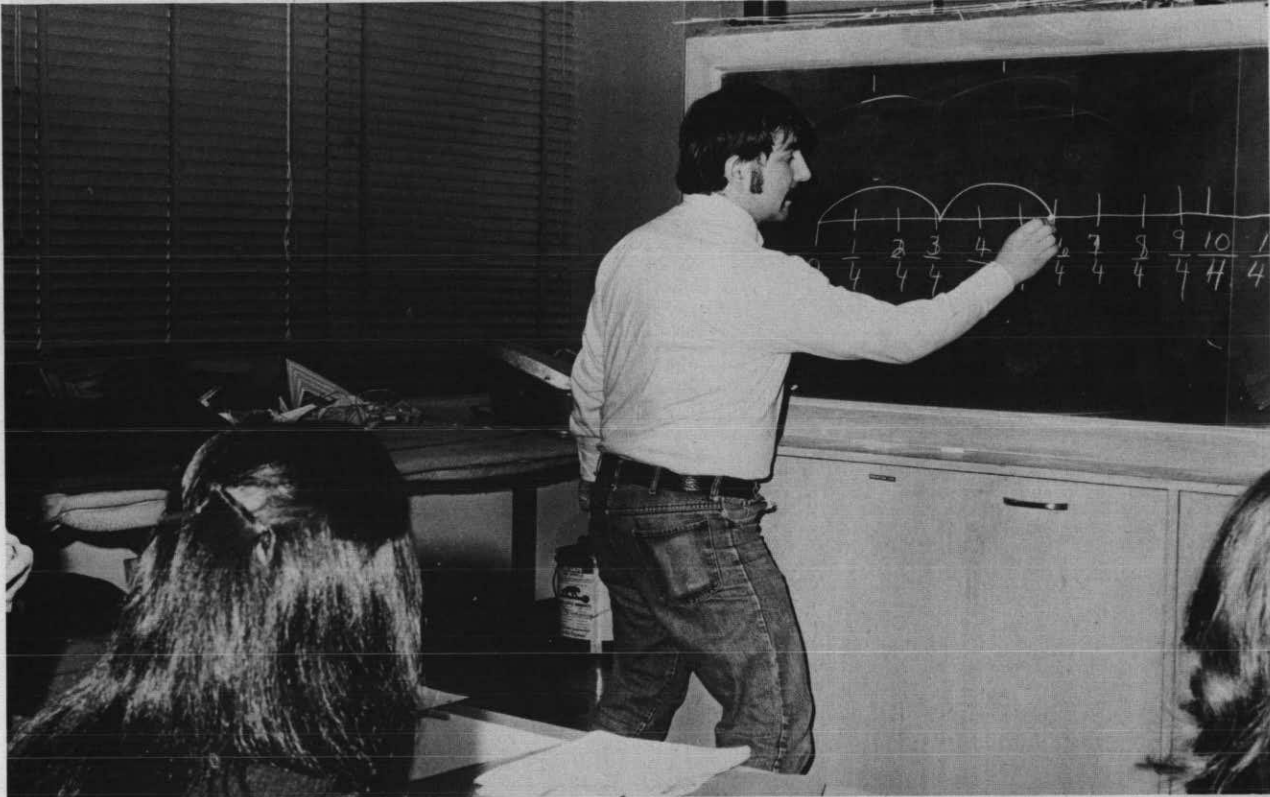
- Ec 100 Nature of Economic Society 5 credits**
Evolution of economic institutions, with emphasis on market capitalism, its critics and problems, past and present. Changing roles and responsibilities of government and the private sector.
- Ec 271 Principles of Economics - Macro 5 credits**
Organization, operation and control of the American economy in its historical and socio-political settings; problems of inflation, unemployment, taxation, the public debt, money and banking, growth.
- Ec 272 Principles of Economics - Micro 5 credits**
Operation of the American economy with emphasis on prices, wages, production and distribution of income and wealth; problems of the world economy.
- Ec 273 American Economic History 5 credits**
Economic growth of the United States in the light of the political and social trends of the times. Stresses the historical background of contemporary problems.
- Ec 275 Economics of Poverty 5 credits**
Examination of poverty in the United States with particular emphasis on urban poverty. The roles of technology, region, race, sex and educational level on the incidence of poverty are studied. Also analyzed is the extent of success of various programs, public and private, in the areas of housing, welfare payments and occupational training, as well as the problems of the enactment of legislation related to poverty. Open to majors and non-majors. No prerequisites.
- Ec 291 Special Topics 1-5 credits**
Ec 292 Special Topics 1-5 credits
Ec 293 Special Topics 1-5 credits
- Ec 371 History of Economic Thought 5 credits**
Major historical developments in economic thought from ancient to contemporary times. Christian influence on economic thought; mercantilism and laissez faire; German and Austrian schools, Marx and the various socialists; Keynes and neo-Keynesian analysis.
- Ec 372 National Income Analysis 5 credits**
Determination of levels of national income, employment and prices. Problems of unemployment and inflation. Policies for stabilization and growth. Prerequisite: Ec 271.
- Ec 374 Intermediate Price Theory 5 credits**
Demand, supply, costs and market prices under competitive and imperfectly competitive market conditions. Relationships between price and costs; income and its functional distributions in a capitalistic society. Prerequisite: Ec 272.
- Ec 377 Government and Business 5 credits**
Development in the United States of public policy with respect to business. Government regulation and control of industry and commerce and its application to mergers, business concentration and restrictive business practices, regulation of public utilities. Prerequisite: Ec 272.
- Ec 378 Urban Economics 5 credits**
The causes and consequences of the interdependencies of firms, individuals, households and governmental units within the constrained space of urban areas. Problems of land, housing, transportation, labor and public services.

- Ec 379 Environmental Economics 5 credits**
Economic analysis of man's effect on his physical environment; problems of pollution, maintenance of the ecological balance and conservation of natural resources. Prerequisite: Ec 272.
- Ec 471 Government Finance 5 credits**
Revenues, expenditures and debts of federal, state and local governments; economic theories; constitutional limitations; government finance as means for social reform; shifting and incidence of taxes. Prerequisites: Ec 271, 272.
- Ec 472 International Trade and Development 5 credits**
Fundamentals of international trade. Balance of payments and the foreign exchange market. Commercial policies and international institutions. European Common Market. Multinational corporations. Centrally planned economies. Developing countries. Possible limits to growth. Prerequisite: Ec 271.
- Ec 473 International Finance and Investment 5 credits**
Balance of payments. International investment. Exchange controls and payments policies. I.M.F., Special Drawing Rights, the reform of the international monetary system and the position of gold. Eurodollar market. Oil prices. Financial problems of multinational corporations. Prerequisite Ec 271. Ec 472 recommended.
- Ec 476 Labor Economics 5 credits**
Survey of the economics of industrial relations; effects of industrial changes on labor; hours and wages; employment and unemployment; trade unionism and labor legislation. Prerequisite: Ec 272.
- Ec 477 Economic Development 5 credits**
Requirements for economic growth; growth theory; application to the development of industrial nations; employment prospects and the effect of automation; development of agricultural economies; planning for growth and industrialization; rich nations and poor nations; growth of authoritarian socialist societies. Prerequisite: Ec 271.
- Ec 478 Comparative Economic Systems 5 credits**
Types of economic systems — capitalist, democratic socialist, totalitarian socialist, fascist, mixed types. Common factors and problems. Differences in structure and operation. Comparative performance. Marxian philosophy and economics. Prerequisites: Ec 271, 272.
- Ec 479 Senior Research 5 credits**
An advanced course providing the opportunity for students to pursue topics in breadth and depth and apply the tools of economic analysis to current issues in national and international economic policy. Prerequisite: Permission of instructor.
- Ec 491 Special Topics 2-5 credits**
- Ec 499 Independent Study 2-5 credits**
Supervised individual research. Open to senior economics majors with the approval of the departmental advisers.



The University's second academic unit, the School of Education, was established in 1935. Students, above, make use of the Reading Room in the Garrard Building Library.

SCHOOL OF EDUCATION
John A. Morford, Ed.D., Dean
Gary H. Zarter, Ph.D., Associate Dean





School of Education

Professors:

Winfield S. Fountain
John A. Morford
Ralph K. O'Brien

Associate Professors:

Margaret Haggerty
Mary C. Pirrung
Mary Lou Wyse
Charles A. Yackulic

Assistant Professors:

Dorothy G. Blystad
Bonnie J. Denoon
R. Michael O'Connor
Gary H. Zarter

Instructor:

Karla Marken

Objectives

Within the framework of the University's philosophy and principles, the School of Education has as its objectives the attainment of a liberal and humane education, the formation of men and women dedicated to the art of

teaching and knowledgeable of its sciences, and a sound preparation in fields or areas of learning applicable to the curriculum of the elementary and secondary school and adult education.

The School offers programs leading to the Washington provisional teaching certificate, standard teaching certificate, provisional principal's credential, standard principal's credential and school counselor's certificates. Also available are programs to train Montessori school teachers or teachers of the mentally retarded.

Through reciprocal agreements School of Education graduates also qualify for certification in most other states.

Accreditation

The School is accredited by the Northwest Association of Higher Education and the National Council for Accreditation of Teacher Education and approved by the Washington State Board of Education.

Organization

The School of Education has two major divisions, undergraduate studies and graduate studies and one department, Health and Physical Education. Close cooperation exists among all departments, schools and colleges of the University in working out a program of preparation for the individual student.

Degrees Offered

Bachelor of Arts in Education
Bachelor of Education
Master of Arts in Education
Master of Education

Undergraduate Programs

Admission Requirements

All entering freshmen and undergraduate transfer students from accredited institutions of higher learning who aspire to become teachers may be admitted to the School of Education for lower division courses if they meet the University's regular admission standards.

Criteria and Procedure for Admission into Upper-Division Candidacy in the Teacher Training Programs

Requirements for entrance into upper-division candidacy in the teacher training program are higher than those for graduation. Therefore, students must make application for and be accepted into the program prior to registration in Ed 200 and 325, or 436, 437 or 442.

For undergraduates, this application will usually be made during the quarter in which Ed 322 is taken, usually in the sophomore year. Transfer students must complete one quarter at Seattle University before unconditional entrance into upper-division candidacy. Students entering initially as post-bachelor students are evaluated at the time of admission and need not make a separate application for entrance into upper-division candidacy. An interview with a School of Education adviser is required of all applicants, and a plan for completion of upper-division work must be approved by the adviser and submitted with the application.

Applicants for teacher training are evaluated by the School of Education on the following bases: 1) recommendation of the teaching major department, or adviser in the case of elementary or "undecided" students; 2) academic record; 3) physical qualifications; 4) emotional health; and 5) evidence of interest in teaching as a career.

The School will place each applicant into one of four categories:

1. Accepted — may begin upper-division work toward teaching certificate. Criteria are: Unconditional recommendation from major department or adviser; Cumulative grade point average of 2.5, and for secondary candidates a 2.5 grade point average in the major or teaching field; physical ability and appearance necessary for teaching; good moral character and evidence of interest in teaching as a career.

2. Accepted conditionally — may begin work toward teaching certification provided the conditions set forth are met. Conditions most commonly, but not always, relate to the achievement or maintenance of certain grades or grade point averages. The Undergraduate Studies Executive Committee retains the right to refuse to accept conditional students in teaching fields in which an extreme surplus of teachers exists.

Criteria are: (Any one is sufficient reason for conditional acceptance.)

Conditional recommendation from major department or adviser; grade point averages below 2.5 but above 2.0 in both cases; a physical defect that makes a teaching career questionable, but not impossible; symptoms of emotional problems or immaturity which make a career in teaching questionable but are currently of a minor nature; evidence of insufficient interest in a career in teaching.

3. Deferred without prejudice — may not begin or continue upper division professional work toward teaching certification but may apply at a later date if certain conditions set forth in the deferral are met.

Criteria are: (Any one is sufficient cause for deferral.)

A recommendation that this be done from the major department or adviser; a grade point average below 2.0 overall or in teaching major; a physical defect which currently would make a teaching career impossible but which is correctable; evidence of an emotional problem or immaturity which may be overcome by time.

4. Rejected — may not begin or continue work toward teaching certification. Ordinarily, rejected applicants will not be reconsidered at a later date.

Criteria are: (Any one is sufficient cause for rejection.)

A recommendation that this be done from the major department or adviser; physical defect making a career in teaching impossible; evidence of lack of the moral character needed for teaching; evidence of emotional and/or mental immaturity or disorder of a type which is not likely to be changed by time and which makes the applicant unsuited for teaching.

Applicants may appeal the classification by the Dean to the Undergraduate Studies Executive Committee. Appeals must be made in writing within one week of notification of classification.

The status of any student is reviewed automatically if the student receives a grade of D or lower in a professional course, drops below the required grade point average or the adviser so recommends.

Admission to Student Teaching

Acceptance into upper-division candidacy in the teacher training program and completion of prerequisite courses does not guarantee admittance into student teaching. An application must be submitted to the Dean by the end of the fifth week of the quarter prior to the one in which the student wishes to fulfill the student teaching requirement. Specific dates during which forms may be obtained and submitted are announced each quarter.

Categories and criteria for acceptance are the same as those listed above except, recommendation from the faculty in the School of Education is also considered, and the student must have a grade point average of 2.5 in three areas: cumulative, in the teaching field (secondary), and in professional education courses.

Curriculum

The teacher preparation curriculum at Seattle University encompasses three components:

The liberal core of arts and sciences offered at Seattle University comprises about 35 per cent of the prospective teacher's curriculum. Forty per cent of the program is utilized in gaining a depth of knowledge in a teaching major for the secondary school teacher or two teaching areas for the elementary school teacher. The remaining 25 per cent of the 190 quarter hour basic teaching preparation is received in professional courses in foundations of education, psychology of child and adolescent development and learning, the principles, materials and technology of teaching, and closely supervised and assisted student teaching and appropriate laboratory experience in schools throughout the area.

General Program Requirements

**Bachelor of Arts in Education
Secondary**

Bachelor of Arts in Education (middle school, junior high school, or senior high school teaching) — 1) All University core requirements as found on page 24: 60 credits, 2) A teaching major or of at least 45 credits in any subject commonly taught in secondary schools. (See departmental sections of the bulletin for exact requirements in each teaching major. Where no requirements are shown in a departmental section, an individualized program must be developed jointly). 3) Professional education courses: 45 credits. 4) Electives: 40 credits. Students are advised to use electives to complete additional teaching fields.

For recommendation to Comprehensive Social Studies the following are required: 1) a major in **one** of the social studies fields, 2) at least 25 hours in history, including American, Western, and non-Western, and 3) a minimum total of 70 quarter credits in the social studies, including courses in at least three social studies areas in addition to history.

Ten of the 190 credits required for the degree and provisional certification also count toward the standard certificate teachers must earn once they begin teaching.

Typical Program

Freshman year

English core options	10 credits
History core options	10 credits
Philosophy core options	5 credits
Social Science core option	5 credits
Major or electives	15 credits

Sophomore year

Education 322	5 credits
Mathematics/Science core options	10 credits
Philosophy core options	10 credits
Theology core options	10 credits
Major or electives	10 credits

Junior year

Education 200, 325, 330, 337	20 credits
Physical Education	5 credits
Major or electives (including course in teaching of major)	25 credits

Senior year

Education 439	3 credits
Student Teaching	12 credits
Major and electives	35 credits

Total . . . 190 credits

**Bachelor of Education
Elementary**

Bachelor of Education (elementary, middle school, junior high school or Montessori school teaching — 1) All University core requirements: 60 credits. The B.Ed. requires certain specific core courses as shown in the program outline. See page 24 for remaining core requirements. 2) Common courses: 25 credits. Includes work in art, music, geography, literature, speech and physical education needed by all elementary and middle school teachers. 3) A teaching major of at least 25 credits and a teaching minor of at least 20 credits in subjects or areas commonly taught in elementary or junior high schools. Junior high candidates must take the 25 hour teaching major in a specific subject taught at the junior high level. 4) Professional education courses: 50 credits. 5) Electives: 10 credits. These vary slightly for students seeking either special education or Montessori training.

Ten of the 190 credits required for the degree and provisional certification also count toward the standard certificate teachers must earn once they begin teaching.

Students interested in Montessori teaching should confer with the Montessori Program Director early in their studies.

**Elementary
Typical Program**

Freshman year

English core (include American Literature) .	10 credits
History core (include U.S. History)	10 credits
Philosophy core option	5 credits
Social Science core option	5 credits
Teaching subject or supporting area	15 credits

Sophomore year

Art 370, Music 114	10 credits
Biology 205; Mathematics 200	10 credits
Education 322	5 credits
Philosophy core options	10 credits
Theology core options	10 credits

Junior year

Education 200, 325	10 credits
Physical Education	5 credits
Education 330, 336, 340	15 credits
Teaching subject and electives	20 credits

Senior year

Education 438	3 credits
Student teaching	12 credits
History 341 or Speech 320 or Education 372, 374 or 420 (any three)	15 credits
Teaching subject and supporting area and electives	20 credits

Total . . . 190 credits

**Typical Program
Elementary with Montessori Emphasis**

Freshman year
 English core (include American Literature) .10 credits
 History core (include U.S. History)10 credits
 Philosophy core option..... 5 credits
 Social Science core option 5 credits
 Teaching subject or supporting area15 credits

Sophomore year
 Art 370, Music 114.....10 credits
 Biology 205; Mathematics 20010 credits
 Education 322 5 credits
 Philosophy core options10 credits
 Theology core options.....10 credits

Junior year
 Education 323, 328, 32915 credits
 Physical Education 5 credits
 Education 336 and 340.....10 credits
 Teaching subject and electives15 credits

Senior year
 Student teaching (½ day for a year)20 credits
 Education 436, 437, 44215 credits
 One of Ed 374, Hs 341, or Sph 320 5 credits
 Teaching subjects15 credits

Total 190 credits

**Typical Program
Special Education: Teaching Mentally Retarded**

Freshman year
 English core (include American Literature) 10 credits
 History core (include U.S. History)10 credits
 Philosophy core option..... 5 credits
 Social Science core option 5 credits
 Teaching subject or supporting area15 credits

Sophomore year
 Art 370, Music 114.....10 credits
 Biology 205; Mathematics 20010 credits
 Education 322 5 credits
 Philosophy core options10 credits
 Theology core options.....10 credits

Junior year
 Education 200 and 325.....10 credits
 Education 330, 336, 34015 credits
 Education 438 and 425..... 6 credits
 PE 352 and 410 6 credits
 Teaching subjects13 credits

Senior year
 Student teaching12 credits
 Education 424, 426, 427 9 credits
 One of Education 372 or 374 5 credits
 Teaching subjects and elective24 credits

Total 190 credits

Special Non-Degree Programs

A number of programs may be taken in addition to or separately from degree requirements:

For bachelor's degree holders **without** teacher training: (at least 30 hours must be completed at Seattle University in these programs to receive our recommendation.)

- a) Elementary teaching provisional certification,
- b) Secondary teaching provisional certification,
- c) Montessori teaching certification.

For bachelor's or master's degree holders with teacher certification or its equivalent:

- a) Standard certification (fifth-year); may be either a non-degree program or combined with a master's degree.
- b) Provisional principal's credential.
 Candidates must receive State of Washington Board of Education approval to enter administrative preparation leading to the credential. Requirements for the principal's credential include: completion of requirements for a standard teaching certificate; 54 credits of course work beyond the bachelor's degree, of which at least 24 credits are to be in an approved program, including administrative internship; and at least three years of successful teaching at the time the credential is requested. At least one year of successful teaching must have been completed at the time the candidate begins the credential program. Acceptance in Graduate School as a credential candidate is a prerequisite.
- c) Standard principal's credential.
 Candidates for the standard principal's credential must have the provisional principal's credential, have completed 12 credits of applicable study since receiving the provisional credential, have a master's degree and have completed three successful years as a school principal. For detailed programs and instructions consult the Coordinator of Education Administration Programs.

 Both principal's credential programs may be combined with the master's degree in Education Administration described below.
- d) School counselor's certification.
 These certification programs also are commonly combined with the master's degree in counseling described below. See the Coordinator of Counseling and Guidance Programs for details.

Graduate Programs

At the graduate level the School of Education offers M.Ed. and M.A. degrees with the following majors:

Curriculum and Instruction — for those planning a career as professional teachers, as instructional leaders, or curriculum specialists. This flexible program permits a variety of specializations, e.g., Reading Specialist, Learning—Language Disabilities and Montessori education.

Administration — designed for those desiring to qualify for principalships and other supervisory positions.

Guidance and Counseling — prepares professionals for counseling in both school and non-school settings.

Adult Education — for those whose orientation is education in community college, technical school, businesses, or other adult settings.

In addition to graduate degree programs we offer post-bachelor and fifth year programs leading to provisional or standard teaching certificates and post-masters

programs designed to upgrade in-service educators and to lead to principal, supervisor, or counselor credentials.

Several other masters programs are available at Seattle University outside the School of Education including English, History, Religious Education, Business, Public Service and Science. Teachers wishing to combine some courses from graduate fields offered by Seattle University along with selected professional education courses should pursue the major in Curriculum and Instruction which permits such a combination.

Admission Requirements

1. Relevant Post-Bachelor's work experience, at least one year, is required for all programs. The work must be in the type of institution or agency in which the student plans to utilize the graduate training.
2. For School Administration or Curriculum and Instruction majors, academic background equivalent to that required for a teaching certificate is necessary.
3. For Guidance and Counseling majors the equivalent of an undergraduate major in any **one** of the following is needed: Education, Psychology, Sociology, Social Work or Community Service.
4. Students meeting the above standards who have at least a 2.75 cumulative or upper-division grade point average are acceptable as regular degree applicants. Those below a 2.75 but above a 2.30 grade point average may be accepted as probationary degree applicants. Those accepted on probation must remove all conditions of probation before completing over 15 hours of degree work at Seattle University.

General Format of Degree Studies

Below are typical programs for each major field. While details vary from program to program, all Education graduate degree programs contain the following components:

1. Admission — as degree "applicant." (See above.)
2. Initial course work — 15 hours of course work to include Ed 500, Introduction to Research and Graduate Studies, plus the designated first course in the major field and other courses designated at admission or by your program adviser.
3. Candidacy—admission to degree Candidate status, is based on these criteria:
 - a) A 3.00 (B) average in the first 15 hours.
 - b) Submission of Graduate Record Examination scores or their equivalent.
 - c) Recommendation of your on-the-job supervisor. (We will request this from your supervisor.)
 - d) Recommendation of your major program Adviser.
 - e) Submission of a planned program of studies approved by your adviser.
4. Advanced course work:
 - a) Completion of major field course work. The amount varies from program to program and student to student. See below for typical programs for each major.



- b) Complete core and approved electives. M. Ed. candidates must complete at least 48 credits; M.A. candidates must complete at least 45 credits, including either a three credit project or a 10 credit thesis.
- c) In the programs involving a required practicum or internship there are two evaluation points beyond initial admission: at candidacy and just prior to the practicum or internship to further determine the candidate's capabilities to function effectively in the practicum or internship role.
5. Comprehensive exam — satisfactorily complete a written comprehensive exam covering the major area of study. The exam **may** be taken as soon as all major area course work is completed and **must** be taken immediately once all degree course work is completed. The examination is offered at least three times each year.

Some Details of Interest

1. **Transfer credit.** A student may transfer 10 quarter hours to Seattle University as part of a masters program provided:
 - a) student shows evidence that it was true graduate credit acceptable toward a graduate degree at the accredited university where it was taken;
 - b) the work fits within applicable time limits, normally within six years prior to the completion of the degree;
 - c) it is approved by the adviser and the deans;
 - d) grades must be B or above.
 Majors in Curriculum and Instruction may exceed the 10-hour limit with advance approval of the adviser and deans when a group of electives exceeding 10 hours is desirable but not available at Seattle University.

2. **Time limit.** All degree work must ordinarily be completed within six years. This limit includes transfer credit.
3. **Residency requirement.** At least one full quarter must be spent in full-time study, preferably the first summer quarter. Remaining work may be done either full-time or on a part-time basis during summers or in late afternoon and evening sessions during the year or both. Eight hours or more per quarter constitutes full graduate study.
4. **Enrollment limits for fully employed students.** Anyone holding full-time employment is ordinarily limited to six hours per quarter. (This may be exceeded when added courses are an integrated part of the working day, e.g., internship, certain independent study courses, and certain graduate projects.)
5. **A 3.00 grade point average** must be maintained during graduate study.
6. **Combining degree work and certification programs**
By careful planning the student may combine degree work with a program leading to the standard teaching certificate, the provisional principal's credential, or a counselor's certificate.

(Please note: Students who choose to pursue a fifth year toward the provisional or standard teaching certificate but **not** the masters degree shall not enroll in the Graduate School but should enroll directly in the School of Education as "Fifth-Year" students. Such students develop a planned program with an adviser from courses numbered 100-499. A few introductory 500-level courses may be included with advance approval of the adviser and dean.)

Masters Program in Education Administration

Winfield S. Fountain, Ed.D., Coordinator

Typical Program — 45-Hour Plan

Required Courses:

1. Ed 500 — Introduction to Research and Graduate Studies
2. **One of:** Ed 501 — Philosophy of Education
Ed 502 — History of Education
Ed 503 — Comparative Education
3. **One of:** Ed 581 — Elementary Administration
Ed 582 — Secondary Administration
4. **One of:** Ed 522—Child Psychology-Learning
Ed 523—Adolescent Psychology-Learning

Typical Major Courses:

- Ed 583 — School Finance
- Ed 584 — School Law
- Ed 586 — School Personnel
- Ed 596 — Administrative Graduate Project
- Ed 590 — Administrative Internship I
- Ed 591 — Administrative Internship II
- Ed 592 — Administrative Internship III

Typical Electives (Normally 12 to 15 credits from such courses as the following and will vary greatly from student to student.)

- Ed 510 — Introduction to Guidance
- Ed 541 or 542 — Curriculum Seminar
- Ed 536 — Supervision of Instruction
- Ed 572 — Foundations of Adult Education
- Ed 580 — Administration Problems Seminar
- Ed 587 — School Public Relations
- Ed 597 — Independent Study in Educational Administration

Masters Program in Adult Education

Charles A. Yackulic, M.A., Coordinator

Typical Program — 45-Hour Plan

Required Courses:

1. Ed 500 — Introduction to Research and Graduate Studies
2. **One of:** Ed 501 — Philosophy of Education
Ed 502 — History of Education
Ed 503 — Comparative Education
3. Ed 572 — Foundations in Adult Education

Typical Major Courses:

4. Ed 573 — Special Problems of Adult Learner
5. Ed 574 — Administration of Adult Education Programs
6. Ed 575 — Course Development and Instructional Resources
7. Ed 579 — Adult Education Graduate Project

Typical Electives:

8. Ed 576 — Job and Task Analysis
9. Sc 491 — Sociology of Work
10. Ed 513 — Principles of Counseling
11. Ed 578 — Adult Education Practicum
12. Psy 426 — Psychology of Occupations and Careers
13. Psy 465 — Industrial Psychology
14. Ed 506 — Educational Statistics
15. Ed 540 — Fundamentals of Curriculum Development

An elective sequence in Alcohol Studies may be incorporated into this program.



Masters Program in Counseling and Guidance

Marylou Wyse, Ph.D., Coordinator

Typical Program — 45-Hour Plan Required Courses:

1. Ed 500 — Introduction to Research and Graduate Studies
2. **One of:** Ed 501 — Philosophy of Education
Ed 503 — Comparative Education
3. Ed 510 — Introduction to Guidance

Typical Major Courses:

4. Ed 512 — Informational Services in Guidance
5. Ed 513 — Principles and Practices in Counseling
6. Ed 520I — Counseling Internship I and II
7. Ed 527 — Measurement in Psychology and Education
8. Ed 528 — Psychological Tests
9. Ed 551 — Counseling Practicum
10. Ed 559 — Guidance Graduate Project

Typical Electives:

- Ed 519 — Group Counseling
- PE 497 — The Drug Scene
- Psy 494 — Behavior Modification
- Ed 506 — Educational Statistics
- Ed 515 — Guidance and Multicultures
- Ed 522 — Child Psychology-Learning

An elective sequence in Alcohol Studies may be incorporated into this program.

Masters Program in Curriculum and Instruction

Margaret Haggerty, Ph.D., Coordinator

Typical Program — 45-Hour Plan Required Courses:

1. Ed 500 — Introduction to Research and Graduate Studies
2. **One of:** Ed 501 — Philosophy of Education
Ed 502 — History of Education
Ed 503 — Comparative Education
3. Ed 540 — Fundamentals of Curriculum Development
4. **One of:** Ed 522—Child Psychology-Learning
Ed 523—Adolescent Psychology-Learning

Typical Major Courses:

4. Ed 530 or 531 — Seminar in Curriculum Design
5. Ed 536 — Supervision of Instruction
6. Ed 537 — Curriculum Independent Study
7. Ed 541, 542 or 543 — Curriculum Seminar
8. Ed 538 — Curriculum Field Study
9. Ed 539 — Curriculum Graduate Project

Electives: (approximately 18 hours)

There is an unlimited choice of electives in this flexible program. Examples of types of elective choices include:

- a. Specialty areas such as reading, learning disabilities, special education, Montessori education, elementary methods, psychology, new media (If the desired, approved courses are not available at Seattle University they may be taken elsewhere.)
- b. Courses from other graduate Education majors: Administration, Guidance, Adult Education.
- c. An academic area such as English, foreign language (French abroad with intern teaching), history, business, art, physical education. Courses must be 400-level or above.

Reading Specialist or Learning/ Language Disability Specialist

Specializations in reading or learning/language disability may be completed as part of the master's degree program described in Curriculum and Instruction. Each may also be pursued as a non-degree area of specialization leading to a university certificate of completion upon the completing of the following:

Reading Specialist (12-15 hours)

1. Ed 532 — Field Practicum in Reading
2. Ed 533 — Reading Diagnosis and Evaluation
3. Ed 534 — Seminar in the Teaching of Reading
4. Ed 535 — Reading in Content Fields

Learning/Language Disabilities Specialist (18-21 hours)

1. Ed 424 — Introduction to L/LD
2. Ed 425 — Psych of the Exceptional Child
3. Ed 547 — L/LD Diagnosis
4. Ed 552 — L/LD Special Methods
5. Ed 554 — Seminar in L/LD
6. Ed 555 — Practicum: L/LD

Education Courses

Ed 101 College Study Skill Development I 5 credits
Ed 102 College Study Skill Development II 5 credits
Ed 103 College Study Skill Development III 5 credits
 Sequential development of essential college skills emphasizing reading comprehension, retention and vocabulary building, effective study plans and correlation with the basic university curriculum. Prerequisite: Permission of instructor. (I. fall, II. winter, III. spring)

Ed 200 Foundations of American Education 5 credits
 Foundation study of the philosophy, sociology and history of public, private and Catholic education in the United States; field experience to support classroom theory and laboratory work. Prerequisite: Ed 322; corequisite: Ed 325. (fall, winter, spring, summer)

Ed 291 Special Topics 1-5 credits
Ed 292 Special Topics 1-5 credits
Ed 293 Special Topics 1-5 credits

Ed 304 Multi-Culture — Rural and Urban Education 3 credits
 The nature, problems and status of education in the minority culture.

Ed 322 Psychology of Development 5 credits
 Developmental changes in the normal human being with emphasis on application to the school age years. Includes observations in the field. (fall, winter, spring, summer)

Ed 323 Child Psychology 5 credits
 Development from birth through the sensitive stages of adolescence, emphasizing the growth of the total child — emotional, intellectual, physical, psychological and spiritual (character). (winter)

Ed 325 Psychology of Learning 5 credits
 Study of human learning in the classroom; theories of learning; organization and retention of knowledge; statistical measuring and evaluation of mental processes; factors in the economy of learning. Two to four weeks field experience. Prerequisite: Ed 322; corequisite: Ed 200. (fall, winter, spring, summer)

Ed 328 Montessori Orientation 5 credits
 Basic philosophy, principles and procedures of environmental learning within a "prepared environment." Perceptual-motor education as utilized by everyday living and learning experiences of the young child.

Ed 329 Sensorial Education 5 credits
 Experience with the education of the senses in isolation. Also a study of the acquisition of practical skills within the child through his absorptive and imitative tendencies which lead gradually to abstraction.

Ed 330 General Methods, Media and Materials 5 credits
 Application of psychological principles of learning and development to the practical requirements of preparing, organizing and presenting learning units and materials to the students. Two to four weeks field experience. Prerequisites: Ed 200, 325; corequisites: Ed 336 and 340 or 337. (fall, winter, spring)

Ed 335 Early Childhood — Kindergarten 3 credits
 Principles, organization and methods of teaching. (summer)

Ed 336 Fundamentals of Reading Instruction — Elementary 3-5 credits
 Nature of the reading process, sequence of skills K-6, recommended practices, materials, methods of diagnosis and evaluation. Two to four weeks field experience. Prerequisites: Ed 322, 325; corequisite: Ed 330. (3 credits without field experience component.) (fall, winter, spring)

Ed 337 Fundamentals of Reading Instruction — Secondary 3-5 credits
 Development of reading and study skills; reading in content areas; methods of diagnosis and evaluation and study and special reading programs. Two to four weeks field experience. Prerequisites: Ed 322, 325; corequisite: Ed 330. (3 credits without field experience component.) (fall, winter, spring)

Ed 340 Fundamentals of Mathematics Instruction — Elementary 5 credits
 Study of number systems including basic operations and properties of numbers; principles of teaching these concepts in kindergarten through grade 6; application in a two to four week field experience. Prerequisite: Mt 200.

Ed 342 Pacific Science Center Internship 3 credits
 Laboratory experience working with a teaching team in mathematics or science, grades 2-8. Prerequisites: Ed 340 and selective interview by Science Center staff prior to quarter.

Ed 372 Teaching Geography and Social Studies 5 credits
 Survey of modes, methods, media and materials for instruction in a Social Studies program with basic concepts from geography as the core.

Ed 373 Story Telling — Primary 3 credits
 Selection and interpretation of kindergarten-primary grade literature. For Kindergarten-primary grade teachers and elementary school librarians.

Ed 374 Literature for Children 5 credits
 Selection, introduction and student use of literature for preschool, kindergarten, primary and intermediate grades. (winter)

Ed 375 Literature for Early Childhood 3 credits
 Survey of the present field of literature for early childhood and primary education. (summer)

Ed 376 Literature for Youth 3 credits
 Survey of junior books and an analysis of adult books suitable for intermediate grade children and early adolescence. (summer)

Ed 378 Literature for Later Childhood 3 credits
 Survey of literature for children in grades 4-8.

Ed 391 Special Topics 1-5 credits
Ed 392 Special Topics 1-5 credits
Ed 593 Special Topics 1-5 credits

Ed 401 Workshop in Elementary School Methods (summer) 3 credits
Ed 407 Workshop in Television Teaching 3 credits

Ed 420 Teaching Elementary School Subjects 5 credits
 General methods of teaching in specific subjects, areas and levels of the elementary school to include the total curriculum. Normally taken concurrently with student teaching. Prerequisite: Ed 330. (fall, winter, spring)

<p>Ed 424 Introduction to Learning Disabilities 3 credits History and current practices in diagnosis and remediation of learning disabilities.</p>	<p>Ed 445 Student Teaching — Secondary 12 credits One quarter of full-day supervised teaching experience on the secondary school level. Prerequisite: Ed 330 and permission of the Dean. (fall, winter, spring)</p>
<p>Ed 425 Psychology of the Exceptional Child 3 credits Study of the atypical child who deviates from the normal to well above or below the average; tests for evaluation; consideration of remedial techniques. Prerequisite: Ed 322 or permission of instructor.</p>	<p>Ed 446 Student Teaching — Supplementary 5-15 credits</p>
<p>Ed 426 Special Education — Teaching Severely Retarded Children 3 credits Materials and techniques for educating the severely retarded child.</p>	<p>Ed 460 Speech Correction 3 credits Analysis of common speech problems of the classroom and demonstration of remedial techniques.</p>
<p>Ed 427 Special Education—Teaching Moderately Retarded Children 3 credits Materials and techniques for educating the moderately retarded child.</p>	<p>Ed 491 Special Topics 1-5 credits Ed 492 Special Topics 1-5 credits Ed 493 Special Topics 1-5 credits</p>
<p>Ed 430 Teaching Secondary School Subjects 5 credits General methods of teaching in specific subjects, areas and levels of the secondary school. Prerequisite: Ed 330; corequisite: Ed 445.</p>	<p>Ed 497 Independent Study 1-5 credits Ed 498 Independent Study 1-5 credits Ed 499 Independent Study 1-5 credits</p>
<p>Ed 436 Montessori Mathematics and Language 5 credits From the beginning of language development, vocabulary expansion to self expression and a knowledge of syntax and full enjoyment of reading and writing skills. The emergence of the mathematical mind, its use of geometrical space relationships, the growing ability to calculate in the basic mathematical operations — first in the concrete, finally in the abstract. (winter)</p>	<p>Graduate Courses</p>
<p>Ed 437 Comparative and Observational Study of Early Education 5 credits Current trends of Open Classroom structures will be compared and related to the Montessori approach to learning. British Infant and Integrated Day, Free School, Individualized systems. Observation — 30 clock hours.</p>	<p>Ed 500 Introduction to Research and Graduate Study 3 credits Introduction to research skills and literature in students' fields. Includes an orientation to graduate studies. Ordinarily taken as first graduate course. (fall, winter, spring, summer)</p>
<p>Ed 438 Laboratory Experience — Elementary 1-6 credits (fall, winter, spring)</p>	<p>Ed 501 Philosophy of Education 3 credits Philosophical foundations of education. (fall, winter, summer)</p>
<p>Ed 439 Laboratory Experience — Secondary 1-6 credits (fall, winter, spring)</p>	<p>Ed 502 History of Education 3 credits Great educators, theories and systems from the Hebrews, Greeks and Romans to the present. (summer)</p>
<p>Ed 440 Student Teaching — Elementary 12 credits One quarter of full-day supervised teaching experience on the elementary school level. Prerequisite: Ed 330 and permission of the Dean. (fall, winter, spring)</p>	<p>Ed 503 Comparative Education 3 credits Investigation and comparison of the leading national and cultural systems of education of the world. (spring, summer)</p>
<p>Ed 441 Montessori/Public School Student Teaching 20 credits Supervised teaching within a Montessori preschool and public school (if needed for certificate). Student teaching is done for a half day (daily) session in an approved or credentialed school under an experienced Montessori teacher. (10 credits in fall; 5 credits in other quarters.)</p>	<p>Ed 505 Fundamentals of Research Design 3 credits Statistical techniques used in research design, measurement and evaluation. Emphasis on utilizing the computer in solving research problems.</p>
<p>Ed 442 Cosmic Environmental Learning 5 credits Study of the world, past and present, its flora, fauna and inhabitants, emerging through time lines and other concrete materials made by that student in social studies, geography and cultural history. (spring)</p>	<p>Ed 506 Educational Statistics 3 credits Specialized utilization of statistical data analysis and application to research. (winter)</p>
	<p>Ed 510 Fundamental Counseling 3 credits Focus on basic counseling skill training through intensive small group practice. Designed to complement Education 513, Counseling Theories, which should be taken concurrently. (fall, summer)</p>
	<p>Ed 511 Organization and Administration of Guidance Services 3 credits Consideration of the various guidance services offered in schools with particular reference to their organization and administration as well as the ethics and legality involved. (fall)</p>
	<p>Ed 512 Informational Services in Guidance 3 credits Study of the occupational development; sources of information necessary for effective guidance. (spring, summer)</p>

Ed 513 Counseling Theories 3 credits
 Emphasis on the theoretical foundations of major counseling approaches with opportunities for in-class practice in simulating counseling interview situations. Designed to complement Education 510, Fundamental Counseling Skills, which should be taken concurrently. (fall, summer)

Ed 514 Contemporary Issues in Counseling 3 credits
 Critical exploration of current controversial concerns in the field of counseling conducted in seminar style. Prerequisite: Ed 513. (winter)

Ed 515 Guidance and Multicultures 3 credits
 Examination of Chicano, Indian, Black and Asian cultures and their relationship with the impact on helping professions. (winter)

Ed 519 Group Counseling — Theory and Procedures 3 credits
 Emphasis on the theory and practice of group counseling. Opportunities for group experience will be provided to integrate theory with procedures. Graduate students only. Prerequisites: Ed 510, 513. (winter)

Ed 520 Counseling Internship I 3 credits
Ed 521 Counseling Internship II 3 credits
 Supervised experiences in a school or agency. Prerequisites: Course work in guidance and permission two quarters prior to the internship. Taken during final two quarters of graduate program. (fall, winter, spring, summer)

Ed 522 Child Psychology Learning 3 credits
 Investigation of various theories of child development and learning.

Ed 523 Adolescent Psychology Learning 3 credits
 Investigation studies in adolescent psychology and learning.

Ed 525 Psychology of Learning Seminar 3 credits
 Investigation, analysis and reporting on original studies in the field of learning; includes a report on an investigation of some specific phase or problem. Prerequisite: Ed 325.

Ed 527 Measurement in Psychology and Education 3 credits
 Theoretical foundations of modern measurement practices in education and related fields; taught with the cooperation of the Psychology department for prospective guidance specialists. Prerequisite: Ed 506. (winter, summer)

Ed 528 Psychological Tests 3 credits
 Application of principles of psychological measurement in the critical examination of representative standardized tests with opportunities for scoring and interpretive practice. Prerequisite: Ed 527. (spring, summer)

Ed 529 Teaching Values in American Schools 3 credits
 Psychological foundations of character development, will-training, values, nature of morality, the relation of character to education and studies in character education.

Ed 530 Seminar: Curriculum Design in Elementary Education 3 credits
 Provides an opportunity for experienced workers in elementary education to pursue individual studies in curriculum, teaching methods and related fields. (spring, summer)

Ed 531 Seminar: Curriculum Design in Secondary Education 3 credits
 Provides an opportunity for experienced workers in secondary education to pursue individual studies in curriculum, teaching methods and related fields. (spring, summer)

Ed 532 Field Practicum in Reading 3-6 credits
 Supervised field experience in diagnosis and teaching of reading. Prerequisite: Ed 533 or equivalent.

Ed 533 Reading Diagnosis and Evaluation 3 credits
 Diagnosis of reading difficulties; tests, reading inventories, classroom techniques and materials; clinical programs and approaches. Prerequisite: Ed 534 or equivalent. (summer)

Ed 534 Seminar in Teaching of Reading 3 credits
 Development of reading skills at all levels; examination and evaluation of current reading practices and programs. Prerequisite: Ed 336 or 337 or equivalent.

Ed 535 Reading in Content Fields 3 credits
 Decoding and vocabulary analysis, comprehension reading, rote, study skills and reading interests as related to specific content fields. Prerequisite: Ed 336 or 337 or equivalent or permission of instructor. (summer)

Ed 536 Supervision of Instruction 3 credits
 Improvement of instruction through supervisory leadership. (spring, summer)

Ed 537 Curriculum Independent Study 1-4 credits
 Intensive library research in curriculum. Approximately 30 hours of reading and allied assignments for each credit. Completion reports will include analysis and critical appraisal of materials read. Prerequisite: Permission of adviser. Graduate students only. (fall, winter, spring, summer)

Ed 538 Curriculum Field Study 3 credits
 Scholarly study and reporting of a curriculum field problem. Emphasis on application of completed research and design to an actual situation. Prerequisite: Approval of Coordinator. (fall, winter, spring, summer)

Ed 539 Curriculum Graduate Project 3 credits
 Scholarly graduate project designed to improve some aspect of education. Prerequisites: Graduate core requirements and approval of Coordinator. (fall, winter, spring, summer)

Ed 540 Fundamentals of Curriculum Development 3 credits
 Historical, philosophical foundations, principles, types and methods of curriculum development and organization. (fall, summer)

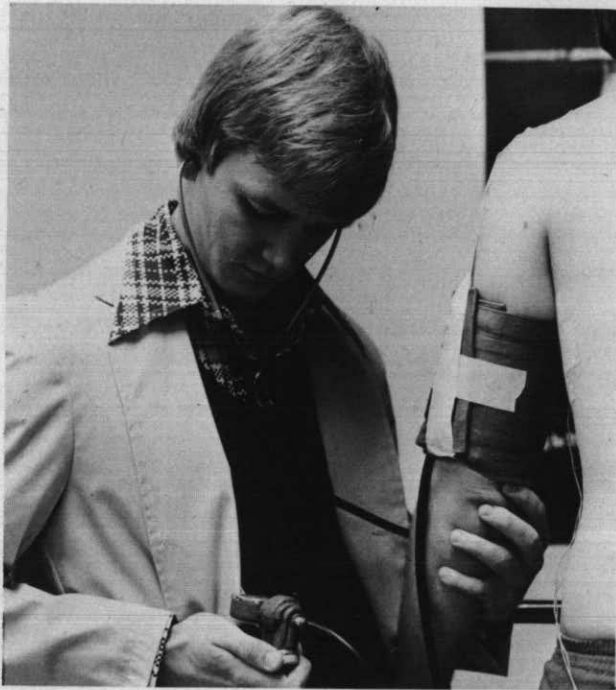
Ed 541 Elementary Curriculum Seminar 3 credits
 Investigation and analysis of changes and trends, including a personal intensive report on some phase of curriculum on the elementary school level. Prerequisite: Ed 540. (winter, summer)

- Ed 542 Junior High School/Middle School Curriculum Seminar 3 credits**
Investigation and analysis of changes and trends, including a personal intensive report on some phase of curriculum on the junior high school and middle school levels. Prerequisite: Ed 540. (winter, summer)
- Ed 543 Secondary Curriculum Seminar 3 credits**
Investigation and analysis of changes and trends, including a personal intensive report on some phase of curriculum on the senior high school level. Prerequisite: Ed 540. (spring, summer)
- Ed 544 Advanced Workshop in Curriculum Methods 3 credits**
Provides an opportunity for experienced workers in elementary/secondary education to pursue individual studies in curriculum, teaching methods and related fields.
- Ed 546 Special Education Seminar 3 credits**
Investigation, analysis and reporting on original studies and trends in education of the mentally retarded.
- Ed 547 Learning Disabilities: Diagnosis 3 credits**
Comparison of various methods used in the diagnosis of learning problems. Selection, administration, and analysis of tests.
- Ed 548 Seminar in Educational Technology 3 credits**
Analysis and evaluation of existing educational technological media and programs. An in-depth application of selected media to the graduate student's field of specialization. Prerequisite: Ed 330 or permission.
- Ed 549 Organization of Learning Resource Centers 3 credits**
Theory, objectives, design and administration of learning resource centers. Individualized application to specific school settings. Prerequisite: Ed 330 or permission.
- Ed 550 Practicum in Group Processes 3 credits**
Supervised off-campus experience co-leading groups. Offered spring quarter with limited enrollment. Prerequisite: Ed 513, 519. Graduate students only. (spring)
- Ed 551 Counseling Practicum 3-6 credits**
Supervised counseling experience wherein the counselor candidate is responsible for actual counseling cases. With supervision. Prerequisite: Ed 510, 513. Graduate students only. (fall, winter, spring, summer)
- Ed 552 Learning Disabilities: Special Methods 3 credits**
Focus is on methods of instruction of children with extreme learning problems including diagnosis and prescriptive teaching, multisensory systems, phonic systems, language development systems.
- Ed 553 Adult Education Practicum 3 credits**
Practical experience in instructing adults in the area of the candidate's competence. Graduate students only. (fall, winter, spring, summer)
- Ed 554 Seminar in Learning Disabilities 3 credits**
Emphasis on curriculum for the learning disabled child with major focus on adapted language, math and science, speech, music, art, physical education. Evaluation of new techniques, approaches and materials.
- Ed 555 Practicum: Learning Disabilities 3-6 credits**
Diagnostic and prescriptive teaching with children who have learning disabilities. A laboratory course.
- Ed 557 Guidance Independent Study 1-3 credits**
Intensive reading and field research in a topic mutually agreed on by adviser and student. Approximately 30 hours of work for each credit. Completion reports will include analysis and critical appraisal of findings. Graduate students only. Prerequisite: permission of adviser. (fall, winter, spring, summer)
- Ed 559 Guidance Graduate Project 3 credits**
Scholarly investigation of some practical aspect of the counseling field. Mandatory for Master of Arts in Education degree. Prerequisite: permission of adviser. Graduate students only. (fall, winter, spring, summer)
- Ed 561 Special Topics 3 credits**
Ed 562 Special Topics 3 credits
Ed 563 Special Topics 3 credits
- Ed 567 Seminar in On the Job Training 3 credits**
Opportunity is provided to discuss the computer analysis of Task Inventories to decide whether the task can be learned more effectively in OJT, formal education, after graduation. Development of job related performance standards and models for validating the results.
- Ed 568 Adult Education Field Practicum 3 credits**
Problem centered practicum in a service delivery setting with clients. Joint university and employer supervision and seminar evaluations.
- Ed 569 Seminar in Community Development 3 credits**
Basic concepts related to community service delivery systems with emphasis on psychosocial and cultural factors related to user participation. Data gathering techniques, education and public relations are used as the instruments of planned change.
- Ed 570 Seminar on the American Community College 3 credits**
Consideration of the college parallel, vocational, technical and community service roles; history, status and projected development of community colleges; staffing needs and qualifications. (summer)
- Ed 571 Seminar on Community College Instructional Problems 3 credits**
Identification of instructional programs pertinent to the community college; contrasts with and similarities to problems associated with senior institutions; trends in curricula, personnel and selection. (summer)
- Ed 572 Foundations in Adult Education 3 credits**
Place of adult or continuing education in the total spectrum of American education. Required of the candidate for the Masters in Adult Education. Administration. (fall, summer)
- Ed 573 Special Problems of the Adult Learner 3 credits**
Characteristics of various adult groups and related instructional problems with suggested approaches. Skill acquisition, transfer of training principles, alcohol and other addictions are studied. (winter, summer)

- Ed 574 Administration of Adult Education Programs** **3 credits**
Problems relating to the development, financing, staffing, supervision and evaluation of instructional programs for adults. (spring, summer)
- Ed 575 Course Development and Instructional Resources** **3 credits**
Organizing a course of instruction for adults in the candidate's area of competence; collecting and editing supplementary materials; compiling a bibliography and proposing an evaluation design. (fall, winter, spring, summer)
- Ed 576 Job and Task Analysis** **3 credits**
Study of Job and Task Analysis as it applies to occupational classification, selection and promotion in industry and government. Construction and review of Task Inventories. Implications for career ladders, career counseling, curriculum development, personnel selection tests, job related standards and task data banks are discussed.
- Ed 577 Adult Education Independent Study** **3 credits**
Intensive library research in adult or vocational education. Approximately 30 hours of reading and allied assignments for each credit. Completion reports will include analysis and critical appraisal of materials read. Prerequisite: Prospectus must be approved prior to registration. (fall, winter, spring, summer)
- Ed 578 Adult Education Field Internship** **3-6 credits**
Field internship in the specialty area of the graduate student seeking a degree in Adult Education. At least 30 hours of pre-arranged experience is required for each hour of credit.
- Ed 579 Adult Education Graduate Project** **3 credits**
Scholarly graduate project designed to improve some aspect of education. Prerequisites: graduate core requirements and approval of Coordinator. (fall, winter, spring, summer)
- Ed 580 Seminar in School Administration** **3 credits**
Contemporary problems and trends; analysis and evaluation. Graduate students only. (summer)
- Ed 581 Elementary School Administration** **3 credits**
Duties of administrators; criteria; administrative process; case studies. (fall, summer)
- Ed 582 Secondary School Administration** **3 credits**
Duties of administrators; criteria; administrative process; case studies. (fall, summer)
- Ed 583 School Finance** **3 credits**
Historical development; balanced taxation; school support program; problems and controversies. Graduate students only. (spring, summer)
- Ed 584 School Law** **3 credits**
Federal and state laws regarding education; liability and protection of schools; legal status of personnel; case precedents. (summer)
- Ed 585 School Plant Planning** **3 credits**
Plant requirement projections; site selections; staff and patron planning; leadership of principal. Graduate students only. (biennially)



- Ed 586 School Personnel** **3 credits**
Recruitment, selection, orientation, induction and retention of certificated and non-certificated personnel; evaluation of performance; professional negotiations. (summer)
- Ed 587 School Public Relations** **3 credits**
Purposes and media for informing the general public and school patrons about school programs and needs; public relations roles of teacher and administrative officers. (fall, summer)
- Ed 590 Administrative Internship I** **3 credits**
- Ed 591 Administrative Internship II** **3 credits**
- Ed 592 Administrative Internship III** **3 credits**
Supervised experiences in the administration of a school. Prerequisites: Course work in school administration and permission the spring prior to year of internship. Required for credentials. Graduate students only. (fall, winter, spring)
- Ed 596 Administrative Graduate Project** **3 credits**
Scholarly graduate project designed to improve some aspect of education. Prerequisites: Graduate core requirements and approval of Coordinator. (fall, winter, spring, summer)
- Ed 597 Administrative Independent Study** **3 credits**
Intensive library research. Approximately 30 hours of reading and allied assignments of each credit. Completion reports will include analysis and critical appraisal of materials read. Prerequisite: Permission of adviser. (fall, winter, spring, summer)
- Ed 599 Thesis** **10 credits**
Contribution to the body of essential knowledge in the fields of teaching and specialized education. Required of Master of Arts in Education candidates; optional for others. Prerequisites: Graduate core requirements and approval of preliminary application by the graduate adviser and the Dean of the Graduate School. (fall, winter, spring, summer)



Health and Physical Education

Joseph T. Page, Ph.D., Chairman

Associate Professors:

Reba Y. Lucey
 J. Thomas Page

Assistant Professor:

Lawrence E. Vance

Objectives

The Health and Physical Education department has as its prime objectives the physical and neuromuscular skill development and the recreational welfare of all students. The department fulfills two major functions at Seattle University. These are:

The professional preparation of young men and women as teachers of health and physical education.

The sponsorship of a broad range of physical education instructional service programs designed to meet the physical activity needs of college men and women.

Degrees Offered

Bachelor of Arts in Education
 Master of Education
 Master of Arts in Education

General Degree Requirements

Students in the fields of health and physical education must satisfy University core curriculum requirements as given on page 24 of this bulletin and those of the School of Education.

All students planning to receive a teaching certificate must be accepted by the School of Education but such acceptance does not imply that the student will be permitted to pursue this teaching field. Students may indicate their interest in this area at the time of application for admission to the School of Education. During the succeeding months their aptitude and promise for the field of physical education will be evaluated. Counseling, designed to assist the student to develop in ways requisite for successful teaching and leadership in the field, will be offered. Candidates must demonstrate superior physical skills, intellectual competency, and desirable personality and character traits before they will be accepted.

Candidates for teaching certificates will complete the required courses in teacher education. Upon graduation, certified teachers will have, in addition to the general and professional education requirements, a total major area of 55 credits or for the minor, 25 credits in health and physical education.

Departmental Requirements

Bachelor of Arts in Education (Health and Physical Education) — 55 credits in health and physical education courses which must include: PE 200, 210, 220, 230, 350, 460; 15 credits in selected major activities and 12 credits of approved area electives.

Undergraduate Teaching Minor (Health and Physical Education) — 25 credits which must include PE 220, 230, 350, 460 and 7 credits in approved activities.

Minor in Athletic Coaching — 27 credits which must include PE 210, PE 220, PE 320, 5 credits of approved Major Activities and 8 credits selected from coaching theory classes which must include PE 408 or PE 409. This sequence is recommended for teachers of any subject matter with an interest in assuming coaching responsibilities in elementary or secondary schools.

Master's Degree in Curriculum and Instruction — Emphasis in Physical Education — Graduate study is structured within the area of Curriculum and Instruction. A total of 18 credits (6 courses) out of 45 required is devoted to the Physical Education course area. The entire sequence is described below.

Bachelor of Arts in Education

Freshman year

English 100 and core option	10 credits
History core option	10 credits
Major, minor or electives	21 credits
Mathematics/Science core option	5 credits
Social Science core option	5 credits

Sophomore year

Education	10 credits
Major, minor or electives	20 credits
Mathematics/Science core option	5 credits
Philosophy 110, 220	10 credits

Junior year

Education 15 credits
Major, minor or electives 29 credits
Philosophy core option 5 credits

Senior year

Education 445 15 credits
Major, minor or electives 20 credits
Theology core options 10 credits

Total 190 credits

Masters Program in Curriculum and Instruction with Emphasis in Physical Education

Joseph T. Page, Ph.D., Chairman

**Typical Program—45-Hour Plan
Required Courses:**

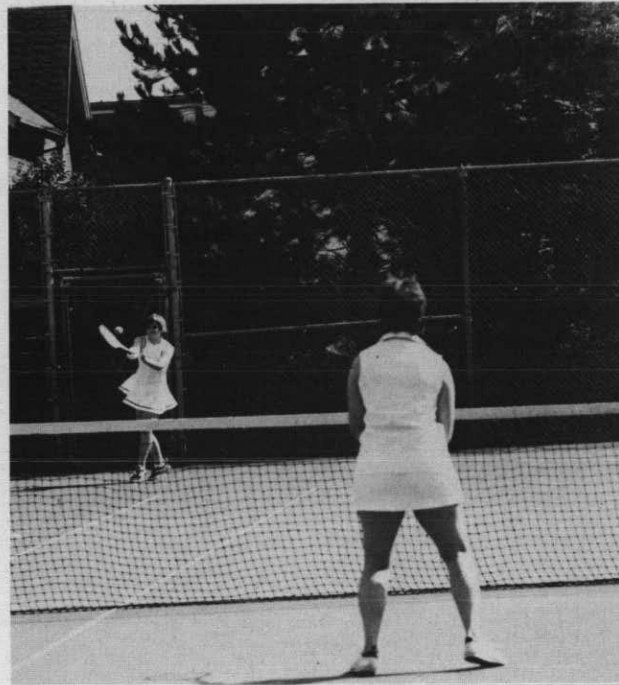
1. Ed 500 — Introduction to Research and Graduate Study
2. **One of:** Ed 501—Philosophy of Education
Ed 502—History of Education
Ed 503—Comparative Education
3. Ed 540 — Fundamentals of Curriculum Development
4. **One of:** Ed 522—Child Psychology—Learning
Ed 523—Adolescent Psychology

Typical Major Courses:

5. Ed 530 or 531*—Seminar in Curriculum Design
 6. Ed 536—Supervision of Instruction
 7. Ed 537*—Curriculum Independent Study
 8. Ed 541, 542, or 543—Curriculum Seminar
 9. Ed 539*—Curriculum Graduate Project
- * Study and research in these courses can be oriented toward Physical Education.

Physical Education Emphasis:

10. PE 480—Current Issues in Physical Education
11. PE 500—Administrative Process in Physical Education
12. PE 550—Practicum Experience in Physical Education
- 13-15. Three Selected From:
PE 482—Historical Foundations of Physical Education
PE 484—The Drug Scene



- PE 486—Women in Sport
- PE 488—Sports and American Culture
- PE 410—Perceptual Motor Development
- PE 525—Seminar: Motor Learning

Health and Physical Education Courses

Basic instructional courses in activities indicated are designed to meet the physical and recreational needs of college men and women.

PE 120	Badminton	1 credit
PE 121	Bowling	1 credit
PE 122	Golf	1 credit
PE 123	Gymnastics	1 credit
PE 124	Swimming	1 credit
PE 125	Tennis	1 credit
PE 126	Volleyball	1 credit
PE 129	Skiing	1 credit
PE 130	Paddle Sports	1 credit
PE 131	Archery	1 credit
PE 132	Handball—Squash	1 credit
PE 135	Fencing	1 credit
PE 138	Conditioning	1 credit
PE 139	Basketball—Men	1 credit



PE 140	Soccer—Men	1 credit
PE 142	Developmental Physical Education—Men	1 credit
PE 143	Modern Dance	1 credit
PE 146	Scuba Diving	1 credit
PE 147	Folk-Square Dance	1 credit
PE 148	Self-Defense—Men and Women	1 credit
PE 149	Synchronized Swimming	1 credit
PE 152	Golf-Intermediate and Advanced	1 credit
PE 153	Gymnastics — Intermediate and Advanced	1 credit
PE 154	Swimming — Intermediate and Advanced	1 credit
PE 155	Fencing — Intermediate and Advanced	1 credit
PE 200	Personal and Community Health	5 credits
	Comprehensive course covering all basic aspects of health education; personal health problems; school health programs; community health agencies and problems. (spring)	
PE 210	Anatomy and Kinesiology	5 credits
	Foundation science course combining structure with function. Emphasis on muscular, circulatory and cardio-respiratory bodily systems. (spring)	
PE 220	Physiology of Exercise	5 credits
	Study of physical changes as the result of muscular activity; the muscular, circulatory and cardio-respiratory systems. Prerequisite: BI 200. (winter)	

PE 230 Instructor-Standard First Aid and Personal Safety **3 credits**
 Skills, knowledge, teaching methods. American Red Cross standards and certification. (winter)

Major Activities: Concentrated study of skills, techniques, and teaching methodologies pertinent to elementary and secondary physical education activities.

PE 250	Major Activities I	5 credits
	Badminton, Volleyball, Golf and Tennis	
PE 251	Major Activities II	5 credits
	Movement Exploration, Gymnastics	
PE 252	Major Activities III	5 credits
	Track, Soccer, Football and Speedball	
PE 253	Major Activities IV	5 credits
	Wrestling and Weight Training, Baseball, Basketball	
PE 254	Major Activities V	5 credits
	Folk-Square Dancing, Bowling and Archery	
PE 255	Major Activities VI	5 credits
	Swimming, Life Saving, WSI	
PE 256	Major Activities VII	5 credits
	Basketball - Women, Track and Field	
PE 257	Major Activities VIII	5 credits
	Recreational Games	
PE 258	Major Activities IX	5 credits
	Field Sports - Women	
PE 291	Special Topics	1-5 credits
PE 292	Special Topics	1-5 credits
PE 293	Special Topics	1-5 credits
PE 320	Care and Prevention of Athletic Injuries	4 credits
	Common athletic injuries and problems with emphasis on prevention. Includes pre and post injury care, such as taping and conditioning. (spring)	
PE 330	Test and Measurements in Physical Education	3 credits
	Utilization of available testing procedures in physical education; evaluation of student achievement in terms of objectives. Includes statistical analysis of data. (winter)	
PE 350	Principles and Practices in Physical Education	5 credits
	Concentrated analysis and study of the foundational principles of physical education. Application of these principles to problems in curriculum, methodology, administration and evaluation. (fall)	
PE 352	Orientation to Health and Physical Education — Elementary	3 credits
	Curriculum purposes, procedures and techniques, includes legal liability, evaluation. Required of all elementary education majors. (fall, winter, spring, summer)	

PE 353 Orientation to Health and Physical Education — Secondary **3 credits**
Objectives, content services and relationship to the total school program. Required of secondary education majors. (fall, winter, spring)

PE 398 Modern Dance **2 credits**
Activity courses for physical education majors only. (winter)

PE 408 Officiating of Women's Sports **3 credits**
Philosophy and techniques applicable to girls' and women's sports in schools and colleges. (fall)

PE 409 Psychology of Coaching **5 credits**
Principles and practices applicable to the coaching of sports on any level of learning. Empirical theories resulting from observations of coaches in the handling of youth who are qualifying for school teams. (fall, summer)

PE 410 Perceptual Motor Development **3 credits**
Principles of perceptual motor development and their application in the education of the exceptional child. (spring)

PE 420 Elementary Physical Education Workshop **5 credits**
Improving the classroom teacher's background in physical education through basic movement skills and rhythmic activities. (summer)

PE 460 Organization and Administration of Physical Education **5 credits**
Summary professional course in physical education; includes service, intramural and inter-scholastic programs; stresses curriculum, scheduling, facilities. Prerequisites: Upper division standing and departmental approval. (fall)

Coaching Courses: Concentrated study of the philosophy, practice, organization, theory and techniques of coaching interscholastic athletics.

PE 470 Football Coaching	2 credits
PE 471 Basketball Coaching	2 credits
PE 472 Baseball Coaching	2 credits
PE 473 Track and Field Coaching	2 credits
PE 474 Gymnastics Coaching	2 credits
PE 475 Wrestling Coaching	2 credits
PE 476 Swimming Coaching	2 credits
PE 477 Golf Coaching	1 credit
PE 478 Tennis Coaching	1 credit

PE 480 Current Issues in Physical Education **3 credits**
Trends and factors influencing physical education and other movement-oriented programs; implications for meeting student and community needs in implementing relevant programs in schools and colleges.

PE 482 Historical Foundations of Physical Education **3 credits**
Traces the historical development of physical education and athletics from the early societies to modern culture. Emphasis on current applications.



PE 484 The Drug Scene **3 credits**
A survey of the misuse and abuse of licit and illicit drugs. Scientific information for concerned school personnel presented by professional people working with drug problems and users.

PE 486 Women in Sport **3 credits**
A historical, sociological and biophysical approach to women in sport with emphasis on concepts, impacts and implications related to American and World culture, past, present, and future.

PE 488 Seminar: Sports and American Culture **3 credits**
Reviews development and purposes of intercollegiate, interscholastic and professional sports. Focuses on issues, problems, opportunities and challenges, particularly for minorities.

PE 491 Special Topics **1-5 credits**
(fall, winter, spring, summer)

PE 498 Independent Study **1-5 credits**

PE 500 Administrative Process in Physical Education **3 credits**
Organizational patterns of physical education in secondary and higher education. Stress on management processes and techniques essential administrative action. Prerequisite: Permission of instructor.

PE 525 Seminar: Motor Learning **3 credits**
Exploration of theories of Human Motor Learning, motor-learning models and research relating to learning of perceptual motor skills. Prerequisite: Perceptual Motor Development or equivalent.

PE 550 Practicum Experience in Physical Education **3 credits**
Selected individual responsibilities with youth groups ranging from pre-school to University population. Prerequisite: Permission of Instructor.



The foundations for the School of Nursing started in 1931 when a two-year program was established in connection with Seattle's Providence Hospital. The Seattle College School of Nursing was established in 1940 and, in 1948, became the Seattle University School of Nursing.

SCHOOL OF NURSING
Eileen M. Ridgway, Ph.D., Dean





School of Nursing

Professor:

Eileen M. Ridgway

Associate Professors:

Mary C. Bartholet
N. Jean Bushman
Janet M. Claypool
Rosario De Gracia
Patricia A. Ferris
Helon Hewitt
Dolly Ito

Assistant Professors:

Verelle M. Davis
Jane P. LaFargue
Anna Marie Payne
Kathleen M. Treseler

Instructors:

Shirley M. Hanson
Sue B. Jackson
Nancy K. Mauss
Gail Nank
Sue Ellen Ries

Objectives

The aim of Seattle University's School of Nursing is to provide the educational preparation for the professional nurse who appreciates both the heritage and responsibilities in nursing and her role in the community; is able to apply to patient care the basic concepts and principles from the humanities, the natural and social sciences; upholds the ethical principles of Christianity; and is able to assume nursing responsibility for the promotion, maintenance and restoration of health.

Accreditation

National League for Nursing
Washington State Board for Nursing

Organization

The School of Nursing is formally organized within the University structure and is under the direction of its own dean. The School is a distinct and independent degree recommending unit, offering an undergraduate program in nursing.

Admission Requirements

All entering freshmen, transfer students from accredited institutions of higher learning and registered nurses who wish to complete requirements for the Bachelor of Science degree in Nursing must meet University entrance requirements described in the admissions section of this bulletin. Chemistry is the required laboratory science for entering freshmen. Additional requirements for registered nurses are:

Graduation from an approved school of professional nursing.

Current nursing licensure in the State of Washington

Report of complete physical examination within six months before entrance

Recommendation from the Director of the Nursing Program and from previous employer

Degree Offered

Bachelor of Science in Nursing

Curriculum

The baccalaureate degree program is designed for high school graduates, transfer students and registered nurses who wish to complete requirements for the degree. The program is planned to provide the student with a foundation in the liberal arts and nursing, to stimulate students to assume responsibility for self-directed learning and professional development, and as a basis for graduate education and research.

The professional portion of the curriculum includes study of man with a variety of health problems requiring different modalities of care with a focus on the individual, the family and the community.

Clinical experience is provided through cooperating teaching units which include Children's Orthopedic Hospital and Medical center; Group Health Cooperative; Northgate Clinics; Marycrest Villa; the Mason Clinic; Northwest Hospital; Overlake Memorial Hospital; Providence Hospital; Seattle King County Health Department; Seattle King County Visiting Nurse Service; United States Public Health Service Hospital; Veterans Administration Hospital, and selected health agencies.

General Program Requirements

Students in the School of Nursing must satisfy core curriculum requirements of the University given on page 24 of this bulletin. For additional required sequences see the program of study which follows.

A cumulative academic grade point average of 2.50 or above from high school or another college or university is required for admission into the School of Nursing.

A student in the School of Nursing must have achieved a cumulative grade point average of 2.50 or above by the end of the sophomore year, and a grade of C or above in the Nursing courses, for approval to proceed into the upper division nursing courses. The academic and clinical performances of each nursing student are evaluated at the end of each year to determine progression in the program. Specific requirements for progression may be obtained from faculty adviser.

Students are responsible for the expenses of the annual physical examination and health assessment, uniforms, and transportation costs to, from and while in cooperating teaching units. A current driver's license

and car covered by insurance as prescribed by state law are recommended for all clinical courses. Professional liability insurance is required for clinical nursing courses. It is strongly recommended that students have adequate health insurance coverage.

Bachelor of Science in Nursing

Freshman year

Chemistry 101, 102	10 credits
English 100 and core option	10 credits
History core option	10 credits
Philosophy 110	5 credits
Social Science core options	5 credits
Speech 201	5 credits

Sophomore year

Biology 200, 210, 220	15 credits
Nursing 205, 206, 300	15 credits
Philosophy 220	5 credits
Psychology 322	5 credits
Theology core option	5 credits

Junior year

Nursing 312, 314, 316, 330, 332, 335, 337, 340, 341	45 credits
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Senior year

Nursing 406, 407, 426, 427, 478	25 credits
Philosophy core option	5 credits
Theology core option	5 credits
Electives	10 credits

Total 180 credits





Nursing Courses

- N 205 Basic Nursing I 5 credits**
N 206 Basic Nursing II 5 credits
 Introduction to the scope of nursing practice and role of the nurse in a variety of settings. Utilizing the nursing process, man's health and needs as a consumer of health services are analyzed. Assessment and psychomotor skills to promote safety and comfort are demonstrated. Supervised practice in simulated laboratory settings; and in a variety of health care settings. Principles of pharmacology and drug therapy are integrated.
- N 300 Pathophysiology 5 credits**
 Study of the functional changes of the body which accompany illness and form the basis for nursing intervention.
- N 312 Health Appraisal 5 credits**
 Basic techniques and skills necessary to assess and describe a person's health state. It draws from a growth and development framework to help understand physiological and behavioral assessment. Beginning competency in the measurement of major physiologic parameters is expected. Practice in taking a nursing history and in health assessment is provided.
- N 314 Mental Health Concepts 5 credits**
 Concepts basic to assisting self and others to cope with reactions to the stress of illness; Organized around behavioral science principles which promote the nursing skills necessary for developing the inherent capabilities of the student and the patient.
- N 316 Contemporary Nursing Issues 5 credits**
 Combines a study of the major legal, ethical and professional issues confronting the nurse with such concepts as power, authority and responsibilities in present and emerging health care patterns. The nurse's role as a client advocate to promote effective delivery of health care is emphasized.



- N 330 Medical-Surgical Nursing I 3 credits**
- N 332 Medical-Surgical Nursing II 3 credits**
Nursing problems associated with physiological dysfunctions at various ages; organized around the nursing care necessary to assist individuals to regain health or adapt to chronic illness.
- N 335 Nursing Care of Children 7 credits**
Experiences are arranged in a variety of settings, selected to provide opportunities to apply concepts and principles from theory courses.
- N 337 Nursing Care of Adults 7 credits**
Experiences are arranged in a variety of settings, selected to provide opportunities to apply concepts and principles from theory courses.
- N 340 Maternal-Child Nursing I 4 credits**
- N 341 Practicum in Maternal-Child Nursing I 6 credits**
Study of the family in all phases of the reproductive cycle incorporating the growth and development continuum to include mothers, infants and well-children. Health supervision is emphasized. Selected experience in observing and caring for mothers, infants and well-children in a variety of settings, including hospital maternity services, clinics and community agencies serving families.
- N 406 Psychiatric Nursing 4 credits**
- N 407 Practicum in Psychiatric Nursing 6 credits**
Study of psychological and psychiatric nursing principles which can be applied to the nursing care of emotionally disturbed individuals in a variety of settings. The emphasis is on the promotion of mental

health as well as the provision for nursing care of the mentally ill, both acute and chronic. Clinical practice is planned to promote the application of these concepts in a manner which facilitates growth and constructive problem solving in both patient and student.

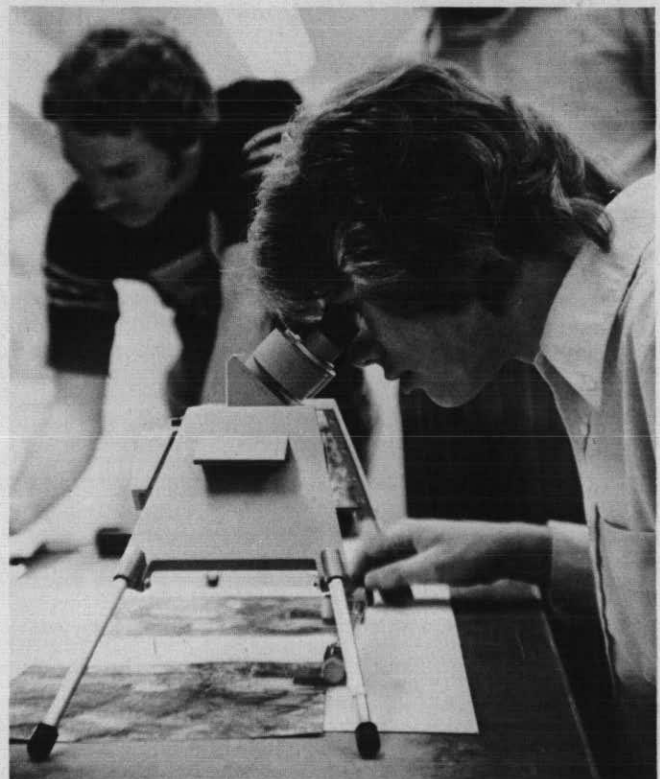
- N 426 Community Nursing 5 credits**
- N 427 Practicum in Community Nursing 8 credits**
Study of the dynamics of individual families and the larger social system. Includes an emphasis on the helping process with people who are experiencing predicaments in living. Each student involves self with one or two families from the community and with a group of patients from either an acute care or extended care facility. In all settings skill in working with patients and collaborating with other health personnel is stressed. A community assessment is expected from one of the clinical experiences.
- N 428 Leadership and Management in Nursing 2 credits**
The study of theories and function of management and of leadership roles in providing nursing care for groups of patients in a variety of settings.
- N 490 Independent Study 2-5 credits**
Prerequisite: Senior status and permission required.
- N 492 Special Topics 1-5 credits**
- N 493 Special Topics 1-5 credits**
- N 499 Independent Study 2-5 credits**





The School of Engineering was established in 1941 and, in the same year, the Seattle Transit Company car barn, which adjoined the campus, was acquired by the School for use as laboratory facilities.

SCHOOL OF SCIENCE AND ENGINEERING
Gary A. Zimmerman, Ph.D., Dean





School of Science and Engineering

Objectives

The programs of the School of Science and Engineering seek to combine a liberal education with preparation for a professional career or graduate school in one of the sciences, mathematics or engineering. More generalized programs are offered for those students who wish a strong scientific or engineering background as part of a liberal education.

Accreditation

Northwest Association of Secondary and Higher Schools

American Chemical Society

Engineering Council for Professional Development

American Medical Association

American Society of Clinical Pathologists

American Medical Record Association

Organization

The School of Science and Engineering offers programs in Biology, Chemistry, Clinical Chemistry, Environmental Studies, General Science, Health Information Services, Mathematics, Medical Technology, Physics, and in Civil, Electrical and Mechanical Engineering. Students interested in other scientific, technical, and health-related careers, such as medicine or dentistry, may enroll for suitable pre-professional programs prior to transfer to the appropriate professional training center.

Admission Requirements

Students entering the School must satisfy all entrance requirements for the University as outlined in the Admission section of this bulletin. In addition, some departments list further requirements for admission into certain major programs.

Degrees Offered

Bachelor of Arts with a major in Biology, Chemistry, Mathematics or Physics

Bachelor of Science with a major in Biology, Mathematics or Physics

Bachelor of Science in Biology, Chemistry, Clinical Chemistry, General Science, Mathematics, Medical Technology or Physics

Bachelor of Health Information Services

Bachelor of Engineering

Bachelor of Civil Engineering

Bachelor of Electrical Engineering

Bachelor of Mechanical Engineering

Co-Operative Work Study Program

Students in good standing may elect to enter the co-operative work study program. Such students will take a reduced academic schedule each quarter, but will attend school eleven months a year (all regular quarters plus summer quarter). The University will assist such students in finding suitable paid industrial employment on an approximately half-time basis. The employment is selected for its educational value as well as financial remuneration.

Students who enter the program at the earliest possible point (summer after the freshman year) and follow it regularly will graduate at the same time as if they had not taken the program, but will have over one year of industrial experience upon graduation.

General Program Requirements

Students seeking the Bachelor's degree in the School of Science and Engineering must complete 180 credits, including the University core requirements shown on page 24 of this bulletin. The history and social science core requirements have been modified for several of the more technical degrees, as described in the individual departmental sections of this bulletin. Students also must complete the specific departmental requirements for their particular degree.



Biology

Lewis E. Aldrich, Jr., Ph.D., Chairman

Professors:

Eugene A. Healy, S.J.
George Santisteban
Leo A. Schmid, S.J. (Emeritus)

Associate Professors:

Lewis E. Aldrich, Jr.
Paul P. Cook, Jr.
George D. Davis

Assistant Professor:

Margaret L. Hudson

Objectives

The programs in the department are designed to provide a liberal education and to prepare a student for graduate studies or for professional work in basic and applied biology.

Degrees Offered

Bachelor of Arts
Bachelor of Science
Bachelor of Science in Biology

General Program Requirements

Students in biology must satisfy the core curriculum requirements of the University as given on page 24 of this bulletin for English, philosophy and theology and religious studies. Core requirements for history and social science are as follows: for the Bachelor of Arts degree, 20 credits in history or social science, including Psychology 100; Bachelor of Science degree, 15 credits in history or social science; and Bachelor of Science in Biology degree, 10 credits in history or social science.

Departmental Requirements

Bachelor of Arts — 50 credits of biology which must include BI 160, 170 and 171 with additional credits, which must include at least one credit of Seminar (three credits is the maximum that can be applied toward the degree), selected in consultation with the biology adviser; and 25 credits of chemistry. A year of physics and a course in calculus are recommended.

Bachelor of Science — 60 credits of biology which must include BI 160, 170, and 171 and at least one seminar credit; 30 credits of mathematics or science electives.

Bachelor of Science in Biology — 60 credits of biology which must include BI 160, 170 and 171; at least 30 credits of biology courses at the 300-499 level; additional credits in consultation with the biology adviser, which must include at least one credit of Seminar (three credits is the maximum that can be applied toward the degree). Also required are 25 credits of chemistry; 15 credits of physics; reading knowledge of a modern language (equivalent to 106, as determined by examination); Psy 100 and Mt 112. Additional courses in biology, calculus, biochemistry and statistics are recommended. Students with 3 units of high school chemistry may elect to begin their chemistry sequence during the freshman year.

Teaching Major (School of Education) — Secondary: 45 credits in biology which must include BI 160, 170 and 171 and 30 credits of approved electives. **Elementary:** 25 credits in biology which must include BI 160, 170, 171, 370, 371 and 275.

Undergraduate Minor — 30 credits of biology selected at direction of a biology adviser.

Bachelor of Arts

Freshman year

Biology 160, 170, 171	15 credits
English 100 and core option	10 credits
Mathematics 112	5 credits
Philosophy 110, 220	10 credits
Psychology 100	5 credits

Sophomore year

Biology electives	15 credits
Chemistry 114, 115, 116	15 credits
History or Social Science core options	10 credits
Philosophy core option	5 credits

Junior year

Biology electives	10 credits
Chemistry 235, 236	10 credits
Social Science or History core option	5 credits
Theology core options	10 credits
Electives	10 credits

Senior year

Biology electives	10 credits
Electives	35 credits

Total 180 credits

Bachelor of Science

Freshman year

Biology 160, 170, 171	15 credits
English 100 and core option	10 credits
Philosophy 110, 220	10 credits
Mathematics or science electives	10 credits

Sophomore year

Biology electives	15 credits
History or Social Science core options	15 credits
Science or mathematics electives	10 credits
Philosophy elective	5 credits

Junior year

Biology electives	15 credits
Science or mathematics electives	10 credits
Theology core options	10 credits
Electives	10 credits

Senior year

Biology electives	15 credits
Electives	30 credits

Total 180 credits

Bachelor of Science in Biology

Freshman year

Biology 160, 170, 171	15 credits
English 100 and core option	10 credits
Mathematics 112	5 credits
Modern Language 105, 106	10 credits
Electives	5 credits

Sophomore year

Biology electives	15 credits
Chemistry 114, 115, 116	15 credits
History or Social Science core options	10 credits
Psychology 100	5 credits

Junior year

Biology electives	15 credits
Chemistry 235, 236	10 credits
Philosophy 110, 220 and core option	15 credits
Theology core option	5 credits

Senior year

Biology electives	15 credits
Physics 105, 106, 107	15 credits
Theology core option	5 credits
Electives	10 credits

Total 180 credits

Biology Courses

BI 101 Life Science 5 credits
Important areas of biology, beginning at the cellular level and culminating with a consideration of interactions and changes in natural populations. Five lecture hours per week. (spring)

BI 160 General Botany 5 credits
Structure, function, taxonomy and ecology of plants. Three lecture and four laboratory hours per week. (spring)

BI 170 General Zoology I 5 credits
BI 171 General Zoology II 5 credits
A two quarter, sequential introduction to the animal kingdom. Examples of the phyla and major classes will be examined, with special attention to those types which best illustrate animal activities and relationships. Prerequisite: 170 for 171. (I-fall, II-winter)

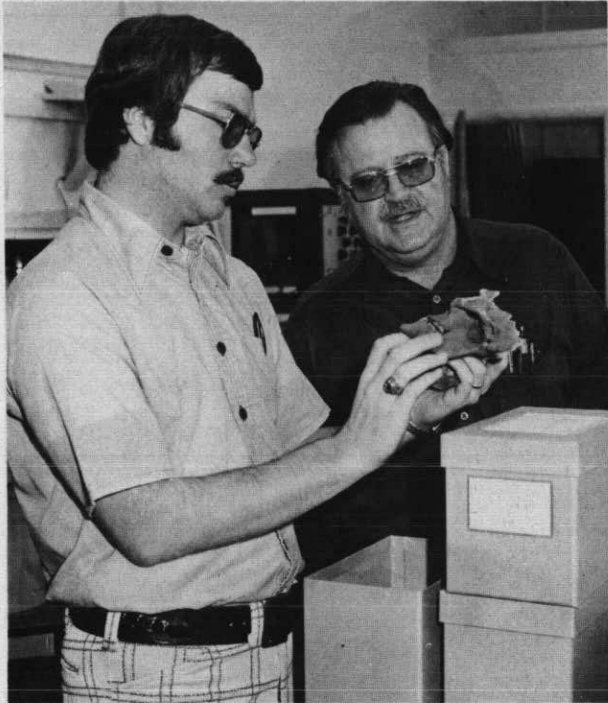
BI 180 Human Genetics 5 credits
The pattern of biological inheritance in man. Credits not applicable for biology major. (summer)

BI 190 Principles of Physical Anthropology 5 credits
The evidence for primate evolution from the fossil record and from the morphological, physiological, genetic and behavioral variability of living primate forms. Relationships of human genetics to the evolution of modern populations is also presented. Two 3 hour lecture-laboratory sessions per week. (fall)

BI 200 Anatomy 5 credits
Structure of the human organism. Credits not applicable for biology major. Three lecture and four laboratory hours per week. (fall)

BI 205 Biophysical Principles 5 credits
Lecture and laboratory method to show the inter-relationships between biology, earth science and physical science as applied to the teaching of elementary level science. Credits not applicable for biology major. Three lecture and four laboratory hours per week. (fall, winter)

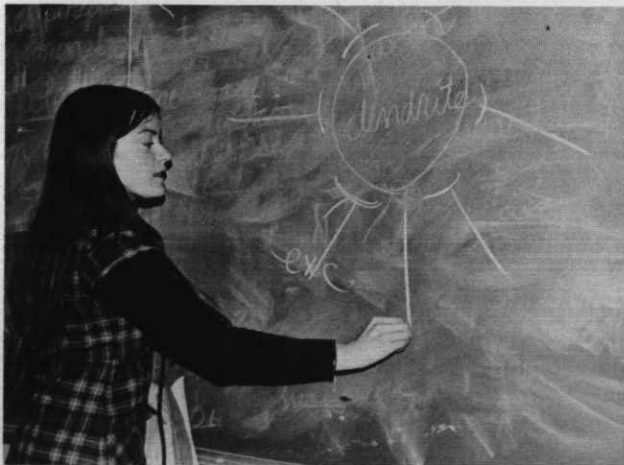
BI 210 Physiology 5 credits
Functions of the human organism. Three lecture and four laboratory hours per week. Credits not applicable for biology major. Prerequisite: BI 200. (winter)



- BI 220 Microbiology 5 credits**
Introduction to medical microbiology. Three lecture and four laboratory hours per week. Credits not applicable for biology major. (spring)
- BI 231 Invertebrate Zoology I 5 credits**
BI 232 Invertebrate Zoology II 5 credits
I. Integrated study of the anatomy, morphology, taxonomy, natural history and ecology of invertebrate phyla from protozoa through the pseudocoelomate minor phyla. II. The coelomate phyla. Three lecture and four laboratory hours per week. Prerequisite: BI 171, 231 for 232. (I-fall, II-winter)
- BI 241 Vertebrate Zoology 5 credits**
Structure, physiology, ecology and behavior of Hemichordata and Chordata. Three lecture and four laboratory hours per week. Prerequisite: BI 171. (fall)
- BI 251 Plant Morphology 5 credits**
Study of plant form, structure and development. Three lecture and four laboratory hours per week. Prerequisite: BI 160 (spring, 1977)
- BI 252 Taxonomy of Flowering Plants 5 credits**
Native flora as an introduction to taxonomy, involving the principal orders and families of flower-plants. Three lecture and four laboratory hours per week. Prerequisite: BI 160. (spring, 1975)
- BI 270 Human Structure and Function I 5 credits**
BI 271 Human Structure and Function II 5 credits
I. Integrated study of the microscopic and gross structure and of the functions of the human organism; basic tissues, skeletal, muscular, nervous, circulatory and respiratory systems. II. Digestion and metabolism, the excretory, endocrine and reproductive systems. Introduction to regional anatomy. Prerequisites: BI 171, Ch 101, 102 for 270; 270 for 271. Students with credit in BI 200 and 210 may not receive credit for 270 and 271. (I-fall, II-winter)

- BI 275 General Physiology 5 credits**
Chemical and physical processes inherent in living organisms. Three lecture and four laboratory hours per week. Prerequisite: BI 171 or permission. (fall)
- BI 280 Cell Physiology 5 credits**
Fundamental life processes in plant and animal cells. Three lecture and four laboratory hours per week. Prerequisite: BI 275. (winter)
- BI 291 Special Topics in Biology 1-5 credits**
BI 292 Special Topics in Biology 1-5 credits
BI 293 Special Topics in Biology 1-5 credits
Directed reading and/or lectures and/or laboratories on topics at the lower division level. Prerequisite: Permission of instructor. (fall, winter, spring)
- BI 300 Microbiology 5 credits**
Morphology, physiology and distribution of micro-organisms. Three lecture and four laboratory hours per week. Prerequisite: Permission of instructor. (winter)
- BI 301 Modern Biology for Teachers 5 credits**
Principles and concepts in modern biology structured to fit the classroom environment for teachers, grades 1 through 12. Lectures and demonstrations geared to the everyday problems of the classroom teacher. (summer)
- BI 310 Comparative Vertebrate Embryology 5 credits**
Early development of the frog and chick with consideration of the early development of the human. Three lecture and four laboratory hours per week. Prerequisites: BI 171.
- BI 315 Bioethics 5 credits**
In-depth look at the problems created by a vast and highly complex technological society. Directed toward questions for which solutions are currently being sought. Lectures, discussions and directed readings. (summer)
- BI 321 Vertebrate Natural History 5 credits**
Ecology, behavior, life history and taxonomy of vertebrate animals, with emphasis on those in the Pacific Northwest. Three lecture and four laboratory hours per week. Prerequisite: BI 171. (spring)
- BI 325 History of Biology 5 credits**
Consideration of the development of biology from its philosophical origins to the present systems of scientific technologies. Human development, historical relationships of biology and man.
- BI 326 Comparative Anatomy of the Vertebrates I 5 credits**
BI 327 Comparative Anatomy of the Vertebrates II 5 credits
I. Comparative study of the skin, skeletal system and muscular systems of selected vertebrates. II. Comparative study of the digestive system, respiratory system, excretory and reproductive systems, circulatory system, nervous system and sense organs of selected vertebrates. Three lecture and four laboratory hours per week. Prerequisite: BI 171. (I-winter, II-spring)
- BI 330 Comparative Vertebrate Histology 5 credits**
Study of fundamental body tissues. Three lecture and four laboratory hours per week. Prerequisite: Permission of instructor. (spring)

- BI 340 Microtechnique** 3 credits
Preparation of slides of animal tissue by the paraffin method; techniques of staining procedures. One lecture and four laboratory hours per week. Prerequisite: BI 330 or concurrently.
- BI 350 Genetics** 5 credits
Classical and molecular principles of heredity. Four lecture and two laboratory hours per week. Prerequisite: One year of Biology. (winter)
- BI 352 Biophysical Chemistry** 5 credits
Application of the principles of physical chemistry, thermodynamics, kinetics, structure and radioactivity to topics of biological interest. Four lectures and three laboratory hours per week. Prerequisite: Ch 219, or permission of instructor. (spring)
- BI 360 Parasitology** 5 credits
Study of parasitic protozoa, helminths and arthropods. Three lecture and four laboratory hours per week. Prerequisite: BI 171; Recommended: BI 232. (spring, 1977)
- BI 365 Introduction to Oceanography** 5 credits
A nontechnical course designed to give a broad general background, and to demonstrate the relationship between this field and others. Prerequisite: Sophomore standing. (fall)
- BI 370 Population Biology: Ecology** 3 credits
Study of ecology and evolution with emphasis on population ecology. Three lecture hours per week. Prerequisites: BI 171 and permission of instructor. (winter)
- BI 371 Field Ecology** 2 credits
Techniques used in ecological research and analysis. Three weekend field trips. Prerequisite: Permission of instructor and BI 171. (spring)
- BI 375 Marine Biology** 5 credits
Study of the marine environment and the animals and plants inhabiting it. Three lecture and four laboratory hours per week. Prerequisites: BI 232. (spring, 1976)
- BI 430 Endocrinology** 4 credits
Structure and function of the glands of internal secretion of vertebrates. Prerequisite: Advanced standing in biology and Ch 236. (fall, 1977)



- BI 435 Comparative Neurology** 4 credits
Study of the phylogenetic history of the central nervous systems. Prerequisite: BI 310 or 326.
- BI 440 Neurobiology** 5 credits
Principal pathways of the vertebrate nervous system including a gross and microscopic study of the human brain and spinal cord. Three lecture and four laboratory hours per week. Prerequisites: BI 200, 210 or 270, 271 or 310 or 326. Permission of instructor. (fall, 1976)
- BI 450 Advanced Invertebrate Zoology** 5 credits
Advanced studies of the invertebrate phyla. Three lecture and four laboratory hours per week. Prerequisites: BI 231, 232.
- BI 455 Biochemistry** 5 credits
Composition and metabolism of carbohydrates, lipids, proteins, enzymes and body fluids. Prerequisite: Ch 236. (spring)
- BI 460 Limnology** 5 credits
Study of freshwater systems and the plants and animals inhabiting them, with emphasis on the invertebrate animals. Three lecture and four laboratory hours per week. Prerequisite: BI 171; recommended: BI 470. (fall, 1976)
- BI 465 Population Biology: Evolution** 4 credits
Study of ecology, population genetics and evolution, with emphasis on evolution. Four lecture hours per week. Prerequisite: one year of Biology; recommended BI 350. (spring)
- BI 470 Entomology** 5 credits
Structure, function, classification, ecology, behavior and economic importance of insects. Three lecture and four laboratory hours per week. Prerequisite: BI 171. (fall, 1977)
- BI 480 Nuclear Medical Technology Internship I** 15 credits
- BI 481 Nuclear Medical Technology Internship II** 15 credits
- BI 482 Nuclear Medical Technology Internship III** 15 credits
Clinical practicum for nuclear medical technology. Prerequisite; Permission of the Medical Technology Program Director. (fall, winter, spring)
- BI 491 Special Topics in Biology** 1-5 credits
- BI 492 Special Topics in Biology** 1-5 credits
- BI 493 Special Topics in Biology** 1-5 credits
Directed reading and/or lectures and/or laboratories on topics at the advanced undergraduate level. Prerequisite: Permission of instructor. (fall, winter, spring)
- BI 494 Seminar** 1 credit
- BI 495 Seminar** 1 credit
- BI 496 Seminar** 1 credit
Problems in modern biology. Prerequisite: Permission of instructor. (fall, winter, spring)
- BI 497 Research** 1-5 credits
- BI 498 Research** 1-5 credits
- BI 499 Research** 1-5 credits
Literature and laboratory investigation of a basic research problem. Preparation of a written report. Prerequisite: Permission of instructor. (fall, winter, spring)



Chemistry

Vincent S. Podbielancik, Ph.D., Chairman

Professors:

Ernest P. Bertin, S.J.
Donald C. Malins (Research)
David H. Read
Bernard M. Steckler
Usha Varanasi (Research)

Associate Professor:

Gary A. Zimmerman

Assistant Professor:

David L. Thorsell

Objectives

Programs offered by the Chemistry department are designed to prepare the student for professional work in the various fields of basic and applied chemistry. The Bachelor of Science in Chemistry degree program is recommended to students who wish to prepare themselves for graduate studies in chemistry. By completion of 11 additional credits in chemistry, beyond the minimum requirements for this degree, the student may receive certification of the degree by the Committee on Professional Training of the American Chemical Society.

The Clinical Chemistry degree program is suited to those students interested in a career in the rapidly developing field of clinical chemistry. This degree may also provide adequate preparation for graduate studies in clinical chemistry, biochemistry, or (with additional biology) medicine or dentistry.

The Bachelor of Arts degree is recommended for those desiring a solid foundation in chemistry but with greater freedom of choice for elective courses from programs such as education, business, engineering or other fields within the University.

Degrees Offered

Bachelor of Arts
Bachelor of Science in Chemistry
Bachelor of Science in Clinical Chemistry

General Program Requirements

Students in chemistry must satisfy the core requirements of the University given on page 24 of this Bulletin for English, philosophy and theology and religious studies. Core requirements for history and social science are as follows: Bachelor of Arts degree, 10 credits in history and 10 credits in social science; Bachelor of Science in Chemistry degree, 10 credits in history or social science; and Bachelor of Science in Clinical Chemistry, 10 credits in history or social science.

Departmental Requirements

Bachelor of Arts—45 credits of chemistry which must include Ch 114, 115, 116, 219, 235, 236 and either 352 or 361, 363 plus electives from the following: Ch 237, 238, 291, 292, 293, 360, 362, 364, 415, 436, 455, 461, 491, 492, 493, 497, 498 and 499. Fifteen credits of mathematics in sequence including calculus. For students interested in biochemistry, the following courses are recommended: BI 170, 171, 275 and 300.

Bachelor of Science in Chemistry—60 credits in chemistry which must include Ch 114, 115, 116, 219, 235, 236, 237, 326, 360, 361, 362, 363, 364, one year of calculus (Mt 134, 135, 136), computer programming (Mt 114), and one year of calculus-based physics. A student is eligible for certification of the degree with the American Chemical Society if Ch 238 and 415 are taken and nine additional credits of advanced work from the following courses: Ch 436, 461, 497, 498, and 499. This certification is recommended for students planning graduate work. The following courses are strongly recommended as electives. Mt 116, Ph 290, Mt 233 and Mt 234.

Bachelor of Science in Clinical Chemistry—65 credits in chemistry which must include Ch 114, 115, 116, 219, 235, 236, 361, 362, 363, 364, 455, 461, 470, 471, 472, 475, 476, 481, 482, 483 and 18 credits in mathematics which must include two quarters of calculus and Mt 114. Recommended electives: Ch 237, 238, 360; BI 280, 300, 330 and 350.

Teaching major (School of Education) — Secondary: 45 hours of chemistry are required which must include Ch 114, 115, 116, 219, 235, 236 and either 352 or 361, 363. Additional courses in physics (Ph 105, 106, 107) a year of college mathematics and courses in biology are highly recommended.

Bachelor of Arts

Freshman year

Chemistry 114, 115, 116	15 credits
English 100 and core option	10 credits
Philosophy 110	5 credits
Electives	15 credits

Sophomore year

Chemistry 219, 235, 236	15 credits
Mathematics 112, 134, 135	15 credits
Philosophy 220 and core option	10 credits
Theology core option	5 credits

Junior year

Chemistry 352 and elective	10 credits
History core options	10 credits
Physics 105, 106, 107	15 credits
Social Science core option	5 credits
Theology core option	5 credits

Senior year

Chemistry elective	5 credits
Social Science core option	5 credits
Electives	35 credits

Total 190 credits

Bachelor of Science in Chemistry

Freshman year

Chemistry 114, 115, 116	15 credits
English 100 and core option	10 credits
Mathematics 134, 135, 136	15 credits
Physics 200	5 credits

Sophomore year

Chemistry 235, 236, 237	13 credits
Mathematics 114	3 credits
Philosophy 110	5 credits
Physics 201, 202	10 credits
Electives	14 credits

Junior year

Chemistry 219, 360, 361, 362, 363, 364	18 credits
History or Social Science	5 credits
Philosophy 220	5 credits
Theology core options	10 credits
Electives	7 credits

Senior year

Chemistry 326	5 credits
History or Social Science	5 credits
Philosophy core option	5 credits
Electives	30 credits

Bachelor of Science in Clinical Chemistry

Freshman year

Biology	5 credits
Chemistry 114, 115, 116	15 credits
English 100 and core option	10 credits
Mathematics 134, 135, 136	15 credits

Sophomore year

Chemistry 235, 236, 455	15 credits
Physics 105, 106, 107	15 credits
Philosophy 110, 220	10 credits
Mathematics 114	3 credits
Elective	2 credits

Junior year

Biology 270, 271	10 credits
Chemistry 219, 361, 362, 363, 364	15 credits
History or Social Science elective	5 credits
Physics 290	5 credits
Theology core options	10 credits

Senior year

Chemistry 461, 470, 471, 472, 475, 476, 481, 482, 483	20 credits
History or Social Science elective	10 credits
Philosophy elective	5 credits
Electives	10 credits

Total 180 credits

Chemistry Courses

Ch 100 Science, Technology and the Quality of Life 5 credits

Study of selected scientific information and the opportunities and responsibilities for its generation and application, selected facts, laws, principles and theories of chemistry and physics that relate to a general understanding of scientific activity; scientific information and technologies that demonstrate the need for public involvement in the conduct of science and technology. Five lectures per week; seminars, papers, individual or group projects. (fall, spring, summer)

Ch 101 Introductory General Chemistry 5 credits

Survey of inorganic chemistry treating the basic principles and descriptive material relevant to the health sciences. Four lecture and three laboratory hours per week. (fall)

Ch 102 Introductory Organic Chemistry 5 credits

Survey of organic and biological chemistry treating the basic principles and descriptive material relevant to the health sciences. Four lecture and three laboratory hours per week. Prerequisite: Ch 101. (winter)

Ch 114 General Inorganic Chemistry I 5 credits

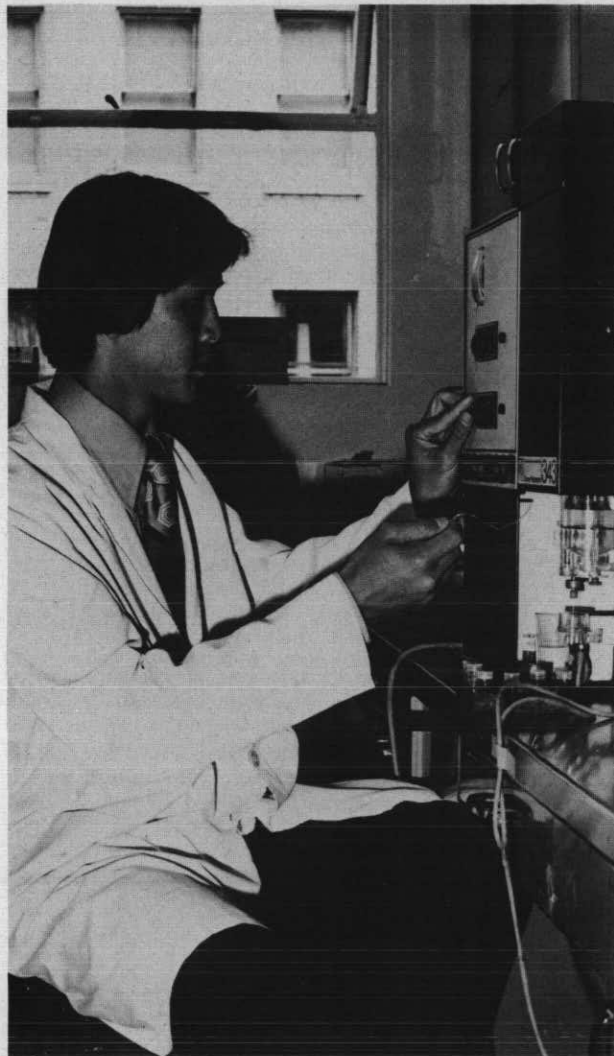
Ch 115 General Inorganic Chemistry II 5 credits

Ch 116 General Inorganic Chemistry III 5 credits

I. Atomic structure, weight relationships, states of matter, solutions. II. Kinetics, chemical equilibrium, electrochemistry, hydrogen, oxygen, water and the nontransition metals. III. Transition metals, carbon compounds and an introduction to the principles of reactions in ionized systems. The laboratory covers elementary qualitative analysis. Three lecture, one quiz and one three-hour laboratory sessions per week for 114 and 115. Four lecture and four laboratory hours per week for 116. Prerequisites: High School chemistry or permission for 114; 114 for 115; 115 for 116. (114, fall, winter; 115, winter, spring; 116, spring)

Ch 219 Quantitative Analysis 5 credits

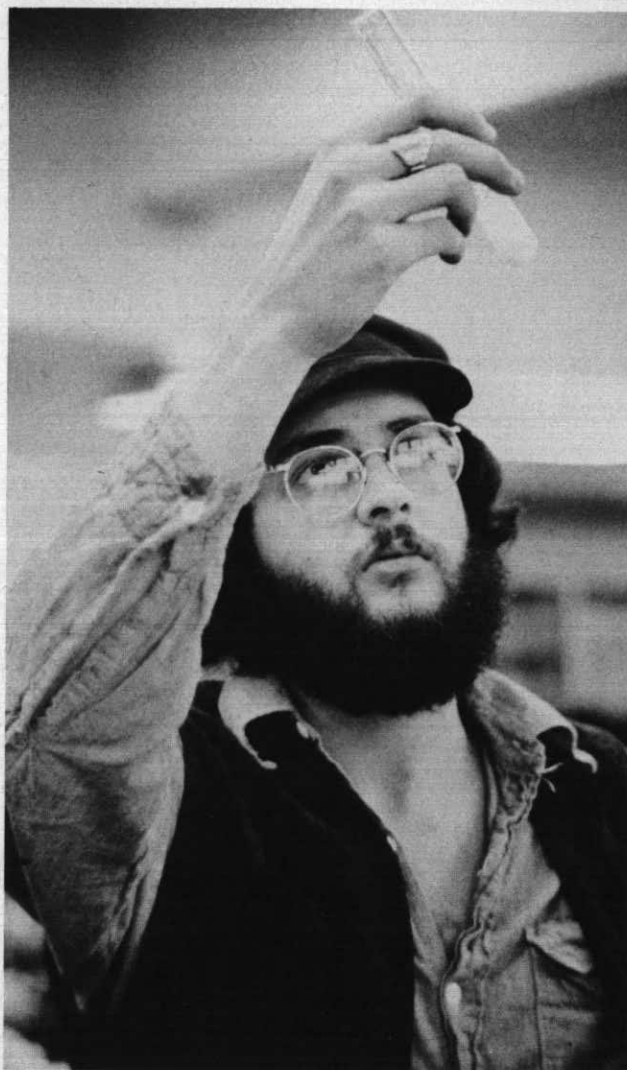
Theory, methods and techniques of gravimetric and volumetric procedures in quantitative analysis. Three lecture and six laboratory hours per week. Prerequisite: Ch 116. (fall)



- Ch 235 Organic Chemistry I 5 credits**
Structural theory; functional groups; nomenclature; structure, properties and reactions of mono-functional organic compounds; stereochemistry; thermodynamic and kinetic aspects of reactions of selected groups; organic reaction mechanisms; theory and practice of laboratory techniques. Four lecture and three laboratory hours per week. Prerequisite: Ch 115. (fall)
- Ch 236 Organic Chemistry II 5 credits**
Properties, reactions and applications of polyfunctional compounds with emphasis on those of biochemical interest—natural products, biopolymers, enzyme chemistry; introduction to organic synthesis; introduction to the literature; laboratory work in functional group reactions, synthesis and thermodynamic and kinetic investigations. Four lecture and three laboratory hours per week. Prerequisite: Ch 235. (winter)
- Ch 237 Organic Chemistry III 3 credits**
Synthesis of organic compounds; synthetic polymers; advanced mechanistic and theoretical concepts; polynuclear aromatic compounds; ultraviolet, visible, infra-red and nuclear magnetic

resonance spectra; laboratory work in problem-oriented, literature-based investigations; practical applications of spectroscopy in laboratory work. Two lecture and three laboratory hours per week. Prerequisite: Ch 236. (spring)

- Ch 238 Qualitative Organic Analysis 3 credits**
Methods of identification of organic compounds as simple and mixed unknowns; preparation of derivatives; discussion and use of modern spectroscopic methods. Six laboratory hours per week, plus discussion of principles. Prerequisite: Ch 236. (spring)
- Ch 291 Special Topics 1-5 credits**
Ch 292 Special Topics 1-5 credits
Ch 293 Special Topics 1-5 credits
Directed reading and/or lectures at a lower division level. Prerequisite: Permission of instructor.
- Ch 324 Analytical Chemistry I 3 credits**
Ch 325 Analytical Chemistry II 5 credits
I. A laboratory course designed to give additional applications of the theory, prediction and control of reactions in ionized systems. Application of these principles to a variety of qualitative analysis problems. Two three-hour laboratory sessions per week. II. Principles and practice of modern methods of quantitative analysis including gravimetric procedures. Three lecture and two three-hour laboratory sessions per week. Prerequisite: Ch 116.
- Ch 326 Instrumental Analysis 5 credits**
Theory and techniques of instrumental methods representative of spectrophotometric electroanalytical and chromatographic techniques. Two four-hour laboratory periods including discussion of principles. Prerequisite: One year of physical chemistry or permission.
- Ch 352 Biophysical Chemistry 5 credits**
Application of the principles of physical chemistry, thermodynamics, kinetics, structure and radioactivity, to topics of biological interest. Four lectures and three laboratory hours per week. Prerequisite: Ch 219, or permission of instructor.
- Ch 360 Physical Chemistry I 3 credits**
Ch 361 Physical Chemistry II 3 credits
Ch 362 Physical Chemistry III 3 credits
I. Quantum chemistry, spectroscopy, photochemistry, and the solid state. II. Gases, thermodynamics, introduction to statistical mechanics, changes of state, solutions. III. Chemical equilibrium, electrochemistry, kinetic molecular theory, reaction kinetics. Three lecture hours per week. I may be taken either before or after II and III. Prerequisites: Ch 116, Mt 135 and one year of physics for 360; Ch 219, Mt 135 and one year of physics for 361; 361 for 362. (I-fall, II-winter, III-spring)
- Ch 363 Physical Chemistry Laboratory I 2 credits**
Ch 364 Physical Chemistry Laboratory II 2 credits
Quantitative measurements of physical chemical phenomena, detailed data analysis, evaluation. Four laboratory hours per week. Ch 361 is a prerequisite or co-requisite for 363; 363 is a prerequisite for 364. (I-winter; II-spring)



- Ch 415 Advanced Inorganic Chemistry 3 credits**
Advanced topics in inorganic chemistry with particular attention to bonding, thermodynamics, spectral and magnetic properties of the transition metals and their compounds, the interesting and unusual chemistry and bonding of boron and its compounds, the electron bond theory of solids, and other selected topics. Prerequisites: Ch 360, 361 or permission.
- Ch 436 Advanced Organic Chemistry 3 credits**
Spectrometric identification of organic compounds: mass spectrometry; nuclear magnetic resonance; infrared; ultraviolet and visible; physical organic treatment of factors influencing evaluation and significance of thermodynamic variables. Directed reading and/or lectures. Prerequisite: One year of physical chemistry or permission.
- Ch 455 Biochemistry 5 credits**
Composition and metabolism of carbohydrates, lipids, proteins, enzymes and body fluids. Four lecture and three laboratory hours per week. Prerequisite: Ch 236 (spring)

Ch 460 Advanced Physical Chemistry 3 credits
Quantum chemistry, vibrational and rotational energies, absorption and emission of radiation, molecular symmetry, group theory, electronic spectra. Prerequisite: One year of physical chemistry.

Ch 461 Radiochemistry 3 credits
Theory of radioactivity, use of radioisotopes in studying chemical reactions and structure. Two lecture and four laboratory hours per week. Prerequisite: One year of physical chemistry or permission. (fall)

Ch 470 Clinical Chemistry I 3 credits

Ch 471 Clinical Chemistry II 3 credits

Ch 472 Clinical Chemistry III 3 credits

I. Statistics and normal values in the clinical laboratory; theory and techniques of spectrophotometry, atomic absorption spectroscopy, flame photometry, fluorimetry and infrared analyses; electrophoretic techniques and densitometry; protein diffusion and immunological techniques. II. Automated analyses in clinical laboratory use; critical comparison of analytical methodologies for carbohydrates, lipids, electrolytes, enzymes, hemoglobins and porphyrins, with emphasis on the biosynthesis, metabolism, analytical methods of importance, normal ranges and pathological conditions leading to abnormalities. III. Toxicology, steroids, catecholamines, radiimmunoassay techniques, renal function testing, hepatic function testing, cerebrospinal fluid. Three lecture hours per week. Prerequisite: Ch 362, 364 or permission of instructor. (Offered in sequence: fall, winter, spring)

Ch 475 Clinical Chemistry Laboratory I 1 credit

Ch 476 Clinical Chemistry Laboratory II 1 credit

Practical experience in instrumental techniques and analytical methodologies of importance to the clinical chemist, including colorimetry, atomic absorption, gas chromatography, infrared, enzymatic assays and statistical treatment of data. Three laboratory hours per week. Prerequisite: Simultaneous enrollment in Ch 470 or Ch 471. (Offered in sequence: fall, winter)

Ch 481 Clinical Practice 2 credits

Ch 482 Clinical Practice 2 credits

Ch 483 Clinical Practice 2 credits

Practical experience in approved hospital clinical laboratory. Six laboratory hours per week. Prerequisite: Permission of instructor.

Ch 491 Special Topics 2-5 credits

Ch 492 Special Topics 2-5 credits

Ch 493 Special Topics 2-5 credits

Directed reading and/or lectures at an advanced level. Prerequisite: Permission of the instructor.

Ch 497 Undergraduate Research 2 credits

Ch 498 Undergraduate Research 2 credits

Ch 499 Undergraduate Research 2 credits

Literature and laboratory investigation of a basic research problem. Six laboratory hours per week. Prerequisite: Permission of department chairman.



Sophomore year

Chemistry 114, 115	10 credits
Engineering Electives	10 credits
Mathematics 135, 136	10 credits
Mechanical Engineering 281	5 credits
Philosophy 220	5 credits
Physics 201	5 credits

Junior year

Engineering electives	15 credits
Philosophy core option	5 credits
Science electives	15 credits
Theology core options	10 credits

Senior year

Engineering electives	15 credits
Humanities electives	10 credits
Electives	20 credits

Total 180 credits

Community College Transfer Students

Students who transfer from a community college with 90 credits, including three quarters of calculus, three quarters of engineering physics, engineering problems, engineering drawing, statics and dynamics, and appropriate humanities electives, can enter the junior year at Seattle University and expect to graduate in two additional years. (Civil and Mechanical Engineering candidates should also take two quarters of chemistry). All students are urged to take a course in computer programming at their community college.

Engineering Programs

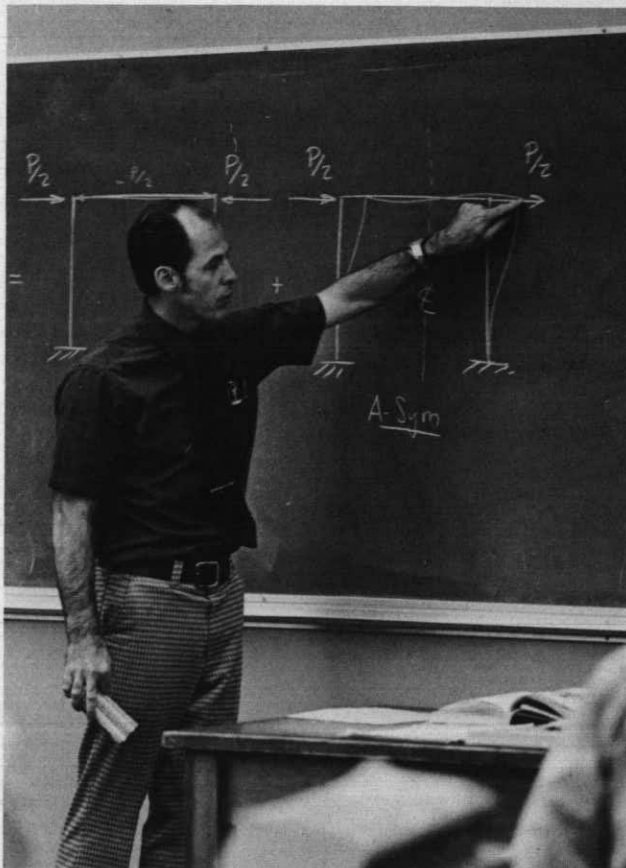
Bachelor of Engineering — Students seeking the Bachelor of Engineering degree must satisfy the core curriculum requirements of the University as given on page 24 of this Bulletin for English, philosophy and theology and religious studies. 10 credits of humanities electives satisfy the core requirements on history and social science. The degree requires a minimum of 55 credits of engineering subjects, 25 credits of mathematics, and a total of at least 90 credits in engineering, physics, chemistry and biology.

Bachelor of Civil, Electrical or Mechanical Engineering — Students wishing to receive the degree of Bachelor of Civil Engineering, Bachelor of Electrical Engineering or Bachelor of Mechanical Engineering must follow the program outlined in the respective sections of this bulletin.

Freshman year

English 100 and core option	10 credits
Mathematics 112, 114, 116, 134	15 credits
Mechanical Engineering 105, 113	10 credits
Philosophy 110	5 credits
Physics 200	5 credits





Civil Engineering

Richard T. Schwaegler, Ph.D., Chairman

Associate Professor:

Richard T. Schwaegler

Objectives

The principal objectives of the Civil Engineering department are to provide trained engineers to work in the various areas of the civil engineering profession and to provide a firm foundation for graduate study.

To accomplish these ends, analysis and design courses in the fields of hydraulic, structural, transportation and sanitary engineering are offered in addition to preparatory courses in sciences and basic mechanics. A broad base of theory is provided along with sufficient quantity of current practices of the profession.

Degree Offered

Bachelor of Civil Engineering

General Program Requirements

Students in Civil Engineering must satisfy the core curriculum requirements of the University as given on page 24 of this Bulletin for English, philosophy and theology and religious studies. Ten credits of humanities electives satisfy the core requirements in history and social science.

Departmental Requirements

Bachelor of Civil Engineering — In this degree program a minimum of 180 credits are required. In special cases qualified students, with the approval of their adviser, may substitute equivalent or more advanced courses for those listed. A set of options in the senior year permits students to begin specialization in their choice of transportation, sanitary engineering or structures.

Bachelor of Civil Engineering

Freshman year

English 100 and core option	10 credits
Mathematics 134, 135, 136	15 credits
Mechanical Engineering 105, 113	10 credits
Philosophy 110	5 credits
Physics 200	5 credits

Sophomore year

Chemistry 114	5 credits
Civil Engineering 211, 210	10 credits
Humanities Electives	5 credits
Mathematics 233, 234	10 credits
Mechanical Engineering 281	5 credits
Philosophy 220	5 credits
Physics 201	5 credits

Junior year

Civil Engineering 321, 323, 331, 335, 337, 351, 353, 381	31 credits
Philosophy elective	5 credits
Theology electives	10 credits

Senior year

Civil Engineering 401, 402, 492, 496, 497, 498 and electives	24-34 credits
Engineering or Science electives	0-10 credits
Humanities elective	5 credits

Total . . . 180 credits

Civil Engineering Courses

CE 200	Cooperative Work Study Assignment	0 credits
	Field experience in an approved job assignment in industry or government. The assignment will be selected for its value in advancing the professional education to the student. May be taken four times.	
CE 210	Man and His Environment	5 credits
	Study of the relationship of man to his environment with particular emphasis on the role of technology in the deterioration of the environment and in its restoration. Prerequisite: One year laboratory science in high school or two quarters of science in college or permission. (winter)	
CE 211	Engineering Measurements	5 credits
	Engineering measurements as applied to civil engineering projects. Planning for surveys. Introduction to photogrammetry and extent of its use. U.S. Public Land and State Plane Coordinate Systems. Prerequisite: Sophomore standing. Four lecture and three laboratory periods per week. (spring)	

- CE 291 Special Topics 1-5 credits**
CE 292 Special Topics 1-5 credits
CE 293 Special Topics 1-5 credits

CE 300 Cooperative Work Study Assignment 0 credits
 Field experience in an approved job assignment in industry or government. The assignment will be selected for its value in advancing the professional education of the student. May be taken four times.

CE 321 Strength of Materials I 5 credits
 Introduction to the mechanics of solid deformable bodies covering the relationships that exist between the external forces acting on elastic bodies and the stresses and deformations produced. Members subjected to tension, compression, flexure and torsion are studied. Five lecture and one laboratory period per week. Prerequisite: ME 113, Ph 200. (fall)

CE 323 Strength of Materials II 5 credits
 Continuation of the mechanics of solid deformable bodies. Additional beam topics, stability of columns, combined stresses and strains, fatigue and energy relationships are considered. Five lecture and one laboratory period per week. Prerequisite: CE 321. (winter)

CE 331 Fluid Mechanics 5 credits
 Introduction to fluid mechanics, including fluid properties, the continuity equation, stream functions and stream lines; Euler's equation for an ideal fluid, rotational and irrotational flow concepts; development and application of the Navier-Stokes equations, the energy and momentum equations; laminar and turbulent flow and an introduction to boundary layer theory, similarity parameters and dimensional analysis; vector and Cartesian tensor notation. Prerequisites: ME 281, Mt 136. (fall)

CE 335 Applied Hydraulics 3 credits
 Weekly student projects in the field of incompressible flow; pump design, hydrographic studies, graphical analysis of overflow or spillway design, model studies, varying flow analysis, economic design of pipeline projects. Prerequisite: CE 331. (winter)

CE 337 Fluids Laboratory 2 credits
 Experimental calibration of various flow meters, loss coefficients, and pipe friction factors. Experimental verification of various principles of fluid mechanics. One lecture and one four-hour laboratory per week. Prerequisite: CE 331. (spring)

CE 351 Engineering Geology 3 credits
 Elementary study of the material structure and internal condition of the earth and of the physical and chemical processes at work upon and within it. Three lecture hours per week. Prerequisite: Sophomore standing. (winter)

CE 353 Soil Mechanics and Foundations 5 credits
 Soil as a structural material; physical properties, bearing capacity and current theories of stress distribution of different types of soil; compaction and behavior under short and long duration loading. Four lecture and one laboratory session per week. Prerequisites: CE 323, 351. (spring)



CE 381 Elements of Water Supply 3 credits
 History, current status, legal considerations and projected problems of water supply. Water requirements based on population, industrial, commercial and agricultural use. Development of surface and ground water supplies. Transportation and distribution of water. Prerequisite: CE 331. (spring)

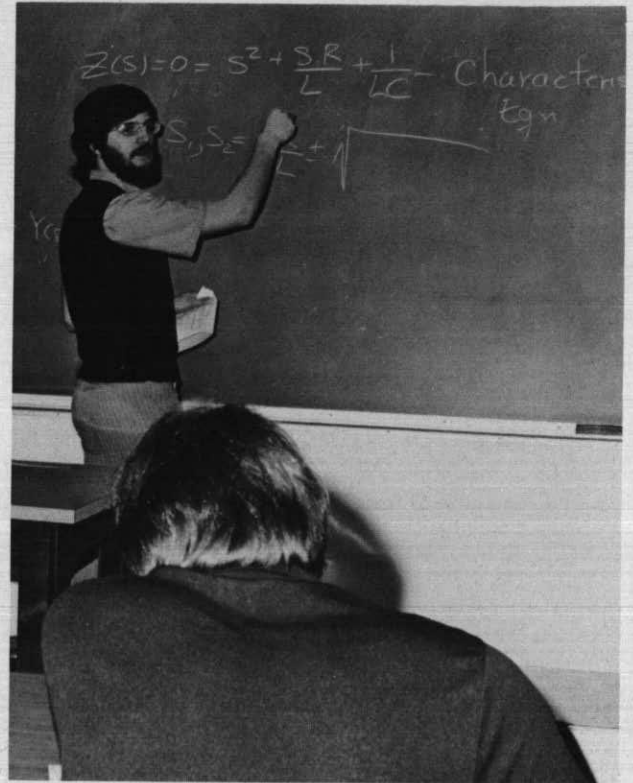
CE 400 Cooperative Work Study Assignment 0 credits
 Field experience in an approved job assignment in industry or government. The assignment will be selected for its value in advancing the professional education of the student. May be taken four times.

CE 401 Contracts and Specifications 3 credits
 Elements of estimating; types and elements of contracts; specifications for material and construction. (winter)

CE 402 Engineering Economy 3 credits
 Elements of immediate and long-term economy of design and maintenance; interest rates, present rates, present worth and prospective return on investment; depreciation and replacement studies. Introduction to critical path method of project scheduling. (spring)

CE 445 Structural Mechanics 5 credits
 Classical and matrix methods in structural mechanics. Basic structural theory in both classical and matrix notation. Development of basic matrix force (flexibility) and displacement (stiffness) methods of structural analysis. Prerequisite: CE 323. (fall)

- CE 447 Structural Design I** 5 credits
CE 449 Structural Design II 5 credits
 I. Introduction to the design of wood, steel and concrete members and connections. Familiarization with various building codes governing structural design. II. Design of structural systems of buildings, including roofs, floors, walls, columns, and foundations. Basic design for earthquake forces and the fundamentals of prestressed concrete design. Four hours of lecture and one 3-hour laboratory per week. Prerequisites: CE 445 for 447; 447 for 449. (I. winter, II. spring)
- CE 471 Environmental Law I** 3 credits
CE 472 Environmental Law II 3 credits
 I. Detailed survey of Federal legislation and case history as it relates to land use and development in the State of Washington. II. State legislation and case history as it relates to land use and development in the State of Washington. Local, county, and municipal legislation. (I. winter, II spring)
- CE 485 Sanitary Engineering I** 5 credits
CE 486 Sanitary Engineering II 5 credits
 I. Examination of water and waste. Physical treatment processes. Laboratory experiments in microbial, bacteriological and chemical examination of water and wastes. Chemical and biological treatment, sludge disposal, disinfection, reuse of water, comprehensive planning. Four lectures and one laboratory per week. II. Stream pollution and self-purification. Analysis of industrial wastes. Four lectures per week plus selected field trips. Prerequisites: Ch 114 for 485; 485 for 486. (I. fall, II. spring)
- CE 491 Special Topics** 1-5 credits
- CE 492 Transportation Systems** 3 credits
 Development of transportation systems and social and economic effects. Planning present and future systems. Methods of public and private financing. (fall)
- CE 495 Advanced Studies** 2-5 credits
 Independent study or research under the direction of a member of the faculty, to be carried out in one specific area of civil engineering: H — fluid mechanics; ST — structures; S — soils; R — highways; W — sanitary engineering. Prerequisite: Senior standing.
- CE 496 Seminar I** 2 credits
CE 497 Seminar II 2 credits
CE 498 Seminar III 2 credits
 Development of oral and written communication skills through preparation and presentation of a technical paper. Prerequisite: Senior standing (I. fall, II. winter, III. spring.)
- CE 499 Thesis** 1-5 credits
 Problem in analysis or design at the level of undergraduate research. Prerequisite: Senior standing.



Electrical Engineering

Francis P. Wood, SJ, M.S., Chairman

Professor:

Francis P. Wood, S.J.

Associate Professor:

Richard L. Turner

Assistant Professor:

Mark L. Neudorfer

Objectives

Electrical engineering deals with the applications of electricity to the generation, transmission, distribution and utilization of electric power, to measurement, to control, to computation and to communication by wire and electromagnetic waves.

The specific objective of the department does not provide for undergraduate specialization in various fields but strives to provide a broad foundation based on mathematical and scientific principles that will prepare the graduate to take his place in any of the various fields of study.

The curriculum includes material in networks, electronics, radio, communication, and power apparatus and systems. Hence the student interested in electronics, in automatic control, or in any other specialty is given adequate scientific training in a well-balanced educational program.

Degree Offered

Bachelor of Electrical Engineering

General Program Requirements

Students in electrical engineering must satisfy the specific core curriculum requirements of the University as given on page 24 of this Bulletin for English, philosophy and theology and religious studies. Ten credits of humanities electives satisfy the core requirements in history and social science.

Departmental Requirements

Bachelor of Electrical Engineering — 180 credits as listed in the following outline. In special cases, qualified students, with the approval of the department, may substitute advanced courses in nuclear physics for regular electrical engineering courses.

Bachelor of Electrical Engineering

Freshman year

Electrical Engineering 105 5 credits
English 100 and core option10 credits
Mathematics 134, 135, 13615 credits
Mechanical Engineering 105, 11310 credits
Physics 200 5 credits

Sophomore year

Mathematics 233, 23410 credits
Mechanical Engineering 281 or
Physics 310 5 credits
Philosophy 110, 220 and core option15 credits
Physics 201, 202, 20315 credits

Junior year

Electrical Engineering 233, 301, 303,
311, 45120 credits
Physics 330, 36110 credits
Theology core options10 credits
Humanities elective 5 credits

Senior year

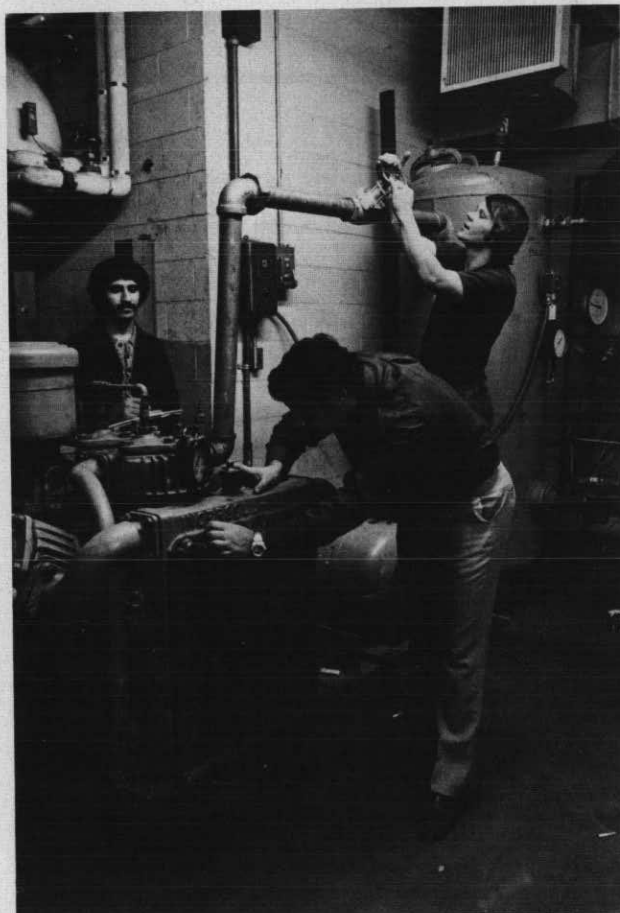
Electrical Engineering 411, 435, 441, 443,
445, 446, 451, 461, 485 and electives40 credits
Humanities elective 5 credits

Total 180 credits

Electrical Engineering Courses

- EE 105 Digital Operations and Computation 5 credits**
Processing of information and data in digital forms. Number systems, logic variables and Boolean Algebra, registers, counting and arithmetic operations, organization of computers, storage and memory. Includes simple programming at machine language level and an introduction to FORTRAN programming. Five one-hour lectures per week. Important and useful for anyone in science or engineering areas. (winter)
- EE 200 Cooperative Work Study Assignment 0 credits**
Field experience in an approved job assignment in industry or government. The assignment will be selected for its value in advancing the professional education of the student. May be taken four times.

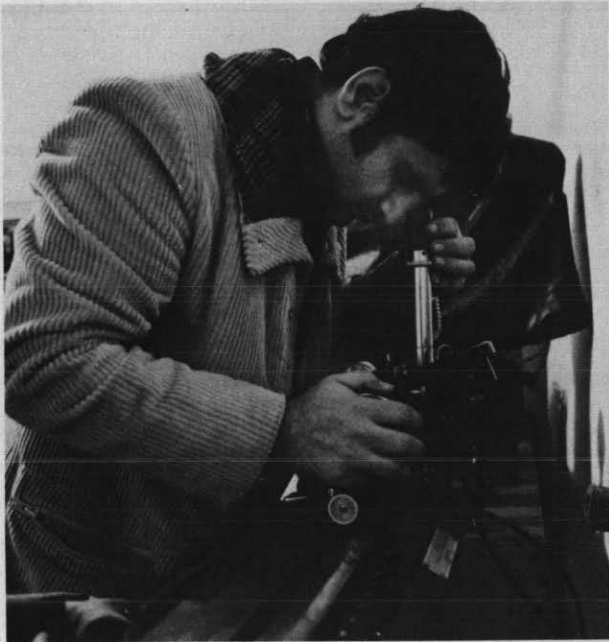
- EE 233 Introduction to Discrete Systems 5 credits**
Linear, time invariant, discrete systems; finite moving average and recursive digital filters; Z-transform; discrete Fourier transform; fast Fourier transform. (fall)
- EE 291 Special Topics 1-5 credits**
EE 292 Special Topics 1-5 credits
EE 293 Special Topics 1-5 credits
- EE 300 Cooperative Work Study Assignment 0 credits**
Field experience in an approved job assignment in industry or government. The assignment will be selected for its value in advancing the professional education of the student. May be taken four times.
- EE 301 Electrical Circuits I 5 credits**
EE 303 Electrical Circuits II 5 credits
Fundamental concepts and units; energy and power; Kirchoff's laws, nodal and mesh analysis; steady-state solutions; coupled circuits and transformers; Fourier series and integral; transient response and Laplace transformation; polyphase circuits. I. Four lectures and one two-hour quiz per week. II. Four lectures and one four-hour laboratory per week. Prerequisites: Ph 201 for 301, 301 for 303. (I-fall, II-winter)
- EE 311 Seminar 0 credits**
Attendance required for junior year Electrical Engineering students. (winter)



- EE 321 Linear Analysis** **5 credits**
Laplace transform techniques; functions in the complex frequency plane; analytic functions; the inversion integral; expansion of functions in series; inversion integral evaluation by residues; conformal field mapping. Application of frequency plane analysis to electronic networks; introduction to nonlinear analysis and to network synthesis. Prerequisite: EE 303. (spring)
- EE 361 Special Studies in Electrical Engineering** **1-3 credits**
Special studies for qualified students, under the direction of a faculty member. A written report will be required. By arrangement with the department. (fall, winter, spring)
- EE 400 Cooperative Work Study Assignment** **0 credits**
Field experience in an approved job assignment in industry or government. The assignment will be selected for its value in advancing the professional education of the student. May be taken four times.
- EE 411 Seminar** **2 credits**
Each student is required to prepare a technical paper and to present it orally to the class. Prerequisite: Senior standing in Electrical Engineering. (winter)
- EE 435 Electromechanics** **5 credits**
Electromechanical energy conversion principles; transformers, rotating machines, electromechanical energy conversion devices such as electromagnets, loud speakers. Four lectures and one four-hour laboratory per week. Prerequisite: EE 321. (fall)
- EE 441 Semiconductor Circuits I** **5 credits**
Linear equivalent circuit models of solid state and vacuum circuit elements. Elementary amplifiers; biasing techniques, thermal stability, s-plane frequency characteristics, frequency compensation, coupling and bypassing circuits. Cascaded amplifier circuits; gain-frequency characteristics and bandwidth control. Prerequisite: EE 321. (fall)



- EE 443 Semiconductor Circuits II** **5 credits**
Linear power amplifiers; push-pull, complimentary symmetry and load coupling circuits. Feedback amplifiers; gain-frequency characteristics and frequency compensation. Class AB, C and C amplifiers and tuned amplifiers. Oscillators; various basic forms and their frequency and amplitude stability characteristics. Prerequisite: EE 441. (winter)
- EE 445 Digital Systems** **5 credits**
Boolean algebra, logical reduction of combinatorial and sequential circuits, Vetch diagrams, Karnaugh maps; number systems and codes; logical circuits, basic-counting, timing and authentic circuits; wave shaping, limiting, clipping, gating and dc-restoring circuits; memory devices. Prerequisite: EE 321. (spring)
- EE 446 Electrical Engineering Laboratory I** **2 credits**
Laboratory problems based on characteristics of electron devices; amplifier, rectifier, and digital circuits. One lecture and one four-hour laboratory per week. Prerequisite: EE 443. (fall)
- EE 451 Distributed Systems** **5 credits**
Analysis of distributed systems by circuit and field methods; steady-state and transient behavior of lossless transmission systems; propagation or dissipative systems. Four lectures and one four-hour laboratory per week. Prerequisites: Ph 330 and EE 303. (winter)
- EE 461 Control Systems** **5 credits**
Fundamentals of classical and modern system theory; analysis and design of closed-loop systems with emphasis on stability and transient response using Nyquist, Bode, s-plane and state-space techniques. Prerequisite: EE 321. (fall)
- EE 462 Systems Laboratory** **2 credits**
Comprehensive systems laboratory utilizing components from electronics, energy conversion devices, filters and magnetics; emphasis on integration of components into a complete system. One lecture and one four-hour laboratory per week. Prerequisite: EE 461 (arranged).
- EE 481 Solid State Theory** **5 credits**
Review of elementary quantum physics; energy bands and carrier statistics; theory of junction devices; periodic structures and energy bands; transport theory; semiconductor parameters. Prerequisite: EE 441 (arranged)
- EE 485 Modulation and Noise** **3 credits**
Signal transmission through electrical networks; amplitude modulation; phase modulation; frequency modulation; periodic sampling and pulse modulation; characterization of noise; noise sources; effects of noise on electronic systems; comparative analysis of information transmission systems. Prerequisite: EE 321. (winter)
- EE 489 Special Topics** **1-5 credits**
EE 490 Special Topics **1-3 credits**
Current topics in Electrical Engineering not normally covered in the undergraduate curriculum. Prerequisite: Senior standing. (arranged)



Mechanical Engineering

Harry Majors, Jr., M.S., Chairman

Professors:

Harry Majors, Jr.
Lewis Filler
Stephen B. Robel
Robert F. Viggers

Objectives

The mechanical engineer is concerned with the fundamental properties of solids, liquids and gases related to the creative design and manufacture of machines, heat engines, electro-mechanical devices and control systems. He is concerned with the broad area of energy conversion as related to the design of machines. This requires working with the processes of combustion, nuclear and chemical reactions, solar radiations, propulsion systems for sea, land and space and all types of materials under a vast array of conditions.

A mechanical engineer may enter positions in research and development, design engineering, salesmanship, and, with experience, executive positions in industry.

Degree Offered

Bachelor of Mechanical Engineering

General Program Requirements

Students in mechanical engineering must satisfy core curriculum requirements of the University as given on page 24 of this bulletin for English, philosophy and theology and religious studies. Ten credits of humanities electives satisfy the core requirements in history and social science.

Departmental Requirements

Bachelor of Mechanical Engineering — 180 credits are required for the degree. In special cases, qualified students with the approval of the major department may substitute equivalent or more advanced courses for those listed in the curriculum.

Bachelor of Mechanical Engineering

Freshman year

English 100 and core option	10 credits
Mathematics 134, 135, 136	15 credits
Mechanical Engineering 105, 113	10 credits
Physics 200	5 credits
Philosophy 110	5 credits

Sophomore year

Chemistry 114	5 credits
Humanities Elective	5 credits
Mathematics 233, 234	10 credits
Mechanical Engineering 281	5 credits
Philosophy 220	5 credits
Physics 201	5 credits
Physics 202 or Chemistry 115	5 credits
Theology core option	5 credits

Junior year

Civil Engineering 321, 323, 331, 337	17 credits
Electrical Engineering 301	5 credits
Mechanical Engineering 321, 371 or Chemistry 361, 363, and ME 380	13 credits
Philosophy core option	5 credits
Theology core option	5 credits

Senior year

Civil Engineering 402	3 credits
Humanities Elective	5 credits
Mechanical Engineering 425, 426, 430, 472, 473, 484, 485, 496, 497, 498	37 credits

Total 180 credits

Mechanical Engineering Courses

ME 105 Engineering Graphics & Analysis 5 credits

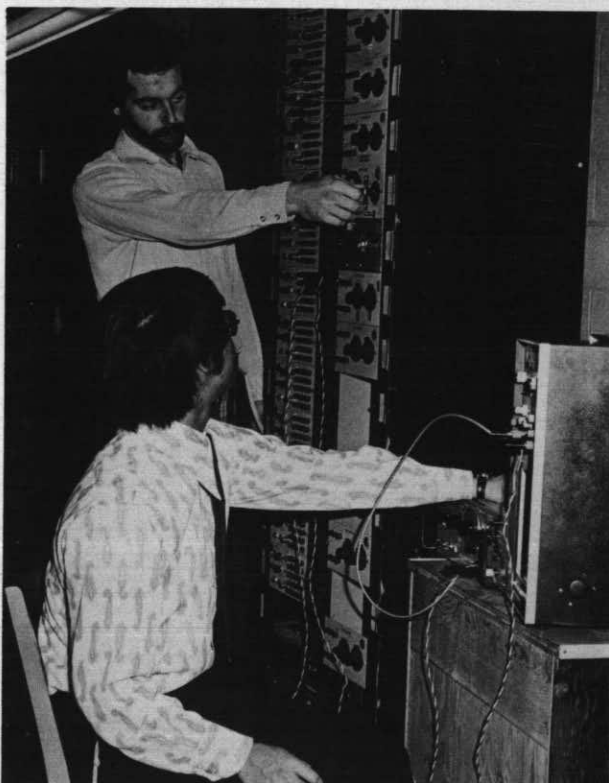
Methods of Engineering Communication. Use of drafting instruments, lettering, orthographics, isometrics, free-hand sketching, and dimensioning. Introduction to descriptive geometry. Application of scaled vectors to solutions of problems in statics, kinematics, and electricity. Students must attend off-day sessions until they are able to pass examinations on engineering computations. Four two-hour sessions per week. (fall)

ME 113 Statics 5 credits

Application of vectors to equilibrium of forces and moments on bodies, trusses, and frames. Introduction to distributed forces on bodies, beams, cables; and hydrostatics, friction and virtual work. Four lectures and a one-hour problem session per week. Prerequisite: Mt 135 (or concurrent).

ME 200 Cooperative Work Study Assignment 0 credits

Field experience in an approved job assignment in industry or government. The assignment will be selected for its value in advancing the professional education of the student. May be taken four times.



ME 269 Production Processes I 1 credit

ME 270 Production Processes II 1 credit
Study of the processes used in forming and shaping engineering materials; lectures, demonstrations and laboratory work on machining processes. One lecture and three laboratory hours per week. Prerequisite: Sophomore standing, ME 269 for 270. (I-fall, II-winter)

ME 281 Dynamics 5 credits

Application of vectors to solutions of problems in kinematics and kinetics. Translation, rotation, and plane motion of a particle, system of particles and rigid bodies; relative motion. Analysis of forces on particles and bodies in motion. Impulse-momentum laws, work and energy. Four lecture hours and one-hour problem session. Prerequisites: ME 113, Mt 135. (winter)

ME 291 Special Topics 1-5 credits

ME 292 Special Topics 1-5 credits

ME 293 Special Topics 1-5 credits

ME 300 Cooperative Work Study Assignment 0 credits

Field experience in an approved job assignment in industry or government. The assignment will be selected for its value in advancing the professional education of the student. May be taken four times.

ME 321 Engineering Thermodynamics I 5 credits

Introduction to the law of conservation of energy as applied to ideal and real gases, liquids, vapors, and mixtures of gases and vapors. Property relations associated with processes and cycles. Conversion of thermal energy to work in heat engines and heat pumps. Concept of power and efficiency in Otto, Diesel, Brayton, and Rankine cycles. Flow of compressible gases. Prerequisite: CE 331. (winter)

ME 371 Machine Design I 3 credits

Relation of engineering fundamentals and properties of materials to the design, layout and details of specific machines; computation techniques and use of digital and analogue computers. Prerequisites: ME 281, CE 323, 331. (spring)

ME 380 Heat Transfer I 5 credits

Introduction to transfer of heat by conduction in one and two dimensional flow, steady state; and transient. Principles of thermal radiation heat exchange. Analysis of convection—natural, forced, and with change of phase, with application to design of heat exchangers. Four lecture hours and four hour laboratory per week. Prerequisite: ME 321. (spring)

ME 400 Cooperative Work Study Assignment 0 credits

Field experience in an approved job assignment in industry or government. The assignment will be selected for its value in advancing the professional education of the student. May be taken four times.

ME 425 Power Plants I 5 credits

Application of thermodynamics to the analysis of ideal and actual power cycles. Study of internal and external combustion engines, fans, blowers, compressors, and nozzles. Design of gas and vapor refrigeration systems; liquefaction of gases, and air conditioning systems. Four lecture and one four hour laboratory periods per week. Prerequisite: ME 321. (fall)

ME 426 Power Plants II 5 credits

Application of thermodynamics, heat transfer and fluid mechanics to selection, location, and design of a modern thermal power station and auxiliaries with economic and ecologic integration into the Pacific Northwest Power System. Four lectures and one four-hour laboratory periods per week. Prerequisite: ME 425. (winter)

ME 428 Environmental Engineering 4 credits

Man-machine systems; psychological and physiological principles of the interrelation between a human and his surroundings; environmental requirements for equipment and human habitation; engineer's approach to the multi-disciplinary aspects of environmental control. Three lecture and four laboratory hours per week. Prerequisite: ME 426.

ME 430 Principles of the Properties of Materials I 5 credits

Atomic structure of elements. The metallic bond. Structure of metals and non-metals. Equilibrium diagrams. Time-dependent transformations. Elastic and plastic deformations. Relation of structure to properties. Three lecture and four laboratory hours per week.

ME 472 Machine Design II 3 credits

ME 473 Machine Design III 3 credits

ME 474 Machine Design IV 1-5 credits

II. Philosophy of design, a creative approach, and a comprehensive design project; planning, organizing and leading an engineering project; exercising judgment and considering economic factors. III. Instruction and experience in the integrated aspects of creative design and analysis; case studies; design of a novel device or system; electro-mechanical, hydraulic and pneumatic systems; energy conversion. IV. Project work. Prerequisites: ME 371 for 472; 472 for 473; 473 for 474. (II-fall, III-winter)

ME 477 Experimental Mechanics 1-5 credits
Study of experimental methods; instrumentation; use of sensing devices; measurements by means of mechanical, electrical, magnetic and optical methods; control systems; vibrations; shock and impact measurements; emphasis on the interpretation of results. Arranged. Prerequisites: CE 337, ME 371.

ME 478 Compressible Flow I 5 credits
Review of concepts of fluid dynamics and thermodynamics; introduction to the concepts of compressible flow; one-dimensional gas dynamics including flow in nozzles and diffusers, normal shocks, frictional flows and flows with heat transfer and energy release. Prerequisite: CE 331, ME 322.

ME 479 Theoretical Hydrodynamics 5 credits
Ideal fluid motions; Euler's equation of motion and continuity equation, boundary conditions. Potential flow; velocity potential stream function, Laplace equation, hydrodynamic singularities, two and three dimensional flow examples. Conformal transformation: complex potential, complex velocity, Blasius theorem, flow about cylinders and air foils. Free streamline flow; Schwartz-Christoffel theorem. Vortex motion. Prerequisite: Permission of instructor.

ME 481 Heat Transfer II 5 credits
Advanced topics in conduction, convection, and radiation with emphasis on computer applications to multi-dimensional and transient problems. Introduction to mass transfer and diffusion. Four lecture and four laboratory hours per week. Prerequisite: ME 380. (fall)

ME 484 Linear Systems Analysis 5 credits
A study of the dynamics of linear systems. Topics include: Derivation of differential equations; classical and transform methods of differential equation analysis; experimental methods including similarity and dimensional analysis; and analog and digital computer methods. Four lecture and four laboratory hours per week. Prerequisites: ME 321, 371. (winter)

ME 485 Control Systems I 5 credits
A first course in feedback control system analysis designed to follow "Linear Systems Analysis". Topics include: Typical system elements and their transfer functions; block diagram and signal flow graph manipulation; root locus; Nyquist criterion; Bode plots; analog and digital computer simulation. Four lecture and four laboratory hours per week. Prerequisite: ME 484. (spring)

ME 491 Special Studies 2-5 credits

ME 492 Special Studies 2-5 credits

ME 493 Special Studies 2-5 credits

Selected subjects of current interest in mechanical engineering. Assigned reading and/or experiments will be arranged on an individual basis in consultation with the instructor. Written report and oral delivery are required. Prerequisite: Senior standing.

ME 496 Seminar 2 credits

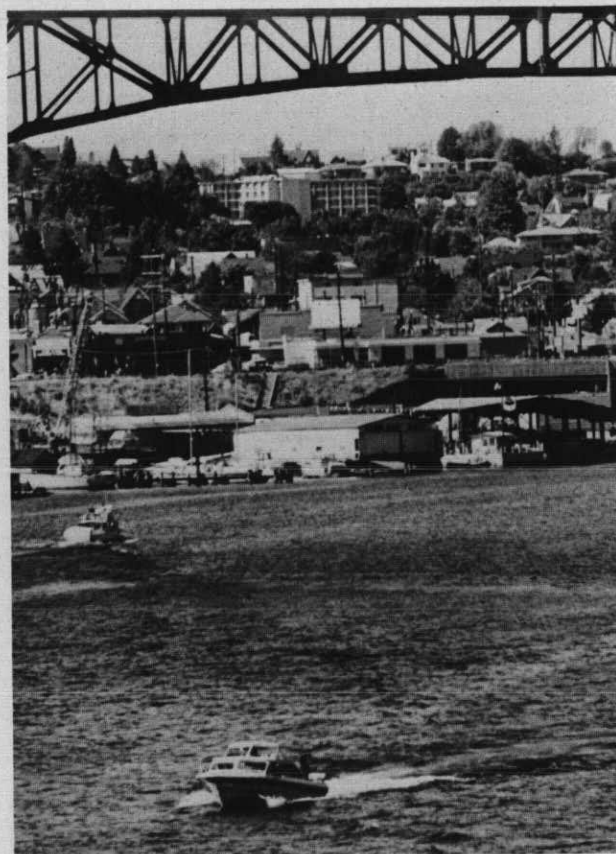
ME 497 Seminar 2 credits

ME 498 Seminar 2 credits

Prerequisite: Senior standing. (fall, winter, spring)

ME 499 Thesis 2 credits

In special cases a thesis may be substituted in place of seminar with the approval of the department chairman. Prerequisite: Senior standing.



Environmental Studies

The solution of problems relating to man's environment will depend, among other things, upon the enlightened application of science and technology. This task will require people from a wide spectrum of educational backgrounds and professional interests, from attorneys to nuclear physicists. One thing will be common to all who are really effective in the environmental field: they will have an education broad enough to understand the problem and deep enough in some area to have an impact. Students interested in the environmental field may:

1. Choose a Bachelor of Science in Biology, Chemistry or Physics degree program, or a Bachelor of Civil Engineering program and choose electives and seminar courses to broaden their knowledge of environmental problems.

2. Choose the Bachelor of Science in General Science degree and include in it a variety of courses in biology, chemistry and engineering which are relevant to environmental problems.

3. Choose the more general Bachelor of Science or Bachelor of Engineering programs to gain expertise in one field and use the greater number of electives permitted in these programs to get breadth in other fields of environmental interest.

4. Choose a Bachelor of Arts degree program which will provide a strong background in one field and leave ample room for such fields as economics, political science, psychology and sociology.

Courses especially recommended for persons interested in environmental problems are: Biology 101, 170, 171, 370, 371; Chemistry 100; Mathematics 114, 116; Physics 101, 110, 475, Civil Engineering 210, 351, 471, 472; Sociology 101; Psychology 100; Economics 271, 379 and Political Science 150.

The Student will be advised by the department in which he plans to take the most courses. See sample programs of study below for specific course requirements. See also General Science section of this bulletin.

Environmental Studies

Bachelor of Science

Freshman year

Biology 170, 171	10 credits
Chemistry 114, 115, 116	15 credits
English 100 and core option	10 credits
Mathematics 112, 134	10 credits

Sophomore year

Biology 370, 371	5 credits
Chemistry 235, 236	10 credits
Philosophy 110, 220 and core option	15 credits
Physics 105, 106, 107 or 200, 201, 202	15 credits

Junior year

Chemistry 219, 361, 362, 363 364, and electives	30 credits
Civil Engineering 210, 351	10 credits
Theology core options	5 credits

Senior year

Chemistry elective	5 credits
History/Social Science core option	15 credits
Theology core option	5 credits
Electives	20 credits

Total . . . 180 credits

Environmental Studies

Bachelor of Engineering

Freshman year

English 100 and core option	10 credits
Mathematics 112, 114, 134	13 credits
Mechanical Engineering 102, 111, 112, 113	12 credits
Philosophy 110,	5 credits
Physics 200	5 credits

Sophomore year

Chemistry 114, 115	10 credits
Civil Engineering 210	5 credits
Mathematics 135, 136	10 credits
Philosophy 220 and core option	10 credits
Physics 200, 201, 202	10 credits

Junior year

Biology 170, 171, 370, 371	15 credits
Civil Engineering 351	5 credits
Chemistry 361, 363 or Mechanical Engineering 321	5 credits
Engineering electives	20 credits

Senior year

Civil Engineering 485, 486	10 credits
Economics 271	5 credits
Engineering electives	15 credits
Political Science 160	5 credits
Theology core electives	10 credits

Total . . . 180 credits



General Science

Ernest P. Bertin, S.J., Ph.D., Program Director

Professor:

Ernest P. Bertin, S.J.

Objective

The objective of the program in general science is to offer the student a liberal education with sufficient background in science to enable the graduate to work in easy liaison with scientists and engineers in industry or government. Judicious use of elective hours permits the student to specialize in other technical areas or in business. A concentration in engineering and one in environmental studies is shown below, but other choices are possible according to the need of the student. These choices are governed by the General Program Requirements.

Degree Offered

Bachelor of Science in General Science

General Program Requirements

Students in general science must satisfy the core curriculum requirements of the University as given on page 24 of this bulletin for English, philosophy and theology and religious studies. At least 15 credits in humanities or social science electives are required. Also required are 90 credits chosen from the following fields: biology, chemistry, mathematics, physics, psychology and engineering. For this purpose all engineering courses are considered as being in one field. At least 30 credits must be in one of these fields, 20 credits in a second field, and 10 credits in mathematics. Three fields must be represented by at least one course. At least 15 credits must be from 300- or 400-level courses.

Bachelor of Science in General Science

Environmental Studies

Freshman year

Chemistry 114, 115, 116	15 credits
English 100 and core option	10 credits
Mathematics 112, 134	10 credits
Philosophy 110, 220	10 credits

Sophomore year

Biology 170, 171, 370, 371	15 credits
Chemistry 235, 236	10 credits
Philosophy 220	5 credits
Physics 105, 106, 107 or 200, 201, 202	15 credits

Junior year

Chemistry elective	5 credits
Civil Engineering 210, 351	10 credits
Biology or Physics elective	5 credits
Theology core options	10 credits
Electives	15 credits

Senior year

Science, Mathematics or Engineering electives	10 credits
Humanities/Social Science electives	15 credits
Electives	20 credits

Total . . . 180 credits

Bachelor of Science in General Science

Engineering Concentration

Freshman year

English 100 and core option	10 credits
Mathematics 112, 114, 116, 134	15 credits
Mechanical Engineering 105, 113	10 credits
Philosophy 110	5 credits
Physics 200	5 credits

Sophomore year

Chemistry 114, 115	10 credits
Civil Engineering 210	5 credits
Electrical Engineering 301	5 credits
Mathematics 135, 136	10 credits
Philosophy 220	5 credits
Physics 200, 202	10 credits

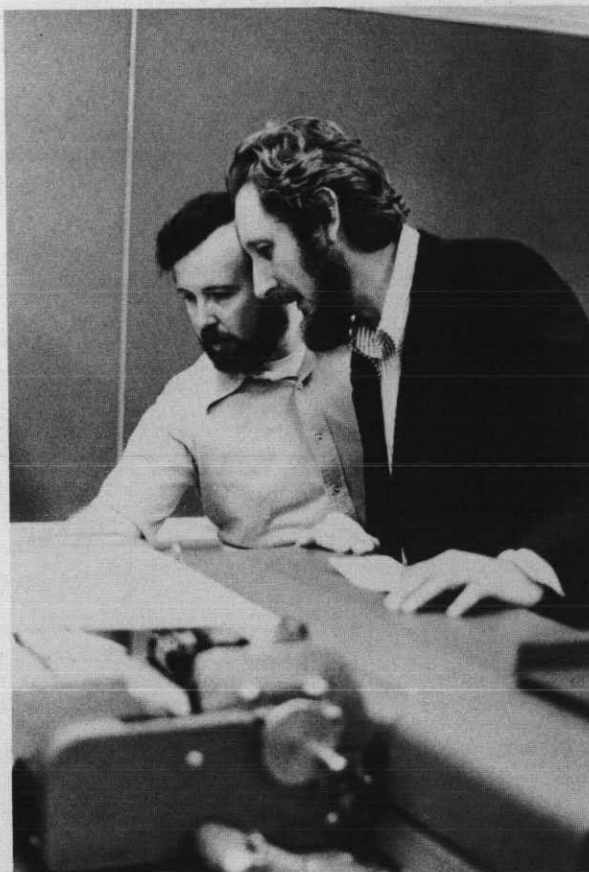
Junior year

Chemistry or Physics electives	10 credits
Engineering electives	10 credits
Philosophy core option	5 credits
Theology core options	10 credits
Electives	10 credits

Senior year

Humanities/Social Science electives	15 credits
Electives	30 credits

Total . . . 180 credits



Health Information Services

Mary Alice Hanken, R.R.A., Chairman

Assistant Professors:

Mary Alice Hanken
 Kathleen Waters

Instructors:

Eileen O'Donnell
 Janet L. Stevenson
 Linda K. Weiland

Objectives

The Health Information Services program is designed to prepare the student for a career in an administrative health care profession by providing a comprehensive four-year program of liberal arts and science. In the fourth year emphasis is on professional activities and interaction with the health care industry. Special attention is given to computerization of health information. Students who complete the program are eligible for registration with the American Medical Record Association.

Degree Offered

Bachelor of Health Information Services

General Program Requirements

Degree candidates in Health Information Services must satisfy the core curriculum requirements of the University as given on page 24 of this bulletin. Students who have completed a program for medical record technicians, which has been approved by the American Medical Association, are evaluated and placed in the appropriate advanced courses. A certificate program is available to students who already possess a baccalaureate degree.

Departmental Requirements

Bachelor of Health Information Services — 46 credits which must include HI 401, 402, 403, 422, 425, 426, 430, 440, 441, 450, 455, 470, 494 and 495; 30 credits of science and mathematics; and 15 credits of business courses.

Bachelor of Health Information Services

Freshman year

Chemistry 100 5 credits
 English 100 and core option 10 credits
 History 102-103 10 credits
 Mathematics 101 or elective 5 credits
 Philosophy 110 5 credits
 Psychology 100 5 credits
 Elective 5 credits

Sophomore year

Business 270 5 credits
 Economics 100 5 credits
 Health Information Services 430 5 credits
 Mathematics 214 5 credits
 Philosophy 220 5 credits
 Theology core options 10 credits
 Elective 10 credits

Junior year

Biology 200, 210 and 220 or 300 15 credits
 Business 310, 380 10 credits
 Health Information Services 401 5 credits



Philosophy core option 5 credits
 Psychology or Sociology 201 5 credits
 Elective 5 credits

Senior year

Health Information 402, 403, 422, 425, 426, 440, 441, 450, 455, 470, 494 and 495 36 credits
 Electives 9 credits

Total 180 credits

Health Information Services Courses

HI 401 Introduction to Health Records 5 credits
 Introduction to the development, present scope and future direction of health records and the health record profession. Initial development of the skills of record analysis and control, compilation of medical statistics, record retrieval and disease coding. Prerequisite: BI 200, 210 or permission of instructor. (fall, spring)

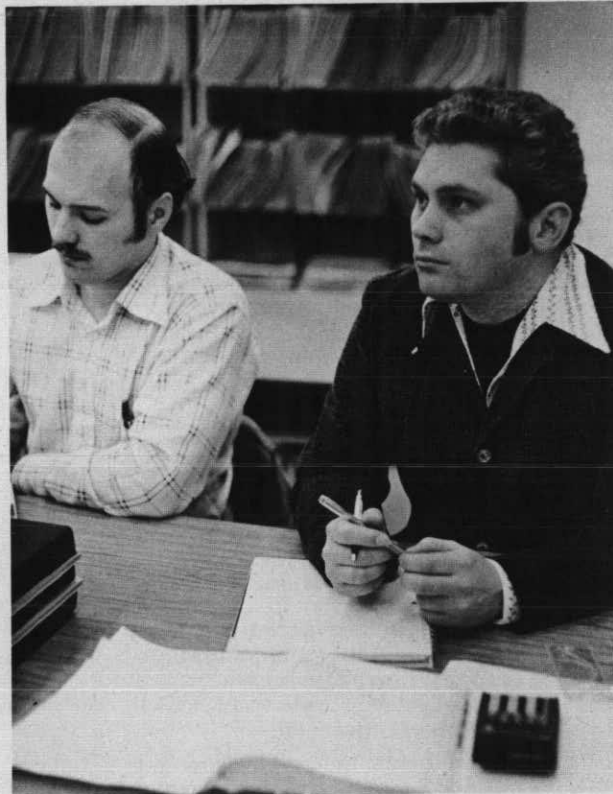
HI 402 Analysis, Design and Implementation of Health Record Systems 5 credits
 Application of health record science and management skills in the coordination of record systems and information centers in health facilities. Prerequisites: HI 401. (fall, winter)

HI 403 Professional and Governmental Influences on Health Record Administration 5 credits
 Study of the standards designed by JCAH, AMA, HEW and other agencies to raise the level of health care with analysis of the effects on health record administration. Prerequisites: HI 401 and 402. (winter, spring)

HI 422 Medical Terminology 3 credits
 Prerequisite BI 200, 210 or permission of instructor. (fall, spring)



- HI 425 Medical Science I 3 credits**
HI 426 Medical Science II 3 credits
 I. The problem-oriented approach to nature and cause, treatment and management of patients covering circulatory, respiratory, hemic and lymphatic, musculoskeletal, integumentary, urogenital and female reproductive systems. II. Diseases of endocrine and nervous systems, special senses, psychobiologic units, treatment of disease including drugs, laboratory tests and anesthesia. Prerequisite BI 200, 210 or permission of instructor. (I. winter II. spring)
- HI 430 Health Care Delivery System 5 credits**
 Study of the organization, delivery and financing of health care in the United States. Interdisciplinary exploration of the relationships of personnel, facilities and organizations in the health field. (winter, spring)
- HI 440 Practicum 1-5 credits**
HI 441 Practicum 1-5 credits
 Practicum is designed to help students develop themselves through utilizing opportunities to participate in current health information activities with professional medical record administrators and other professionals in the health field. Prerequisite to HI 440-HI 401. (fall, winter, spring, summer)
- HI 450 Development of Management Resources 3 credits**
 Utilization of management methods and resources in the effective direction of a department, system or function with emphasis on budget, layout, work simplification, job analysis and equipment selection. Prerequisite HI 401. (fall, winter)
- HI 455 Comprehensive Communication Skills 3 credits**
 Study and development of skills needed to select and use communications media in effective leadership. Areas of particular study will include personnel selection and evaluation, educational and training programs for health personnel or related groups, skill in relating information to a wide range of individuals or groups. (winter, spring)
- HI 470 Legal Concepts for Health Fields 3 credits**
 Principles of law as applied to the health field, with particular reference to all phases of medical record practice.
- HI 475 Health Information Computer Systems 5 credits**
 Data processing with stress on the important aspects of computer science and their relationship to problem solving in health information science.
- HI 475 Data Processing 3 credits**
 Data processing systems and the application of newer techniques in handling information in medical institutions.
- HI 491 Special Topics 2-5 credits**
HI 492 Special Topics 2-5 credits
- HI 494 Current Topics — Seminar 2 credits**
 Organizational patterns in health facilities and their role in the community, career opportunities. (winter)
- HI 495 Problem Solving and Decision Making—Seminar 2 credits**
 (winter, spring)
- HI 497 Independent Study 1-6 credits**
 Prerequisites: Senior standing; permission. (fall, winter, spring)



Mathematics

Andre L. Yandi, Ph.D., Chairman

Professors:

Burnett R. Toskey
 Andre L. Yandi

Associate Professors:

Chu Chiu Chang
 Alan Troy

Assistant Professors:

Mary B. Ehlers
 Leonard B. Goodisman
 John E. Vinson

Objectives

The Mathematics department offers three structured undergraduate programs. The first, leading to the Bachelor of Science in Mathematics degree, is designed to prepare the student for advanced study and professional work in mathematics. The other two, for students wishing more flexible programs which provide for a concentration of work in a secondary field, lead to the Bachelor of Arts degree or the Bachelor of Science degree.

Degrees Offered

Bachelor of Arts
 Bachelor of Science
 Bachelor of Science in Mathematics

General Program Requirements

Students in mathematics must satisfy the core curriculum requirements of the University as given on page 24 of this bulletin for English, philosophy and theology and religious studies. Additional core requirements are as follows: for the Bachelor of Arts degree, 10 credits in history, 10 credits in social science and 15 credits in physical or life science, psychology or economics; Bachelor of Science degree, 15 credits in history or social science; and Bachelor of Science in Mathematics degree, 15 credits in history or social science. Either French or German may be taken to fulfill the language requirement. A minimum grade of C is required in all mathematics courses applied toward the major. See programs of study for additional requirements.

Advanced Placement in Calculus

Students who have completed a college level course in calculus in high school and have taken the Advanced Placement test in calculus of the College Entrance Examination Board may petition the department for placement on the basis of their test results. Advanced placement and credit may be granted to students whose test scores are 3 or above. Advanced placement may also be obtained through departmental testing.

Honors Work in Mathematics

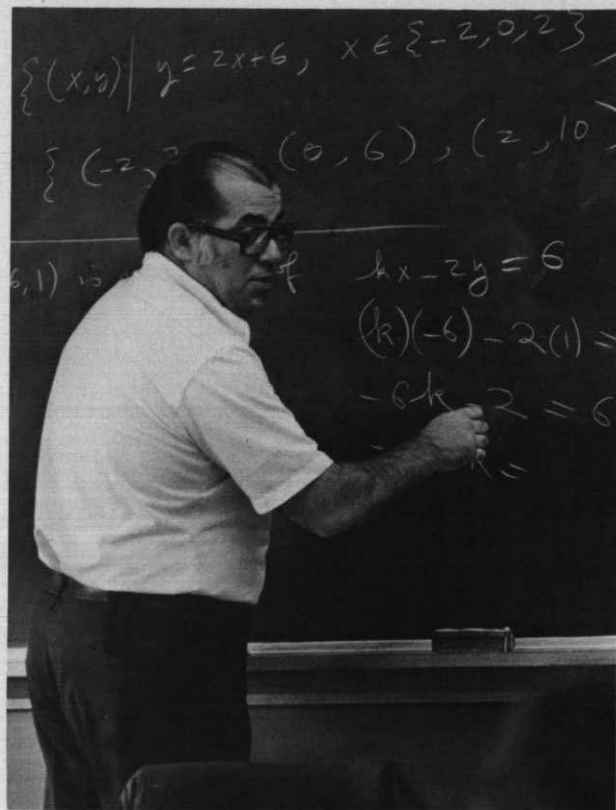
For superior students the department offers honors work consisting of a year of independent study under the supervision of a senior faculty member. Normally the work will be done during the senior year at a level beyond that of the regular undergraduate courses and will culminate in the writing of a term paper or senior thesis. Students who wish to undertake this program will be encouraged to take Mt 315 or 381 in the sophomore year and a 400-level series in their junior year in order to have the background sufficient to conduct their independent study. The independent study is an addition to the regular course requirements for the Bachelor of Science in Mathematics degree. No special distinction will be made in the degree earned by students completing the program.

Departmental Requirements

Bachelor of Arts — 50 credits in mathematics which must include Mt 134, 135, 136, 233, 234, 315 or 381, 411 or 431 and 15 additional credits of approved upper division mathematics. General physics and the fine arts sequence are recommended.

Bachelor of Science — 60 credits of mathematics and 30 credits of physical science, psychology or economics.

Bachelor of Science in Mathematics — 70 credits in mathematics which must include Mt 134, 135, 136, 233, 234, 411, 412, 413, 431, 432, 433; 15 additional credits in upper division mathematics; and 15 credits of physics. In certain circumstances, with the approval of the program director, 15 credits of upper division work in a physical science may be substituted for 15 credits in mathematics. Students in this program must maintain a cumulative grade point average and a mathematics grade point average of 2.50. The fine arts sequence is recommended.



Undergraduate Minor — 30 credits in mathematics which must include Mt 134, 135, 136 and 15 credits of approved electives beyond college algebra.

Teaching Major (School of Education) — 45 credits in mathematics which must include Mt 134, 135, 136, 233, 300, 321 or 322 and 15 credits of approved electives beyond college algebra (Mt 114 and 116 are included among approved electives).

Bachelor of Arts

Freshman year

- English 100 and core option 10 credits
- History core option 10 credits
- Mathematics 134, 135, 136 15 credits
- Philosophy 110 5 credits
- Social Science core option 5 credits

Sophomore year

- Mathematics 233, 234 and elective 15 credits
- Philosophy 220 and core option 10 credits
- Physical or Biological Science, Psychology or Economics 15 credits
- Social Science core option 5 credits

Junior year

- French or German 105, 106 10 credits
- Mathematics 315 or 381 and electives 15 credits
- Theology core options 10 credits
- Electives 10 credits

Senior year

- Mathematics 411 or 431 5 credits
- Electives 40 credits

Total . . . 180 credits

Bachelor of Science

Freshman year

Mathematics	15 credits
English 100 and core option	10 credits
Philosophy 110 and 220	10 credits
Physical Science, Psychology or Economics	10 credits

Sophomore year

Mathematics	15 credits
History or Social Science core option	15 credits
Physical Science, Psychology or Economics	10 credits
Philosophy core option	5 credits

Junior year

Mathematics	15 credits
Physical Science, Psychology or Economics	10 credits
Theology core options	10 credits
Electives	10 credits

Senior year

Mathematics	15 credits
Electives	30 credits

Total . . . 180 credits

Bachelor of Science in Mathematics

Freshman year

English 100 and core option	10 credits
History/Social Science core options	15 credits
Mathematics 134, 135, 136	15 credits
Philosophy 110	5 credits

Sophomore year

Mathematics 233, 234, and 315 or 381	15 credits
Philosophy 220 and core option	10 credits
Physics 200	5 credits
Electives	15 credits

Junior year

French or German 105, 106	10 credits
Mathematics 411, 412, 413 or 431, 432, 433	15 credits
Physics 201, 202	10 credits
Theology core options	10 credits

Senior year

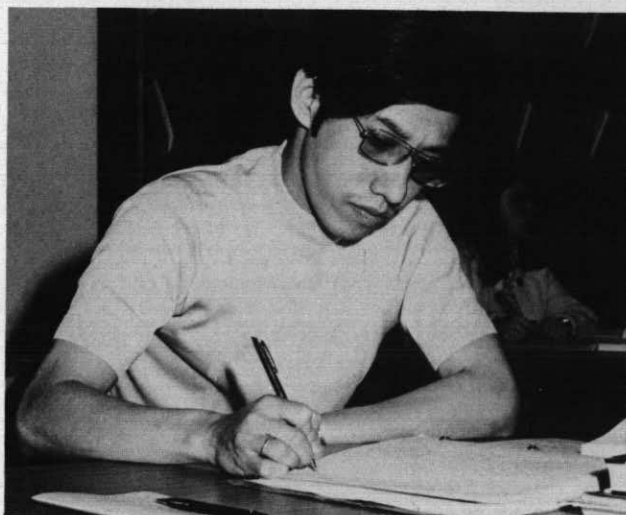
Mathematics 431-432-433 or 411-412-413 and electives	25 credits
Electives	20 credits

Total . . . 180 credits

Mathematics Courses

Mt 101 Intermediate Algebra	5 credits
Introduction to elementary logic and sets. Review of the fundamental operations of algebra; laws of exponents; linear and quadratic equations; inequalities; systems of equations. Prerequisite: one unit each of high school algebra and geometry. (fall, winter, spring)	
Mt 112 College Algebra and Trigonometry	5 credits
Sets; functions and relations; the algebra of functions; exponential and logarithmic functions; trigonometric and inverse trigonometric functions; identities; trigonometric equations; graphs of trigonometric functions. Prerequisite: Mt 101 or one-and-one-half units of high school algebra. (fall, winter, spring)	

Mt 114 Elementary Electronic Computer Programming	3 credits
Fundamentals of digital computing. FORTRAN language basic instruction; flow charts, loops, sub-routines. Operation of the computer and supporting equipment of the University Computer Center. One two-hour laboratory period per week. Prerequisite: Mt 101 or equivalent. (winter, spring)	
Mt 116 Computer Applications	2 credits
Techniques for problem solving; implementation of various formulas of mathematics, statistics, and the sciences; linear algebra. Assignments will require use of Computer Center equipment. Corequisite: Mt 114. (winter, spring)	
Mt 118 College Algebra for Business	5 credits
Sets, subsets; real numbers; relations and functions, graphing; linear, quadratic, exponential, logarithmic functions; systems of linear equations; inequalities; systems of inequalities and linear programming; applications to business and economics. Prerequisite: Mt 101 or qualifying examination. (fall, winter, spring)	
Mt 130 Elements of Calculus for Business	5 credits
Rate of change; derivative, basic differentiation formulas, applications of the theory of extrema; area under a curve; limits of sequences; the definite integral and applications. Prerequisite: Mt 118. (fall, winter, spring)	
Mt 134 Calculus and Analytic Geometry I	5 credits
Mt 135 Calculus and Analytic Geometry II	5 credits
Mt 136 Calculus and Analytic Geometry III	5 credits
I. Review of precalculus subjects; limits and derivatives; applications of limits and derivatives. II. Theory, technique, and applications of integration; differentiation and integration of trigonometric, exponential and logarithmic functions. III. Indeterminate forms; improper integrals; infinite series; Taylor's theorem; vectors, polar coordinates; solid analytic geometry. Prerequisites: Mt 112 or qualifying examination for 134; 134 for 135; 135 for 136. (All three offered fall, winter, spring)	
Mt 175 Mathematics for the Liberal Arts Student	5 credits
Elementary logic; sets, relations and functions; topics chosen from geometry, abstract algebra, linear algebra and computer; statistics and probability. (fall, winter, spring)	
Mt 200 Theory of Arithmetic	5 credits
Systems of numeration; elementary logic; sets; relations, equivalence relations, equivalence classes; number systems and the integration of these concepts. Prerequisite: Mt 101 or 175, or equivalent. (fall, winter, spring)	
Mt 214 Principles of Digital Computers and Coding	5 credits
Fundamentals of commercial and scientific computer programming including flowcharting, problem solving and file management. Laboratory assignments will require the use of Computer Center equipment. Prerequisite: Mt 101 or equivalent. (fall, winter, spring)	



- Mt 233 Multivariable Calculus and Linear Algebra** **5 credits**
 Partial derivatives, multiple integration and applications; introduction to differential equations; matrices and determinants. Prerequisite: Mt 136. (fall, winter, spring)
- Mt 234 Vector Calculus and Differential Equations** **5 credits**
 Vector spaces; linear transformations; eigenvalues; linear differential equations; systems of differential equations; power series solutions. Prerequisite: Mt 233 (winter, spring)
- Mt 291 Special Topics** **1-5 credits**
Mt 292 Special Topics **1-5 credits**
Mt 293 Special Topics **1-5 credits**
- Mt 300 Methods for Secondary School Mathematics** **5 credits**
 Special topics in mathematics relevant to the high school curriculum; emphasis on basic concepts and procedures for teaching them. Prerequisite: Mt 136 or permission of instructor. (spring of alternate years)
- Mt 315 Number Theory** **5 credits**
 Divisibility and the Euclidean algorithm; the Euler Phi-function; congruences; quadratic reciprocity law; numerical functions; the Mobius inversion formula. Prerequisite: Mt 135. (spring of alternate years)
- Mt 321 Foundations of Euclidean Geometry** **5 credits**
 Introduction to the axiomatic foundations of Euclidean geometry; ruler and compass constructions and the famous problems of antiquity; the 5th postulate and non-Euclidean geometries. Prerequisite: Mt 135. (winter of alternate years)
- Mt 322 Topics in Geometry** **5 credits**
 Selected topics from among convexity, applications of geometry, geometry in other subjects and transformation groups from the geometric viewpoint. May be repeated for credit with permission. Prerequisite: Mt 233 or permission. (winter of alternate years)

- Mt 351 Probability** **5 credits**
 Basic concepts and theorems in probability theory; the binomial, Poisson, normal and other fundamental probability distributions; moments; limit theorems. Prerequisite: Mt 233. (fall)
- Mt 371 Introduction to Numerical Methods** **5 credits**
 Approximation and errors; Newton's and Lagrange's formulas; finite differences and operators; numerical integration; numerical solution of differential equations. Three lecture and two laboratory hours per week. Assignments will require use of the Computer Center equipment. Prerequisites: Mt 114 and 136 or permission.
- Mt 381 Elementary Topology** **5 credits**
 Set theory; topology of the real line; topological spaces; compactness; connectedness; product spaces; metric spaces. Prerequisite: Mt 233. (spring of alternate years)
- Mt 411 Introduction to Abstract Algebra I** **5 credits**
Mt 412 Introduction to Abstract Algebra II **5 credits**
Mt 413 Introduction to Abstract Algebra III **5 credits**
 Theory of groups, rings, fields and field extensions; vector spaces and linear transformations; special topics. Prerequisites: Permission for 411; 411 for 412; 412 for 413. (offered in sequence: fall, winter, spring of alternate years)
- Mt 431 Introduction to Real Analysis I** **5 credits**
Mt 432 Introduction to Real Analysis II **5 credits**
Mt 433 Introduction to Real Analysis III **5 credits**
 Rigorous introduction to real analysis; limits, continuity, differentiation of real functions; functions on metric spaces; applications of compactness and connectedness; Riemann-Stieltjes integrals; sequences and series of functions; elements of Lebesgue theory. Prerequisites: Permission for 431; 431 for 432; 432 for 433. (Offered in sequence: fall, winter, spring of alternate years)
- Mt 437 Introduction to Complex Variables** **5 credits**
 The complex number system, analytic functions, integrations, series, residues, conformal mapping. Prerequisite: Mt 234.
- Mt 471 Numerical Analysis** **5 credits**
 Matrix inversion; systems of linear equations; a fixed point theorem and its applications; initial and boundary value problems; methods of Runge-Kutta and Hermite; finite differences.
- Mt 491 Special Topics in Mathematics** **2-5 credits**
Mt 492 Special Topics in Mathematics **2-5 credits**
Mt 493 Special Topics in Mathematics **2-5 credits**
 May be repeated for a maximum of 12 credits. Prerequisite: Permission.
- Mt 497 Independent Study** **1-5 credits**
Mt 498 Independent Study **1-5 credits**
Mt 499 Independent Study **1-5 credits**
 May be repeated for a maximum of 10 credits. Prerequisite: Permission.



Medical Technology

George D. Davis, M.S., Adviser

Associate Professor:
George D. Davis

Objectives

The Medical Technology program is designed to prepare the student for a professional career as a medical technologist or as a laboratory assistant in a biological research laboratory. Although there is a heavy concentration in basic sciences, the program is also designed to provide a liberal arts education.

Degree Offered

Bachelor of Science in Medical Technology

General Program Requirements

Students in this program must satisfy the core curriculum requirements of the University as given on page 24 of this bulletin for English, philosophy and theology and religious studies. Fifteen credits of history or social science are required.

Degree Requirements

Three years must be spent in academic work on campus and a fourth year of internship in an approved hospital. Those who successfully complete the year of internship will be granted only 45 credits toward a degree

from Seattle University and are eligible for certification by the Registry of Medical Technologists. The 45 credits for internship will be granted to those who have spent at least one full year on campus prior to interning. Such credits are not granted to students who have interned from some other school and come to Seattle University to complete their degree.

Current requirements for medical technology stipulated by hospitals in the area strongly recommend the completion of the bachelor's degree before beginning the in-internship program. It is recommended that the student in medical technology complete the Bachelor of Arts in Biology or Bachelor of Science in Biology or Chemistry in order to meet the expectations of the local clinical schools. The Bachelor of Science in Physics is recommended for the nuclear option. This would mean that the clinical internship would be taken as a fifth year prior to the examination for certification.

Bachelor of Science in Medical Technology

Freshman year

Biology 170, 171 and elective	15 credits
English 100	5 credits
History/Social Science core options	10 credits
Mathematics 112, 134	10 credits
Philosophy 110	5 credits

Sophomore year

Biology 275, 280 and 330 or 270, 271 and option	15 credits
Chemistry 114, 115, 116	15 credits
Philosophy 220 and core option	10 credits
Theology core option	5 credits

Junior year

Biology 300 and electives	15 credits
Chemistry 219, 235, 236	15 credits
English core option	5 credits
History/Social Science core option	5 credits
Theology core option	5 credits

Senior year

Internship	45 credits
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Total . . . 180 credits

Bachelor of Science in Medical Technology Nuclear Option

Freshman year

Biology 170	5 credits
English 100 and core option	10 credits
Mathematics 112, 134, 135	15 credits
Physics 105, 106, 107	15 credits

Sophomore year

Biology electives	15 credits
Chemistry 114, 115, 116	15 credits
Philosophy 110, 220 and core option	15 credits

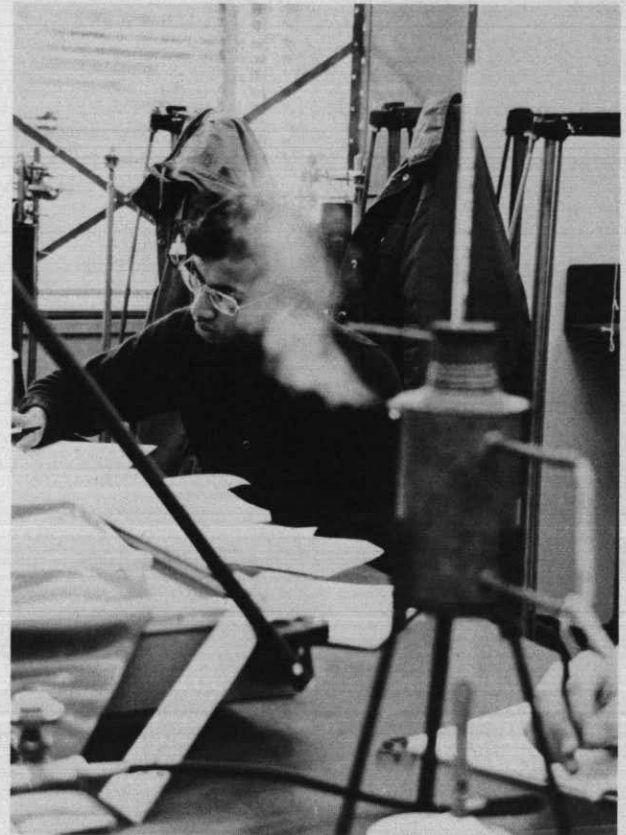
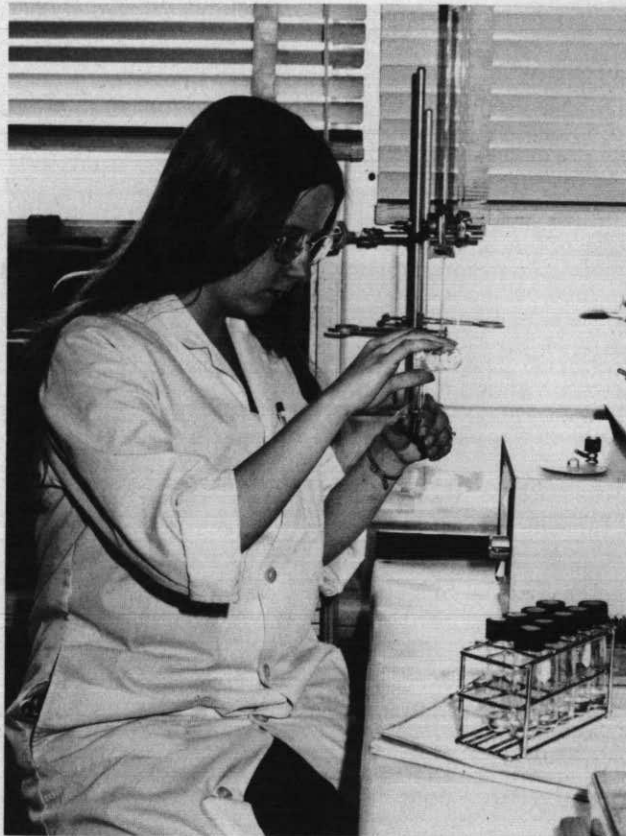
Junior year

Biology electives	10 credits
Chemistry 235, 236	10 credits
Physics 375 or Chemistry 461 and Physics elective	10 credits
Theology core option	10 credits
Electives	5 credits

Senior year

Internship	45 credits
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Total . . . 180 credits



**Bachelor of Science in Medical Technology
Cytotechnology Option**

Freshman year

Biology 170, 171 and elective	15 credits
English 100.....	5 credits
History/Social Science core options	10 credits
Mathematics 112, 134	10 credits
Philosophy 110	5 credits

Sophomore year

Biology 275, 280, 330 or 270, 271 and elective	15 credits
Chemistry 114, 115, 116	15 credits
Philosophy 220 and core option	10 credits
Theology core option	5 credits

Junior year

Internship.....45 credits
The certification examination for C.T. (A.S.C.P.) may be taken at the end of a full year of internship. Further training will be required for a Medical Technology certificate.

Senior year

Biology 300 and electives	15 credits
Chemistry 219, 235, 236	15 credits
English core option	5 credits
History/Social Science core option.....	5 credits
Theology core option	5 credits

Total . . . 180 credits

Physics

David Ehlers, Ph.D., Chairman

Professors:

James J. Cowgill, S.J.
Frank Valente (Emeritus)

Associate Professors:

David H. Ehlers
Reed A. Guy

Objectives

The Physics department offers three programs leading to degrees. For those who wish a career in physics, the Bachelor of Science in Physics program takes the student from classical mechanics through quantum mechanics, with the inclusion of advanced laboratory courses emphasizing nuclear and nuclear reactor physics. This curriculum is designed to prepare students for advanced work in pure and applied physics or for graduate study. For those who wish a broader training in the sciences in addition to a rigorous program in physics, the Bachelor of Science program offers the flexibility that is required. The Bachelor of Arts program is ideal for those who desire a solid background in physics along with a broad liberal arts education.

Degrees Offered

Bachelor of Arts
Bachelor of Science
Bachelor of Science in Physics

General Program Requirements

Students in physics must satisfy the core curriculum requirements of the University as given on page 24 of this bulletin for English, philosophy, and theology and religious studies. Core requirements for history and social science are as follows: for the Bachelor of Arts degree, 10 credits of history and 10 credits of social science; Bachelor of Science and Bachelor of Science in Physics degrees, 15 credits of history or social science.

Bachelor of Arts — 45 credits in physics which must include Ph 200, 201, 202, 203, 290, 310, 330 and 375. A minimum of 15 additional credits in a related science is required.

Bachelor of Science — 60 credits in physics which must include Ph 200, 201, 202 and 203; 30 credits in mathematics or science electives.

Bachelor of Science in Physics — 70 credits in physics which must include Ph 200, 201, 202, 203, 290, 310, 311, 330, 331, 361, 375, 481, 485 and 470 or 475. Mathematics 134, 135, 136, 233 and 234 are required.

Teaching Major (School of Education) — 45 credits in physics and mathematics; 30 credits in physics which must include Ph 105, 106, 107, 110, and 10 elective credits. Ph 290 and 375 are recommended electives, and Ph 200, 201, 202 may be taken in place of 105, 106, 107 for those students who desire a more rigorous background in general physics. The required 15 credits in mathematics must include 10 credits in calculus and computer. (Mt. 114, 116, 134).

Bachelor of Arts

Freshman year

English 100 and core option	10 credits
History core options	10 credits
Mathematics 112, 134, 135	15 credits
Physics 200	5 credits
Elective	5 credits

Sophomore year

Mathematics 136, elective	10 credits
Physics 201, 202, 203, 290	20 credits
Philosophy 110, 220	10 credits
Theology core option	5 credits
Electives	10 credits

Junior year

Philosophy core option	5 credits
Physics 310, 375	10 credits
Social Science core option	10 credits
Theology core option	5 credits
Electives	15 credits

Senior year

Physics 330 and elective	10 credits
Science electives	15 credits
Electives	20 credits

Total 180 credits

Bachelor of Science

Freshman year

English 100 and core option	10 credits
Mathematics or Science electives	15 credits
Philosophy 110, 220	10 credits
Physics 200	5 credits
Elective	5 credits

Sophomore year

History or Social Science core options	15 credits
Mathematics or Science electives	10 credits
Physics 201, 202, 203 and elective	20 credits

Junior year

Mathematics or Science electives	5 credits
Philosophy core option	5 credits
Physics electives	20 credits
Theology core options	10 credits
Elective	5 credits

Senior year

Physics electives	15 credits
Electives	30 credits

Total 180 credits

Bachelor of Science in Physics

Freshman year

English 100 and core options	10 credits
History/Social Science core options	15 credits
Mathematics 134, 135, 136	15 credits
Physics 200	5 credits

Sophomore year

Mathematics 233, 234	10 credits
Physics 201, 202, 203, 290	20 credits
Philosophy 110, 120	10 credits
Elective	5 credits

Junior year

Philosophy core option	5 credits
Physics 310, 311, 330, 331, 361, 375	30 credits
Theology core options	10 credits
Elective	5 credits

Senior year

Philosophy core option	5 credits
Theology core option	5 credits
Physics 481, 485, and 470 or 475	15 credits
Electives	20 credits

Total 180 credits

Physics Courses

Ph 101 Energy Sources and Uses 5 credits

Past, present, and projected energy demand and patterns of use in the United States and world wide. Survey of current and proposed methods of energy production; theoretical, technical, environmental and economic considerations. Fuel resources of the planet. Energy transmission and storage. Principles of energy conservation. Power use and resource profile of the Pacific Northwest. Core science option.

Ph 105 Mechanics and Sound 5 credits

Non-calculus survey of classical mechanics. Statics, kinematics, and dynamics of particles and systems; harmonic motion, waves, and sound. Four lectures and one three-hour laboratory per week. Prerequisite: Mt 112 or equivalent. (fall)

154 SCIENCE AND ENGINEERING
Physics

Ph 106 Electricity and Magnetism 5 credits
Survey of electromagnetism. Electrostatics, magnetostatics, electromagnetic fields, and d-c circuits. Four lectures and one three-hour laboratory per week. Prerequisite: Ph 105. Ph 105. (winter)

Ph 107 Survey of Modern Physics 5 credits
Introduction to thermodynamics and optics. Selected topics in atomic, nuclear, solid state, and biological physics. Four lectures and one three-hour laboratory per week. Prerequisite: Ph 106. (spring)

Ph 110 Introduction to Astronomy of the Solar System 5 credits
Descriptive survey of the solar system; historical development of man's investigation of the planets, sun, moon, and minor members of our solar system. Opportunity to observe the sun, moon, and planets through small telescopes is made available. Core science option.

Ph 111 Introductory Stellar Astronomy 5 credits
Physical properties of stars, their configurations and their evolution. Properties of galaxies and the structure of the universe. Quasars, pulsars, black holes, and the search for intelligent life in the universe. Prerequisite: Ph 110 or permission of instructor. Core science option.

Ph 200 Mechanics 5 credits
Introduction to vector mathematics; kinematics; conservation of momentum and collisions; relative motion and reference frames; force and Newton's laws; work, energy, and power; rotational dynamics; rigid body motion, gravitation. Four lectures and one three-hour laboratory per week. Prerequisite: Mt 134. (spring)

Ph 201 Electricity and Magnetism 5 credits
Electric charge, forces, and fields; electric flux and Gauss' law; electric potential; conductors, dielectrics, and capacitance; electric current and resistance; DC circuits; magnetic forces and fields; inductance; oscillatory systems; AC circuits. Four lectures and one three hour laboratory per week. Prerequisites: Ph 200 and Mt 135 or permission. (fall)

Ph 202 Waves, Optics and Thermodynamics 5 credits
Introduction to wave phenomena, both mechanical and electromagnetic, including reflection, refraction, dispersion, interference, diffraction and polarization. Temperature, the macroscopic properties of a gas, kinetic theory, thermal properties of solids and liquids, the second law of thermodynamics. Four lectures and one three-hour laboratory per week. Prerequisite: Ph 201. (winter)

Ph 203 Modern Physics 5 credits
Special relativity; particle aspects of radiation; wave aspects of matter; uncertainty principle; Schrodinger equation; atomic, nuclear, and elementary particle physics. Five lectures per week. Prerequisites: Ph 202, Mt 136. (spring)

Ph 290 Measurement and Instrumentation Fundamentals 5 credits
Principles of measurement of quantities such as flow, position, strain, radiation, velocity, current, power, temperature, voltage. Conversion by transducers into electrical signals and processing for recording, observation or control. Recognition and interpretation of physical data. Four lectures and one three hour problem/laboratory session per week. Prerequisite: Mt 134 and Ph 106 or 201.

Ph 291 Special Topics 1-5 credits

Ph 292 Special Topics 1-5 credits

Ph 293 Special Topics 1-5 credits
Directed reading and/or lectures at a lower division level. Prerequisite: Permission of instructor.

Ph 310 Intermediate Mechanics I 5 credits
Vector calculus and kinematics of a particle; one-dimensional motion of a particle subject to non-constant forces; two and three dimensional dynamics of a particle; moving reference systems; central forces and celestial mechanics. Prerequisites: Ph 200, Mt 234. (fall)

Ph 311 Intermediate Mechanics II 5 credits
Dynamics of a system of particles; mechanics of rigid body motion in a plane; general motion of a rigid body; Lagrange's equations; Hamilton's equations; theory of small vibrations. Prerequisite: Ph 310. (winter)

Ph 330 Electricity and Magnetism I 5 credits
Elements of vector calculus; electrostatic force, Coulomb's law and the electric field; electric flux and Gauss' law; electrostatic energy and potential; conductors, dielectrics, and capacitance; Poisson's and Laplace's equations; the steady magnetic field; time-varying fields and Maxwell's equations. Prerequisites: Ph 201, Mt 234. (winter)

Ph 331 Electricity and Magnetism II 5 credits
Inductance; magnetic materials; electromagnetic waves, waveguides and transmission lines; interaction of electromagnetic waves with matter; selected applications of electromagnetic theory. Prerequisite: Ph 330. (spring)

Ph 361 Solid State Physics and Devices 5 credits
Basic coverage of solid state physics with special emphasis on semiconductors: Crystal structure and crystal defects; interatomic binding; thermal and electrical properties; energy bands, carrier statistics and carrier transport phenomena. Semiconductor devices: P-N junction devices; diodes and transistors; basic device technology; Schottky diodes; field effect devices; Optoelectronic devices. Prerequisite: Ph 360. (spring)

Ph 375 Nuclear Instrumentation 5 credits
Integrated laboratory and classroom work in an intensive study of ionizing radiation. Emphasis is placed on nuclear decay processes, the interaction of radiation with matter, and instrumentation for the detection of photons, charged particles, and neutrons. Three lectures and two three-hour laboratories per week. Prerequisite: Ph 107 or Ph 202. (fall)



- Ph 391 Special Topics 1-5 credits
- Ph 392 Special Topics 1-5 credits
- Ph 393 Special Topics 1-5 credits

Ph 470 Nuclear Physics 5 credits
A study of physics at the subatomic level emphasizing the properties and structure of nuclei and elementary particles; symmetries and conservation laws; electromagnetic, weak, and hadronic interactions; nuclear models. Prerequisite: Ph 485. (spring)

Ph 475 Nuclear Fission and Fusion Reactors 5 credits
Basic physics of nuclear fission and fusion reactors; experiments on the essential operational parameters of nuclear fission reactors. Brief discussion of Environmental impact. Four lectures and one three-hour laboratory per week. Prerequisites: Ph 203 and junior standing or permission.

Ph 481 Theoretical Physics 5 credits
Selected topics in mathematical physics, including matrices and determinants, Fourier series, integral transforms, tensor analysis, functions of a complex variable, coordinate transformations, partial differential equations, special functions. Prerequisite: Mt 234. (fall)

Ph 485 Quantum Mechanics 5 credits
Introduction to quantum mechanics. The state function, the Uncertainty Principle, the Schrodinger equation, the square well and one dimensional solutions, wave packets, semi-classical approximation methods, and motion in three dimensions. Prerequisite: Ph 481. (winter)

- Ph 491 Special Topics 1-5 credits
- Ph 492 Special Topics 1-5 credits
- Ph 493 Special Topics 1-5 credits

- Ph 497 Undergraduate Research 1-5 credits
- Ph 498 Undergraduate Research 1-5 credits
- Ph 499 Undergraduate Research 1-5 credits

Premedical and Predental

George A. Santisteban, Ph.D., Adviser

Students wishing to enter professional schools of human, dental, or veterinary medicine or graduate school in biomedical studies, should matriculate in a program of studies leading to a bachelor's degree in any academic field which will give a broad training in the liberal arts and allow them to fulfill the proper premedical requirements in the physical and biological sciences. Premedical students may choose any academic major; most students elect biology, chemistry, physics, general science or psychology. Within the framework of any one of the degree programs, students obtain strong backgrounds in the liberal arts and humanities, as set up in the core curriculum. For further clarification of degree requirements and the core curriculum, see page 24 of this bulletin.

Most medical, dental or veterinary schools require the following undergraduate science sequences: Chemistry 114, 115, 116, 235, 236; Biology 170, 175, 310 and 326, 327 or 280, 330 (BI 300 is required for predental students); and Physics 105, 106, 107. Professional schools also recommend calculus, biochemistry, or physical chemistry. Students are advised to consult the bulletins of the professional schools to which they wish to apply to acquaint themselves with specific requirements other than those listed. Students should plan to complete preprofessional requirements by the end of their junior year. Students should apply to the professional school during the summer or fall of the senior year. The Committee for premedical and predental studies at Seattle University interviews the student following receipt of the MCAT or DAT scores and prepares a composite recommendation which is sent to the school to which the student has sent an application.

Preoptometry

Ernest P. Bertin, S.J., Ph.D., Adviser

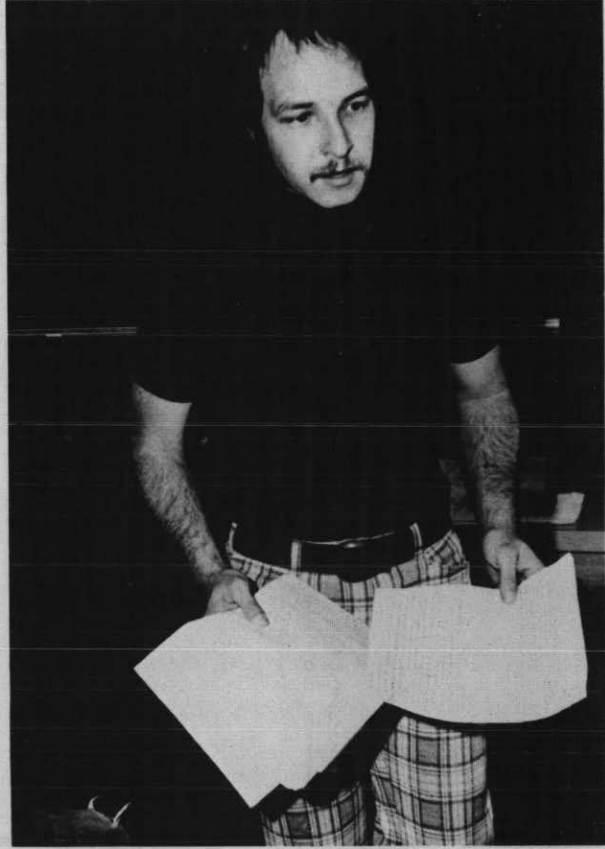
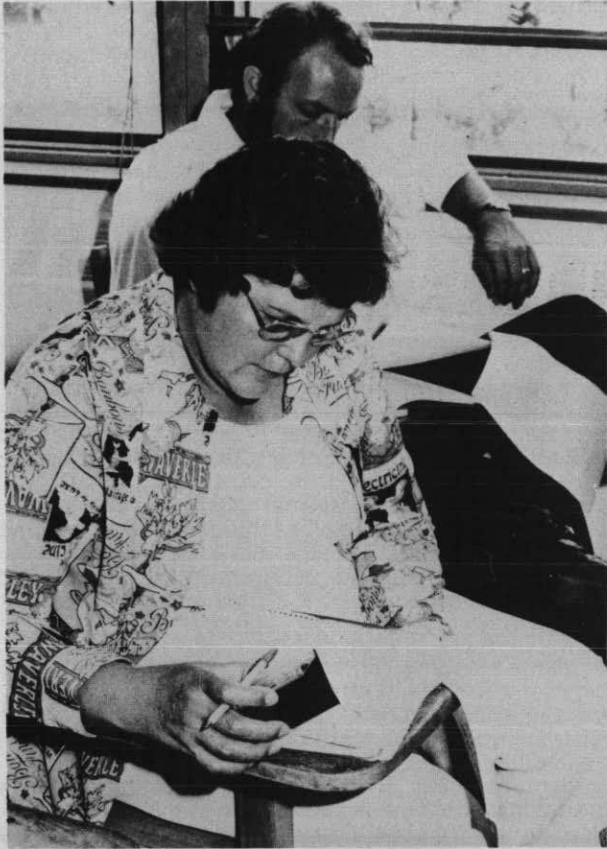
Preoptometry is a preparatory program for a career in optometry and is not a field of concentration. The basic requirement of the American Optometric Association is a two-year program, although the best preparation, and the one preferred by most professional schools, is a four-year undergraduate program leading to a bachelor's degree in one of the basic sciences.

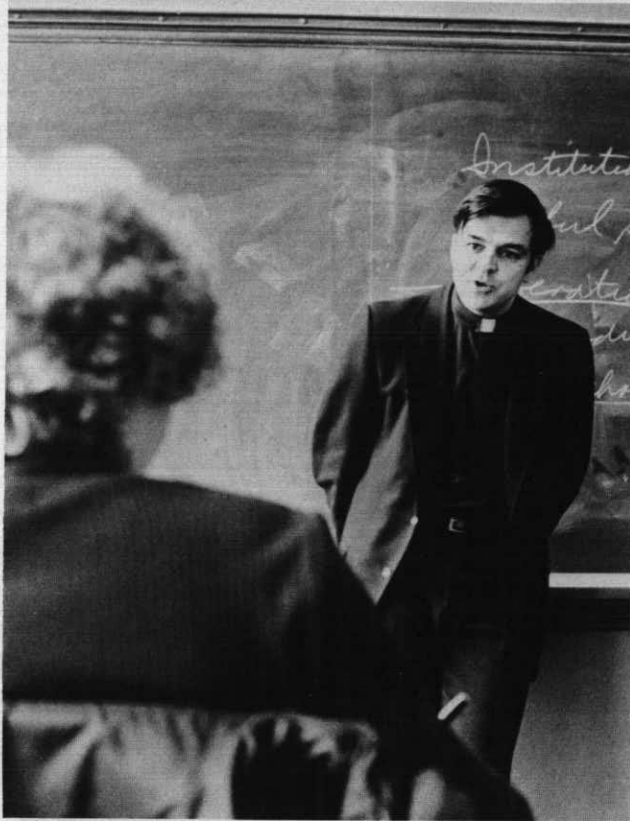
Program

All students who desire a career in optometry should consult with the preoptometry adviser before their first registration in the program and as needed thereafter. There are several choices of fields open to the students, but in general, a broad background in biology, chemistry, mathematics and physics is required. Typically, 10 to 15 hours in each of these fields is desirable, with more emphasis placed on biology and physics. Should the student desire a bachelor's degree prior to pursuing the professional training, any of these fields would be acceptable if certain electives are taken, although the Bachelor of Science in General Science offers the best combination of courses.



GRADUATE SCHOOL
James J. Cowgill, S.J., Ph.D., Dean





Graduate School

Graduate studies directed toward the master's degree were first offered at Seattle University in 1901 in a division of its College of Arts and Sciences. In 1935 graduate courses became an integral part of the University's teaching education program.

Objectives

Graduate School programs are not merely more courses in undergraduate study; they involve courses advancing by gradation into greater complexity and profundity. The content of graduate courses is of a more advanced nature, the requirements in terms of bibliography, quantity and quality of thinking and writing are higher, and the degree of initiative, the organizing ability and originality expected is greater. Only a limited number of undergraduate courses may be accepted for credit. Graduate students should not consider the mere literal fulfillment of requirements as conferring the right upon them to continued registration. Academic advancement and eligibility for degrees are contingent also upon recommendation and approval of the Graduate Committee of the school or department and the University Graduate Council.

Organization

Administration of the Graduate School and supervision of all programs leading to the master's degree lies with the Dean of the Graduate School and the Graduate Council. The Dean of the Graduate School and his Council establish and maintain requirements for degrees according to the recommendations of the Graduate Committee of each school of the University.

The component schools and various departments provide courses of instruction for graduate students, direct their studies, conduct examinations, maintain requirements and make recommendations. Academic transactions involving admission, registration and awarding of degrees are supervised by the University's Registrar. Actual admission to graduate study is granted through the Dean of the Graduate School in consultation with the appropriate graduate program director involved in the counseling of the applicant.

Classification of Students

A graduate student is one who has been admitted to the Graduate School to pursue a program of study leading to a specific master's degree. Graduate students are classified as regular, on probation or visiting. A student admitted on probation must demonstrate in his first quarter ability to do work of graduate quality. A visiting graduate student may take graduate courses for a single quarter only. In special circumstances, an undergraduate senior or fifth year student may be allowed to enroll in a graduate course with prior approval of the director of the graduate program in the area of the course in question or of the Dean of the College or School in which the course is taught.

Students pursuing course work beyond the bachelor's degree, who are not admitted to the Graduate School for a specific advanced degree are granted status as fifth year students and are under the jurisdiction of the dean of the college in which they are taking courses. A student pursuing certification in education is not a graduate student unless in addition to this study supervised by the School of Education he has been accepted by the Graduate School in a master's degree program.

General Program Requirements

The candidate for the master's degree must present a minimum of 35 credits beyond the bachelor's degree. He must satisfy any additional requirements imposed by the major department and the Graduate Council. In those programs which require over 35 credits, only 35 credits are required for those candidates who already have earned a master's degree in a related area.

All work must be of distinctly advanced character but, with the approval of the department and the Graduate Council, 15 credits in programs requiring only the minimum of 35 credits and 20 credits in those requiring 40 or more credits may be earned in courses numbered 300 to 499, if the subjects are suitable to the student's program. A maximum of 10 credits may be transferred from another institution if they are earned with a grade of "A" or "B" and approved by the department and Dean of the Graduate School.

Distribution of course work will be according to a program approved by the Dean of the Graduate School.

Every candidate for a master's degree must take a comprehensive examination in the major field of study. This examination shall be written and/or oral at the judgment of the department and the approval of the Graduate Council. A "B" average is required for work done toward the master's degree.



The student may be required to complete a thesis on a topic approved by his major department and the Dean of the Graduate School. For this work, no more than 10 credits are granted. The thesis is not necessarily a work of original research but it must, however, demonstrate the candidate's ability to collect facts, interpret them in a critical manner and organize and express them in an original, lucid way.

The topic of the thesis is to be approved by the student's mentor, graduate program adviser and the Dean of the Graduate School and filed with the Graduate School when 30 credits of the graduate program have been completed.

All thesis work must be done under the direct supervision of an assigned adviser.

Four unbound copies of the approved thesis are to be filed in the office of the dean four weeks before the date of graduation. Two of these copies will be bound and placed on file in the University's library; one copy will go to the department chairman and one copy to the student.

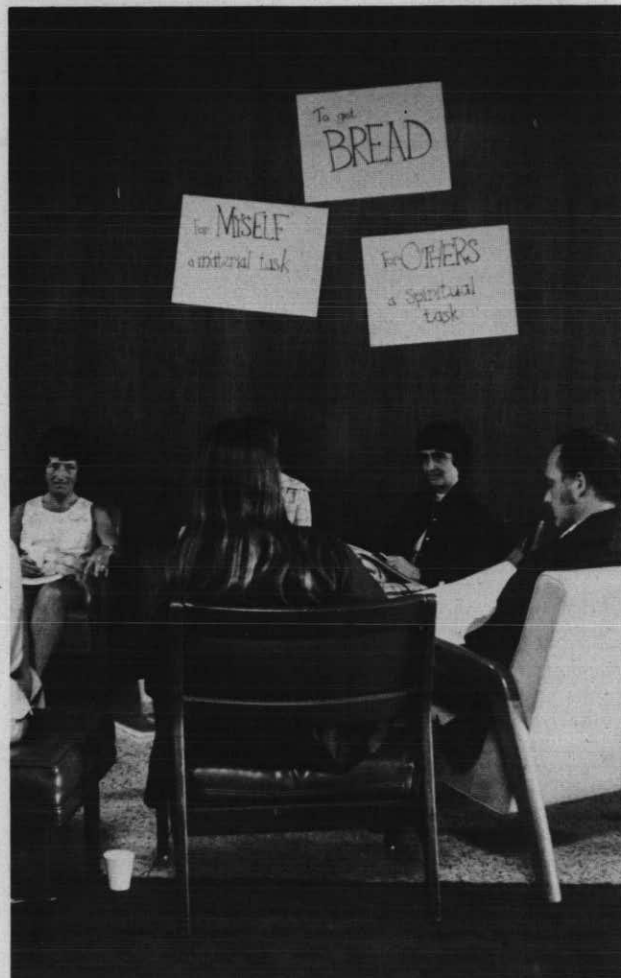
An oral examination on the content of the thesis, cognate literature and available source material may be held before a board appointed by the departmental chairman and approved by the Dean of the Graduate School.

All requirements for the master's degree must be completed within six years after course work is begun, including the time of any courses for which the candidate applies for transfer of credit. The application for the degree must be filed with the University Registrar by February 1 preceding the June in which the degree is to be received. Ordinarily each candidate for the Master of Arts degree will give evidence of a reading knowledge of a foreign language. Application for this examination must be made with the departmental office not later than April 15 preceding the June in which the degree is to be received. The Graduate School alone has the power to recommend a candidate for a Master's degree.

Admission Requirements

Admission to the degree program is granted to applicants who have received the bachelor's degree from an approved college or professional school, and whose scholarship records and credentials indicate ability to pursue graduate work. An undergraduate major and an undergraduate minor or their fair equivalents are required in the same departments or areas from which the student selects his graduate work.

Application for admission should be submitted as early as possible before the opening of the term in which the student wishes to begin his work. Prospective students must file an official application form and fee with the Office of Admissions. In addition, two official transcripts of academic credits from the institution granting the bachelor's degree and all schools attended since the undergraduate degree was granted are to be sent directly to Seattle University by each institution. Failure to file complete records of previous school attendance renders the student liable to dismissal or cancellation of credit. A student is not regarded as a duly qualified graduate student until he has received a letter of acceptance from the Dean of the Graduate School. For specific degree requirements, consult the graduate publications of the department concerned.





Foreign students who meet admission requirements, can demonstrate their English proficiency and are in the United States on a permanent visa will be considered for admission since no I-20 form is necessary.

Some students are admitted to the Graduate School on probation. This designation may be used when (1) the previous academic record is marginal or when there is a lack of adequate prerequisite course work in the chosen field or (2) when the applicant has majored in another area with a satisfactory record, but there is some doubt about his ability to pursue the program in question. A program to correct these deficiencies will be designed by the department and the student is expected to become qualified within a specified time limit. When all conditions have been fulfilled the department may recommend that the student be advanced to regular graduate status. Students who are unable to qualify for admission to regular graduate status will either be considered for another graduate program or dismissed.

Provisional admission to the Graduate School is granted to an applicant who must fulfill a special requirement to qualify for formal admission to graduate standing.

Admission to Candidacy

Application for admission to candidacy should be filed after the student has completed from 10 to 20 credits in courses applicable to the graduate program of the department, with a grade average of no less than B in these courses. At this time he must file the complete Program of Studies and Candidacy form.

Degrees Offered

Graduate Degrees offered by the University are:

ARTS AND SCIENCES

Master of Arts—English
 Master of Arts—History
 Master of Arts—Philosophy
 Master of Arts—Rehabilitation
 Master of Arts in Teaching—English
 Master of Religious Education (summer only)

BUSINESS

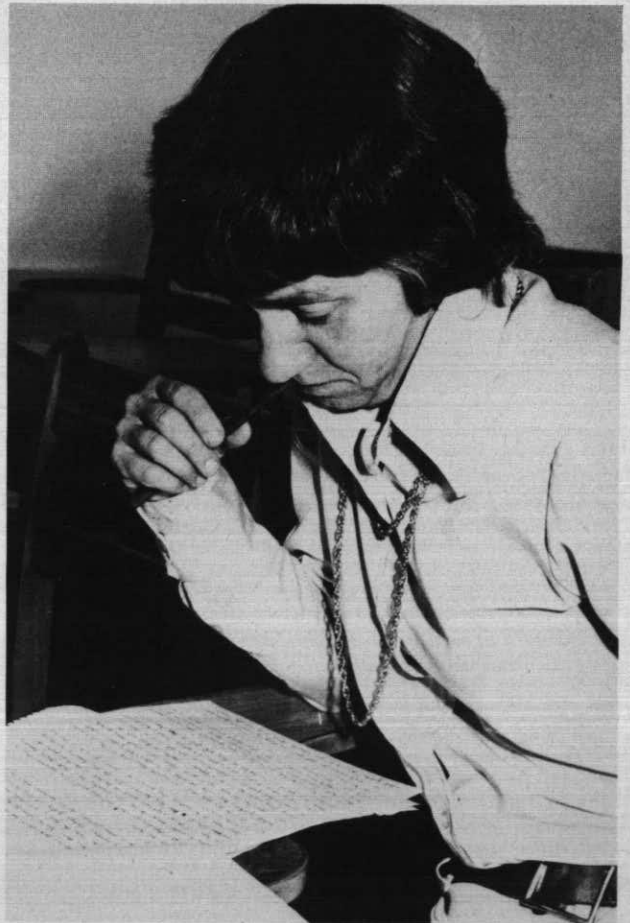
Master of Business Administration
 Master of Science in Accounting

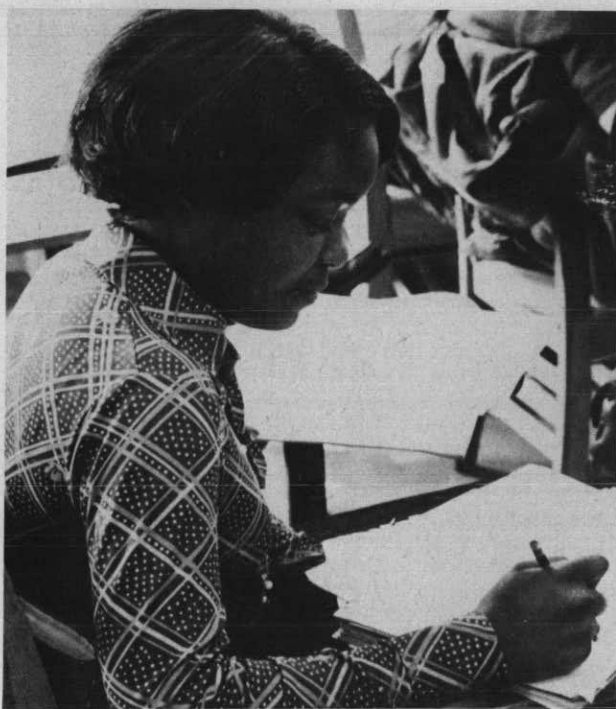
EDUCATION

Master of Arts in Education
 Master of Education
 These two degrees may be earned with specialization in the following areas: administration, curriculum and instruction, curriculum and instruction (with emphasis in physical education), guidance and counseling and adult education administration.

PUBLIC SERVICE

Master of Public Service





Master of Public Service

Typical Program

First Year

Pub 501 Applied Quantitative Analysis	3 credits
Pub 505 Legal Environment	3 credits
Pub 515 Bureaucracy and the Policy Process	3 credits
Pub 520 State and Local Government Systems	3 credits
Pub 525, 526, 527 Human Perspective in Public Service	3 credits
Pub 550 Urban Planning	3 credits
Pub 571 Public Finance	3 credits
Total	21 credits

Second Year

Pub 560 Criminal Justice Theory and Systems	3 credits
or	
Pub 580 Principles and Perspectives in Public Management	3 credits
Other electives	9-12 credits
Pub 588 Problem Oriented Project	9-12 credits
Total	24 credits

Public Service Courses

- Pub 450 Introduction to Research** **3 credits**
 Introduction to research skills and literature in students' fields. Includes an orientation to graduate studies.
- Pub 460 Introduction to Economics** **2 credits**
 Basic economic concepts and techniques of analysis. Organization, operation and control of the American economy. Preparation for Pub 571—Government Finance.

Pub 470 Readings in Public Service **2 credits**

Selected readings in intergovernmental relations, recent political theory, constitutional law and public administration and policy development. Seminar meetings based upon readings to analyze material and synthesize as foundation for interdisciplinary perspective.

Pub 491 Special Topics **1-3 credits**

Pub 492 Special Topics **1-3 credits**

Pub 493 Special Topics **1-3 credits**

Pub 501 Applied Quantitative Analysis **3 credits**

Statistical analysis and problems of public administration. Statistical analysis expectations, estimation, hypothesis testing, index numbers, simple linear models. Regression analysis.

Pub 505 Legal Environment **3 credits**

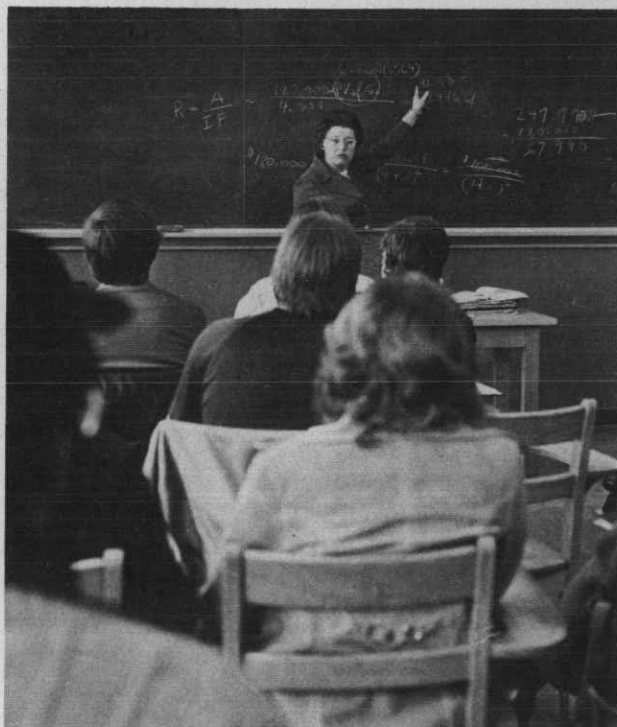
Objectives of American legal system, structure, procedures, courts and regulatory commissions. Relationship of law to social change and society's value. Contract, anti-trust and manufacturer's liability law.

Pub 515 Bureaucracy and the Policy Process **3 credits**

Overview and analysis of the public policy process; relationship between public agencies and elective bodies. Historic development and current trends in administration including systems analysis and organizational development.

Pub 520 State and Local Government Systems **3 credits**

Interdisciplinary approach to the nature and relationships of local government systems. Constitutional and legal powers, limitations, special problems in urban economics, issues of urban/suburban politics, metropolitan-regional government.





Master's in Public Service

Leonard B. Mandelbaum, Ph.D., Director

Assistant Professor:

Leonard B. Mandelbaum

Instructor:

Derek Mills

Objectives

The Institute of Public Service is an interdisciplinary graduate center which provides a Master's degree in Public Service to students who aspire to be public service professionals. The Institute's program is designed to provide: (1) an understanding of the principles and dynamics of the political process and the role of administrative agencies in that process; (2) analytic and research skills; (3) some familiarity with problems in public management. The Institute is committed to the public welfare and creates a favorable climate for students who seek to improve public policy making, planning and the delivery of public services.

Degree Offered

Master of Public Service

Admission Requirements

Applicants must meet the basic requirements of the Graduate School. A bachelor's degree from an approved college or professional school, and academic records and credentials which indicate ability to pursue graduate work are essential. Professional experience will be considered where such experience suggests ability to pursue the particular programs at the Institute. Maturity sufficient to work independently on the Problem Oriented Project is another criterion for admission. Motivation will also be considered inasmuch as the Institute is conceived as a developer of committed, mature and able public servants, rather than a certifying institution or a program for the refinement of narrow vocational skills. Applicants should submit two letters of reference (one attesting to potential for graduate work) and a letter of intent (two pages) discussing career objectives and interest in the program. While grade point average will not be used as a fixed guide, it is considered; some students may be admitted on probation for two quarters (maximum of 12 credits) after which they must be approved for regular status.

General Program Requirements

There are four elements to the program:

1. Foundation Courses: Depending upon previous education, students may be required to take foundation courses to gain the prerequisite knowledge to qualify them for the core courses and for the problem oriented research project. Foundation courses are not credited toward the 45 credit degree requirement. These foundation courses are: PUB 450, PUB 460 and PUB 470.
2. Core Courses: Pub 501, 505, 515, 520, 525-527, 550 and 571. Electives may be substituted whenever a student has the equivalent in experience or graduate work at another school.
3. Electives: All courses other than core courses are electives.
4. Problem Oriented Project, Pub 588.
5. Anyone electing an area of concentration must take at least one elective in another of the areas of concentration.

Areas of Concentration

The electives and Problem Oriented Research (PUB 588) may be combined into an area of concentration. The following are available:

Public Management	Criminal Justice Systems
Community-Urban Planning, Services and Policy Making	

Students, who have completed the Alcohol Studies Certificate Program at Seattle University, may apply for nine credits to be applied to the Master's in Public Service.

Pub 525 Human Perspectives in Public Service I 1 credit
Pub 526 Human Perspectives in Public Service II 1 credit
Pub 527 Human Perspectives in Public Service III 1 credit
 Fiduciary responsibilities of public service, the primacy of constitutional principles, human dignity and ethical precepts.

Pub 535 Planning, Performance, Budgeting and Program Evaluation 3 credits
 Planning process, planning analysis and the essentials of program budgeting and program evaluation.

Pub 545 Comparative Public Service 3 credits
 Analysis of criminal justice, welfare, human resource (elderly, juveniles, family) planning and administrative systems of other nations.

Pub 550 Urban Planning 3 credits
 Overview of the planning process. Urban and metropolitan problems, physical and social planning; impact of national policies and programs on planning.

Pub 552 Planning for Human Resources Programs 3 credits
 Theory and practice of planning as applied to social programs; application to programs for mental health, elderly, youth and Title XX. Client needs, program planning and organization, implementation, evaluation.

Pub 553 Housing and Policy and Planning 3 credits
 Analysis of the housing market. History, analysis and effects of government intervention. How local agencies plan for housing needs.

Pub 555 Employment Policy and Economics 3 credits
 Analysis of the labor market. Evolution of employment policy, economics and social goals. Analysis of federal legislation, man-power agencies. Problems of minority groups and the non-affluent.

Pub 557 Health Systems, Planning and Service Delivery 3 credits
 Analysis of the components of the health care system, patients, services and facilities. Emphasis on health manpower, public health and long term care.

Pub 559 Environmental Regulation and Land Use Planning 3 credits
 Survey of approaches to environmental control. Environmental impact analysis, shoreline management, strip mining legislation. Land use planning and control systems impact on business, labor, environment and quality of life.

Pub 560 Criminal Justice Theory and Systems 3 credits
 Major components of the criminal justice agencies viewed as an interdependent system. Required of students who select Criminal Justice area of concentration.

Pub 565 Criminal Justice Planning 3 credits
 Alternative strategies to meet public safety priorities in juvenile delinquency and corrections.

Pub 571 Government Finance 3 credits
 Revenues, expenditures and debts of federal, state and local governments; economic theories; constitutional limitations; government finance as means for social reform.



Pub 580 Principles of Public Management 3 credits
 Survey in management theory. Scientific management, human relations, Theory X and Theory Y, and contingency concepts. Organizational leadership and decision-making; management of public organizations.

Pub 582 Organization Communication and Conflict 3 credits
 Human behavior in organizations. Group dynamics, intergroup conflict, interaction between formal and informal systems, motivation and participation. Task-oriented groups; communications skills.

Pub 585 Management of Change 3 credits
 Process of social change in American society, its impact on the public and organizations, especially the corporation. Technology and culture, ecological awareness, poverty, consumer law, life styles, attitudes toward work.

Pub 587 Systems Theory and Management Techniques 3 credits
 Survey of contemporary tools designed to provide administrators with an improved understanding of problems and strategies. General systems theory. Delphi method. Critical Path Method and GANTT charts. Prerequisite: Pub 535 or Pub 580 or permission of instructor.

Pub 588 Problem Oriented Project 3-15 credits
 Research and design in a student's special sphere of interest. Problem design will require comprehension of the following areas: A major phase of public management; the policy process; and human/community sensitivity. Prerequisite: Pub 501.

Pub 590 Special Topics 1-5 credits

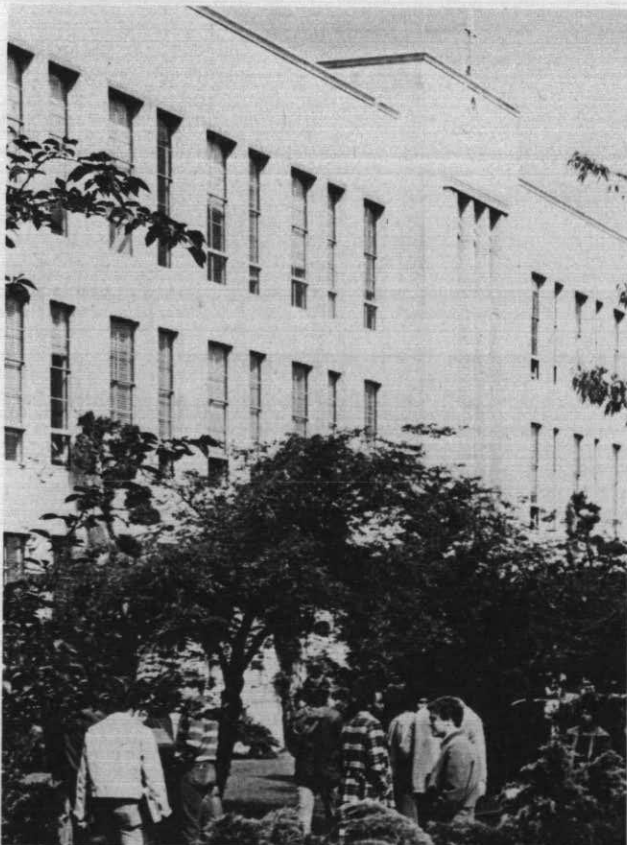
Pub 594 Internship in Community-Urban Planning 3 credits

Pub 595 Internship in Criminal Justice 3 credits

Pub 596 Internship in Public Management 3 credits

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Geoffrey Stamper, J.D. Director of Development
Leigh Stevens, B.A. Director, Computer Systems
David A. Thomas, M.S.W. Director, Minority Student Affairs
Kip Toner, B.C.S. Financial Aid Director
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Faculty

The dates following faculty names indicate initial and subsequent appointments or return from leave to the University faculty. Asterisks preceding names denote faculty members on leave of absence. Daggers (†) following names indicate Graduate School faculty members.

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A.B., 1930, Valkenburg, Holland; S.T.L., 1940, St. Louis University; M.A., 1941, Gonzaga University; Ph.D., 1949, Georgetown University.

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 The Dean of the particular school, Academic Vice President or the Provost

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 Director of Admissions

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Degrees and Graduation
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