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SEATTLE UNIVERSITY





1978-79 BULLETIN OF INFORMATION

Vol. 9 No. 4 Summer, 1978

Published Quarterly by Seattle University Seattle, Washington 98122 Second class postage paid at Seattle, Washington

The University reserves the right to change the fees, rules and calendar regulating admission and registration, instruction in, and graduation from the University and its various divisions and to change any other regulations affecting the student body. Changes go into effect whenever the proper authorities so determine and apply not only to prospective students but also to those who at that time are matriculated in the University. The University also reserves the right to discontinue courses at any time.

As a general rule, students follow the academic programs contained in the Bulletin in Information in effect at the time of their matriculation.

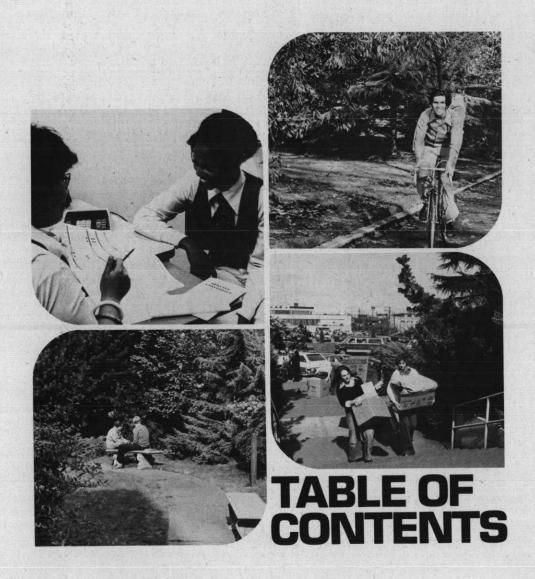
Seattle University Bulletin of Information Editor / Jean Merlino Assistant Editor / Allen Lee

Photography by Jonathan Mylius / Allen Lee /
Steve Celle / Floyd Saiki

Information concerning graduate and summer school programs may be obtained in supplementary bulletins.

An Equal Opportunity Employer

SEATTLE UNIVERSITY SEATTLE, WASHINGTON 98122 (206) 626-6200





October 4 November 8 November 13-22 November 22 November 23-24 December 6-8

Last Day to Add or Change Last Day to Remove Incompletes Advance Registration (Winter 1979) Last Day to Withdraw with 'W' Thanksgiving Holiday-No Class **Final Examinations**

Winter Quarter 1979

November 13-22 January 3 January 3 January 9 January 9 February 13 February 12-22 February 19 February 23 March 7-9

Advance Registration (Winter 1979) Registration Classes Begin Last Day to Register Last Day to Add or Change Last Day to Remove Incompletes Advance Registration (Spring 1979) Washington's Birthday-No Class Last Day to Withdraw with 'W' **Final Examinations**

Winter Quarter 1978

November 14-23 January 4 January 4 January 10 January 10 February 13 February 14-24 February 20 March 1 March 13-15

Advance Registration (Winter 1978) Registration Classes Begin Last Day to Register Last Day to Add or Change Last Day to Remove Incompletes Advance Registration (Spring 1978) Washington's Birthday-No Class Last Day to Withdraw with "W" **Final Examinations**

Spring Quarter 1978

February 14-24 March 28 March 28 April 3 April 3 April 24 - May 12 May 8 May 16 May 29 May 30 - June 2 June 3 June 4

Advance Registration (Spring 1978) Registration Classes Begin Last Day to Register Last Day to Add or Change Advance Registration (Summer 1978) Last Day to Remove Incompletes Last Day to Withdraw with 'W' Memorial Day-No Class Final Examinations Baccalaureate Commencement

Summer Quarter 1978

April 24 - May 12 June 19 June 19 June 23 June 23 July 4 July 14 July 17 August 10-11

October 4

Advance Registration (Summer 1978) Registration Classes Begin Last Day to Register Last Day to Add or Change Independence Day-No Class Close First Term Registration Second Term **Final Examinations**

Fall Quarter 1978

September 25 Orientation September 26 Registration—Continuing Students September 27 Registration-New Students September 28 Classes Begin Last Day to Register

Spring Quarter 1979

February 12-22 March 26 March 26 March 30 March 30 April 13 April 23-May 15 May 7 May 16 May 28 May 29-June 1 June 2 June 3

Advance Registration (Spring 1979) Registration Classes Begin Last Day to Register Last Day to Add or Change Good Friday-No Class Advance Registration (Summer 1979) Last Day to Remove Incomplete Last Day to Withdraw with 'W' Memorial Day-No Class Final Examinations Baccalaureate Commencement

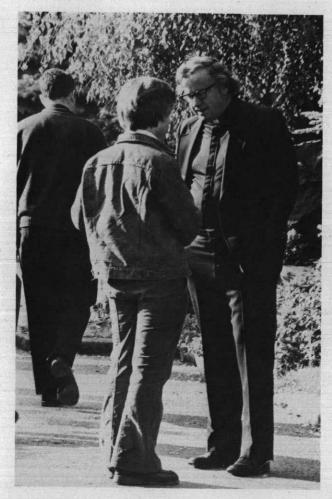
Summer Quarter 1979

April 23-May 15 June 15, 18 June 18 June 22 June 22 July 4 July 13 July 16 August 9-10

Advance Registration (Summer 1979) Registration Classes Begin Last Day to Register Last Day to Add or Change Independence Day-No Class Close of First Term Registration Second Term **Final Examinations**



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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.

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 "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. 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 and its first graduate degree in 1910.

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.

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 un-

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, sociology and theology and religious studies. Program divisions are: community services, criminal justice/police science, general studies, honors, prelaw and speech.

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

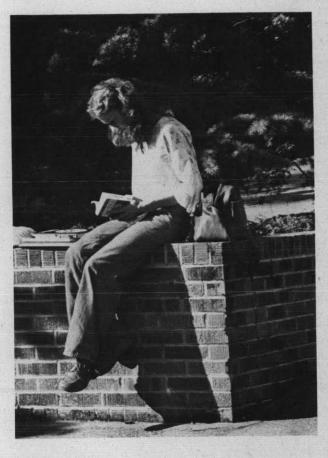
The School of Education offers programs which qualify its students for teaching certificates and principals' credentials issued by the State Department of Public Instruction.

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: allied health technology, general science, health information, medical technology, predental, 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 business, education, philosophy, public service, rehabilitation, religious education and transporta-tion engineering. A Doctor of Education degree with a major in Educational Leadership is offered.





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 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 Education, American Council on Education, Association of Higher Education, Association of Jesuit Colleges and Universities, Independent Colleges of Washington, National Commission on Accrediting, Northwest Association of Colleges, Western Interstate Commission for Higher Education.

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 3,600. Presently, the campus contains 22 buildings, including modern classrooms, student and faculty residences and service units.

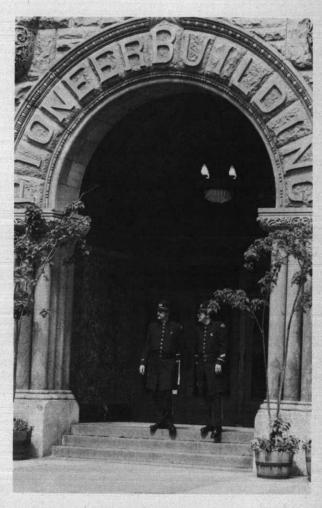
The housing facilities available on campus are Bellarmine Hall, Xavier Hall and Campion Tower. Residence halls are coed.

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 carrells, 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 Student Life, 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.





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

The McGoldrick Student Development Center,, opened in 1976, includes the Career Planning and Placement Center, Counseling and Testing, the Minority Student Affairs office and the Campus Ministry office.

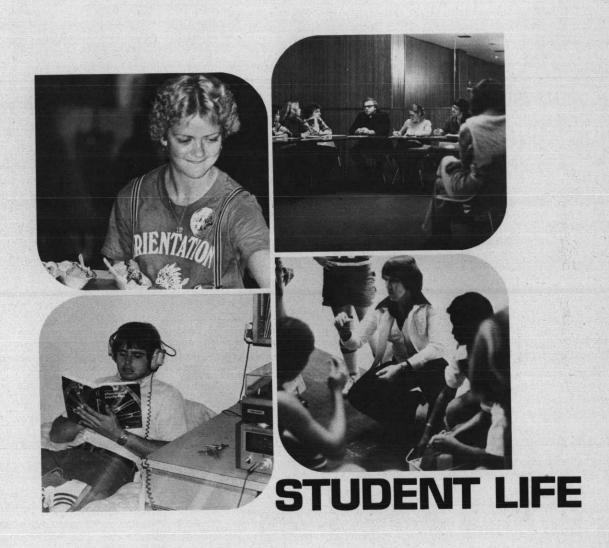
Seattle University is located in a seaport city surrounded by unsurpassed natural beauty. Seattle, the largest city in the Pacific Northwest and one of the 25 largest in the United States, has all the scenic and cultural variety of a metropolitan city with the unique advantage of mountains and water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



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 11-13. Seattle University reserves the right to change its charges without notice prior to the beginning of any quarter or summer session.

A student who has not met his/her financial obligations following registration will have his/her registration cancelled unless allowed to continue under conditions agreed to by the Controller.

Spring \$61.00 per credit hour

Undergraduate courses: Fall, Winter,

Tuition Rates

| Masters degree programs | To the per dicultinear |
|------------------------------|-------------------------|
| Business | \$87.00 per credit hour |
| Public Administration | |
| Rehabilitation | \$73.00 per credit hour |
| Education | \$65.00 per credit hour |
| Arts and Sciences | \$65.00 per credit hour |
| CORPUS Masters | |
| Transportation Engineering . | \$73.00 per credit hour |
| Doctor of Education | \$87.00 per credit hour |
| Certificate programs | |
| Alcohol Studies | \$44.00 per credit hour |
| Rehabilitation | \$61.00 per credit hour |
| CORPUS | \$65.00 per credit hour |
| Transportation Engineering . | \$73.00 per credit hour |

Auditors tuition \$22.00 per credit hour

Health Information \$61.00 per credit hour

Development \$73.00 per credit hour

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

Human Resources

Two or more members of a family living in the same household and dependent upon a common support and attending the University concurrently may apply for a tuition discount. Further information on the Family Tuition Plan can be obtained from the Financial Aid Office.

Refunds

| Withdrawals (full or p | oa | I | Ϊź | al. |) | | | | | | |
|------------------------|----|---|----|-----|---|--|--|--|--|--|------------|
| 2-10 class days | | | | | | | | | | | 80 percent |
| 11-15 class days | | | | | | | | | | | 60 percent |
| 16-20 class days | | | | | | | | | | | 40 percent |
| 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. Refunds for tuition and residence hall charges to students on financial aid will be applied first to financial aid source and the balance, if any, will be remitted to the student.

Fees-Non-Refundable

| Application, undergraduate and graduate \$15.00 (must accompany application form) Application, transient students \$10.00 Late registration, per day \$10.00 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) \$10.00 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. |
| Certificate Fee\$10.00 |
| Thesis binding |
| Graduate Record Examination \$ 7.00 |
| Medical Technology Internship |
| (per credit hour) |
| Washington Pre-College Tests \$ 7.00 |
| Laboratory Fees |
| Allied Health: All laboratory courses \$13.00 |
| Biology: All laboratory courses \$13.00 |
| Business 310, 500 |
| Chemistry: All laboratory courses \$13.00 |
| Education 330, 528 \$ 6.00 |
| Ed 547 |
| Ed 441 (internship fee—per section) \$35.00 |
| Engineering: |

Music:

MU 110, 111, 120, 122, 123, 125 \$60.00

Piano Practice room, one hour daily
per quarter \$8.00

Nursing: N 205, 206, 312 ... \$6.00

Physics: All laboratory courses ... \$13.00

Psychology:

Residence Charges

* Based upon 21 meals per week. Other options are also available. Further information can be obtained through the office of the Director of Resident Student Services.



Student Life

One of the primary aims of the educational mission at Seattle University is the total development of students. This holistic growth process is enhanced by integrating opportunities for social, emotional, cultural, physical and spiritual development, in addition to intellectual growth. The Division for Student Life is committed to providing programs and services conducive to fostering an educational environment which will assist students in achieving their full potential.

Located in the McGoldrick Student Development Center, the Student Union, the Connolly Center, the Child Care Center, and the three University residence halls, the professionals who comprise the Student Life staff are committed to meeting the developmental needs of Seattle University's diverse student population.

The Dean for Students office coordinates all Student Union programs and serves as a resource for student clubs and organizations. Special leadership training, and programs for women, off-campus and non-traditional students are also administered through the Dean's office, as is the New Student Orientation program each fall.

The Counseling and Testing Center offers personal counseling for all students focused on developing self-awareness, and improving individual communication skills and interpersonal relationships. A unique pro-

gram called Peer Advising for the College Experience, PACE, was launched in 1977 involving a broad spectrum of Seattle University students in the counseling process. Tests of scholastic ability and vocational aptitude are also offered.

The Career Planning and Placement office makes available career counseling, job referral services, and workshops on resume writing, interviewing, and job-seeking skills to students. Coordination of the part-time work-study student employment program is also accomplished through this office.

The International Student Adviser is the campus liaison for all students from abroad, including those who transfer to Seattle University from other American colleges. It provides a "home base" for these students, facilitating the assimilation of the international students into the University community.

The Minority Student Affairs office serves the personal, academic and cultural needs of the ethnic minority students attending the University, coordinating activities of such student groups as the Native American Club, the Black Student Union, Kapatiran and the Rainbow Coalition. The scope of the Minority Student Affairs office is not limited to the campus perimeter, as it serves as liaison between the University and the many minority communities in Seattle.

The Campus Ministry team is committed to developing the spiritual life of the university community. Besides providing sacramental and liturgical celebrations for Catholics, the team is concerned with nurturing the values of Christian Humanism. Retreats, Searches, Faculty-Staff Renewals, Reach Out programs, individual spiritual direction and off-campus student CARISM communities enable members of the community to enrich and share their spiritual values and religious traditions.





The Child Care Center is open to children from families of students and employees of Seattle University, and supplements the University's community program by also serving children from families within S.U.'s surrounding Central City community.

The Learning Skills Center was instituted at Seattle University with the assistance of a federal funding program to identify and remedy special learning problems for disadvantaged students. Tutorial assistance, self-paced courses in English and mathematics, an academic skills laboratory and career guidance seminars are offered. Disabled student assistance and counseling is also a vital part of the Center's program.

Orientation programs are sponsored each fall to facilitate social and academic adjustment of new freshmen and transfer students. A transfer student orientation is also held during winter and spring quarters.

Student Clubs and Organizations provide Seattle University students with opportunities to develop leadership skills, broaden their social and professional backgrounds, and make a significant contribution to both the University and the community. Student government (ASSU), student publications, preprofessional organizations, service clubs, scholastic honoraries, and community outreach are among the varied groups in which students may choose to participate.

Other Student Services

Academic Advisement is coordinated through the various schools within the University by the deans and department chairpersons in a student's major area. Adviser assignments are normally made during the fall Orientation period.

The Student Health Center is open to all regularlyenrolled students. Full-time students and their dependents are also eligible to participate in the University's health insurance program.

Athletics

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 intercollegiate athletic policies are governed by the constitution and by-laws of these associations, and the athletic director administers the intercollegiate and intramural athletic program. Seattle University students compete on the intercollegiate level in basketball, baseball, golf, tennis, soccer and cross country. The women's intercollegiate sports program includes competition in basketball, gymnastics, tennis and volleyball. A comprehensive intramural program is also offered to all students in several formal and informal sports activities. The primary athletic facility on campus is the Connolly Center, a \$3.2 million recreation and physical education complex built in 1968.

Housing

Seattle University requires all full-time freshman students under 21 years of age to live in University housing unless they are married, living with parents or unless they have been granted an advance waiver by the Director for Resident Student Services.

Residence Halls

There are three coeducational residence halls on campus which offer convenient living accommodations, lounges and facilities for study and recreation. Bellarmine Hall is a seven-story dormitory built in 1962 which houses over 400 students. The main campus dining room for resident students is located in Bellarmine Hall. Xavier Hall is a smaller living facility accommodating approximately 200 students, and Campion Tower is a modern 12-story dormitory. All residence halls are supervised by experienced resident directors, floor moderators and student resident assistants.

Application for Housing

Requests for on campus student housing are made through the Director for Resident Student Services. A seventy-dollar (\$70.00) deposit is required for reservations. See page 8 for housing cost information. Cancellation of reservations must be received by the Director for Resident Student Services no later than August 1, or the deposit will be forfeited. Residents who terminate their stay in University residence halls before the end of the quarter, will be subject to a penalty fee before a refund can be issued.



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 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). Financial need is the difference between the cost of attending college and the amount the student and family is expected to 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 Office 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.

Types of Financial Aid

Eligible students are likely to receive a combination of three types of aid, commonly called a financial aid "package".

- GRANT and SCHOLARSHIP An out-right award that does not require repayment.
- LOAN College loan programs allow liberal repayment periods and low interest rates. Repayment normally begins after graduation.
- EMPLOYMENT An opportunity to work at a campus job or in a Seattle area business.

Seattle University reserves the right to change its financial aid policy without notice.

How to Apply for Financial Aid

- Apply for admission to Seattle University. A student must be ACCEPTED to Seattle University before being considered for financial aid.
- Submit by mail the Financial Aid Form to CSS offices in Berkeley, California or Princeton, New Jersey. 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 CSS.
- Submit the Seattle University Application for Aid to the Seattle University Financial Aid Office.
- 4) Apply by mail for the Basic Educational Opportunity Grant by using either the CSS Financial Aid Form or a Basic Grant application form. Either form will generate a Student Eligibility Report (SER) by mail to the applicant. Submit all three copies of the SER to the SU Financial Aid Office.

To ensure maximum consideration for financial aid, the Seattle University Financial Aid Office must be ready for

consideration by March 1. It is the applicant's responsibility to see that the file contains all necessary documents. Applicants whose files receive documents after the March 1 deadline will be evaluated for need and offered aid on a funds available basis.

Currently enrolled students, new 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. Continuing students must reapply for financial aid each year. Summer quarter requires a separate application.

Applicants are advised to make and retain copies of all documents submitted.

GRANTS

A limited number of grants are awarded annually to entering new students, transfer students and currently enrolled students. Awards are based on scholastic achievement, financial need, participation in school and community activities and leadership potential. Applicants need not prepare, except as indicated, a separate application for grants. All applicants for financial aid are automatically considered as a part of a financial aid package. Grant awards range from partial to full tuition. Other financial aid may apply to living expenses.

These grants are funded by Seattle University when offered. Subsequently the grant may be designated as funded by a donation to the University.

Honors Program Grants

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

Donated Grants

These are grants 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.

The Blume Family

The Boeing Company

A grant to students in engineering, physics, mathematics, or business. Renewable.

Alphonse & Mary Brenner and John Brenner Grant Fund

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

Louella Cook Foundation

Farmers Insurance Group

Renewable grants to University students in business or mathematics.

Alice Fisher Scholarship Fund

A partial grant award to Junior and Senior Núrsing students.

Seattle University Guild Endowment Scholarship Fund

Scholarship fund available to all students.

Agnes Handley Memorial Grant

Henry T. Ivers Memorial Scholarship

Laventhol & Horwath

A partial grant award to a student in accounting.

Harry Kinerk Memorial Grant

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

Rosemary McCone Memorial

Paul Pigott Memorial

Pay-n-Save Corporation Grant

For a student in marketing.

ROTC Grants Army

United States Army awards to selected high school seniors and college freshmen, sophomores and juniors who enroll in the Army Reserve Officer Training Corps program at Seattle University. 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 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.

Washington Congress of Parents, Teachers and Students Financial Grant

A grant to an incoming first year new student with deep need. Renewable.

Western Gear Foundation

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

William R. Woods Business Grant

A \$1000 award to a deserving upperclassman or graduate. Contact the Dean of the Albers School of Business.

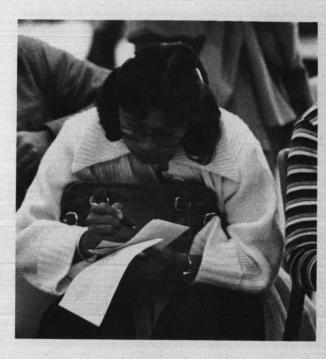
Wyman Youth Trust

Loans

Loans are an integral part of the financial aid award "package" offered to students. Some loans do not require payment of principal 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, a resident of a Trust Territory, 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 or \$10,000 for combined undergraduate and graduate education. Repayment begins nine months after the student graduates or leaves school. The annual interest rate is three percent and repayment may



extend ten years, but payments may not be less than \$30 per month. The NDSL repayment program also includes deferrment provisions and cancellation features.

Federaly 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 or \$10,000 for combined undergraduate and graduate 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 at not less than \$360 per year. 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.

Law Enforcement Education Loan

A long term loan for full time employees of police, corrections agencies, or courts who are also full time students enrolled in a graduate or undergraduate program related to law enforcement. A LEEP loan will provide funds to cover tuition and fees. The Criminal Justice/Police Science and Community Services programs have been approved for this loan. The annual interest rate is seven per cent with a liberal cancellation policy.

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.

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.

Government 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 Educational 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. SEOG awards are non-repayable. Graduate students are not eligible.

Basic Educational Opportunity Grant (BEOG)

Students considering Seattle University are encouraged to use either the BEOG application form or the CSS financial aid form to apply. In approximately four weeks the federal government returns to the student a Student Eligibility Report (SER) and, regardless of the reported eligibility, it is necessary for the student to forward all three copies of that SER to the Seattle University Financial Aid Office which will determine the BEOG amount, all of which is non-repayable. Up to \$1,800 per year may be available. Students currently enrolled at Seattle University and receiving financial aid are required to file a BEOG application and submit the Student Eligibility Report. Graduate students are not eligible.

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.

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 attending full time. Information and forms may be obtained from a Social Security office.

Student Employment

The financial aid award frequently includes work-study along with the loan and grant elements. Work-study eligible students may earn funds by being employed under the work-study program. This earned income may be used to pay either tuition or living costs. It is important to note that funds earned during the academic year under the work-study program will not be available at the time of Fall quarter registration and students must plan accordingly.

Work-study eligible students are not required to work nor is employment guaranteed. The Seattle University Career Planning and Placement Office assists the student in obtaining employment on or off campus.

Federal College Work-Study Program

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

Washington State Work-Study Program

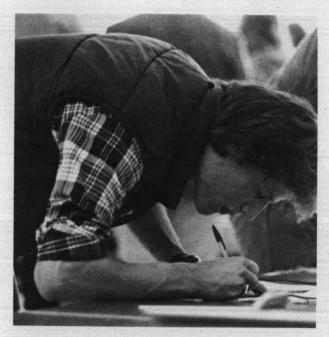
Students who have a determined need per the state formula are offered part-time employment with off campus employers including for profit employers.

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 Placement Center

The Career Planning and Placement Office maintains a listing of employment available on campus and with Seattle area employers. Literature and instruction in jobseeking skills are provided for students and alumni.



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, handicap or national origin. It does so in keeping with the guidelines and requirements of laws and regulations as promulgated by state and federal agencies.

Seattle University does not discriminate on the basis of handicap in conformity with section 504 of the Rehabilitation Act of 1973 in admission or access to its programs and activities, nor in its employment policies or practices.

Dr. Ekkehard Petring is the responsible employee designated by Seattle University to coordinate its effort to comply with section 504 of the Rehabilitation Act of 1973.

This constitutes the official notice called for in Section 504, No. 84.8, Paragraph a.

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 a 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.

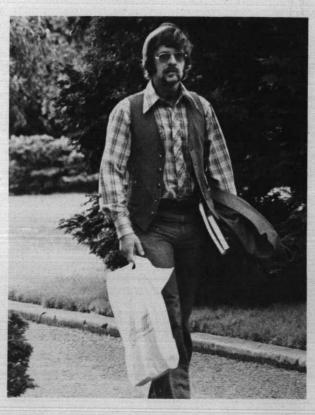
Unit Requirements

Admission is granted subject to graduation from an accredited high school and the applicant must present as part of his/her 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/she 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:

- 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.
- Submit a non-refundable application fee of \$15 to the Office of Admissions. Make remittances payable to Seattle University.
- Follow carefully any other instructions which are received with the letter of acceptance.
- 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 women should be addressed to the Director of Resident Student Services.

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 guarter.

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 may 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.

Placement Examinations

Placement tests in chemistry, mathematics and foreign languages are administered by these departments during Orientation and offer entering freshmen the oppor-

tunity 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.

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.

Advanced Placement

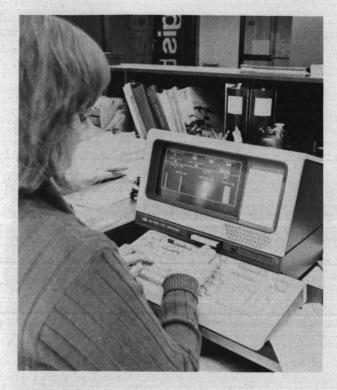
Entering students interested in receiving advanced placement in subject matter other than as set forth above should plan to take the Advanced Placement Tests of the College Entrance Examination Board. Information concerning these tests may be obtained from high school guidance personnel or by writing 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.

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:

- 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 place
 students under penalty of immediate dismissal. The
 University has the option to declare all credit not
 presented at the time of application as non-transferable.
- 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.
- Transfer applicants who have completed less than one full year (45 quarter or 30 semester credits) at another university must fulfill secondary school unit requirements for admission to the Freshman class.
- 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.

Advanced Standing

For the purpose of guidance and registration, the Academic Evaluation Unit 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:

- Credit transferred from two-year colleges may be applied to University freshmen and sophomore years only. Transfer of such credit may not exceed 90 quarter 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 18 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 quarter credits of extension credit will be accepted. Credit earned through correspondence shall not exceed 12 quarter credits and must be included in the extension credit total of 45 quarter credits.
- Credits over 10 years old will be reviewed to determine transferability.

Foreign Students

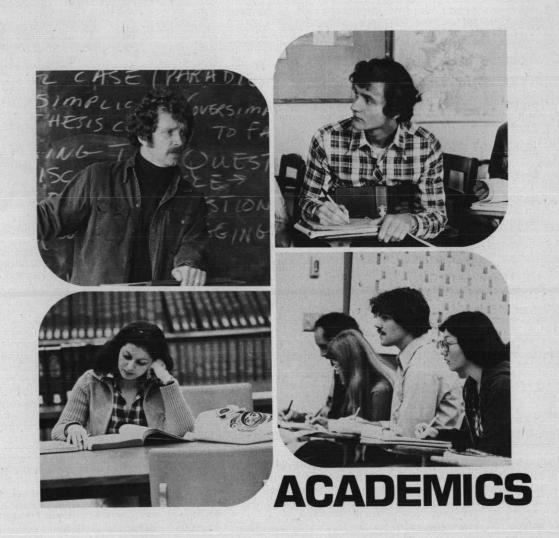
Specific admission requirements and procedures for all foreign students, are listed on the official foreign student application form. The Immigration Form (1-20) necessary to enter the United States is issued to the student upon admission to the University.

Special Students

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



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

| ENGLIS | H SEQUENCE | _ 10 credits |
|-----------|--|--------------|
| En 100 | Freshman English | 5 credits |
| and any o | ne of the following: | |
| En 132 | Masterpieces of | |
| En 133 | American Literature Masterpieces of | 5 credits |
| LII 133 | World Literature | Equadita |
| En 134 | Masterpieces of | 5 credits |
| | 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

Students have the option to select one of the following:

Plan 1

Hs 104 and Hs 105

Plan 2

Hs 100 and Hs 105

Plan 3

Hs 100 and any one of the following: Hs 231, 251, 261, 271, 281, 349

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 101 | Energy Sources and Uses | 5 credits |
| Ph 110 | Introduction to Astronomy of the | |
| | Solar System | 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. 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

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

10 credits

| 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 |
| Pls 160 | American National | |
| | Government | 5 credits |
| Pls 200 | Comparative European | |
| | Democracies | 5 credits |
| Pls 214 | Government and | |
| | the Economy | 5 credits |
| Pls 242 | American Political | o or ounc |
| | Thought | 5 credits |
| Pls 249 | Introduction to | |
| | International Politics | 5 credits |
| Pls 375 | Minority Politics | |
| | in the United States | 5 credits |
| Pls 440 | Comparative Politics | |
| | Asia | 5 credits |
| Pls 441 | Comparative African | |
| | Systems | 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 | Judaeo 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 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 Albers School of Business must consult that section of this bulletin for required courses.

Academic Regulations

Each student is responsible for informing himself/herself 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. No person is allowed to attend class unless officially enrolled with appropriate fees paid.

Regulations in this bulletin are supplemented by policy memoranda which set forth policy in greater detail.

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 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.

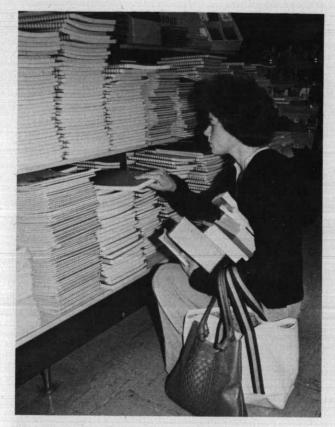
ADVANCED STANDING — Granted to transfer students who have previous college work which is acceptable to Seattle University.

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

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

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

CEU - CONTINUING EDUCATION UNIT — A type of credit assigned for courses not a part of a regular degree program; one CEU equals ten hours of formal classroom instruction.



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.

COLLEGE — One of the seven academic divisions of Seattle University.

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.

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.

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/her program of study.

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.

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/her major or some special interest within the major field.

LOW SCHOLARSHIP LIST — A warning list circulated to deans each term showing 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.

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

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 (transcript) 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 college courses.

PREREQUISITE — A 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.

QUARTER — Term of instruction during which a student completes a series of courses. There are three quarters in a regular academic year, Fall, Winter and Spring. The summer quarter extends from June to August.

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

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

 $\label{eq:REGULAR STUDENT} \textbf{ A fully matriculated student pursuing a degree program.}$

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

SCHOOL — See College.

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 schools of the University according to degree requirements.

TRANSCRIPT — A copy of the student's permanent record.

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.

WITHDRAWAL — Procedure whereby student notifies the University that he/she will not complete course(s) for which he/she 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 or

doctorate 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 nonaccredited college or university, with the following restrictions:

 Student must be currently registered at Seattle University.

No student may take an advanced credit examination in a course in which he has already been registered.

 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.

 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.

 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.

No student will be permitted to repeat an examination for advanced credit.

No student may take examinations for more than 15 advanced credits in any one quarter.

 No student may receive advanced credit by examination for lower division foreign language courses in his/her native language or from earlier schooling.

 Students who wish to qualify for credit by examination must apply to the Dean, Registrar and Controller for approval.

No graduate credit is to be given by examination.
 No credit by examination may be given for physical education activity courses.

Credit Load

The normal load for undergraduates is 15 credits per quarter. No student may carry excess credit hours without permission from the dean of the school.

Students on academic probation may be required by the dean of their school to carry less than the normal credit load.

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.

Forgiveness Policy

A forgiveness policy making it possible for former SU students with poor academic records to resume their studies as adults without the encumbrance of poor grades earned previously became effective Fall Quarter, 1977. After being absent from school for at least 8 years, former SU students in undergraduate programs may apply for forgiveness only upon readmission or during the first quarter resumed at SU. For further information consult the Registrar.

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 |
|---|----------------------|
| В | 3 quality points |
| C | 2 quality points |
| D | 1 quality point |
| E | 0 quality points |

The grades of CR, NC, I, W, S, N, Y, or YW 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

| 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. |
| В | Above average student — knowledge is very good, scholarship meets all requirements, information is complete but not detailed. |
| С | 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. |
| 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, or grade assigned by Registrar when student registers, does not withdraw yet does not complete the course. |

Incomplete - A temporary grade assigned at the discretion of the instructor in case a student has been in attendance and has done satisfactory work until within two weeks of the end of the quarter, provided the student has furnished proof satisfactory to the instructor that the work cannot be completed because of illness or other serious circumstances beyond the student's control. When the instructor assigns an I grade, a Notice of Incomplete Grade Form must be filed with the Dean, Registrar, student and instructor. This form will state what work remains to be completed to obtain a final grade or, if this further work is not completed, what grade is to be placed on the permanent record. The student has until six weeks after the beginning of the next quarter, regardless of whether the student is enrolled, to complete the specified work. If no further work is completed, the I grade will be converted to a letter grade, in accord with the instructor's directions on the Notice of Incomplete Grade Form previously filed. If the specified work has been completed, the student must file an official Incomplete Removal Form and pay the required fee to have the final grade posted to the transcript. However, if the grade is an E the final grade will be posted without student payment. I grades assigned spring quarter must be removed by six weeks after the beginning of the fall quarter. Prior to the end of

the I-removal period, the Dean may notify the Registrar of serious reasons that require an extension of this deadline to a time certain, but under no circumstances may this be extended beyond one calendar year from the date of initial posting of the I. While on the transcript, I grades will carry no penalty; i.e., they will not be counted in credit or grade point average computations.

This supersedes the regulations on I grades appearing on Page 24 of the 1977-78 Bulletin of Information

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, 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 Received Summer term | Must be Removed Before 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 |
| | |

- Satisfactory a satisfactory grade which may be given for thesis, research, independent study, offcampus courses, field experience type courses and in non-credit courses.
- Y Audit course for which no credit is given.
- YW Audit Withdrawal registered but did not attend through end of course.
- 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:

- Student must declare desire for credit/no credit during registration; student may change to or from credit/no credit only during the five-day drop/add period.
- 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 | |
|------------------|----------------|---------|
| 1 | 45-896 | courses |
| | 90-1344 | courses |
| | 135 and above0 | courses |

- Credit/no credit may apply to a maximum of two courses in the major or departmental requirements outside the University core; students may not select this CR/NC option for any courses in the University's core.
- Students who elect a credit/no credit option are eligible for quarter honor roll only if credit for graded courses totals 12 or more.
- Only one credit/no credit course may be taken in a given quarter, except those in item No. 6 below.
- All one credit P.E. activity courses numbered 100-499 and music practice courses shall be credit/no credit.
- No graduate courses may be graded CR/NC. CR (credit)—PASS NC (no credit)—NO/PASS
- 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
- Ninety (90) credits graded A, B, C, D, must be completed at Seattle University to qualify for honors. Courses graded CR/NC do not count toward this total of 90.

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 selects 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/she must maintain in order to graduate, he/she may be placed on probation and given the opportunity to improve the

quality of work before final dismissal. A student will be placed on probation if the cumulative grade point average falls below 2.00.

At the discretion of the 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 withdrawal from Seattle University must arrange for two copies of his/her transcript to be submitted to the Registrar before application for admission can be considered.

Credit for courses completed elsewhere is considered not transferable unless an official transcript is filed with the Registrar at time of readmission. Credit from a two-year community college does not transfer once a student has a total of 90 quarter credits (junior status). Records of summer work must be on file by December 1 for credit to transfer.

Records

As required by federal legislation, Seattle University has a policy on the rights of students to privacy of their educational records and access to the information on file. This policy is published annually in the student newspaper. Student directory information will be published by the University unless a student requests it not be released in writing to the Registrar by the fifth day of any term. Records policy includes the right of the University to place a hold against the transcript of a student with a financial obligation and to deny re-registration until all debts owed the University have been paid. The full policy statement including right of appeal may be obtained from the Registrar.





Registration

Newly admitted students and returning students must present themselves at the University for registration on the date specified in the calendar or elsewhere. No registrations are permitted after the fifth class day. Payment of the late registration 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/she has not registered.

Registration Changes

Students are held accountable for completion of every course for which they register. 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 the 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 NC.

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 will be sent for students with a financial obligation to the University.

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 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.

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.

Application For a Certificate

Application for a certificate must be made at the office of the Registrar within the first four weeks of the student's last quarter in a certificate program. A receipt for the certificate fee must be presented before the Registrar may issue the application forms.

Degree Requirements—Bachelor's

As a general rule, students are required to meet degree program requirements in effect at the time of their matriculation.

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

- Core curriculum requirements and specific requirements of the college or school from which the student expects to graduate must be fulfilled;
 A minimum overall grade point average of 2.00 must be achieved and a gpa of 2.00 is required in the student's major.
- 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.
- A minimum of 15 credits in philosophy and 10 credits in theology and religious studies are required in all degree programs. See page 18 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 work is to be taken in the University under the direction of members of the faculty.
- Completion of all degree requirements within 10 years of the date on which the college work was begun.
- Satisfaction of 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. Diplomas are issued only once a year in June regardless of when student completes degree work.
- 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 Graduate Bulletin.

Honors at Graduation

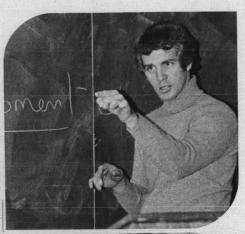
Graduation with honors requires completion of at least 90 credits in residence at Seattle University; the minimum of 90 credits must be earned in regularly graded courses (courses in which grades of A, B, C, or D are given). Should a student elect the CR/NC option for any one course as part of his 90 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.

| Cum Laude | 3.40 |
|-----------------|------|
| Magna Cum Laude | 3.65 |
| Summa Cum Laude | 3.90 |

Special Awards

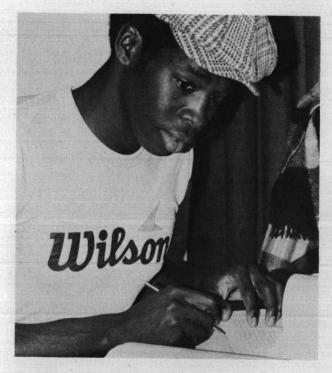
The President's Award — Awarded to the graduating senior who has maintained the highest scholarship throughout the four years of college work, as determined by grades and the judgment of the academic deans.







COLLEGE OF ARTS & SCIENCES



College of Arts and Sciences William F. LeRoux, S.J., S.T.D., Acting Dean

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, Criminal Justice/Police Science, General Studies, Honors, Prelaw and Speech.

Certificate programs are offered in Alcohol Studies Rehabilitation and CORPUS (Pastoral Ministry). Each department chairperson or program director, in collaboration with 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 chairperson 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.

Bachelor of Arts

with a major in: Art, Community Services, Criminal Justice/Police Science, Drama, English, Foreign Languages, General Studies, History, Humanities, Journalism, Music, Philosophy, Political Science, Psychology, Rehabilitation, Social Sciences, Sociology and Theology and Religious Studies.

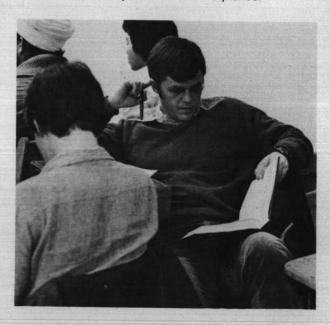
General Program Requirements

Students in the College of Arts and Sciences must satisfy the core curriculum requirements of the University given on page 18 of this bulletin.

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.





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.

Basic 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, 405, 407-8 with a 2.50 minimum g.p.a. 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 Criminal Justice/Police Science, 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.

Basic 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.

Advanced Certificate

Admission to the advanced certificate program requires completion of the basic certificate with a gpa of 3.00. The advanced certificate requires completion of 16 credits in approved alcohol-related courses with a minimum gpa of 3.00 (B), beyond the 20 credits applied to the basic certificate.

A choice of two specialty tracks is offered: counselor and administrator. Each track consists of a core of required courses plus electives to total 16 credits. Courses taken in the basic program may not be repeated, and none of the course work credits may count toward both the Basic and the Advanced Certificate. If ALC 405 "The Law and Alcohol" was not taken in the basic program, it will be an additional required course within the total 16 credits.

Required Courses—Counselor

| Alc 411 | Advanced Counseling—Alcoholism | 2 credits |
|---------|--------------------------------|-----------|
| Alc 412 | Group Dynamics in | |
| | Alcoholism Treatment | 2 credits |
| Alc 414 | Interview & Diagnosis in | |
| | Alcoholism Treatment | 2 credits |
| Alc 415 | Rational-Emotive Therapy in | |
| | Alcoholism Treatment | 2 credits |
| | | 8 credits |

Required Courses—Administrator

| Alc 404 | Agency Administration | 2 credits |
|-----------|---------------------------------|------------------|
| Alc 414 | Interview & Diagnosis in | |
| | Alcoholism Treatment | 2 credits |
| Alc 417 | Alcohol Problems in Business | |
| | and Industry | 2 credits |
| Alc 421 | Advanced Project or Research in | |
| | Alcoholism | 2 credits |
| | | 8 credits |
| Electives | in Alcohol Studies | 8 credits |
| | | Total 16 credits |

CS 420 "Survey of Drug Abuse" may also apply as 2 credits toward the Advanced Certificate, and with the permission of the Director other selected courses from Community Services, Psychology, Rehabilitation and Education.

Alcoholism Courses

Alc 400 Survey of Alcoholism (Symposium) 3 credits (Psy 490) History and scope of problems arising from addictive abuse of alcohol. Definitions, stereotypes, myths, conflicting religious views. Patterns of progression. Symptoms and diagnosis, types of alcoholics. Theories of etiology; the disease concept. (Psy 490 may substitute.) Pre or corequisite to Alc 401 through 413.

Alc 401 Pharmacology and Physiology of Alcohol Ingestion, absorption, metabolism. Effects of different blood/Alcohol levels. Psychiatric complications: damage to brain, liver and other organs. Evaluation of results. Prerequisite: Alc 400.

- Alc 402 Counseling Principles and Techniques 3 credits
 Interview techniques. Intake and crisis intervention
 vs. long-range therapy. Supportive, client-centered,
 transactional, group, reality therapy. Confrontation,
 role-playing. Prerequisite: Alc 400.
- Alc 403 Personal and Social Rehabilitation 2 credits

 Motivation and personality reconstruction in the
 recovering alcoholic. Post-detoxication, long-range
 sobriety; relapses, dry drunk. Spiritual aspects.
 Family and social adjustments. Al-anon and Alateen. Industrial programs. Prerequisite: Alc 400.
- Alc 404 Agency Administration 2 credits
 Personnel policies, budgeting, financing, office
 management, public relations, ethics. Informational
 and educational policies. Relations with school
 systems, courts, professions and agencies, 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 Cross-Cultural Counseling: Alcoholism 2 credits
 Special problems and techniques, understanding of
 cultural background and instruction by members of
 minority groups. Prerequisite: Alc 400 and 402.
- 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 and 402.
 Mandatory CR/NC
- 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

 Open only to students with sufficient academic background to pursue independent study. Permission of director required.
- Alc 411 Advanced Counseling Alcoholism 2 credits
 Instruction and supervised practice in counseling
 techniques of special value in counseling alcoholics. Playback video tape equipment used. Two
 and one-half hours per week. Prerequisite: Alc 402.
- Alc 412 Group Dynamics in

 Alcoholism Treatment

 Role playing as a means to development of self awareness; dynamics of group interaction; introduction to psychodrama. Two and one-half hours per week. Prerequisites: Alc 402, 411 or permission.

- Alc 413 Alcoholism Schools Workshop 2 credits
 Goals, methods, and skills in teaching Alcohol Information Schools (AIS), (OAR), (ADE), and court referral schools for those driving while intoxicated (DWI). Problems with defensive and hostile clients. Prerequisite: Alc 400 or equivalent.
- Alc 414 Interview and Diagnosis in
 Alcoholism Treatment 2 credits
 Procedures and skills used in alcoholism referral
 and treatment agencies. Intake interview, client
 evaluation, case-writing, pre-sentence report,
 record-keeping and confidentiality. Prerequisite:
 ALC 402 and 405.
- Alc 415 Rational-Emotive Therapy in
 Alcoholism Treatment 2 credits
 Uses of the Rational-Emotive Therapy (R.E.T.) with
 recovered alcoholics and their spouses. Theory,
 principles and application of techniques. Individual
 and group practice. Prerequisites: ALC 403 and ALC
 407.
- Alc 416 Alcohol and Youth: Education,
 Problems, Prevention 2 credits
 Alcohol-related problems among young people,
 stressing education and prevention. Teen-age alcoholics, children of alcoholics, polydrug abuse and
 the young drinking driver.
- Alc 417 Alcohol Problems in Business
 and Industry 2 credits
 Scope and cost of alcohol-related problems in
 American business and industry. Company policy,
 implementation of occupational alcoholism programs, training of supervisors.
- Alc 418 Alcoholism and The Family
 Alcohol-related problems in the family, including alcoholic, spouse, children and significant others. Individual and group counseling. Married couples and team approach as alternatives. Prerequisite: ALC
- Alc 419 Advanced Physiology and Pharmacology of Alcohol 2 credits

 Current research and thought regarding the effects of alcohol on all body tissues, with implications for treatment. Fetal alcohol syndrome, brain, liver, endocrine and other damage. Prerequisite: ALC 401.
- Alc 420 Alcoholism Seminar 2 credits

 An advanced seminar on selected current topics in alcoholism and alcohol-related problems. Prerequisite: 10 credits in Alcohol Studies, and permission of Director.
- Alc 421 Advanced Project or Research in Alcoholism 2-5 credits
 Replication, original research, or scholarly investigation which demonstrates mastery of basic fact-finding, experimental design, evaluation and presentation of results. A graduate project or master's thesis will fulfill this requirement. Prerequisite: Basic Certificate in Alcohol Studies, and permission.



Community Services

Herbert M. Kagi, Ph.D., Director

Objectives

Community Services is a program primarily involving social work courses and field experience supported by the study of 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/herself 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 18 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; 20 credits in sociology; 15 credits in psychology; 10 credits in political science; 10 credits in economics; 5 credits in statistics or research methods courses.

Bachelor of Arts in Community Services

| Freshman year English 100 and core option History core option Mathematics/Science core option Philosophy 110 Political Science Psychology Sociology | . 10 credits . 5 credits |
|---|---|
| Sophomore year Economics Mathematics/Science core option Philosophy 220 and core option Political Science Sociology Psychology Theology | . 5 credits . 10 credits . 5 credits . 10 credits . 5 credits |
| Junior year Community Services 300, 374, 376 | .15 credits |

| Junior year | |
|----------------------------------|------------|
| Community Services 300, 374, 376 | 15 credits |
| Community Services Elective | 5 credits |
| Economics | 5 credits |
| Psychology | 5 credits |
| Sociology | 5 credits |
| Theology | 5 credits |
| Electives | 5 credits |

| Senior year | |
|--|---------|
| Community Services 378, 379, 478, 479 20 | credits |
| Community Services Elective 5 of | credits |
| Statistics or Research Methods 5 of | credits |
| Electives15 | credits |
| Total 180 (| |

Community Services Courses

| CS 291 | Special Topics | 1-5 credits |
|--------|----------------|-------------|
| | Special Topics | 1-5 credits |
| | Special Topics | 1-5 credits |

CS 300 Introduction to Community Services 5 credits
(Sc 300) Historical development, structure and function of social welfare services and institutions; emphasis on philosophy and methods utilized by professional social work in meeting human needs. (fall, winter)



CS 310 Dynamics of the Family 5 credits

Behavioral dynamics of interpersonal relationships in the family; reciprocal nature of relationships; conceptual frameworks for individual and family therapy through study of treatment modalities. (spring)

CS 315 Working with Children 2 credits

Theories of child development which direct the modes of service to children. Study of laws which control agency services to children. Examination of selected agency case records.

CS 321 Asian-American Experience 5 credits
From a Historical perspective of period beginning
with the Asian immigrants to America, the problems
faced, and how they laid the groundwork for the present generation of Asian-Americans. (spring)

CS 330 Citizen and the Law 3 credits
Discussion of poverty law; family law, the contractual
relationship, consumer law, landlord-tenant laws,
and personal liability. (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.

CS 374 Intervention Skills 5 credits
Provides students with 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. (fall)

CS 376 Factors of Interviewing 5 credits
(Sc 376) 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. Mandatory CR/NC (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 in a social welfare agency with the agency's clientele, services and functions in the community. Prerequisites: CS 376 or permission for 378; 378 for 379; 379 for 380. Mandatory CR/NC (fall, winter, spring)

CS 420 History and Survey of Drug Abuse 5 credits
Scope of problems arising from drug abuse.
Psychology of drug addiction; patterns of progression, early symptoms and diagnosis; types of drug addicts. Theories of etiology.

CS 440 Crisis Intervention 5 credits
Theory and practice of crisis intervention strategies.
Schools, criminal justice agencies, family service agencies, public welfare agencies and crisis centers.

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, organizations 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

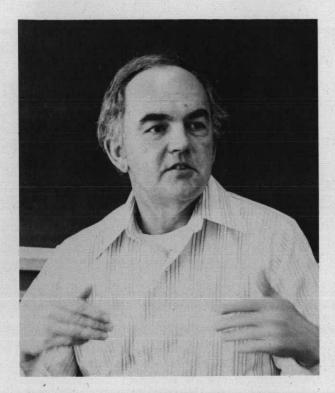
CS 497 Individual Research

By arrangement, with professional supervision.

Prerequisite: Upper division standing and permission.

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





Criminal Justice/Police Science

Herbert M. Kagi, Ph.D., Director

Objectives

The Criminal Justice/Police Science degree program seeks to offer academic preparation for professional performance in expanding law enforcement roles 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; to contribute significantly to the improvement of the quality of law enforcement services; and to assist a student in gaining a broad but incisive view of the theories, practices, and problems of criminal justice systems to include research techniques and strategies.

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 Criminal Justice/Police Science

General Program Requirements

Candidates must satisfy the core curriculum requirements of the University as given on page 18 of this bulletin. Because of the interdisciplinary nature of the degree program, majors are required to take 15 credits in sociology; 15 in political science; 15 credits in psychology; and 10 credits in economics.

Degree Requirements

Bachelor of Criminal Justice/Police Science — 55 credits in CJP.

Bachelor of Criminal Justice/Police Science Freshman and Sophomore years

| Criminal Justice/Police Science10 | credits |
|-----------------------------------|---------|
| Economics 5 | credits |
| English 100 and core option10 | credits |
| History core option10 | credits |
| Mathematics-Science core option10 | |
| Philosophy core option15 | credits |
| Political Science 5 | |
| Psychology 5 | credits |
| Sociology 5 | credits |
| Theology core option10 | credits |
| Elective 5 | |

Junior year

| Criminal Justice/Police Science10 | credits |
|-----------------------------------|---------|
| Economics 5 | |
| Political Science10 | credits |
| Psychology10 | credits |
| Sociology10 | credits |

Senior year

| Crimina | I Justice/Police Science | 35 | credits |
|----------|--------------------------|----|---------|
| Elective | | 10 | credits |

Total 180 credits

Criminal Justice/Police Science Courses

| CJP 291 | Special Topics | 1-5 credits |
|----------------|----------------|-------------|
| | Special Topics | 1-5 credits |
| CJP 293 | Special Topics | 1-5 credits |

CJP 325 Criminal Law and Procedure 5 credits Study of the criminal law processes from detention

to appeal; State and Federal rules of criminal procedure. Understanding of policies underlying those rules.

CJP 350 Police and the Community 5 credits

(Sc 351) 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.

CJP 352 Comparative Police Systems 5 credits

Comparative analysis of police systems in the United States and selected foreign countries; emphasis on the organizational aspects, functions and process at work in foreign police systems.

CJP 354 Police Planning 5 credits

Survey of planning techniques; development of long and short range goals; data collection; processing and analysis; budgeting; design of evaluation and monitoring systems.

CJP 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 including demographic and ecological factors.

CJP 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.

CJP 360 Society and Justice 5 credits (Sc 352) Survey of criminal justice process from arrest through release; the relationships of the police, the prosecutor, the defense, the courts, the prisons and corrections, as each integrates into a system.

CJP 362 Deviant Behavior 5 credits
(Sc 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.

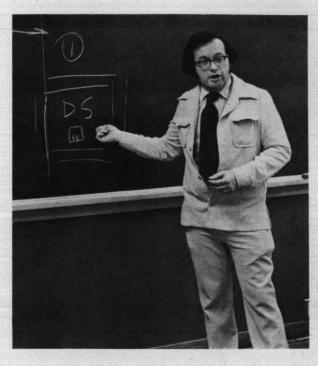
CJP 365 Probation and Parole 5 credits (Sc 365) Examination of current trends and issues in probation, parole, supervision, the legal aspects, research, prediction and personnel.

CJP 366 Corrections 5 credits
(Sc 366) Analysis of post-arrest treatment methods applied to offenders; the correctional institution and community-based corrections. Prerequisite: Upper division standing or permission.

CJP 378 Field Experience I 1-5 credits
CJP 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.

CJP 410 Juvenile Justice Systems 3 credits
(Sc 412) Examination and study of contemporary police-juvenile operations. Theory and examination of the Juvenile Justice System. Relationship between the juvenile-officer, crime prevention and community relations.





CJP 415 Victimology 5 credits
(Sc 415) Survey of the victim-offender relationship; including the origin and scope of victimology, a victim and society, the victim and the administration of justice and the social reaction to victimization.

CJP 420 The Politics of Civil Liberties 5 credits
Introduction to the "Politics" of civil liberties. The
focus will be upon three major libertarian values:
Freedom of expression; equality; and due process in
criminal procedure.

CJP 425 Problems of Public Service

Bureaucracies

Descriptive analysis of the administrative side of large scale post-industrial governments. Emphasis upon coordination and conflict resolution through the budgeting and planning processes.

CJP 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.

CJP 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.

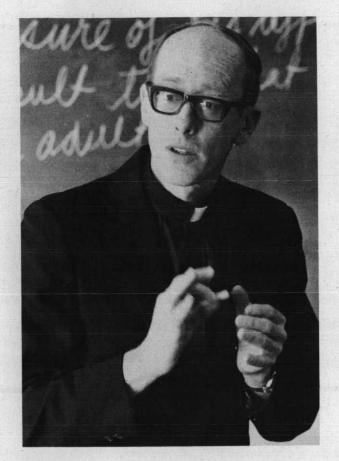
CJP 491 Special Topics
CJP 492 Special Topics
CJP 493 Special Topics
Prerequisite: Upper division standing and permis-

CJP 497 Individual Research

By arrangement, with professional supervision.

Prerequisite: Upper division standing and permis-

CJP 498 Independent Study 1-5 credits
Prerequisites: Upper division standing and permission



English

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

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-See Graduate Bulletin Master of Arts (in Teaching)—See Graduate Bulletin

General Program Requirements

Students in English must satisfy the core curriculum requirements of the University as given on page 18 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, 265, 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 an adviser.

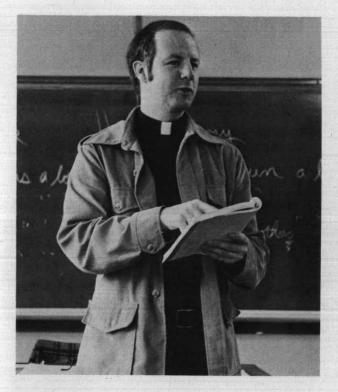
Bachelor of Arts (Comparative Literature Concentra-tion)—60 credits of English and Comparative Literature which must include the following courses: En 100, 250, 264, 265, 266, 314, 315, 414 and 416. The remaining credits must be taken in the 300 and 400 series. Recommended are En 382 and 415. The student 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 or 220 or 230 or 240, 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.

| Bachelor of Arts |
|---|
| Freshman year |
| English 100, 25010 credits |
| Fine Arts 101, 102, 103 15 credits |
| Foreign Language (Comparative Literature |
| concentration; recommended)15 credits |
| History core option10 credits |
| Philosophy core option10 credits |
| |
| Sophomore year |
| English 264, 265, 266 |
| Mathematics/Science core option |
| Social Science core options10 credits |
| Theology core options10 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, 10610 credits |
| Mathematics/Science core options 5 credits |
| Electives |
| Senior year |
| English 300 and 400 series courses 15 credits |
| Electives30 credits |
| LICOUTOS III.III. |

Total 180 credits





| English C | ourses |
|-----------|--------|
|-----------|--------|

essays.

suffixes.

Advanced Composition

Advanced study and practice in expository writing.

A practical course in vocabulary building. Emphasis

on etymology, Latin and Greek roots, prefixes and

En 200

En 203

| English | Courses | | En 220 | Introduction to Poetry | |
|---------|--|-------------|----------------------------|--|---|
| En 100 | Freshman English Study and practice in rhetoric, empha | 5 credits | | Introduction to the study emphasis on appreciation, | |
| | pository writing and mastery of style. | o.z.i.g ox | En 230 | Introduction to Fiction | 5 credits |
| En 101 | Freshman English | 5 credits | | Introduction to the study | of fiction with special |
| | Continuation of En 100. | o credito | | emphasis on appreciation, | form and technique. |
| | | | En 240 | Introduction to Drama | 5 credits |
| En 103 | Special English I | -5 credits | | Introduction to the study | |
| En 104 | Special English II | -5 credits | | emphasis on appreciation, | form and technique. |
| | | | En 250 | Practical Criticism | 5 credits |
| En 105 | English as Second Language | 5 credits | | Introduction to the termino literary analysis. Required | |
| En 132 | Masterpieces of American Literature Close reading and analysis of America classics: novels, plays, poetry and essays | an literary | En 264 En 265 En 266 | Great English Authors I Great English Authors II Great English Authors III I. Study of major British wi | 5 credits 5 credits |
| En 133 | Masterpieces of World Literature Close reading and analysis of world literature novels, plays, poetry and essays. | | | period through the Renaiss major British writers from th the Eighteenth Century (1) major British writers from th | ance (1640). II. Study of e Puritan period through 640-1798). III. Study of |
| En 134 | Masterpieces of British Literature Close reading and analysis of British | h literary | | Victorian period (1798-190 majors. | 10 HO 10 B 10 B 10 HO 10 B 10 |
| | classics: novels, plays, poetry and essay | 5. | En 291 | Special Topics | 1-5 credits |
| En 175 | Introduction to Literature | 5 credits | En 292 | Special Topics | 1-5 credits |
| | Introduction to the study of novels, plays. | | En 293 | Special Topics | 1-5 credits |

En 301

En 305

5 credits

Advanced Rhetoric and the **Teaching of English**

teaching composition.

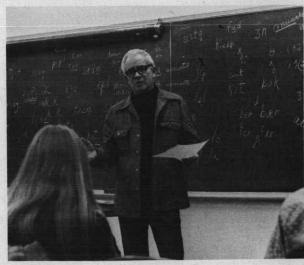
Writing Fiction

Study of rhetorical theory and techniques and their application to writing, with emphasis on methods of

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 | En 401 | Studies in Rhetoric | 5 credits |
|---------|---|--------|--|--------------------------|
| | Study of and practice in the modes and techniques of poetic composition. | En 407 | History of the English Language Study of the historical development of | 5 credits of English. |
| En 310 | Introduction to Chaucer 5 credits Study of Chaucer's "Canterbury Tales." Required of English majors. | En 411 | Medieval Literature | 5 credits |
| | English majors. | En 414 | Eighteenth and Nineteenth Century | |
| En 312 | Classics in Children's Literature 5 credits In-depth humanistic and interdisciplinary analysis of | | Continental Literature | 5 credits |
| | basic texts in children's literature; folk tales, L. Carroll, C.S. Lewis, outstanding 20th century works. | En 415 | Russian Literature | 5 credits |
| | Odrion, C.S. Lewis, Odistanding Lear Contact, works | En 416 | Eastern Literature | 5 credits |
| En 313 | Mythology 5 credits Study of the mythological backgrounds of English | En 420 | Renaissance Literature | 5 credits |
| | and American literature. | En 430 | Shakespeare I | 5 credits |
| En 314 | Backgrounds of Western | En 431 | Shakespeare II I. Tragedies. II. Comedies/histories. | 5 credits |
| | Literature I 5 credits | En 445 | Seventeenth Century Literature | 5 credits |
| En 315 | Backgrounds of Western Literature II 5 credits | En 450 | Restoration and Eighteenth | |
| | I. From the beginnings into Medieval Period. II. From | | Century Literature | 5 credits |
| | Dante through the Renaissance. Required of English majors. | En 452 | Eighteenth Century English Novel | 5 credits |
| En 330 | Introduction to Shakespeare 5 credits | En 460 | Romantic Literature | 5 credits |
| | Readings in the comedies, tragedies and histories. Required of English majors. | En 475 | Victorian Literature | 5 credits |
| | | En 477 | Nineteenth Century English Novel | 5 credits |
| En 382 | Major American Novelists 5 credits American fiction from its beginning to modern times: | En 482 | American Literature to 1900 | 5 credits |
| | Cooper, Melville, Twain, James, Hemingway, Faulkner and others. | En 484 | Twentieth Century American Literature | 5 credits |
| En 383 | Classics of Black American Literature 5 credits An historical approach to the literature of Afro- | En 487 | Contemporary Literature | 5 credits |
| | Americans, with emphasis on the moderns: Jones, Wright, Cleaver, Baldwin, Ellison and others, in the | En 488 | The Film and Literature | 5 credits |
| | context of general American literature. | En 490 | Literary Criticism | 5 credits |
| En 391 | Special Topics 1-5 credits | En 491 | Special Topics | 1-5 credits |
| | Modern Tradition: Fiction 5 credits | | 200 TO 100 T | 1-5 credits |
| En 394 | Modern Tradition: Fiction 5 credits | En 492 | | 1-5 credits |
| En 395 | Modern Tradition: Poetry 5 credits | | | |
| LII 033 | | En 497 | | 5 credits |
| En 398 | Modern Tradition: Drama 5 credits | En 498 | Individual Research | 5 credits |
| | | | | |







Fine Arts Marvin T. Herard, M.F.A., Chairman

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/her creative imagination; by means of practical experience in the fine arts, he/she 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/her own field, the interdisciplinary approach enables him/her to obtain practical experience in the related art forms. The student's ability to pursue advanced study in his/her field will depend upon the nature of his/her talents and the extent of special gifts for his/her subject.

Degree Offered

Bachelor of Arts

General Program Requirements

Students in fine arts must satisfy the core curriculum requirements of the University given on page 18 of this bulletin. Fifteen credits of Fine Arts courses are required. In addition, a student majoring in one of the three fields within the Fine Arts Department must take 15 credits from among the two related fields.

Departmental Requirements

Bachelor of Arts — Major in Art — 49 credits which must include Art 221, 222, 223, 231, 232, 233, 311, 312, 334, 346, 351; 21 elective credits in art.

Bachelor of Arts — Major in Drama — 35 credits which must include Dr 100, 210, 221, 222, 264, 265, 267, 320, 420, 455 and 480.

Bachelor of Arts — Major in Music — 63 credits which must include Mu 115, 116, 117, 215, 216, 217, 372, 373; 10 credits from 415, 416, or 417; 418; 6 credits of ensemble and 6 credits of vocal or instrumental lessons. Music majors must pass a proficiency test in piano at the end of their first year.

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 100, 210, 221, 264, 420, 421, plus 7 additional credits in Drama (electives).

Teaching Subject, Elementary, Music (School of Education) — 24 credits which must include FA 103, Mu 115, 116, 117, 2 credits of Mu 110 and 2 credits of Mu 130, 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 option | . 10 credits |
| Philosophy core option | . 5 credits |
| Theology core option | . 5 credits |
| | |

Junior year

| Art 311, 312 and electives | 20 | credits |
|----------------------------|-----|---------|
| Drama/Music electives | 15 | credits |
| Fine Arts 103 | . 5 | credits |
| Theology core option | 5 | credits |

Senior year

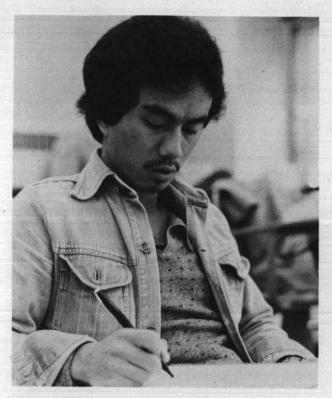
| Art 334, 346, 351 | 6 | credits |
|-------------------|----|---------|
| Art electives | 7 | credits |
| Electives | 32 | credits |

Total 180 credits

| Bachelor of Arts—Major in Drama | Fine Arts Sequence and Symposium Courses | | |
|--|--|---|------------------------|
| Freshman year Drama 100, 210 8 credits English 100 and core 10 credits Fine Arts 102 5 credits History core 10 credits | FA 101 | Fine Arts — Art 5 credit Synoptic view of art history; period and nation styles; principles and implications of design, with cross-reference to music and drama | al |
| Philosophy 110 | FA 102 | Fine Arts — Drama 5 credi Introduction to drama as an art form. An historic approach with emphasis on major periods, play and philosophies. | al |
| Drama 221, 222, 264, 265 | FA 103 | Fine Arts — Music 5 credi Introduction to music as an art and as a literatur with emphasis upon historical and cultural correlations. | re, |
| Junior year Drama 267, 320, 455 12 credits Fine Arts 101, 103 10 credits Theology core 5 credits Art/Music Electives 10 credits Electives 8 credits | FA 400 | Fine Arts—Symposium 5 credi An interdisciplinary course open to all students. Ma be used to satisfy any departmental crossfield r quirement for Fine Arts majors. | ay |
| Senior year | Art Co | urses | |
| Drama 420, 480 4 credits Math/Science core 10 credits Theology core 5 credits Electives 26 credits Total 180 credits | Art 221 Art 222 Art 223 | | its its m; nd |
| Bachelor of Arts—Major in Music | Art 231 | Design 2 cred | lits |
| | Art 232 | Design 2 cred | |
| 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 | Art 233 | Primary concepts and analysis of structure problems of contemporary design; form in three dimensional design. | re; |
| Music 130 or 131 or 135 | Art 291 Art 292 Art 293 | Special Topics 1-5 cred Special Topics 1-5 cred Special Topics 1-5 cred | dits |
| Sophomore year | | | |
| Fine Arts 101, 102 | | History of Art History of Art Survey of the arts of the Western world from the artisest times to the Renaissance and from the Renaissance to the present. | dits the |
| Junior year | Art 321 | Advanced Drawing 3 cred | dits |
| Music 130 or 131 or 135 | Art 322 Art 323 | Advanced Drawing 3 cred | dits |
| Electives | Art 331 | | |
| Senior year Art/Drama electives | Art 332 Art 333 | Advanced Design 3 crec Problems of practical application; advertising a synthesis and research. Prerequisite: Art 233. | dits art; |
| from 415 or 416 or 417 5 credits | Art 334 Art 335 | | |
| Theology 5 credits Electives 10 credits Total 180 credits | Art 336 | Grupines | dits |

| Art 346 | | credits | Dr 264 | Scene Sculpture and Painting | 3 credits |
|---------|--|----------|-----------------------|---|--------------|
| Art 347 | | credits | | Exposure to contemporary materials | and tech- |
| Art 348 | | credits | | niques in the design, construction and p | painting of |
| | Study of the principles and practices of render | ering in | | scene art. Lab and Lecture. | |
| | paint; complex composition; advanced prob | lems. | | | |
| | | | Dr 265 | Light, Color, Sound | 2 credits |
| Art 351 | Sculpture 2 | credits | | Exposure to contemporary materials, | |
| Art 352 | Sculpture 2 | credits | | and practices in the design and execution | |
| Art 353 | Sculpture 2 | credits | | and creation of sound for theatre. Lab ar | d Lecture. |
| | Principles and practices leading to a realiza | ation of | Dr 266 | Fashian and Dassa | 0 |
| | the nature of form; dependence of des | | DI 200 | Fashion and Dress | 3 credits |
| | materials; advanced problems. | | | Exposure to contemporary materials, p | |
| | | | | and techniques in design and constructi | |
| Art 370 | Arts and Crafts 5 | | | tumes for theatre; with emphasis on the fashion and dress. Lab and Lecture. | nistory of |
| AIT 370 | | credits | | lashion and dress. Lab and Lecture. | |
| | Experience in artistic expression in basic art for elementary and secondary school teacher | media | Dr 267 | Makeup | 2 credits |
| | for elementary and secondary school teacher | rs. | D. 201 | Exposure to contemporary materials | |
| | | | | niques in the design and execution of n | |
| Art 446 | | credits | | theatre; work in specialized techniques | |
| Art 447 | | credits | | Lecture. | . Lub and |
| Art 448 | | credits | | | |
| | Experimental research toward the developme | ent of a | | | |
| | creative and personalized idiom, synthesi | | Dr 291 | Special Topics | -5 credits |
| | research. Prerequisite: Art 348 or permiss | sion of | Dr 292 | | -5 credits |
| | department chairman. | | Dr 293 | Special Topics | -5 credits |
| | | | | | |
| Art 451 | Advanced Sculpture 3 | credits | Dr 320 | Theatre: Form and Content I | 5 credits |
| Art 452 | | credits | Dr 321 | Theatre: Form and Content II | 5 credits |
| Art 453 | | credits | Dr 322 | Theatre: Form and Content III | 5 credits |
| | Includes foundry techniques and lost wax pr | ococc | STATE OF THE STATE OF | A study of historical events and ideas whi | |
| | Prerequisite: Art 453 or permission of instruc | ctor | | the theatre in all its aspects. I: Greeks | |
| | the second state to a permission of matru | CiOi. | | bethans; II: 17th to 19th Century; III: 19th | |
| Art 470 | Advanced Media 5 d | credits | | Century. | |
| | Experience in artistic expression in advance | ed art | | | |
| | media for elementary and secondary | school | Dr 400 | Ensemble 1 | -5 credits |
| | teachers. | | Dr 401 | 에 HONG HONG NEW HONG NEW HOLD | -5 credits |
| | | | Dr 402 | | -5 credits |
| Art 491 | Special Topics 1-5 o | credits | | | -o cicano |
| Art 492 | | credits | | | |
| Art 493 | | credits | Dr 404 | Playwriting | 5 credits |
| | | | | Study and practice in the form and metho | d of script |
| Art 497 | Independent Study 1-5 o | credits | | construction. | |
| Art 498 | 500 M S 1900 B 200 M M M M M M M M M M M M M M M M M M | credits | Dr 415 | Theatre Perspectives | 5 credits |
| Art 499 | | credits | | Study of the nature of theatrical genre: | |
| | Advanced work in academic or experir | nental | | Comedy and mixture of these and other | |
| | research. Prerequisites: Advanced standing | in art | | theatre. | 1011113 01 |
| | and permission of department chairman. | | | | |
| | | | Dr 420 | Directing | 2 credits |
| | | | | Theory and practice in principles of direct | cting vari- |
| | | | | ous styles of drama. | |
| Drama | Courses | | | | |
| Dr 400 | Vocal Communication | | Dr 421 | Directing Experience | 2 credits |
| Dr 100 | | redits | | Practical application of directing princip | |
| | Development of the speaking voice as an i | | | done on campus or in the community. Pre | erequisite: |
| | ment of communication on or off stage. Exerci | ises in | | Dr 420 or permission. | |
| | relaxation, breathing, breath control, voice pr tion, phonetics. | oduc- | Dr 425 | Drama Internehin | 12 credits |
| | tion, phoneucs. | | DI 425 | Apprenticeship in specific area of study in | |
| Dr 210 | Physical Communication 5 c | redits | | munity or on campus under the supervis | |
| | Instruction in mime to express inner and | | | drama faculty. Prerequisite: Drama ma | |
| | worlds through the body. Dance movement and | | | Permission. | joid offiny. |
| | od style. Exercises for development of imagin | | | | |
| | coordination, body awareness. | | Dr 455 | Theatre: Spatial and Visual | 5 credits |
| | | | | Development of the stage in Western Cul | |
| Dr 221 | | redits | | Greeks to the present; emphasis on ev | |
| | Living in free form under imaginary circumsta | ances. | | theatre building and physical elements | |
| | Group exercises and improvisations for de- | velop- | | production. Seminar. | |
| | ment of sensory perception and imagination. | | | | |
| D. 000 | | Ellen to | Dr 480 | Theatre Organization and Management | |
| Dr 222 | | redits | | Establishing and operating a theatre, include | |
| | Study and practice in modern realistic a | icting: | | ning, budgeting and accounting, staffing | |
| | preparation, presentation and criticism. | | | tion selection, promotion, ticket sales, fun | d raising. |
| | Several Bridge Company | | | | |

| Dr 491 | Special Topics | 1-5 credits | Mu 201 | Studies in American Music | 3 credits |
|----------|---|---|----------------------------|--|--|
| Dr 492 | Special Topics | 1-5 credits | | Survey from the early folksong to | the vocal and in- |
| Dr 493 | Special Topics | 1-5 credits | | strumental music of the present. | |
| | | | Mu 202 | History of Opera | 3 credits |
| D- 407 | Indonandant Study | 1-5 credits | 202 | Consideration of the basic eleme | nts in the combina- |
| Dr 497 | Independent Study | 1-5 credits | | tion of music and drama with a | |
| Dr 498 | Independent Study | 1-5 credits | | the various solutions offered to | the problems in- |
| Dr 499 | Independent Study | 1-5 Credits | | volved. Prerequisite: FA 103. | the problems in- |
| | | | | Complement of Bootheses | 3 credits |
| | | | Mu 205 | Symphonies of Beethoven Nine works, preceded by a brie | |
| Music (| Courses | | | symphonic form. Prerequisite: F | |
| Mu 110 | Piano Lessons | 1 credits | | | 2 credits |
| | Mandatory CR/NC | | Mu 207 | History of Jazz | The second secon |
| | Wandatory Crimic | | | Explorations of origins in Afro-A | |
| Mu 111 | Vocal Lessons | 1 credit | | evolution as a result of merging of | cultures and the ac- |
| Wu III | Mandatory CR/NC | | | complishment of a distinctly new | musical language. |
| | Wandatory Orl/No | | | | 5 credite |
| | | | Mu 215 | Theory IV | |
| Mu 114 | Music Fundamentals and Met | hods 5 credits | Mu 216 | Theory V | 5 credits |
| | Rudiments of music and method | ods that will lead to a | | Advanced musicianship, beginni | ing part writing and |
| | successful music program in th | e elementary school. | | analysis. | |
| | Required of all majors in elem | entary school educa- | M. 047 | Thomas VI | F anadis |
| | tion. | | Mu 217 | Theory VI | 5 credits |
| | | | | Advanced musicianship, part w | |
| | | | | Harmonic style of the common-p | |
| Mu 115 | Theory I | 5 credits | | the late Nineteenth Century. Co | requisites: Mu 216 |
| Mu 116 | Theory II | 5 credits | | with 372; 217 with 373. | |
| Mu 117 | Theory III | 5 credits | | | |
| | Basic musicianship, stressing | scales and tonality, | Mu 251 | Electronic Music | 3 credits |
| | modes, intervals, chords, rhyth | m, form. Knowledge | | Creative modification of electron | nic sound by means |
| | of these concepts will be acqui | red by listening, sing- | | of synthesizers. Lectures and in | ndividual laboratory |
| | ing, analysis, discussion and | keyboard practice | | work. Recommended for public | school teachers No |
| | Prerequisite: Placement by ex | | | prerequisites. | Somoor todomore. The |
| Mu 120 | Violin | 1 credits | Mu 291 | Special Topics | 1-5 credits |
| Mu 120 | | 1 Cledits | Mu 292 | Special Topics | 1-5 credits |
| | Mandatory CR/NC | | Mu 293 | Special Topics | 1-5 credits |
| | | | | | |
| Mu 122 | Cello | 1 credit | Mu 372 | History and Literature of | |
| | Mandatory CR/NC | | | Music Classic Period | 3 credits |
| | | | | Corequisite: Mu 216. | |
| Mu 123 | Classical Guitar | 1 credit | Mu 373 | History and Literature of | |
| WIU 123 | | Cicali | | Music Romantic Period | 3 credits |
| | Mandatory CR/NC | | | Corequisite: Mu 217. | |
| | | 1 credit | | | and History of |
| Mu 125 | | i credit | Mu 415 | Modal Counterpoint, Literature | |
| | Mandatory CR/NC | | | the Middle Ages and Renaissa | |
| | | | | Sixteenth-Century contrapuntal | style as found in the |
| Mu 130 | A Cappella Choir | 1 credit | | music of Palestrina and his o | contemporaries. For |
| Mu 130 | | 1 Great | | music majors. | |
| | Mandatory CR/NC. | | | music majors. | |
| | | | | | |
| Mu 131 | Vocal Ensemble | 1 credit | Mu 416 | Tonal Counterpoint, Literature | and |
| | Mandatory CR/NC. | | | History of the Baroque Era | 5 credits |
| | | | | Eighteenth-Century contrapunta | al style as found in |
| Mu 135 | Fine Arts Ensemble | 1 credit | | the music of Bach and his o | contemporaries. For |
| INIU 100 | Instruments, singers, dancers | | | music majors. | |
| | ble performance. Mandatory | | | masic majors. | |
| | ble performance, intandatory | On NO. | Mu 417 | Contemporary Counterpoint, Li | terature and History |
| | | | Mu 417 | of the 20th Century | 5 credits |
| Mu 136 | Orchestra | 1 credit | | of the 20th Century | |
| | Prerequisite: Audition. Manda | atory CR/NC | | Contrapuntal techniques as use the Twentieth Century. For must | sic majors. |
| | | 5 credits | Mu 418 | Orchestration and Harmonic | |
| M., 151 | Songwriting | | WU 410 | Analysis | 5 credits |
| Mu 151 | | ic theory This course | | | |
| Mu 151 | A course for beginners in mus | | | Practical application of study of | the instruments and |
| Mu 151 | | | | Practical application of study of | the instruments and |
| Mu 151 | A course for beginners in mus | | | Practical application of study of their creative use. Prerequisite | the instruments and e: Permission of ad- |
| | A course for beginners in musis designed for the general s | tudent. | | Practical application of study of | the instruments and e: Permission of ad- |
| Mu 151 | A course for beginners in musis designed for the general so Music of J.S. Bach | tudent. 2 credits | Mu 401 | Practical application of study of their creative use. Prerequisite viser. | the instruments and e: Permission of ad- |
| | A course for beginners in musis designed for the general s Music of J.S. Bach Analysis of his instrumental | tudent. 2 credits and vocal music, par- | Mu 491 | Practical application of study of their creative use. Prerequisite viser. Special Topics | : Permission of ad- |
| | A course for beginners in musis designed for the general so Music of J.S. Bach | 2 credits and vocal music, par- ltimate refinement of | Mu 491 Mu 492 Mu 493 | Practical application of study of their creative use. Prerequisite viser. Special Topics Special Topics | e: Permission of ad- |



Foreign Languages

R. Maxime Marinoni, Ph.D., Chairman

Objectives

The foreign language programs in French, German, Italian, Spanish, Latin and Greek 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 their cultural context. Courses in French, German and Spanish are taught in the vernacular with the exception of the following: Fr 105, Fr 106, Fr 390; Gr 105, Gr 106, Gr 390; Sp 105, Sp 106 and Sp 390.

Practical — Career opportunities involving foreign languages are 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 objectivés, the Foreign Languages department offers regular, intensive, specialized and multi-discipline courses and programs.

Degrees Offered

Bachelor of Arts

Master of Education — F/L Teaching (French) — See
Graduate Bulletin

Master of Arts in Education — F/L Teaching (French)
See Graduate Bulletin

General Program Requirements

Students majoring in a foreign language must satisfy the core curriculum requirements of the University, as given on page 18 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.

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. French, German and Spanish only.

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 (classicial languages) — 25 credits which must include two special topics couses.

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.

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.

Credit by examination and waiver — The Foreign Languages department, reserves the right to waive all or part of the degree requirements for students who demonstrate, by examination, 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.

1-5 credits

1-5 credits 1-5 credits

Fr 135

Fr 215

Fr 225

Fr 235

Fr 291

Fr 292

Fr 293

Fr 315

Fr 325

Fr 390

Fr 415 Fr 425

Fr 435

Fr 445 Fr 450

Fr 451

Fr 452

Fr 455

Fr 460

Fr 461

Fr 462

Fr 465

French Language III

French Language IV

French Language V

Special Topics

Special Topics

French Language

and Civilization

and Civilization

Teaching Internship

Language Teaching

French Language VI **Special Topics**

French Culture, Civilization,

XVIIth Century, Classicism XVIIIth Century, The Enlightenment

Methodology of Teaching the

Methodology of Teaching Foreign

Theories, Techniques and Practice of teaching the French Language

Theories, Techniques and Practice

Comparative Methods, Techniques and

Performance Objectives of Foreign

of Teaching French Culture

Teaching French Culture

Language Improvement

Languages (French)

Introduction to French Literature

French Literature in Translation

XIXth Century, Literary Movements

XXth Century, Contemporary Literature

History and Geography

| Recommended Study Program | |
|--|--------------------------------------|
| Bachelor of Arts — Modern Languages Freshman year | |
| English 100, 133, 134 or 200 | credits credits credits |
| Sophomore year Major Language 215, 225, 235 | credits credits |
| Junior year Major Language 315, 325, one 400 level 19 Mathematics/Science core options 10 Minor Language 115, 125, 135 15 Theology core 15 | credits credits |
| Senior year Major Language, Two 400 level | 0 credits 5 credits |
| | o credits |
| Modern Language Courses | |
| French Courses | |
| Fr 105 Reading French | 5 credits |
| Fr 106 Reading French An intensive two-course program of study French for reading and translation with accomprehension. | 5 credits of written uracy and |
| Fr 115 French Language I Fr 125 French Language II | 5 credits |

5 credits

5 credits

5 credits

5 credits

2-5 credits

2-5 credits

2-5 credits

5 credits

2-5 credits

5 credits

5 credits

5 credits

3 credits

It 291

It 292

It 293

2-5 credits



| Fr 491 | Supervised Studies | 2-5 credits |
|---------|---|------------------------|
| Fr 492 | Supervised Studies | 2-5 credits |
| Fr 493 | Supervised Studies | 2-5 credits |
| Germa | n Courses | |
| Gr 105 | Reading German | 5 credits |
| Gr 106 | Reading German | 5 credits |
| | An intensive two-course program of stu | dy of written |
| | German for reading and translation w and comprehension. | ith accuracy |
| 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, | C avadita |
| | History and Geography | 5 credits 5 credits |
| Gr 325 | Introduction to German Literature | 2-5 credits |
| Gr 390 | German Literature in Translation | 2-5 Credits |
| Gr 416 | Literature and Culture, Beginning to | E avadita |
| | the 18th Century | 5 credits 5 credits |
| Gr 426 | Literature and Culture, 18th Century | 5 credits |
| Gr 431 | Literature and Culture, 19th Century | 5 credits |
| Gr 436 | Literature and Culture, 20th Century German Classicism and Romanticism | 5 credits |
| Gr 440 | German Classicism and Romanticism | 5 Credits |
| Gr 446 | Literature Trends of Modern Austria, | 5 credits |
| 0- 450 | West and East Germany Methodology of Teaching the | 3 Credits |
| Gr 450 | German Language | 5 credits |
| Gr 451 | Teaching German Culture and | 3 Credits |
| Gr 451 | Civilization | 5 credits |
| Gr 452 | Language Improvement | 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 |
| | the during station of weither Italian for | roading and |

Special Topics

Special Topics

Special Topics

Intensive study of written Italian for reading and

translation with accuracy and comprehension.

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. 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 Spanish Language VI Sp 235 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 2-5 credits Sp 416 19th Century Spanish Literature 5 credits Sp 426 20th Century Spanish Literature 5 credits Sp 436 Spanish American Literature before 19005 credits Sp 441 20th Century Spanish American Literature 5 credits Sp 446 Golden Age Literature 5 credits Methodology of Teaching the Sp 450 Spanish Language 5 credits Sp 451 **Teaching Spanish Culture** and Civilization 5 credits Sp 452 Language Improvement 5 credits (Sp 450, 451, 452 form part of the requirements for the BA in Education F/L Teaching-Spanish) Sp 455 Methodology of Teaching Foreign 2-5 credits Languages (Spanish) 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 Greek Language II Gk 102 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.

| 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 | 2-5 credits |
| | (for non-minors only) | |

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 Classical Latin. | lexicon of |
| Lt 291 | Special Topics | 2-5 credits |
| Lt 292 | Special Topics | 2-5 credits |
| Lt 390 | Latin Literature in Translation (for non-minors only) | 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 indepth 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

Objectives

Defying classification as either humanity or social science, history functions as both. It focuses on the values as well as the ideas, personalities and institutions that existed in the past and shaped the present. As concerned with perceptions of reality as with historic reality itself, it attempts to exploit all forms of information concerning the past-myth, folklore, legend and works of art, as well as conventional manuscript and published sources. And, while the department attempts to assist all students in acquiring that knowledge of the past which is essential to the educated person, it is especially concerned with developing the methods and techniques unique to historical inquiry. By consistently raising questions regarding "how we know" as well as "what we know" the department aims at the development of fundamental intellectual skills that will be of lifelong utility.

Degrees Offered

Bachelor of Arts

General Program Requirements

Students in history must satisfy the core curriculum requirements of the University as given on pages 18 and 19 of this bulletin. Required sequences are 15 credits of philosophy and 10 credits each of English, theology, social science and mathematics/science.

Departmental Requirements

Bachelor of Arts — 60 credits including Hs 104 and 105, 200, 400, 499. Of the remaining 35 credits, 20 are to be taken in a general area (Western Europe, United States, Russia-China-Japan). Study of a modern foreign language is highly recommended.

Undergraduate Minor — 35 credits of history of which Hs 104 and 105 are required.

Teaching Major (School of Education) — 55 credits of history, including Hs 104, 105, 231, 341 and seven upper-division courses.

Bachelor of Arts

Freshman year

| English 100 and core option | 10 | credits |
|----------------------------------|----|---------|
| Hs 104, 105 and history elective | 15 | credits |
| Philosophy 110 | 5 | credits |
| Electives | 15 | credits |

Sophomore year

| History 200 and electives 15 | credits |
|----------------------------------|---------|
| Philosophy 220 and core option10 | |
| Theology core option 5 | credits |
| | credits |

Junior year

| History electives | 15 | credits |
|----------------------------------|----|---------|
| Mathematics/Science core options | 10 | credits |
| Social science core option | | |
| Theology core option | | |
| Electives | 10 | credits |

Senior year

| Modern language or electives | 10 credits |
|-------------------------------|-------------|
| History 400, 499 and elective | 15 credits |
| Social Science core option | 5 credits |
| Electives | 15 credits |
| | 180 credits |

History Courses

| Hs 100 | Origins of the Modern World | 5 credits |
|--------|-------------------------------------|----------------|
| | An interpretation of the historical | development of |
| | contemporary society. | |

Hs 104 Western Civilization I 5 credits
A study of the ideas, values and institutions that comprised Western Civilization, through the 17th century.

Hs 105 Western Civilization II 5 credits
The development of Western civilization from the
18th through the 20th centuries and its impact on the
non-Western World.

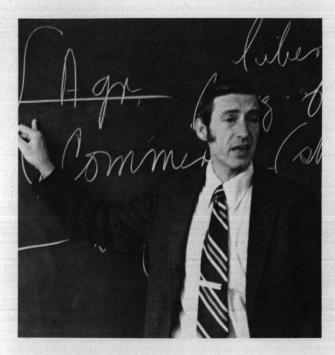
Hs 200 Methodology 5 credits
Techniques of historical research, criticism and writing.

Hs 231 Survey of the United States 5 credits

Events, movements, ideas and institutions of

American history from the era of discovery to the

present.



- Hs 251 Survey of Latin America 5 credits

 Events, movements and institutions of Latin

 American history from the era of discovery to the present.
- Hs 261 Survey of African Cultures 5 credits
 A cultural study of the ancient, medieval and modern
 peoples of Black Africa, with emphasis on social,
 religious, and political institutions and the cultural
 contributions of Africans to American culture.
- 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 303 Foundations of European Civilization 5 credits

 The emergence of the Carolingian Empire and
 Anglo-Saxon England. Western European relations
 with the Byzantine and Arab-Mohammedan states.
- Hs 306 Europe of the High Middle Ages
 Analysis of the cultural, political and social institutions of Medieval Europe.
- Hs 307 Europe in the Age of the Renaissance 5 credits
 Europe of the 14th through the 16th centuries. An
 analysis of the concept of Renaissance and the
 historical reality in both southern and northern
 Europe.
- Hs 309 Early Modern Europe 5 credits

 Analysis of specific problems of the Protestant Reformation and the Catholic Counter-Reformation, as arising from Renaissance humanism, and in relationship to modern institutionalization.

- Hs 311 Europe of the 18th Century 5 credits
 Cultural and political ferment of Western civilization in the century of the Enlightenment and the French Revolution.
- Hs 313 Europe of the 19th Century 5 credits
 The era of revolutions in ideas and societies, from the Napoleonic wars to the beginning of World War I.
- Hs 315 Europe of the 20th Century 5 credits
 Contemporary movements and institutions.
- Hs 321 Modern France 5 credits

 Development of cultural and political France from the 17th century to the present.
- Hs 325 Modern Western Culture 5 credits
 Reading in interpretive and secondary literature investigating the relationship of Christianity to 19th and 20th century Western culture.
- 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
 The Revolution, Confederation and Constitution.
 Continental expansion; domestic and international development to the Age of Jackson.
- Hs 335 Expansion and the Crisis of the Union 5 credits
 The Age of Jackson, territorial expansion, slavery
 and abolition, civil war and reconstruction.
- Hs 337 The United States in the
 Progressive Era
 Industrialization, immigration, urbanization and their
 effects on American society and politics.
- Hs 339 Recent United States 5 credits
 The culture of the 1920's, the Great Depression, the
 Second World War, contemporary American society.
- Hs 341 The Pacific Northwest 5 credits

 Past development and present problems of the states comprising the Pacific Northwest with emphasis on Washington state.
- Hs 343 American Society and Culture 5 credits
 Social and intellectual history of the United States,
 with emphasis on the 19th and 20th centuries.
- Hs 345 American Urban History 5 credits
 The rise of the American city, its role in American culture, and reactions to it.
- Hs 349 Afro-American History 5 credits
 African origins, the slave trade, the Afro-American
 experience; the contributions of Afro-Americans to
 American culture.
- 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 Portugese and other influences, of the Brazilian nationality and culture to the present.

- Hs 364 England (to 1715) 5 credits

 The transformation of a traditional society, the crisis of revolution, and the emergence of the first modern state.
- Hs 365 Modern Britain 5 credits

 The growth of England as a democratic, industrial state with the subsequent growth of imperialism and its decline. The crisis of wars and the emergence of socialism in the twentieth century.
- Hs 367 History of Ireland 5 credits
 The development of Ireland from pre-historic times to the present. Celtic civilization, Anglo-Norman invasion and the blending of cultures. Present problems of the North and the South.
- Hs 373 Modern Russia 5 credits
 History and culture of the Russian people in the 19th and 20th centuries.
- 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 389 History of Hawaii 5 credits

 Cultural and political history of Hawaii and an introduction to Hawaii's place in Pacific developments in the modern world.

| 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, wit | h the 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.
- Hs 412 The French Revolution and Napoleon 5 credits
 Studies in the institutions and events which led to the fall of old France.
- Hs 414 Modern Germany 5 credits
 Studies in German history and culture.
- Hs 431 The Westward Movement 5 credits

 American frontier history from colonial times to the end of the 19th century.
- 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 Confederated United States.
- Hs 435 American Civil War and Reconstruction 5 credits
 Political, social and economic aspects of the American civil war and reconstruction.
- Hs 451 Pre-Columbian America 5 credits
 Mayan, Aztec, Incan and other civilizations in subsequent Latin America.
- Hs 463 Social and Intellectual Change in Tudor England 5 credits
 Study of the relationships between thought and a late medieval society in transition.
- 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 497 Independent Study 1-5 credits
- Hs 498 Independent Study 1-5 credits
 Hs 499 Senior Seminar 5 credits



Honors Program

Rosaleen Trainor, CSJ, Ph.D., Director

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 this 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 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. 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. Students may elect to take Hu 398 or 499 while completing their major.

Honors Program Courses

William of Ockham.

| Hu 101 | Humanities Seminar - Thought | 5 credits |
|--------|---|----------------|
| Hu 102 | Humanities Seminar - Thought | 5 credits |
| Hu 103 | Humanities Seminar - Thought | 5 credits |
| | Three quarters of critical reading and the works which have most deeply development of the Western world, inc | influenced the |
| | Testament, Pre-Socratics, Plato, | |

Testament, St. Augustine, St. Thomas, Duns Scotus,

| Hu 111 | Humanities Seminar - Literature | 4 credits |
|-----------------------|---|------------|
| Language and the land | | |
| Hu 112 | Humanities Seminar - Literature | 4 credits |
| Hu 113 | Humanities Seminar - Literature | 4 credits |
| | Critical examination of those literary we | orks which |
| | have most deeply influenced the develop | |
| | Western world, including the dramatic be | |
| | Old Testament, Homer and the Gr | eek play- |
| | wrights, Virgil, 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 which also furnishes a background discipline for humanities-thought and humanities- |
| | literature, covering Hebrew, Greek, Roman and Medieval Christian history. |
| The second | |

| Hu 131 | Humanities | Seminar | - Science | 2 credits |
|--------|-------------|-----------|--------------------|-----------|
| Hu 133 | Humanities | Seminar | - Science | 2 credits |
| | The history | and natur | re 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 | 2-10 credits |
|---------|--|--------------------------------------|
| Hu 192* | Interdisciplinary Seminar | 2-10 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 cluding Descartes, Bacon, Hobbes, Leibniz, Rousseau, Hume, Kant, Hietzche, Marx, Sartre, Heidenger, | Locke, Spinoza, legel, J.S. Mill, |

Ricoeur.

| NU 211 | numanities Seminar - Literature | 7 CICUITO | |
|--------|---|-----------|--|
| 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 |
| | 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 phy- | | |
| | sical 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 |
|--------|----------------|-------------|
| | 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

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

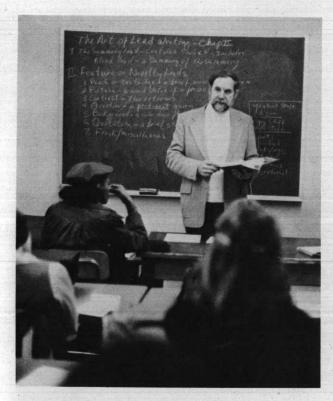
Bachelor of Arts

General Program Requirements

Students in journalism must satisfy the core curriculum requirements of the University as given on page 18 of this bulletin. Journalism students must receive a minimum grade of C in any journalism course to be applied toward major requirements. 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 an adviser he/she will then plan a sequence of courses, in journalism and in related areas, to meet 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 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

| 200 | | - | | |
|-----|----|---|----|------|
| E- | | h | - | |
| | es | | an | vear |

| History 101, 102 or 102, 103 10 Journalism 100 5 Philosophy 110, 220 10 Social Science core options 10 | credits credits |
|--|--------------------|
| Sophomore year | |
| Journalism 200, 210, 250 | credits |
| Speech/Drama options10 | |
| | credits |
| | credits |
| Theology core options | Credits |
| Junior year | |
| English 200/300 options10 History 331 or 333 or 335 or 337 or 339 | credits |
| or 347 or 348 or approved substitutes10 | credits |
| Journalism 330 and 300/400 options15 | |
| Electives10 | credits |
| | |

English 100 and core option10 credits

Senior year

| Journalism 300/400 options1 | credit |
|-----------------------------------|--------|
| Mathematics/Science core options1 | credit |
| Electives | |

Total . . . 180 credits

Journalism Courses

Jr 100 Introduction to Journalism

5 credits

Review of grammar for journalists. Introduction to journalistic style; writing news leads and basic news stories. (fall)

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 291Special Topics1-5 creditsJr 292Special Topics1-5 creditsJr 293Special Topics1-5 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 Study of the origins and growth or press from colonial to modern time | |
|--------|---|-----------|
| Jr 345 | Mass Communications Law | 3 credits |

Jr 345 Mass Communications Law 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; study of markets; 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 chair- | | |
| | man Mandatory CR/NC (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 460 Public Relations 5 credits
Public relations as a management function; policies,
procedures and problems; program analysis and
case study. (Biennially, spring)

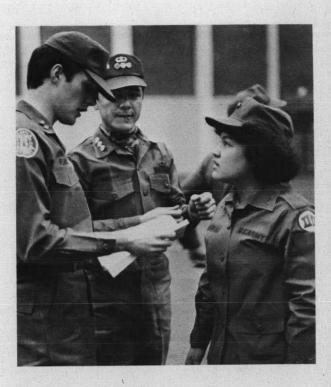
Jr 465 Publications' Advising 5 credits
Policies, techniques and problems in advising school publications. (summer)

| Jr 480 | Publications IV | 1 credit |
|--------|----------------------|--|
| Jr 481 | Publications V | 1 credit |
| Jr 482 | Publications VI | 1 credit |
| | tator and The Aegis. | editorial work on The Spec- Prerequisite: Permission of Mandatory CR/NC. (IV-fall, |

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 James G. Adams, M.S., Chairman

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 18. 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 workshop 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 workshop 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 requirement10 | credits |
| History core requirement10 | credits |
| Mathematics/science core requirement10 | credits |
| Military Science 101, 102, 103 6 | credits |
| Philosophy core requirement 5 | credits |
| Sophomore year (MS II) | |
| Military Science 201, 202, 203 6 | credits |
| Philosophy core requirement10 | credits |
| Social science core requirement10 | credits |
| Theology and Religious Studies core | |
| requirement10 | credits |
| Electives10 | credits |
| | |

Advanced Course

Junior Year (MS III)

| Military Science 301, 302, 303, 30416 | credits |
|---------------------------------------|---------|
| Minor concentration15 | |
| Electives | |
| Senior year (MS IV) | |
| Military Science 401, 402, 40312 | credits |
| Minor concentration15 | credits |
| Electives | credits |

Total 180 credits

Military Science Basic Courses

MS 101 Basic Officer Development I 2 credits
Hands on instruction in basic officer skills, to include map reading, compass, rifle marksmanship and survival. Field trips: (fall).

MS 102 Basic Officer Development II 2 credits

Continuation of Fall Quarter. Hands on instruction in first aid, rifle marksmanship, and squad/team tactics. Field trips. (winter).

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. (spring)

- MS 201 Preparation for Leadership 2 credits

 Development of individual skills in basic map reading, to include compass and orienteering techniques. Discussion of military equipment and technology available to the small unit leader. (fall).
- MS 202 Concepts of Military Operations 2 credits
 Application of the principles of warfare by small unit
 leaders. Principles of offense and defense at the
 squad level to include tactical formations and battle
 drill. (winter).
- MS 203 Communication Skills Development 2 credits

 Development of oral and written communication skills for the military leader. Practical application through student presentations and writing projects. (spring).
- MS 204 Army ROTC Basic Camp 4 credits

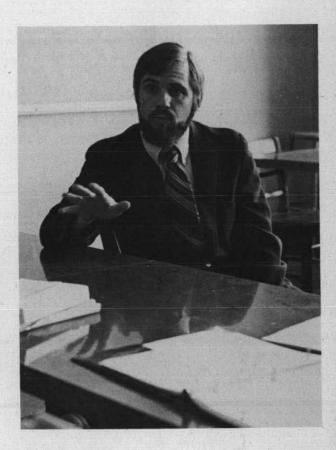
 Military training at Fort Knox, Kentucky qualifying students for advanced course. Open to academic juniors with no ROTC experience. Receive pay, travel expenses. Six weeks during summer.

| 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 301 Military Topographical Analysis 4 credits
 Principles of land navigation, orienteering, terrain
 analysis, map reading and aerial photograph interpretation for the small unit leader.
- MS 302 Tactical Operations

 The role of the company commander and subordinate leaders during tactical operations. Planning and execution of small unit offensive and defense maneuvers. (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. (spring)
- MS 304 Army ROTC Advanced Camp 4 credits
 Students perform as leaders in variety of roles, both administrative and tactical. Conducted for six weeks during summer. Successful completion of Advanced Camp required for commissioning. Prerequisite: MS 303. (spring)
- MS 401 The Military Team 4 credits
 Discussion of command and staff. Concepts of planning, coordination, and decision-making at battalion and company level. (fall)
- MS 402 Military Logistics/Military Justice 4 credits
 Discussion of logistical management of the Army
 support system. The Military Justice system and its
 importance to military discipline. (winter)
- MS 403 The US Military and World Affairs 4 credits
 The interrelationship of the US with other nations.
 Selected military subjects in preparation for commissioned service. (spring)



Philosophy

James B. Reichmann, SJ, Ph.D., Chairman

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 student to the language of universal communication whereby he/she might translate the complex manifold of human experience into relevant and creative meaning for themselves 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

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 the 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 — See Graduate Bulletin

General Program Requirements

Students in philosophy must satisfy the core curriculum requirements of the University as given on page 18 of this bulletin. In addition, students in philosophy must take 10 credits of language.

Departmental Requirements

Bachelor of Arts — 55 credits of philosophy which must include Pl 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: Pl 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 Pl 110, 220, 250, 260 and three upper division courses offered by the department.

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

Junior yearModern language 105, 10610 creditsPhilosophy seminars15 creditsElectives20 credits

Philosophy Courses

Pl 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 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 231 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. Prerequisite: PI 220.

PI 232 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. Prerequisite: PI 220.

PI 233 Introduction to Modern Philosophy 5 credits
Readings from source material of the modern philosophers. Investigation of topics, problems and doctrines of selected authors from Descrates to Kant.
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 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 291 Special Topics 1-5 credits
PI 292 Special Topics 1-5 credits
PI 293 Special Topics 1-5 credits
Prerequisite: PI 220

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
philosphers 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 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 330 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 340 Plato 5 credits
Selected readings from Plato's "Dialogues." Prerequisite: PI 220.

PI 350 Aristotle Selected readings from the writings of Aristotle.
Prerequisite: PI 220.

PI 355

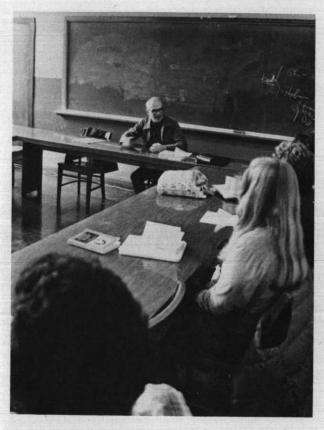
19th Century Philosophy

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 360 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 365

20th Century Philosophy—
The Speculative Tradition
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 400 | St. Augustine | | 5 credits |
|--------|---|---------------|-----------------|
| | Readings from Augustine, such God." Prerequisit | as "The Confe | writings of St. |

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 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 5 credits
Study of British Empiricism with special emphasis on
Locke, Berkeley and Hume. Prerequisite: PI 220.

PI 456 17th Century Rationalism
Philosophical systems of Spinoza and Leibnitz.
Prerequisite: PI 220.

PI 460 Kant 5 credits
Seminar in "The Critique of Pure Reason" with a brief supplementary discussion of the moral rationalism of Emmanuel Kant. Prerequisite: PI 220.

PI 465 Hegel 5 credits
Philosophy of Hegel with emphasis on "The
Phenomenology of Spirit" and "The Philosophy of
History." Prerequisite: PI 220.

PI 467 Philosophy of Communism 5 credits
Investigation of selected writings from such framers
of the philosophy of communism as Marx, Engels,
Feuerbach and Lenin. Prerequisite: PI 220.

PI 468 Marx 5 credits
A study of the historical background, philosophic origins and nature of the dialectical materialism of Karl Marx. Prerequisite: PI 220.

Pl 470 Philosophy of Society 5 credits
Consideration of the social nature of man, purpose
of society, social groups, the common good, subsidiarity, pluralism and authority. Prerequisite: Pl
220.

PI 478 Process Philosophy 5 credits
Selected readings from philosophers of process
such as Bergson, Dewey, Whitehead and Teilhard de
Chardin. Prerequisite: PI 220.

PI 483 Heidegger 5 credits
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.

PI 484 Merleau-Ponty 5 credits
His philosophy as set forth in "The Phenomenology of Perception" and "The Structure of Behavior."
Prerequisite: PI 220.

PI 488 Early Existentialism 5 credits
Philosophies of Klerkegaard, Nietzsche and
Dostoievski, with emphasis on their existentialist
trends. Prerequisite: PI 220

PI 489 Existentialism 5 credits
Selected readings from contemporary existentialist
figures including Sartre, Heidegger, de Beauvoir,
Camus, Jaspers, Marcel and Tillich. Prerequisite: PI

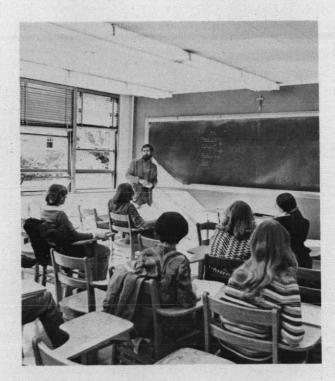
PI 491 Special Topics in Philosophy 1-5 credits
PI 492 Special Topics in Philosophy 1-5 credits
PI 493 Special Topics in Philosophy 1-5 credits

PI 494 Seminar 5 credits
PI 495 Seminar 5 credits

PI 496 Senior Seminar 5 credits
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.

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.



Political Science

Ben Cashman, Ph.D., Chairman

Objectives

The curriculum in political science introduces the student to political values, trains in political analysis and informs 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 flexible and designed to serve a variety of student interests within the broad area of public affairs and activities. A multidisciplinary curriculum, it offers the knowledge and skills needed for effective policy analysis and program implementation, and training for government employment or graduate studies.

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 18 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 210, 214, 280, 324, 370, 371, 372, 374, 375, 418, 419, 490.

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

Comparative and Foreign Governments — Pls 200, 315, 330, 337, 440, 441, 442.

Political Thought and Theory—Pls 242, 289, 351, 353, 354, 355, 490.

Bachelor of Public Affairs — 70 credits of interdisciplinary business, economics, political science and public service courses of which 45 are mandatory — Pls 160, 210, 370, 488, 490, Pub 416, 430, 491 and Ec 471. The remaining 25 credits will be chosen from a list of multidisciplinary offerings in consultation between student and adviser. Five credits of internship are required but may be waived if the student has already acquired suitable public service experience. An additional 10 credits of internship may be taken but are in addition to the 70 credits required for the major. The internship is the link in the transition from classroom to employment.

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

Electives .

| 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 Science10 | credits |
| Social Science core option 5 | credits |
| Theology core options10 | credits |
| Electives15 | credits |

| Junior year10Mathematics/Science core options10Political Science20Electives15 | credits |
|---|---------|
| Senior year Political Science | credits |

Total 180 credits

Bachelor of Public Affairs

| Freshman year Economics 271 English 100 and core option History core options Philosophy 110, 220 Political Science 160, 210 | 10 credits 10 credits 10 credits |
|--|--|
| Sophomore year Economics 272 Mathematics 175 Philosophy core option Political Science 370 BPA option Theology core options Electives | 5 credits 5 credits 5 credits 5 credits 10 credits |
| Junior year Mathematics/Science core option Public Service 430 Political Science 490 BPA options Electives | 5 credits 5 credits 10 credits |
| Senior year Public Service 491 Political Science 488 Public Service 416 Economics 471 BPA options Electives | 5 credits 5 credits 5 credits 10 credits |

Total 180 credits

American Political Thought Pls 242

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

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 nonmajors.

5 credits

Pls 289 Introduction to Political Philosophy An overview of political ideas from East to West, from Plato to present; application of these ideas to contemporary society.

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.

Political Science Courses

Pls 150 Introduction to Politics 5 credits Concepts and methodologies of political science; foundations of political behavior and institutions: comparative study of political functions and structures; political ideologies; forms of political action.

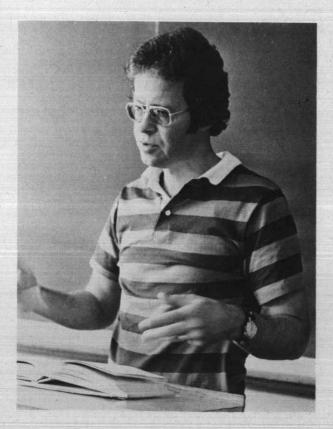
American National Government Pls 160 Study of the foundations, structures, functions of the executive, legislative and judicial branches of the government and their inter-relations with the popular processes of government.

Pls 200 Comparative European

Democracies 5 credits Analysis of selected foreign democratic systems; constitutional and ideological principles, governmental forms, practices and problems.

Introduction to Local and State Politics 5 credits Examination of structures and functions of political institutions at local, state, county and special district levels, especially legislative, executive and judicial systems.

Pls 214 Government and the Economy Government regulation and promotion of business. agricultural, labor and consumer interests. The regulatory agencies. Government corporations, antipoverty programs. Government economic Stabilization policies, critique of American capitalism.



Pls 324 Political Parties

and Interest Groups 5 credits
Theories, organization, strategy and leadership or
American political parties, campaigns and party
leadership. Role of interest groups in the American
political process.

- 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 337 Politics of Developing Countries 5 credits

 Emergence of nationalism, resistance and conflict in
 the modernization process, economic modernization, patterns and problems of political development.
- 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 preSocratics to 1400. Middle Eastern as well as Western Medieval ideas will be considered with emphasis
 on the reading 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 370 Public Administration 5 credits

 Role of public administration in political system; relationship of bureaucracy to executive, judicial and legislative branches, budgetary process, personnel administration, organization theory; control of bureaucracy.
- Pls 372 Urban Politics and Public Policy 5 credits
 Problems of large American cities with special
 emphasis on transportation, housing, public safety
 and planning problems. Fiscal problems of American cities; public school politics.
- Pls 374 The American Presidency 5 credits
 Analysis of powers of American presidents: relationship with Congress, bureaucracy, judiciary, private sector and with foreign governments.
- 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. 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 391 United States Foreign Policy

 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 418 Constitutional Law

 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 437

 Peace Movements and World

 Government

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

Pls 438 Contemporary World Politics 5 credits
An examination of dominant political forces on today's international scene and effects of these forces
on international relations, international law and international organizations.

Pls 440 Comparative Politics of Asia 5 credits
Analysis of selected Asian systems; governmental forms and ideologues; problems of nation-building; inter-state relations.

Pls 441 Comparative Politics of Africa 5 credits
Analysis of selected governments of Africa; constitutionalism, milarism, economic development and social change.

Pls 442 Comparative Politics of the Middle East 5 credits
Nature of the political conflict between Israel and her
Arab neighbors; special emphasis on the political institutions of Egypt and Israel.

Pls 488 Internship
On-the-job experience with appropriate governmental agency required for BPA degree. Students may register for no more than 15 total intern credits.

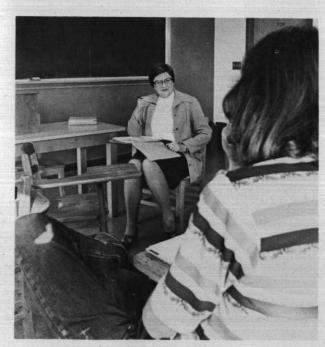
Pls 490 Scope/Methods in Public Policy Analysis 5 credits
Techniques of social science disciplines applied to
analysis and implementation of policy; research
design, data acquisition, index construction.

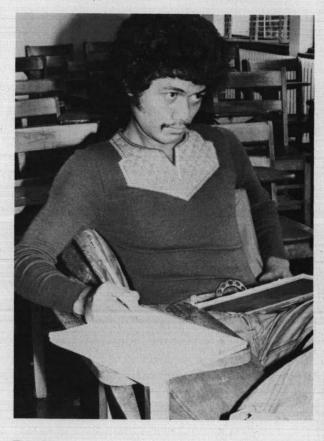
| | Special Topics Special Topics | 2-5 credits 2-5 credits |
|---------|-------------------------------|----------------------------|
| Die 404 | | |

Special Topics

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

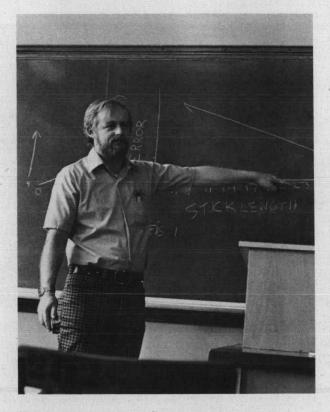
Ben Cashman, Ph.D., Adviser Sr. Christopher Querin, SP, Ph.D., Adviser

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, Ph.D., Chairman

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 a 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 18 of this bulletin. See programs of study for additional requirements.

Psychology majors may choose any minor. 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 department 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 option10 | credits |
| Mathematics/Science core option 5 | credits |
| Psychology 100 5 | credits |
| Electives | credits |
| | |

| Sophomore year | | |
|---------------------------------|-----|---------|
| Mathematics/Science core option | . 5 | credits |
| Philosophy 110, 220 | 10 | credits |
| Psychology 201 | 5 | credits |
| Social Science core option | . 5 | credits |
| Electives | 20 | credits |

| Junior year | |
|------------------------------|---------|
| English core option 5 | credits |
| Psychology and electives10 | credits |
| Social Science core option 5 | credits |
| Theology core options10 | credits |
| Elective 5 | credits |

| Senior year | | |
|------------------------|----|---------|
| Philosophy core option | 5 | credits |
| Psychology 301, 401 | 10 | credits |
| Electives | 30 | credits |

Total 180 credits



Bachelor of Science Freshman year 5 credits English 100.... History core option10 credits Mathematics/Science electives15 credits Psychology 100 ... 5 credits Electives ... 10 credits Sophomore year Mathematics/Science electives10 credits Philosophy 110, 22010 credits Psychology 201, 202 and elective13 credits Social Science core option 5 credits Electives 7 credits Junior year English core option 5 credits Senior year Mathematics/Science elective 5 credits Philosophy core option 5 credits Psychology 301, 330, 401, 402......20 credits Electives15 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 and inferential statistics; central tendency, variability, correlation and regression, probability, z and t tests, analysis of variance. II. Factorial designs and non-parametric statistics; Prerequisite: Psy 201 for 202. (I.-fall, winter, spring, II.winter) Psy 210 Personality Adjustment 5 credits The normal personality; self-knowledge and selfactualization; personality adjustment problems; various inadequate reactions, escape and defense mechanisms; positive mental health. (fall, 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

Prerequisite: Psy 100. (fall)

Psy 302 Contemporary Theories

Survey of the history of psychology, including the classic periods of structuralism, functionalism, behaviorism, psychoanalytic schools and Gestalt.

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)

5 credits

| Psy 315 | Abnormal Psychology 5 credits |
|---------|--|
| | Survey of abnormal mental and emotional life; |
| | symptoms, nature and causes of psychological dis- orders; 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

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

Psy 402 Experimental Laboratory Psychology II 5 credits I. Nature and interpretation of experimentation, basic experimental design; psychophysical

hasic 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)

5 credits



Psy 427 The Counseling Interview

Basic theory, principles and dynamics of the counselor-client relationship and the counseling process. Prerequisite: Permission. (spring)

Psy 461 Theory of Group Dynamics 2 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, spring)

Psy 462 Experience of Group Dynamics 3 credits
Experience of group dynamics through participation in a group; emphasis on experiencing interpersonal communication. Prerequisite: Psy 461.
Mandatory C/NC. (fall, winter, spring)

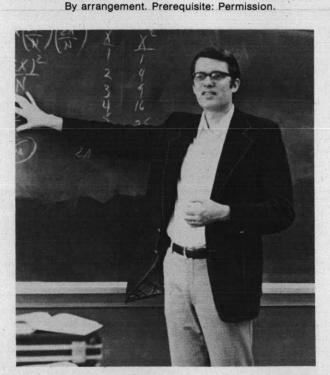
Psy 490 Symposium on Alcoholism 2-5 credits
(Alc 400) Psychological, educational, physiological, social, industrial, psychiatric, therapeutic and rehabilitation aspects of the problem of alcoholism. Prerequisite:

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





Rehabilitation

Ekkehard J. Petring, Ph.D., Chairman

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 professionals, 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 professionals 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 professionals might work with include alcoholics, blind, deaf and hard-of-hearing, drug addicts, industrially injured, mentally ill, mentally retarded, public assistance recipients 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.

Degrees Offered

Bachelor of Arts in Rehabilitation

Master of Arts in Rehabilitation—See Graduate Bulletin

Certificate Program

The Rehabilitation Certificate is a 45 credit program that is offered late afternoons and evenings and has the following components: 10 credits of field experience; 15 credits of foundation courses (RHB 100, RHB 201, RHB 301); 20 credits to be selected by the student and the adviser. The Rehabilitation Certificate program is open to all persons, with or without a degree, who meet the University's entrance requirements. Certificate credits are applicable toward a B.A. degree.

General Program Requirements

Students in rehabilitation must satisfy the core curriculum requirements of the University as indicated on page 18 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 (Psy 100, 201, 315), Soc 101, and 5 credits of Social Science or Rehabilitation elective.

Bachelor of Arts

| 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 | 5 | credits |
| Social Science or Rehabilitation elective | 5 | credits |
| | | |

| Sophomore year | |
|-------------------------------------|---------|
| Biology 200, 210, or 270, 27110 | credits |
| Philosophy 220 5 | credits |
| Psychology 201 5 | credits |
| Rehabilitation 201, 203, 210, 30120 | credits |
| Theology core option 5 | credite |

| Junior year | A STATE OF THE REAL PROPERTY. |
|--------------------------------|-------------------------------|
| Philosophy core option | 5 credits |
| Psychology 315 | 5 credits |
| Rehabilitation 305, 310, 400 1 | 5 credits |
| Theology core option | 5 credits |
| Elective1 | 5 credits |
| | |

| Senior year | |
|----------------------|---------|
| Rehabilitation 405 5 | credits |
| Rehabilitation 41020 | credits |
| Electives20 | 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 professional 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 professional 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. Coordinating seminars are an integral part of each field experience course. Prerequisite: Rhb 100. Mandatory CR/

| 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, 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.

Rhb 310 Field Experience in Rehabilitation 5 credits
See course description for Rhb 210. Mandatory CR/
NC.

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

Rhb 400 Rehabilitation Resources 5 credits

Rehabilitation community organization and methods of determining, evaluating and analyzing rehabilitation resources.

Rhb 405 Job Placement and Development 5 credits

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. Mandatory CR/NC.

| Rhb 49 | 7 Independent | Study | | 1-5 | credits |
|--------|----------------|-------|----------------|------|---------|
| Rhb 49 | 8 Independent | Study | | 1-5 | credits |
| | Individualized | | by arrangement | with | the ap- |



Sociology

James P. Goodwin, SJ, M.A., Chairman

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 18 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.

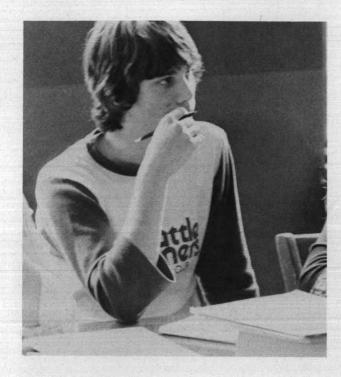
Liberal sociology major — 30 credits. The student may take any upper division sociology course with the approval of his adviser.

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

Bachelor of Arts

| Buomerer er rane | |
|----------------------------------|--------------|
| Freshman year | |
| riesilliali yeal | 10 credite |
| English 100 and core option | 10 Credits |
| History core options | 10 creans |
| Psychology 100 | 5 credits |
| Sociology 101, 201 | 10 credits |
| 50clology 101, 201 | 10 credits |
| Electives | To creats |
| Sophomore year | |
| Philosophy 110, 220 | 10 credits |
| Philosophy 110, 220 | E aredita |
| Philosophy core option | 5 credits |
| Balitical Science Psychology or | |
| Economics core option | 5 credits |
| Sociology 200, 380, 381 | 15 credits |
| 30clology 200, 300, 301 | 10 credite |
| Theology core options | To credits |
| Elective | 5 credits |
| | |
| Junior year | |
| Mathematics/Science core options | 10 credits |
| Modern Language 105, 106 | 10 credits |
| Philosophy | 5 credits |
| Philosophy | 15 andito |
| Sociology electives | 15 credits |
| Electives | 5 credits |
| | |
| Senior year | |
| Fine Arts 101, 102, 103 | 15 credite |
| Fine Arts 101, 102, 103 | 15 credits |
| Sociology electives | 15 credits |
| Flootives | - 15 credits |

Total 180 credits



Sociology Courses

Sc 101 Fundamentals of Sociology 5 credits
A description of the science of sociology; an analysis of interpersonal relations, of associations and social institutions, and of the way these affect one another and are affected by culture.

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
(Psy 201) Review of basic statistical principles and processes in social science research.

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 the offenses of juveniles as distinct from those of adult offenders, and sociological explanations of these behaviors within contemporary conceptual models.

Sc 260 Sociology of the Family 5 credits

The structure and functions of the family as a social system; the use of sociological perspectives to interpret the position of the American family in an era of social change.

Sc 262 Socialization 5 credits
Sociological analysis of the process by which one is inducted into socio-cultural systems, and a review of the effectiveness of the process in American society. Prerequisite: Upper division standing or permission.

Sc 266 Interracial and Interethnic
Relations 5 credits
Analysis of the factors involved in intergroup rela-

Analysis of the factors involved in intergroup relations. Prerequisite: Upper division standing or permission.

Sc 280 Urban Community 5 credits
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.

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.

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.

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.

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.

Sc 351 (CJP Roles of police in the community; relationships with with individuals, groups and community organizations. Analysis of ethnic, cultural and economic differences as factors in the administration of justice.

Sc 352 Society and Justice 5 credits

(CJP The criminal justice process from arrest through release; the relationships of the police, the prosecutor, the defense, the courts, the prisons and corrections, as each integrates into a system.

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.

Sc 362 Deviant Behavior 5 credits
(CJP 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.

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.

Sc 365 (CJP Examination of current trends and issues in probation and parole supervision, personnel qualifications, legal aspects, and research on results and prediction of outcome.

Sc 366 Corrections 5 credits

(CJP Analysis of post-arrest treatment methods applied to offenders, the correctional institution and community-based corrections. Prerequisite: Upper division standing or permission.

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.

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. Mandatory CR/NC.

Sc 380 Methods of Sociological Research I 5 credits

Sc 381 Methods of Sociological Research II 5 credits
I. Logical structure and procedures of data gathering and analysis. II. Practicum: student research project.
Prerequisites: Sc 101 and 201 for 380; 380 for 381.

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.

Sc 410 Social Stratification 5 credits

Analysis of the ranking of persons and families in organizations and systems of social strata and its consequences.

Sc 412 Juvenile Justice Systems 3 credits
(CJP Examination and study of contemporary policejuvenile operations. Theory and examination of the
juvenile justice system. Relationship between the
juvenile officer, crime prevention and community
relations.

Sc 415
(CJP 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.

Sc 420 Mass Communication 5 credits

Consideration of message-formation and messagedissemination on the societal level with reference to
social structures, social power and social change.

Prerequisite: Upper division standing or permission

Sc 430 Social Change 5 credits
Social change as embodied in social movements, reforms, revolutions and less deliberate types of social and cultural change.

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.

Sc 480 Sociology of Work 5 credits
Study of the industrial enterprise as a social system
and the social psychology of human relations in a
work setting.

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
thinkers who have contributed to the development of
sociology as an independent discipline. Prerequisite: Upper division standing or permission of instructor.

Sc 497 Individual Research

Design and execution of a research project supervised by a faculty member.

Sc 498 Directed Reading in Sociology I 1-5 credits

Sc 499 Directed Reading in
Sociology II
Sociological reading at an advanced undergraduate level in a tutorial relationship with one professor.
Prerequisite: Upper division standing.



Speech

Margaret A. Penne, M.A., Adviser

Objectives

The Speech program offers background and practice in the skills of oral delivery. To accomplish this purpose, 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 speech courses among their electives.

Speech Courses

tion.

speech.

Sph 100 Fundamentals in Speech 5 credits
Theory and practice of basic speech communication skills. Introduction to interpersonal communication, public communication and aesthetic communica-

Sph 200 Public Speaking 5 credits
Theory and practice in organizing and delivering a

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 Persuasion and Argumentation 5 credits
Principles involved in effective argumentation and
persuasion, practice in forms of debate.

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

Study and criticism of American public speaking.

Practice in contemporary methods of public speaking.

Prerequisite: Sph 100 or Sph 200 or permission of instructor.

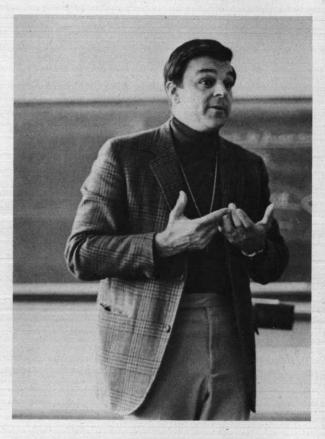
Sph 320 Speech for the Classroom

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.



Theology and Religious Studies

Richard H. Ahler, SJ, S.T.D., Chairman

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.

The department also offers post baccalaureate programs designed for priests, men and women religious and laity who are interested in broadening their understanding of and participation in the mission of the Church, to help them achieve a high level of competence in the Church's various evolving ministries.

Degrees Offered

Bachelor of Arts Master of Religious Education (SUMORE)—See Graduate Bulletin

Master of Pastoral Ministry—See Graduate Bulletin Certificate in Pastoral Ministry (CORPUS)—See Graduate Bulletin

General Program Requirements

Students in theology and religious studies must satisfy core curriculum requirements of the University as given on page 18 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 religous 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.

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 | |
| Theology and Religious Studies 200 | |

Sophomore year

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

Junior year

| Mathematics/Science core options | 10 credits |
|-------------------------------------|------------|
| Philosophy elective | |
| Theology and Religious Studies 355, | |
| 357, 358 | 15 credits |
| Flectives | 15 credits |

Senior year

| Theology and religious studies electives | 25 credits |
|--|-------------|
| Electives | 20 credits |
| Total | 180 credits |





Theology Courses

| 111001 | 09) 000.000 | A CONTRACTOR OF THE PARTY OF TH |
|--------|---|--|
| RS 200 | Judaeo-Christian Origins | 5 credits |
| | Survey of key books of the Bible ar | nd/or themes of |
| | the Scriptural tradition and its develo | opment. For stu- |
| | dents with a minimal previous back | ground in bibli- |
| | cal studies | |

| 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 non-Christian religions: Buddhism, Hinduism, Confucianism, Shinto and Islam.

RS 290 Religious Experience

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 |
|--------|----------------|-------------|
| | Special Topics | 3-5 credits |
| | Special Topics | 3-5 credits |

RS 320 Fundamental Themes in Theology

Speculative investigation into the reasonableness of revealed truths as accepted in Faith; the Incarnation, Redemption and their effects in man.

5 credits



RS 330 The Problem of God 5 credits

Reality of God for contemporary man; atheism;
man's sense of God's presence and His absence, 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.

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; understanding of that Community in its dynamic, historical process of growth; authority and freedom, tradition and change.

RS 347 Black Religious Experience 5 credits
Black religion is a theology of freedom, of proclamation, of power of hope. Each must be developed to show its convergence with religion in general, yet its divergence into Black Religion in particular.

RS 350 Perspective of Christian Hope 5 credits

The future of man and the cosmos based upon the
Christian's faith in the Resurrection and Glorification of Jesus Christ; a theology of hope that confronts modern secularism.

RS 355 Early Christian Theology 5 credits
Theological, historical and literary analysis of writings of some of the leading early and later Fathers of the Church, e.g., Justin, Irenaeus, Tertullian, Origen, Augustine. 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; controversies among Catholics, Lutherans, Calvinists and Jansenists; the Enlightenment and Vatican Council I. Prerequisite: RS 357.

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 450 Theology of Liberation 5 credits
Scripture passages in describing Yahweh or Jesus as liberating men; Christ as the end of all creation; Christ viewed as the terminus of all cosmic and human evolutionary development. Liberation according to contemporary theologies of socio-economic and political liberation.



RS 475 Contemporary Christian Morality

Principles of a Christian ethic; contemporary approaches to decision making 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 contemporary Catholic and Protestant social statements.

RS 477 Christian Response to
Some Socio-Legal Problems

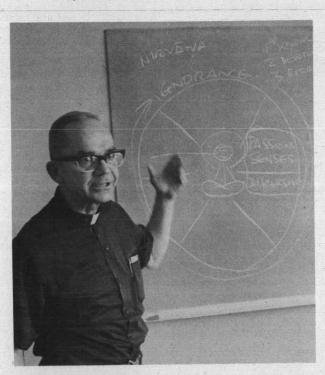
Traditional Christian reverence for life. Contemporary moral and legal problems such as eugenic engineering, artificial insemination, genetic surgery, compulsory sterilization, abortion and euthanasia.

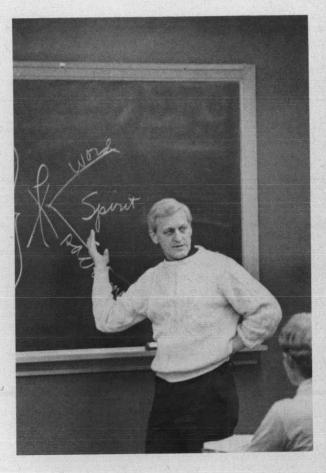
RS 478 Survey of Jewish History 5 credits
Survey of Jewish history up to the contemporary
period with special emphasis on the Second Commonwealth and Talmudic Period.

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
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

Background and development of rationales and methodologies in religious education related to Vatican II; implication of Council statements and 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; Bultmanns, Tillich, Niebuhr.

RS 488 Methodology
Introduction to the history, methodology and sources of research in theology; conditions for theological development; continuing Christian response in its magisterial and credal functions.

RS 490 Special Topics—Core

Under this number, there will be courses that are not otherwise available in the core curriculum. Ordinarily the prerequisite will be RS 200 or approval of chairman.

| RS 491 | Special Topics | 3-5 credits |
|--------|-------------------------------|-------------|
| RS 492 | Special Topics | 3-5 credits |
| RS 493 | Special Topics | 3-5 credits |
| | | 3-5 credits |
| RS 494 | Special Topics | 3-3 Credita |
| RS 496 | Directed Readings in Theology | 2-5 credits |
| | | 2-5 credits |
| RS 497 | Individual Research | |
| RS 498 | Independent Study | 2-5 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.

Religious Studies Center Courses

RS 201* Old Testament: Meaning and

Values for Today

A study of the Old Testament, with a view to understanding its meaning and message for persons of

RS 202* New Testament: Meaning and Values for Today

faith in our time.

Values for Today

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 CEU

2-3 CEU

2 CEU

RS 204* The Scriptures: Special Topics (New Testament)

RS 205* Special Topics 2-3 CEU
RS 206* Special Topics 2-3 CEU
RS 207* Special Topics 2-3 CEU

RS 300* The Faith Experience Today 2 CEU

The event of divine revelation and signs by which we recognize God's presence; personal faith response, grounded in reflection on human experience.

RS 301* Theology of Person: Man

and God in Contemporary Thought

2 CEU
Study of the person as interpreted by science, literature, and theology; concepts of God as these arise from experience and self understanding.

RS 303* The Contemporary Jesus:

Person or Movement?

The person of Jesus in his historical, redemptive role; how Jesus relates to us today, individually and within the community; the search for Jesus as a dimension of the search for meaning.

RS 304* Contemporary Morality: Freedom and the Christian Conscience

Basic principles of the Christian moral life framed in the context of lived morality today; Christian freedom as it informs the process of ethical decisionmaking and conscience formation.

RS 305* Life and Death: Moral Issues and Alternatives

Study of the complex issues related to right to life; human values that are normative in addressing problems raised by medical technology today.

RS 306* Social Justice: Moral Issues

and Alternatives

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

Socio-theological study of the Church, as sign and sacrament of Christ's saving presence among men; priestly and prophetic nature exercised through continuing dialog with all sectors of the society.

2 CEU

2 CEU

2 CEU

2 CEU

2 CEU

2-3 CEU

RS 308* Sacraments and Religious Experience

The meaning and role of Christian sacraments in worship; how sacraments in their psychological and social dimensions create and express the community.

RS 309* Prayer and Worship: Person and Community Before God

The spirit, forms and function of prayer in Judaeo-Christian experience; qualities of prayer as it facilitates and enriches growth toward Christian fulfillment.

RS 400* Theology of Liberation: Christian Hope

Christian Hope 2 CEU
Christian hope as the power of the future that assists in understanding sources of social and political problems, and directs us in creating alternatives for liberating persons from forms of injustice.

RS 401* Theology of Liberation:

Faith and Secularity

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.

RS 402* Theology of Liberation:

Christian Praxis

Theology as it not only interprets the world, but mobilizes change for the responsibility of Christians to be agents of social change; critique of means through which humanizing social change is effected.

RS 404* Catechetical Ministry I

RS 405* Catechetical Ministry II 2 CEU
RS 406* Catechetical Ministry III 2 CEU

A three course sequence for the development and evaluation of a competency approach for the preparation of catechists. Prerequisite: 404 for 405, 405 for 406.

RS 407* Christianity and Culture

Christian view of culture today: role of church in both encouraging and challenging American value assumptions.

RS 408* Religion and Technology

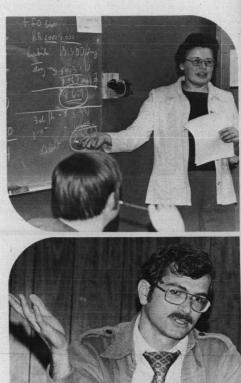
The effects of technological society upon the environment, the production and consumption of goods; resources within the Judaeo-Christian tradition relevant to the task of humanizing technology.

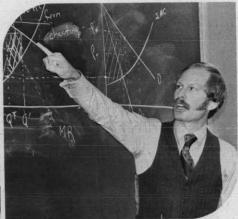
RS 409* Environmental Ethics

Ethical dimensions of the environmental crises, based on interdisciplinary sources of understanding: e.g., value assumptions and the need to raise new value questions.

RS 410* Special Topics RS 411* Special Topics

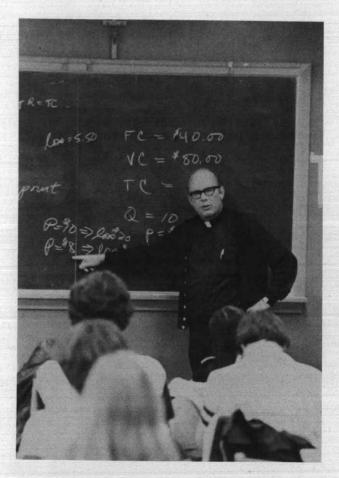
RS 411* Special Topics 2-3 CEU RS 412* Special Topics 2-3 CEU







ALBERS SCHOOL OF BUSINESS



Albers School of Business

John D. Eshelman, Ph.D., Dean J.W. McLelland, M.A., Associate Dean

Department Chairpersons

Accounting and Legal Environment: David Tinius, Ph.D., CPA. Chairperson

Administration: C. Patrick Fleenor, Ph.D., Chairperson Economics: Hildegard Hendrickson, Ph.D., Chairperson

Objectives

Collegiate education for business should prepare students for business careers, not simply for job-finding. A broad, liberal education, comparable to university 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 Albers School of Business Graduate Admissions officer.

Degrees Offered

Bachelor of Arts in Business Administration Bachelor of Arts in Economics Master of Business Administration (evening classes only)—See Graduate Bulletin

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 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 sciences....75 credits

English 100 and one of the following English courses: 132, 133, 134, 220, 230, 240 or 383; Mathematics 118, 130 and 213 recommended or 214; Philosophy 110, 220 and a five-credit philosophy elective; social sciences, ten 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 211, 230, 231, 270, 310, 340, 350, 380, 480, 482; Economics 271, 272. |

- 4. Electives from any undergraduate offerings of the University......25 credits

Total . . . 180 credits

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, 130 10 credits |
| Natural Science 5 credits |
| Philosophy 110 5 credits |
| Social Sciences (Psychology 100 and |
| Sociology 101 recommended) 10 credits |
| Elective 5 credits |
| |
| Sophomore year |
| Business 211, 230, 231, 27020 credits |
| Economics 271, 27210 credits |
| Mathematics 213 (recommended) or 214 5 credits |
| Philosophy 220 5 credits |
| Theology and religious studies 5 credits |
| |
| Junior year |
| Business 310, 340, 350, 380, |
| Business major (300-499)10 credits |
| Theology and religious studies 5 credits |
| |

| or economics | 10 credits |
|--------------------------|------------|
| | |
| Senior year | |
| Business 480, 482 | 10 credits |
| Business major (300-499) | 10 credits |
| Philosophy | 5 credits |
| Electives | 20 credits |

Total . . . 180 credits

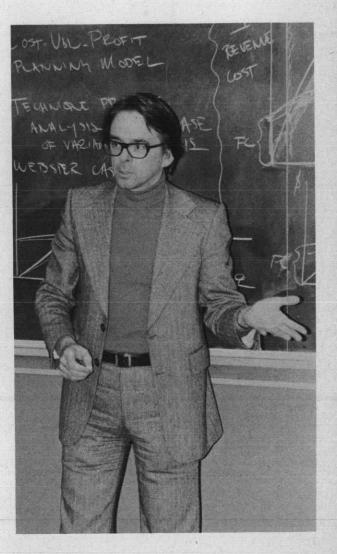
Accounting

Electives other than husiness

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, financial 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

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

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

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 382, 481, 483.

Marketing

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 environment on business sector; role and
responsibilities of business in society; career opportunities; inter-relationships of major functional
areas.

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)

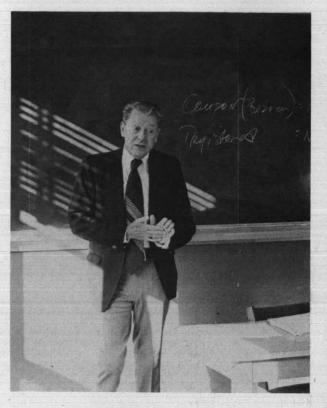
Bus 230 Principles of Accounting I (Financial) 5 credits
Introduction to financial accounting concepts with
emphasis on the development of the student's ability
to understand and interpret financial statements of
business entities. (fall, winter, spring).

Bus 231 Principles of Accounting II (Managerial) 5 credits
Introduction to the use of accounting information for
decision making in planning and controlling the
operation of business organizations. Prerequisite:
Bus 230 (fall, winter, spring)

Bus 270 Law & Business

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. Introduction to information systems. Planning, designing, implementing commercial systems. Development of computer-based management information systems. Prerequisite: Mt 213 or 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

Theory and development of 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

Theory and development of 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

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. Prequisites: 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 industry profit sharing plans. Prerequisites: Bus 231, Ec 271.

Bus 380 Organization Behavior 5 credits

Develops understanding of organizational behavior, with focus on basic processes, methods involved in diagnosing human situations. Experiential exercises and analysis of concepts. Prerequisite: junior standing.

Bus 381 Organization Structure 5 credits

Administrative setting, roles of supervisory personnel as determinates of the scope and techniques of management. Interpersonal relations, communication, leadership, organization structure, individual behavior and motivation. Prerequisite: Bus 380.

Bus 382 History, Theory and Practice
of Management
The origins of current management practices are explored. Theories are developed and then applied to solving real cases and incidents. Prerequisite: junior standing.

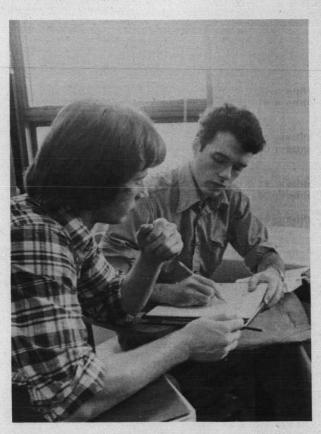
Bus 383 Personnel Management 5 credits

Management of human resources to achieve the
goals of the firm and its personnel in times of change.

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

Purpose, scope, concepts and methods used in examining and attesting to financial statements. Current issues concerning professionalism, and 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, decision-making. Student participation in various roles of marketing. Organization planning, execution and control of marketing programs. Prerequisites: Bus 231 and 451. Seniors only.

Bus 480 Operations Management

Survey of systems analysis techniques for manufacturing and service organizations. Network analysis, scheduling, inventory control, linear programming and heuristics. Prerequisite: Bus 211, Mt 213 or 214.

Bus 481 Small Business Management 5 credits
Procedures and problems in starting and operating
a successful small business enterprise. Prerequisite: Senior standing.

Bus 482 Business Policy and Organization 5 credits

Case studies of policy and administration of business; intellectual discipline which permits understanding a problem, planning a program of action, progression to execution and constant review; original work in analysis and policy decisions. Prerequisite: Senior standing. (fall, winter, spring)

Bus 483 Management Seminar 5 credits

Development of a specific area of management.

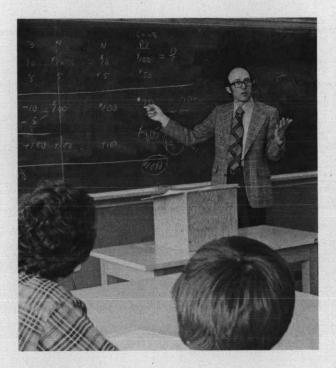
Various approaches to study of organizations,
conceptual and analytical models, research
methodologies, trends in management. Prerequisite: Bus 381, 383, 480, senior standing.

Bus 499 Independent Study
Supervised individual research. Open to senior business majors with the approval of the student's

2-5 credits

Bus 491 Special Topics

adviser.



Economics

Objectives

The courses in economics are designed to acquaint the student with the economy in which he/she 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 18 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 take Hs 231 as 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 seven 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 option10 | credits |
| History 231 and core option10 | credits |
| Mathematics 118, 13010 | credits |
| Philosophy 110 5 | credits |
| Political Science 160 5 | credits |
| Elective | credits |
| Elective | Cicaito |
| Sophomore year | |
| Business 211, 23010 | credits |
| Economics 271, 27210 | credits |
| Philosophy 220 5 | credits |
| Social Science core option 5 | credits |
| Electives15 | credits |
| LIBORIVOS | |
| Junior year | |
| Economics 372, 374 and electives20 | credits |
| Philosophy core option 5 | credits |
| Theology core options10 | credits |
| Electives10 | credits |
| | |
| Senior year | |
| Economics 479 and electives25 | credits |
| Electives20 | credits |
| | A STATE OF THE STA |

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.

Total . . . 180 credits

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 distribútion of income and wealth; problems of the world economy.

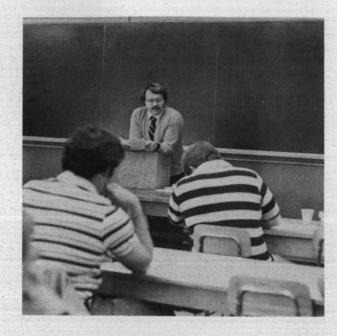
Ec 273 American Economic History 5 credits
Economic growth of the United States in the light of
the political and social trends of the times. Stresses
the historical background of contemporary
problems.

Ec 275 Economics of Poverty 5 credits

Poverty in the United States with emphasis on urban poverty. Roles of technology, region, race, sex and education on poverty. Success of programs, public and private, in the areas of housing, welfare and occupational training. Legislation related to poverty.

| 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,
ancient to contemporary, Christian influence, merchantilism, laissez faire; German and Austrian
schools, Marx and 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.

Government regulation of industry and commerce and 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 the 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
Pattern, organization and promotion of U.S. and
world trade. Trade theories. Exchange rates. For-

world trade. Trade theories. Exchange rates. Foreign prices and payments. Protection and free trade. G.A.T.T. European Community. Multinationals in foreign trade. Prerequisite: Ec 271.

Foreign Exchange Market. Balance of Payments.
Gold standard and developments. Bretton Woods system, the I.M.F. and current problems. Oil prices and inflation. Post-war international investment. Eurodollars. Prerequisite: Ec 271.

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

Developing nations and agriculture, industry, population, education, technology, exports, imports, capital and savings, unemployment. Commodity agreements. Special preferences. Foreign aid. U.N.C.T.A.D. Prospects and limits. Prerequisite: Ec

Ec 478 Comparative Economic Systems 5 credits

Economic systems in theory and practice. Classical,
Marxian, Neoclassical, Keynesian, post-Keynesian
theories. Soviet agricultural and industrial organization and operation. Market socialism. Future
trends. Prerequisites: Ec 271 and 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.

Ec 491 Special Topics 2-5 credits

Ec 499 Independent Study 2-5 credits
Supervised individual research. Open to senior economics majors with approval of adviser.









SCHOOL OF EDUCATION



School of Education

John A. Morford, Ed.D., Dean Gary H. Zarter, Ph.D., Associate Dean

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 — See Graduate Bulletin
Master of Education—See Graduate Bulletin
Master of Counseling—See Graduate Bulletin
Doctor of Education—See Graduate Bulletin

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 324 and 325, or 434, 435, 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 basis: 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:

 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. 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.

 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.

 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 Associate 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. At least one course having primary emphasis on multi-cultural or ethnic heritage must be included.



Typical Program

| rreshman year | |
|-----------------------------------|------------|
| English core options | 10 credits |
| History core options | 10 credite |
| Philosophy care options | E oredita |
| Philosophy core options | 5 credits |
| Social Science core option | 5 credits |
| Major or electives | 15 credits |
| Sophomore year | |
| Education 322 | 5 orodito |
| Mathematics (Science core entions | 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 324, 325, 330, 337 | 20 gradite |
| Physical Education | 20 Credits |
| Physical Education | 5 credits |
| Major or electives (including | |
| course in teaching of major) | 25 credits |
| | |
| Senior year | |
| Education 439 | 3 credits |
| | |

Total . . . 190 credits

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 18: 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.

For recommendation in Business Education the following must be completed: 1) Bus 230, 231, 270, 340, and 380; 2) Econ. 271 and 272; 3) Ed 430, Teaching Secondary Subjects: Business: 4) proficiency must be demonstrated in **two** of these skills—typing, shorthand, office machines.

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.



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 18 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 | |
| Social Science core option 5 | credits |
| Teaching subject or supporting area15 | credits |

| Sophomore year | |
|--------------------------------|---------|
| Art 370, Music 11410 | credits |
| Biology 205; Mathematics 20010 | credits |
| Education 322 5 | credits |
| Philosophy core options10 | credits |
| Theology core options10 | credits |

| Junior year | | |
|--------------------------------|----|---------|
| Education 324, 325 | 10 | credits |
| Physical Education | | |
| Education 330, 336, 340 | | |
| Teaching subject and electives | | |

| Senior year | | |
|--|---|---------|
| Education 438 | 3 | credits |
| Student teaching1 | 2 | credits |
| History 341 or Speech 320 or Education | | |
| electives and 4201 | 5 | credits |
| Teaching subject and supporting | | 100 h |
| area and electives2 | U | credits |
| | | |

Total . . . 190 credits



Typical Program Elementary with Montessori Emphasis

| Liementary with montecoon in phone |
|--|
| Freshman year English core (include American Literature) .10 credits History core (include U.S. History) |
| Sophomore yearArt 370, Music 11410 creditsBiology 205; Mathematics 20010 creditsEducation 3225 creditsPhilosophy core options10 creditsTheology core options10 credits |
| Junior yearEducation 328, 32910 creditsPhysical Education5 creditsEducation 336 and 34010 creditsTeaching subject and electives22 credits |
| Senior year Student teaching (½ day for a year) |

Total . . . 190 credits

Ed 102

College Study Skills

Course to develop skills in note-taking, test taking, outlining, effective textbook reading and time management. Mandatory CR/NC.

| | 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 | Ed 103 | Individual Writing Skills Individualized course in writing academic prose, e.g., essays, term papers, research papers. May include grammar, punctuation, spelling, vocabulary, syntax, paragraph and essay structure. Mandatory CR/NC. Special Topics 1-5 credits 1-5 credits |
|---|--|------------------|--|
| | Teaching subject or supporting area15 credits Sophomore year Art 370, Music 114 | Ed 292 Ed 293 | Special Topics 1-5 credits Special Topics 1-5 credits |
| | Biology 205; Mathematics 200 10 credits Education 322 5 credits Philosophy core options 10 credits Theology core options 10 credits | 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) |
| 1 | Junior year Education 324 and 32510 credits | | |
| | Education 330, 336, 340 15 credits Education 438 and 425 6 credits PE 352 and 410 6 credits Teaching subjects 13 credits | Ed 324 | 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. Prere- |
| | Senior year Student teaching12 credits | | quisite: Ed 322; corequisite: Ed 325. (fall, winter) |
| | Education 424, 426, 427 | Ed 325 | Psychology of Learning 5 credits Study of learning in classroom; theories of learning; organization and retention of knowledge; evaluation of mental processes; factors in the economy of learn- ing. Includes field experience. Prerequisite: Ed 322; corequisite: Ed 324. (fall, winter) |
| | Special Non-Degree Programs | E4 000 | |
| | 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.) | 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. (fall) |
| | a) Elementary teaching provisional certification, b) Secondary teaching provisional certification, c) Montessori teaching certification. | 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. (fall) |
| | 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. | Ed 330 | General Methods, Media and Materials 5 credits Application of principles of learning and development to preparing, organizing and presenting learning units. Field experience. Prerequisites: Ed 324, 325; corequisites: Ed 340 and 336 or 337. (winter, spring) |
| | b) Provisional principal's credential. | | |
| | c) Standard principal's credential.d) School counselor's certification.See Graduate Bulletin for further details. | Ed 335 | Early Childhood — Kindergarten 3 credits Principles, organization and methods of teaching. (summer) |
| | Education Courses | Ed 336 | Fundamentals of Reading Instruction — Elementary 5 credits |
| | Ed 101 Developmental Reading Individualized course in college reading. Topics include: reading textbooks effectively, taking lecture notes, taking tests, analytic reading skills, speed reading, vocabulary and spelling improvement. May be taken as complete unit, or in parts. Mandatory | | Nature of the reading process, sequence of skills K-6, recommended practices, materials, methods of diagnosis and evaluation. Includes field experience. Prerequisites: Ed 322, 325; corequisite: Ed 330. (fall, winter, spring) |
| | CR/NC. | Ed 337 | Fundamentals of Reading Instruction — Secondary 5 credits |

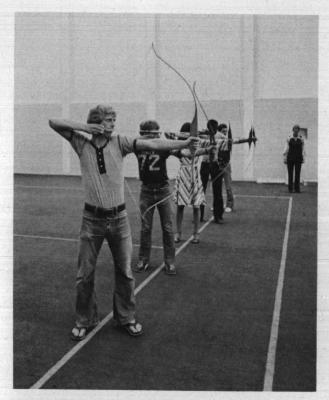
Secondary

Development of reading and study skills; reading in content areas; diagnosis and evaluation, special reading programs. Includes field experience. Prere-

quisite: Ed 325; corequisite: Ed 330. (winter, spring)

5 credits

| 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 Selection and interpretation of kindergarten-primary grade literature. For Kindergarten-primary grade literature for Kindergarten-primary grade literature for Kindergarten, primary and interpretation of kindergarten, primary grade literature for Kindergarten, primary and interpretation of kindergarten, primary grade titerature for Children Ed 374 Literature for Early Childhood 3 credits Survey of the present field of literature for early childhood and primary education. (summer) Ed 375 Literature for Later Childhood 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 439 Special Topics 1-5 credits Ed 391 Special Topics 1-5 credits Ed 392 Special Topics 1-5 credits Ed 393 Special Topics 1-5 credits Methods & Materials Development of language arts. Suparyised teaching within fount of unumber are operations leading to abstration of learning disabilities. Ed 437 Comparative and Observa Study of Early Education Current trends of Open Clac (syring) Ed 438 Laboratory Experience—E Mandatory CR/NC. (fall, wither) Ed 439 Special Topics 1-5 credits Methods of teaching in specific subje | |
|--|---|
| Study of number systems including basic operations and properties of numbers; principles of teaching these concepts K-6; includes field experience. Prerequisite: Mt 200. (winter, spring) 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 iterature for preschool, kindergarten, primary and intermediate grades. (winter) Ed 374 Literature for Children 5 credits Survey of the present field of literature for early childhood and primary education. (summer) Ed 375 Literature for Early Childhood 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 Children in grades 4-8. Ed 379 Special Topics 1-5 credits Survey of literature for children in grades 4-8. Ed 391 Special Topics 1-5 credits Special Topics 1-5 credits Special Topics 1-5 credits Methods of teaching in specific subject areas and levels of the elementary School Methods (summer) 3 credits Methods of teaching in specific subject areas and levels of the elementary School. Required concurrently with student teaching. Prerequisite: Ed 330. (fall, winter, spring) Ed 429 Psychology of the Exceptional Child 3 credits Study of the aypical 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. | |
| and properties of numbers; principles of teaching these concepts K-6; includes field experience. Prerequisite: Mt 200. (winter, spring) 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 iterature. For Kindergarten-primary grade iterature. For Kindergarten-primary grade iterature for children 5 credits Selection, introduction and student use of literature for preschool, kindergarten, primary and intermediate grades. (winter) Ed 373 Literature for Early Childhood 3 credits Survey of the present field of literature for early childhood and primary education. (summer) Ed 376 Literature for Early Childhood 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 | 3 credits |
| these concepts K-6; includes field experience. Prerequisite: Mt 200. (winter, spring) 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 Iterature. For Kindergarten-primary grade Iterature. For Kindergarten-primary grade Iterature for children Selection, introduction and student use of literature for preschool, kindergarten, primary and intermediate grades. (winter) Ed 375 Literature for Carly Childhood 3 credits Survey of the present field of literature for early childhood and primary education. (summer) Ed 376 Literature for Youth 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 392 Special Topics 1-5 credits Ed 393 Special Topics 1-5 credits Ed 393 Special Topics 1-5 credits Ed 393 Special Topics 1-5 credits Hondos of teaching in specific subject acreas and levels of the elementary school Subjects 5 credits Hondos of teaching in specific subject acreas and levels of the elementary school subjects 5 credits Hondos Hondos Survey of literature for children in grades 4-8. Ed 420 Teaching Elementary School Subjects 5 credits Hondos Ho | 무슨 마음이 가는 사람들은 아니는 아니는 아니는 아니는 아니는 아니는 아니는 것이 없다면 하는데 하는데 없다면 |
| Ed 342 Pacific Science Center Internship 3 credits Laboratory experience working with a teaching team in mathematics or science, grades 2-8. Prere- quisites: Ed 343 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 literature for Children Selection, introduction and student use of literature for preschool, kindergarten, primary and in- termediate grades. (winter) Ed 375 Literature for Early Childhood Survey of the present field of literature for early childhood and primary education. (summer) Ed 376 Literature for Youth 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 Survey of literature for children in grades 4-8. Ed 391 Special Topics Special Topics 1-5 credits Methods of teaching in specific subject areas and levels of the elementary School Methods (summer) Ed 420 Teaching Elementary School Methods (summer) Ed 421 Introduction to Learning Disabilities Ed 422 Psychology of the Exceptional Child Study of the atypical child who deviates from the normal to well above or below the average; tests for evaluation; consideration of remedial techniques. Perequisite: Ed 322 or permission of instructor. Ed 425 Special Education—Introduction to | ation of diagnosis, curriculum |
| 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 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 Vouth Survey of literature for 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 Survey of literature for children in grades 4-8. Ed 392 Special Topics 1-5 credits Special Topics 1- | |
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| 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. Ed 426 Special Education—Introduction to | that student in social studies, |
| 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. Ed 426 Special Education—Introduction to | |
| normal to well above or below the average; tests for evaluation; consideration of remedial techniques. Prerequisite: Ed 322 or permission of instructor. Ed 426 Special Education—Introduction to Student reaching — Section — One quarter of full-day perience on the second quisite: Ed 330 and permitted winter, spring) | |
| evaluation; consideration of remedial techniques. Prerequisite: Ed 322 or permission of instructor. Ed 426 Special Education—Introduction to | |
| Prerequisite: Ed 322 or permission of instructor. Ed 426 Special Education—Introduction to | II-day supervised teaching ex- |
| Ed 426 Special Education—Introduction to winter, spring) | |
| Ed 426 Special Education—introduction to | permission of the beam (lan, |
| MEHIAI DEMINAHUH A CIMPITA | |
| | - Supplementary 5-15 credits |
| tics of the mentally retarded and survey of the cur- | |
| rent trends in the field. Ed 491 Special Topics | 1-5 credits |
| Ed 492 Special Topics | 1-5 credits |
| Ed 427 Special Education—Methods in Ed 493 Special Topics Mental Retardation 3 credits | 1-5 credits |
| Application of principles of learning and develop- Ed 497 Independent Study | 1-5 credits |
| ment in designing instructional programs for the Ed 498 Independent Study | |
| mentally retarded. Prerequisite: Ed 426. Ed 499 Independent Study | |



Health and Physical Education

Joseph T. Page, Ph.D., Chairman

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 — See Graduate Bulletin Master of Arts in Education — See Graduate Bulletin

General Degree Requirements

Students in the fields of health and physical education must satisfy University core curriculum requirements as given on page 18 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 ac-

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 — See Graduate

Bulletin.

Bachelor of Arts in Education

| Freshman year | |
|---------------------------------|---------|
| English 100 and core option10 | credits |
| History core option | credits |
| Major, minor or electives 21 | credite |
| Mathematics/Science core option | credits |
| Social Science core option 5 | credits |
| | |

| Sophomore year | |
|--|----------|
| Education 10 Major, minor or electives 20 Mathematics/Science core option 5 Philosophy 110, 220 10 | credits |
| Junior year | Or Carto |

| Education | 15 | credits |
|---------------------------|----|---------|
| Major, minor or electives | DC | cradite |
| Philosophy core option | 5 | credits |

| Sellioi year | |
|---------------------------|---------|
| Education 44515 | credits |
| Major, minor or electives | credite |
| Theology core options10 | credits |
| | |

Total . . . 190 credits

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 120-154 all CR/NC.

| PE 120 | Badminton | 1 credit |
|--------|---|------------|
| PE 121 | Bowling | 1 credit |
| PE 123 | Gymnastics | 1 credit |
| PE 124 | Swimming | 1 credit |
| PE 125 | Tennis | 1 credit |
| PE 126 | Volleyball | 1 credit |
| PE 127 | Racquet Ball | 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 142 | Developmental Physical Education— Men | 1 credit |
| PE 143 | Modern Dance | 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 200 | Personal and Community Health Comprehensive course covering all basic a health education; personal health problem health programs; community health agei problems. (spring) | ns; school |
| PE 210 | Anatomy and Kinesiology Foundation science course combining stru function. Emphasis on muscular, circula cardio-respiratory bodily systems. (spring | atory and |
| PE 220 | Physiology of Exercise Study of physical changes as the result of activity; the muscular, circulatory and respiratory systems. Prerequisite: Bl 200. | d cardio- |
| PE 230 | Instructor-Standard First Aid and | O sundit- |

Major Activities: Concentrated study of skills, techniques, and teaching methodologies pertinent to elementary and secondary physical education activities.

Skills, knowledge, teaching methods. American Red Cross standards and certification. (winter)

Personal Safety

| PE 250 | Major Activities I Badminton, Volleyball, Golf and Tennis | 5 credits |
|--------|--|-----------|
| PE 251 | Major Activities II Movement Exploration, Gymnastics | 5 credits |
| PE 252 | Major Activities III Track, Soccer, Football and Speedball | 5 credits |



| PE 253 | Major Activities IV Wrestling and Weight Training, Baseball, Basketball | 5 credits |
|--------|---|-------------|
| PE 254 | Major Activities V Folk-Square Dancing, Bowling and Arche | 5 credits |
| PE 255 | Major Activities VI Swimming, Life Saving, WSI | 5 credits |
| PE 256 | Major Activities VII Basketball - Women, Track and Field | 5 credits |
| PE 257 | Major Activities VIII Recreational Games | 5 credits |
| PE 258 | Major Activities IX Field Sports - Women | 5 credits |
| PE 291 | Special Topics | -5 credits |
| PE 292 | Special Topics | -5 credits |
| PE 293 | Special Topics | 1-5 credits |
| PE 320 | Care and Prevention of Athletic | |

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

Injuries

3 credits

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)

4 credits

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

Objectives, content services and relationship to the total school program. Required of secondary education majors. (fall, winter, spring)

PE 380 Camp Counseling and Administration 5 credits

The educational significance and social impact of
camping, organization and practical application of
activities, and problems of administration and
leadership.

PE 385 Philosophy of Recreation 5 credits

Social impact of recreation: city-county, institution, industry, agency; special groups—handicapped, geriatrics; issues.

PE 398 Modern Dance 2 credits
An activity course open to all students. (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)

PÉ 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)

PE 465 Organization and Administration of Recreation Programs

Organization and administration of recreation programs to include the practical aspects of: staffing, budgeting, funding, activities and public relations.

5 credits

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

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.

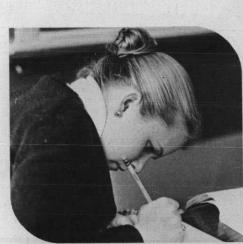
PE 486 Women in Sport 3 credits

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 (fall, winter, spring, summer)

PE 498 Independent Study 1-5 credits

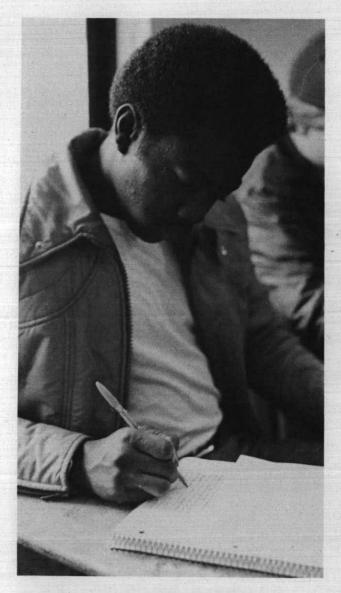








MATTEO RICCI COLLEGE-II



Matteo Ricci College—II Edwin H. Weihe, Ph.D., Director

Matteo Ricci College is a coordinated and integrated six year program which begins with the traditional freshman year of secondary school and concludes with the granting of a baccalaureate degree by Seattle University. Form One, the first three years of the program, operates out of the Interlaken Campus of Seattle Preparatory School. Form Two, the subsequent three years, is an academic division of Seattle University on the Seattle University campus.

Objectives

Matteo Ricci College seeks to develop students who shape their personal and social futures through responsible choices. The objectives of the Form II program are to continue the harmonious development of

the student's cognitive, affective, and valuative potential; bring the student to a reflective consciousness of "how" he or she learns; and foster an inquiring, caring community of learners and teachers. Focusing on the student's intellectual, aesthetic, emotional, ethical, and religious life, the curriculum is designed to sharpen and test generalizable learning skills; exercise and develop verbal and non-verbal communication skills; develop specific skills, both in a broad range of traditional disciplines and in an area of specialization; expose a variety of values clarifying themes and problems for interdisciplinary investigation; and encourage prescriptive self-assessment.

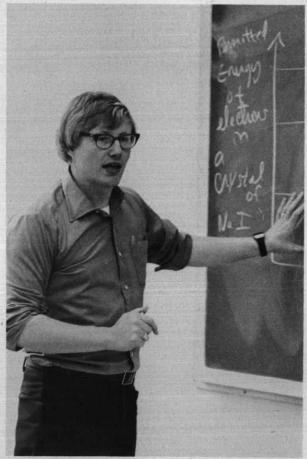
While the Matteo Ricci College program does not attempt to advance the student in only six years to the level of vocation-oriented specialization sometimes acquired in eight, it does provide a foundation for, and initiation into, professional training, effectively preparing the student to pursue either a second baccalaureate or graduate degree.

Admission Requirements

Only students who have successfully completed the academic program of Matteo Ricci College-I will be admitted to the academic program of Matteo Ricci College-II at Seattle University.

Degree Offered

Bachelor of Arts in Humanities



General Program Requirements

The MRC-II Advisory Panel members serve as the principal advisers to all MRC-II students on academic and academically-related matters. Consequently, an MRC-II student may not register for any Seattle University course, either in the summer session or during the regular academic year, without first consulting and receiving the written permission of an Advisory Panel member.

Degree Requirements

135 credits which must include: 60 credits in MRC/HUManities courses; a maximum of 45 credits in either a General Studies/Humanities area or a single discipline focused in the College of Arts and Sciences, or a maximum of 55 credits in a General Studies/Science area, in Pre-Professional Studies, or in a single discipline focused in one of the University's professional schools; and the remaining credits in courses approved by the student's MRC-II adviser.

MRC-II students who have successfully completed a Pre-Professional course of study may apply these 55 credits toward a second baccalaureate degree, subject to the approval of the appropriate professional school, and the University regulation of 45 minimum additional credits for a second baccalaureate degree.





Typical Schedule

| Year/4 | |
|-------------------------------|---------|
| HUM 100, 200 series courses30 | credits |
| Major and Approved Courses15 | credits |
| Year/5 | |
| HUM 300 series15 | credits |
| Major and Approved Courses30 | credits |
| Year/6 | |
| HUM 400 series15 | credits |
| Major and Approved Courses30 | credits |
| Total 135 | credits |
| | |

Matteo Ricci College/HUM Courses

HUM 150 Composition: Language I 2 credits

Study and practice in forming one's meaning into words and converting words composed by others into meaning for one's self, with emphasis upon clear, logical, and persuasive writing.

HUM 151 Composition: Language and the Arts
Interdisciplinary study and practice in artistic composition and communication; emphasis upon literature, music, and the visual arts.



HUM 160 Modes of Inquiry: Scientific

3 credits

Investigation of scientific method, emphasizing the creative and critical phases of human knowing in the natural sciences; practical training in informal logic, clear thinking, and communication.

HUM 180 Western Cultural Traditions I 5 credits
HUM 181 Western Cultural Traditions II 5 credits

A two-quarter, interdisciplinary study of the evolution of major systems of meaning and value in Western Civilization; emphasis on understanding and evaluating criteria for judging claims to truth and morality as basis for action.

HUM 250 Composition: Language II 2 credits

Application of the skills of logical, persuasive, and artistic composition and analysis to the student's communication of his/her immediate experiences and their interpretation.

HUM 260 Modes of Inquiry: Humanistic 3 credits

Study and practice in the data gathering and interpretive methods in the social sciences; comparison of these methods with those in the natural sciences and the arts.

HUM 280 Cultural Interface 5 credits

Interdisciplinary study of the elements of human behavior which define culture, and the processes of interaction between European culture and cultures of Asia and Africa.

HUM 300 Contemporary Social Structures in the United States

United States

Study of social structures in the United States through selections drawn from the social science disciplines; emphasis upon the relationships among, and human impact of, existing social structures.

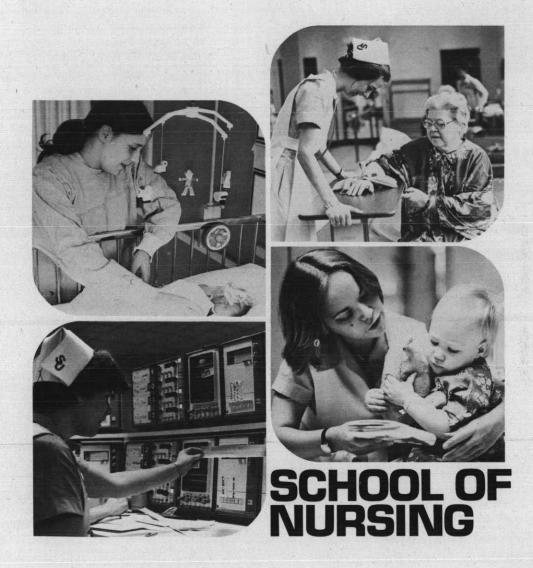
HUM 301 Perspectives on the Human Person I 5 credits
HUM 302 Perspectives on the Human Person II 5 credits

Study of the relationships between individuals, and between individuals, society, the world, and God through the history of philosophical and theological questions and their answers from Plato to the present day.

HUM 400 MRC Seminar HUM 401 MRC Seminar HUM 402 MRC Seminar 5 credits 5 credits 5 credits

Required seminars, which include a research and writing project; focus on the development of grounds for a human ethic, interdisciplinary problems and transdisciplinary modes of thinking, on "valuing," and on integrating the academic and the "real world."







School of Nursing Patricia A. Ferris, Ph.D., Dean

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 its role in the community; is able to apply to patient care the basic concepts and principles from the humanities, the natural and social sciences within the framework of the University philosophy and principles, 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 organized within the University structure under the direction of a dean, 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 to provide 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 Hospital and Clinics, 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, Summit Inn, Swedish Hospital Medical Center, 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 18 of this bulletin. For additional required sequences see the program of study which follows.

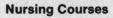
A cumulative academic grade point average of 2.50 or above from high school or another college or university is required for admission into the School of Nursing.

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 a 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 recommended for clinical nursing courses. It is strongly recommended that students have adequate health insurance coverage.

Bachelor of Science in Nursing

| Freshman year | |
|---------------------------------------|---------|
| Chemistry 101, 10210 | credits |
| English 100 and core option10 | credits |
| History core option10 | |
| Philosophy 110 5 | credits |
| Social Science core options10 | credits |
| Sophomore year | |
| Biology 200, 210, 22015 | credits |
| Nursing 205, 206, 30015 | credits |
| Philosophy 220 5 | credits |
| Psychology or Education 322 5 | credits |
| | credits |
| Junior year | |
| Nursing 312, 314, 316, 330, 332, 335, | |
| 337, 340, 34145 | credits |
| Senior year | |
| Nursing 408, 409, 432, 43325 | credits |
| Philosophy core option 5 | credits |
| | credite |



N 205 Basic Nursing I 5 credits
Introduction to scope of practice and nursing roles;
focus on nursing process, people's needs as consumer of health services, concepts and skills related to comfort and safety; simulated laboratory practice.

Total . . . 180 credits

N 206 Basic Nursing II 5 credits

Theory and practice focused on concepts of anxiety, communications, immobility and nutrition, principles and skills related to pre- and post-operative care and oxygenation. Supervised practice in direct patient care.

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

Demonstration and practice in basic skills to assess and describe state of health; growth and development framework used to understand physiological and behavioral assessment.

N 314 Mental Health Concepts 5 credits

Behavioral science principles basic to assisting self and others to cope with the stresses of illness; promotes development of inherent capabilities of student and patient.

N 316 Contemporary Nursing Issues 5 credits
Major legal, ethical and professional issues are
studied in relation to concepts of power, authority,
responsibility in present and emerging health care
patterns. The nurse's role as a client advocate is ex-

N 330 Medical-Surgical Nursing I 4 credits
Problems in various phases of illness; nursing process in assisting individuals to maintain-regain health or adapt to chronic illness; nursing care related to pulmonary, renal and gastro-intestinal problems.

N 332 Medical-Surgical Nursing II 4 credits
Further development of the nursing process; nursing care needs related to neuro-sensory, endocrine,
musculo-skeletal and cardiovascular problems.

- N 335 Nursing Care of Children 6 credits
 Experiences are aranged in a variety of settings, selected to provide opportunities to apply concepts and principles from theory courses.
- N 337 Nursing Care of Adults 6 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:

 Family and Community 4 credits

 Assessment of family dynamics and parental roles;
 family system and its use of community resources;
 current concepts in women's health care.
- N 341 Maternal-Child Nursing Practice:
 Family and Community 6 credits
 Clinical practice to promote application of concepts
 from N 340; supervised experience with childbearing families in a range of community settings.
- Psychiatric Nursing
 Psychodynamics, psychopathology and group interaction in psychiatric nursing care; use of behavioral science principles to promote mental health and provide care for individuals with emotional problems.





- N 409 Psychiatric Nursing Practice 6 credits
 Clinical practice to promote application of concepts
 from N 408 in a manner that facilitates growth and
 constructive problem solving in client, family and
 student.
- N 432 Community/Advanced Nursing 5 credits
 Interrelated health-illness problems examined in a
 framework of the decision making process; concepts of family and family systems are studied.
- N 433 Community/Advanced

 Nursing Practice 10 credits

 Clinical practice to promote application of concepts,
 principles and processes from N 432; experiences in
 hospitals, clinics and other community agencies with
 individual clients, groups of clients/patients and
 families.
- 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

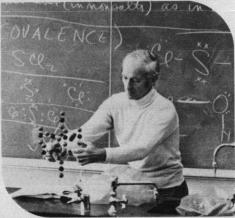
2-5 credits

Independent Study

N 499







SCHOOL OF SCIENCE & ENGINEERING



School of Science and Engineering Gary A. Zimmerman, Ph.D., Dean

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

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 Allied Health Technology, Biology, Chemistry, Clinical Chemistry, General Science, Health Information, Mathematics, 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, Cytotechnology, Diagnostic Ultrasound Technology, Mathematics, Medical Technology, Nuclear Medical Technology or Physics.

Bachelor of Science in Biology, Chemistry, Clinical Chemistry, General Science, Health Information, Mathematics, or Physics.

Bachelor of Engineering

Bachelor of Civil Engineering

Bachelor of Electrical Engineering

Bachelor of Mechanical Engineering

Master of Transportation Engineering — See Graduate Bulletin

Co-Operative Work Study Program

Students in good standing may elect to enter the cooperative 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 the equivalent of 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 18 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.



Allied Health Technology Joan P. Baker, RDMS, MSR, Program Director

Objectives

The Allied Health Technology program is designed to prepare students for professional careers as technologists in several medical laboratory disciplines or as laboratory assistants in biological research laboratories. Founded on a concentration in basic sciences, the program affords simultaneous opportunities for receiving a liberal arts education and a practical exposure to the medical laboratory environment. The Bachelor of Science degree is awarded, with a major in a specific allied health field. The student may concentrate studies in cytotechnology, medical technology, nuclear medicine technology, or diagnostic ultrasound technology.

Degree Offered

Bachelor of Science

General Program Requirements

Students in allied health technology must satisfy the core curriculum requirements of the University as given on page 18 of this bulletin for English, philosophy and theology and religious studies. Fifteen credits of history or social science are required.

Departmental Requirements

Bachelor of Science — Cytotechnology major — 45 credits of biology including 10 credits for BI 165, 166, 167; 30 credits of chemistry, including Ch 114, 115, 116; Mt 134; and 45 credits of AH 310, 311, and 312. The cytotechnology internship may be taken after the sophomore year; registration as a cytotechnologist by the American Society for Clinical Pathology is possible upon completion of the internship and prior to completion of the degree.

Bachelor of Science — Medical Technology major—57 credits of biology including 10 credits from BI 165, 166, 167, BI 270, 271, 275, 280, 300 and 350; 30 credits in chemistry, including Ch 114, 115, 219, 470, 471, and 472; Mt 134, 15 credits in physics; and AH 410, 415. Professional certification requires one year of internship in an approved laboratory training program after completion of this degree. Certification of this type is required by most employers of medical technologists.

Bachelor of Science - Nuclear Medicine Technology major — 45 credits of AH 440, 441, 442, 447, 448, 449, 450, 451, 452, 453, 456, 457, 458, 459; 35 credits in physics and mathematics, including either Ph 107 or 202, Ph 375 or Ch 461, and Mt 135; and 25 credits each in biology and chemistry.

Bachelor of Science - Diagnostic Ultrasound Technology major — 40 credits in physics and mathematics, including either Ph 107 or 202, Mt 134, Mt 213 or 214, Ph 290, and Ph 350. 40 credits in biology, including 10 credits from Bl 165, 166, 167; Bl 190, and 445, and 10 credits in ultrasound technology, AH 470 and 471, are required. A one-year internship will be necessary for entry into professional employment as an ultrasound technologist. This is available as a postbaccalaureate curriculum of AH 475, 476, 477, 478, 480, 481, 482, 486, 487, and 488 for 46 credits.

Bachelor of Science in Allied Health Technology Cytotechnology Major

Freshman year

| Biology 160 series, Biology Elective 15 | credits |
|---|---------|
| English 100 and core option10 | credits |
| History/Social Science core options10 | credits |
| Mathematics 112, 13410 | credits |

Sophomore year

| Biology 275, 280, 330 (or 270, 271, elective) 15 | credits |
|--|---------|
| Chemistry 114, 115, 11615 | credits |
| Philosophy 110, 22010 | credits |
| Theology core option | credits |

Junior year

| oumor year | |
|-----------------------------|------------|
| Allied Health 310, 311, 312 | 45 credits |

Senior year

| Biology 300 and electives | . 15 | credits |
|------------------------------------|------|---------|
| Chemistry 219, 235, 236 | .15 | credits |
| History/Social Science core option | . 5 | credits |
| Philosophy core option | . 5 | credits |
| Theology core option | . 5 | credits |
| Total | | |

| Bachelor of Science in Allied Health Technology Diagnostic Ultrasound Technology Major | Bachelor of Science in Allied Health Technology Nuclear Medical Technology Major |
|---|--|
| Freshman year | |
| Biology 160 series, 190 | Freshman year |
| English 100 and core option 10 credits | Biology 160 series, Biology elective |
| History/Social Science core option 5 credits | Mathematics 112, 134, 135 |
| Mathematics 112, 134, 213 or 214 15 credits | Physics 105, 106, 107 |
| Sophomore year | Sophomore year |
| Chemistry 101, 102 10 credits | Biology electives 10 credits |
| Philosophy 110, 220, elective15 credits | Chemistry 114, 115, 11615 credits |
| Physics 105, 106, 10715 credits | Philosophy 110, 220 and elective15 credits |
| Theology core option | Theology core option |
| Junior year | Junior year Biology elective |
| Biology 200, 210, or 270, 271, 274, 300 20 credits | Chemistry 235, 236 |
| Chemistry 455 5 credits | English core option 5 credits |
| Health Information 425, 426 6 credits | History/Social Science core options15 credits |
| Psychology 100 | Physics 375 (or Ch 461 elective) 5 credits |
| Electives 9 credits | Theology core option 5 credits |
| | Senior year |
| Senior year | Allied Health 440, 441, 442 9 credits |
| Allied Health 470, 471 10 credits | Allied Health 447, 448, 449 3 credits |
| Biology 445 | Allied Health 450, 451, 452, 453 |
| Physics 290, 350 8 credits | Allied Health 456, 457, 458, 459 7 credits |
| Theology core option 5 credits | Total 180 credits |
| Electives12 credits | |
| Total 180 credits | |
| Post Baccalaureate Internship in | |
| Diagnostic Ultrasound | Allied Health Courses |
| | |
| Allied Health 475, 476, 477, 478, 480, 481, 482, 486, | |
| 487, 488 46 credits | AH 310 Cytotechnology Internship I 5 credits |
| Bachelor of Science in Allied Health Technology | AH 311 Cytotechnology Internship II 5 credits AH 312 Cytotechnology Internship III 5 credits |
| Medical Technology Major | |
| Freshman year | AH 410 Clinical Hematology 5 credits |
| Biology 160 series, Biology elective 15 credits | Automated and manual cell counting; cellular |
| Chemistry 114, 115 10 credits | morphology; testing procedures related to red and |
| English 100 5 credits | white cell disorders. Prerequisite: permission. |
| Mathematics 112, 134 10 credits | |
| History/Social Science core option 5 credits | |
| Sophomore year | AH 415 Fundamentals of Immunology 5 credits |
| Biology 200, 210 or 270, 271 10 credits | Properties and occurrence of antigens and haptens; |
| Chemistry 116 5 credits | nature of antibodies, blood groups, and autoimmune |
| Philosophy 110, 220 10 credits | response; transfusions; tumor specialties. |
| Physics 105, 106, 107 | |
| | AU 440 Barla Calanar d Nasta Madiata I |
| Junior year | AH 440 Basic Science of Nuclear Medicine I 5 credits AH 441 Basic Science of Nuclear Medicine II 2 credits |
| Allied Health 410, 415 10 credits | AH 442 Basic Science of Nuclear Medicine III 2 credits |
| Biology 275, 300 | I. Review of basic principles of radioactive decay, |
| Chemistry 219, 235, 236, 455 | interaction of radiation with matter, radiation detec- |
| English core option 5 credits | tion. Rectilinear and Anger-type imaging devices; collimaters, resolution, sensitivity, contrast and |
| Senior year | modulation transfer function. II. Radiopharma- |
| Biology 274, 280, 330 15 credits | ceuticals and radiopharmacy: drugs, drug distribu- |
| Chemistry 470, 471, 472, 475 | tion, radionuclide production, radiopharmaceutical |
| History/Social Science core option 10 credits | dosimetry. Radiation biology. III. Tracer method- |
| Philosophy elective 5 credits | ology and non-imaging uses of radionuclides: in- vivo function studies, in-vitro tests. Prerequisites for |
| Theology core option 5 credits | I, II, III: permission. (Offered in sequence: I-fall; II- |
| Total 180 credits | winter; Ill-spring.) |
| | |

| AH 447 | Clinical Nuclear Medicine I | 1 credit |
|--------|--|------------------------------------|
| AH 448 | Clinical Nuclear Medicine II | 1 credit |
| AH 449 | Clinical Nuclear Medicine III | 1 credit |
| | Applications of nuclear medicine medical diagnosis. Relative role of vitro radionuclide studies in diag Prerequisite: permission. (I-fall; II-wi | in-vivo and in- nostic process. |
| | | |

AH 450
Applied Nuclear Medicine Technology I 5 credits
AH 451
APPlied Nuclear Medicine Technology II 7 credits
APPlied Nuclear Medicine Technology III 7 credits
APPlied Nuclear Medicine Technology III 7 credits
APPlied Nuclear Medicine Technology IV 7 credits
Practical experience in static organ imaging,
dynamic radionuclide studies, in-vivo and in-vitro
testing, hematologic studies, gastro-intestinal absorption, and radioassay procedures. Prerequisite:
permission. (Offered in sequence: fall, winter, spring, summer.)

| AH 456 | Nuclear Medicine Seminar I | 1 credit |
|--------|--|----------------------|
| AH 457 | Nuclear Medicine Seminar II | 2 credits |
| AH 458 | Nuclear Medicine Seminar III | 2 credits |
| AH 459 | Nuclear Medicine Seminar IV | 2 credits |
| | Student and faculty discussions o sional interest; critical examination ture. Prerequisite: permission. (Off | n of current litera- |
| | fall, winter, spring, summer.) | |

| AH 470 | Diagnostic Ultrasound I 5 credits |
|--------|---|
| AH 471 | Diagnostic Ultrasound II 5 credits |
| | I. Review of acoustical physics; propagation o |
| | sound in human tissue; transducers; sound beams |
| | modes of display. II. Basic echo systems; signa |
| | processing; applications to medical ultrasound |
| | recording techniques; equipment, calibration |
| | Doppler systems. Prerequisites: I, Ph 350, permis |
| | sion; I for II. (I-winter, II-spring.) |
| 4 | |

| AH 476 | Basic Science of Ultrasound II 2 cred | its |
|--------|--|-----------------|
| AH 477 | Basic Science of Ultrasound III 2 cred | its |
| | Techniques of scanning; detailed cross section anatomy of heart, abdomen, brain, pregnant uters male and female pelvis; pathological distortions anatomy; ultrasound in patient management; a medical-ethics in ultrasound. Prerequisites: Bi 44 Ph 350, AH 481 and permission. (I-fall; II-winter; spring.) | of nd 45, |

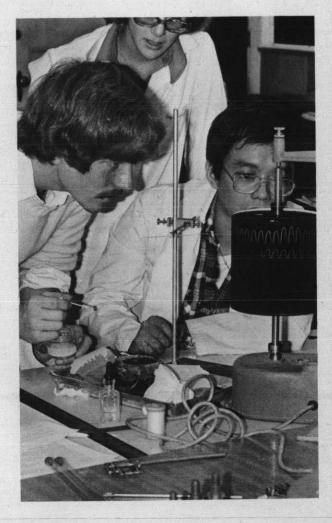
AH 475 Basic Science of Ultrasound I

AH 478 Clinical Orientation to Ultrasound 2 credits
One day per week spent in hospital environment,
learning patient care, practical medical ethics, observing ultrasound techniques and other diagnostic modalities. Prerequisite: permission.

| AH 480 | Clinical Experience in Ultrasound I | 8 credits |
|--------|---|-----------|
| AH 481 | Clinical Experience in Ultrasound II | 8 credits |
| AH 482 | Clinical Experience in Ultrasound III | 8 credits |
| | Five 8-hour days per week in approved department of hospital. Prerequisite: per winter; II-spring; III-summer.) | |

| AH 486 | Ultrasound Seminar I | 2 credits |
|--------|------------------------|-----------|
| AH 487 | Ultrasound Seminar II | 2 credits |
| AH 488 | Ultrasound Seminar III | 2 credits |

Seminars to review cases performed by students. Seattle based students will meet one day per week. Students based outside of Seattle will return to campus for two days per month for seminars and review of work as evaluated by clinical instructor. Prerequisite: permission. (I-winter; II-spring; III-summer,)



Biology Lewis E. Aldrich, Jr., Ph.D., Chairman

Objectives

10 credits

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 18 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, 15 credits in history or social science, including Psychology 100.

Departmental Requirements

Bachelor of Arts — 50 credits of biology which must include BI 165, 166 and 167 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 165, 166 and 167 and at least one seminar credit (three credits is the maximum that can be applied toward the degree); 30 credits of mathematics or science electives.

Bachelor of Science in Biology — 60 credits of biology which must include BI 165, 166, and 167; 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 165, 166 and 167 and 30 credits of approved electives. Elementary: 25 credits in biology which must include BI 165, 166, 167, 275 and 370.

Undergraduate Minor — 30 credits of biology selected at direction of a biology adviser.

Bachelor of Arts

| Freshman year | |
|---------------------------------------|---------------|
| Biology 165, 166, 167 | 15 credits |
| English 100 and core option | 10 credits |
| Mathematics 112 | 5 credits |
| Philosophy 110, 220 | 10 credits |
| Psychology 100 | 5 credits |
| Electives | 5 credits |
| Sophomore year | |
| Biology electives | |
| Chemistry 114, 115, 116 | 15 credits |
| History or Social Science core option | ns 10 credits |
| Philosophy core option | E dia- |

| Biology electives | 0 credite |
|---------------------------------------|-----------|
| Chemistry 235, 236 | 0 credits |
| Social Science or History core option | 5 credits |
| Theology core options | 0 credits |
| Electives | 0 credits |

| Senior year | | |
|-------------------|----|---------|
| Biology electives | 10 | credits |
| Electives | 35 | credits |

Total . . . 180 credits



Bachelor of Science

Freshman vear

Electives .

Senior year

| | Biology 165, 166, 167 | credits |
|---|----------------------------------|---------|
| 1 | Sophomore year Biology electives | credits |
| | Junior year Biology electives | credits |

......10 credits

Bachelor of Science in Biology

| Freshman year 15 Biology 165, 166, 167 15 English 100 and core option 10 Mathematics 112 5 Modern Language 105, 106 10 Electives 5 | credits credits |
|--|--------------------|
| Sophomore year Biology electives | 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 | credite |

History or Social Science core options 10 credits

| | China China China China China |
|------------------------|-------------------------------|
| Senior year | |
| Biology electives15 | credits |
| Physics 105, 106, 107 | credits |
| Theology core option 5 | credits |
| Electives10 | 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 165
 General Biology I
 5 credits

 BI 166
 General Biology II
 5 credits

 BI 167
 General Biology III
 5 credits

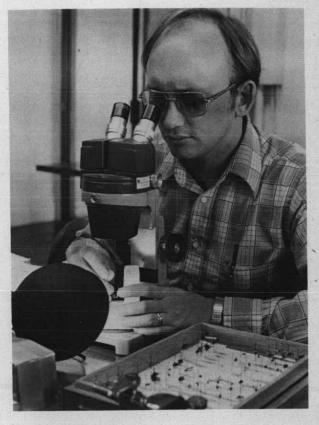
Survey of the biological world, concepts and principles, diversity, unity and continuity of life, integration of life processes, biological behavior, population and community, human biology. Eight hours of lectures, demonstrations, laboratories, and individual projects per week. (I-fall, II-winter, III-spring)

BI 190 Principles of Physical Anthropology 5 credits
Evidence for primate evolution from the fossil record and from the morphological, physiological,
genetic and behavioral variability of living primates.
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
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 165, 166; 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 165, 166,
167. (fall, 1979)

Bi 251 Plant Morphology 5 credits
Study of plant form, structure and development.
Three lecture and four laboratory hours per week.
Prerequisite: Bi 165, 166. (spring, 1980)

Pl 252 Taxonomy of Flowering Plants 5 credits

Native flora as an introduction to taxonomy, involving the principal orders and families of flowerplants. Three lecture and four laboratory hours per
week. Prerequisite: Bl 165, 166. (spring, 1979)

BI 270
BI 271
Human Structure and Function I
I. Integrated study of microscopic and gross structure and 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 165, 166, 167, Ch 101, 102 for 270; 270 for

271. (I-fall, II-winter)

BI 274 Growth and Development 5 credits
Physical and biological development of the whole
individual from birth through old age, including
neonatal adaptation, nutrition, development milestones in childhood, and the problem of senescence.
(spring)

BI 275 General Physiology 5 credits
Chemical and physical processes inherent in living
organisms. Three lecture and four laboratory hours
per week. Prerequisite: BI 165, 166, 167, 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 microorganisms. Three lecture and four laboratory hours
per week. Prerequisite: Permission of instructor.
(winter)

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.
Prerequisite: BI 165, 166, 167. (fall)

BI 315 Bioethics 5 credits
Indepth 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 165, 166, 167. (spring)

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 Comp

I. Comparative study of the skin, skeletal system and muscular systems of selected vertebrates. II. Comparative study of the digestive, respiratory, excretory and reproductive systems, circulatory and nervous systems and sense organs of selected vertebrates. Three lecture and four laboratory hours perweek. Prerequisite: BI 165, 166, 167. (I-winter, II-spring)

BI 330 Comparative Vertebrate Histology 5 credits
Study of fundamental body tissues. Three lecture
and four laboratory hours per week. Prerequsite:
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 3 credits

Classical and molecular principles of the transfer of hereditary information. Three lecture hours per week. Prerequisite: One year of biology. (winter)

BI 351 Genetics Laboratory 2 credits

Experience in genetic experimentation. Four laboratory hours per week. Prerequisite: BI 350 or taken concurrently. (winter)

BI 352 Biophysical Chemistry 5 credits
Introduction to physical chemistry. Principles of
thermodynamics, kinetics, molecular structure and
radioactivity applied to biology. Four lecture and
three laboratory hours per week. Prerequisite: Ch
219 or permission.

1 credit



BI 360 Parasitology 5 credits
Study of parasitic protozoa, helminths and arthropods. Three lecture and four laboratory hours per week. Prerequisite: BI 165, 166, 167; Recommended: BI 232. (spring, 1979)

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, 1978)

BI 370 Population Biology: Ecology 5 credits
The interrelationships of life forms with their physical and biotic environments. Five lectures per week.
Prerequisite: One year of biology. (winter)

BI 371 Field Ecology 2 credits
Field studies including techniques used in ecological research and analysis. One lecture per week and three weekend field trips. Prerequisite: BI 165, 166, 167 and permission. (spring, 1980)

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, 1980)

BI 430 Endocrinology 4 credits
Structure and function of the glands of internal secretion of vertebrates. Prerequisite: Advanced standing in biology and Ch 236. (spring, 1980)

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
Pathways of the vertebrate nervous system, 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. (spring, 1979)

BI 445 Human Cross Sectional Anatomy 5 credits
Survey of cross sectional anatomy with emphasis on
organs of body amenable to ultrasound diagnostic
techniques. Prerequisites: BI 165, 166, 167, and BI
270 or equivalent. (spring, 1980)

Bi 455

Biochemistry

Composition and metabolism of carbohydrates, lipids, proteins, enzymes and body fluids. Four lecture and three laboratory hours per week. 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 165, 166; recommended: BI 470. (fall, 1978)

BI 465 Population Biology: Evolution 5 credits
Causes and mechanisms of genetic adaptation of organisms. Five lectures per week. Prerequisite: BI 350 or permission. (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, 1979)

BI 491 Special Topics in Biology 1-5 credits
BI 492 Special Topics in Biology 1-5 credits
Special Topics in Biology 1-5 credits
Directed reading and/or lectures and/or laboratories on topics at the advanced undergraduate level. Prerequisite: Permission. (fall, winter, spring)

BI 495 Seminar 1 credit
BI 496 Seminar 1 credit
Problems in modern biology. Prerequisite: Junior or senior standing. (fall, winter, spring)

BI 494

Seminar

 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. (fall, winter, spring)





Chemistry

David L. Thorsell, Ph.D., Chairman

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 18 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 361-364, 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.

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, and one year of calculus-based physics. A student is eligible for certification of the degree by the American Chemical Society if Ch 415 is taken and nine additional credits of approved advanced work in chemistry, physics or mathematics. This certification is recommended for students planning graduate work. The following courses are strongly recommended as electives: Ph 290, Mt 233 and Mt 234.

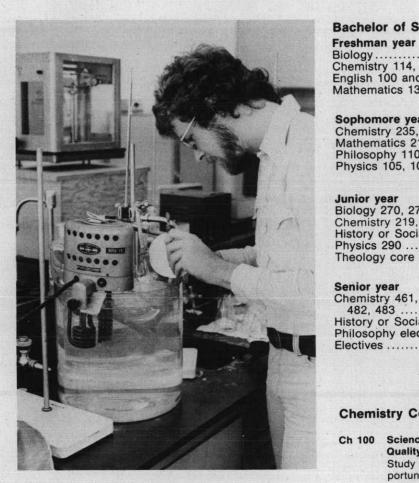
Bachelor of Science in Clinical Chemistry—65 credits in chemistry which must include Ch 114, 115, 116, 219, 235, 236, 361, 362, 363, 364, 455, 461, 470, 471, 472, 475, 476, 481, 482, 483; 18 credits in mathematics which must include two quarters of calculus and either Mt 213 or Mt 214, one year of introductory physics and Ph 290. Recommended electives: Ch 237, 238, 360; Bl 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 361-364. Additional courses in physics (Ph 105, 106, 107) a year of college mathematics and courses in biology are highly recommended.

Bachelor of Arts

| Bachelor of Arts | |
|---|--------------------|
| Freshman year 15 Chemistry 114, 115, 116 15 English 100 and core option 10 Philosophy 110 5 Electives 15 | credits |
| Sophomore year 15 (April 1988) Chemistry 219, 235, 236 15 (April 1988) Mathematics 112, 134, 135 15 (April 1988) Philosophy 220 and core option 10 (April 1988) Theology core option 5 (April 1988) | credits |
| Junior year Chemistry 352 and elective | credits credits |
| Senior year Chemistry elective 5 (| credits |

Total . . . 180 credits



Bachelor of Science in Chemistry

| Freshman year | |
|---|---------|
| Chemistry 114, 115, 11615 | credits |
| English 100 and core option10 | credits |
| Mathematics 134, 135, 136 | credits |
| Physics 200 5 | credits |
| Sophomore year | |
| | cradita |
| Chemistry 235, 236, 237 | credito |
| Mathematics 213 or 214 5 | |
| Philosophy 110 5 | credits |
| Physics 201, 20210 | credits |
| Electives | credits |
| Junior year | |
| Chemistry 219, 360, 361, 362, 363, 364 18 | credits |
| History or Social Science | credits |
| Philosophy 220 5 | credite |
| Theology core entions | credite |
| Theology core options10 | Credita |
| Electives 7 | credits |
| Senior year | |
| | credits |
| | credits |
| | credits |
| | credits |
| | |
| Electives 21 | credits |
| | |

Total . . . 180 credits

| Bachelor o | of | Science | in | Clinical | Chemistry |
|------------|----|---------|----|----------|-----------|
| | | | | | |

| Biology | 15 credits |
|--|----------------------|
| Sophomore year Chemistry 235, 236, 455 Mathematics 213 or 214 Philosophy 110, 220 Physics 105, 106, 107 | 5 credits 10 credits |
| Junior year Biology 270, 271 Chemistry 219, 361, 362, 363, History or Social Science elect Physics 290 Theology core options | 364 |
| Senior year Chemistry 461, 470, 471, 472, 482, 483 History or Social Science elect Philosophy elective Electives | |
| | Total 180 credits |

Chemistry Courses

| Ch 100 | Science, Technology and the |
|--------|--|
| | Quality of Life 5 credit |
| | Study of selected scientific information and the op- portunities and responsibilities for its generation and application; scientific information and technologies that demonstrate the need for public involvement in the conduct of science and technology. (fall, spring |
| | summer) |
| | |

| Ch 101 | Introductory General Chemistry 5 credi | ts |
|--------|--|----|
| | Survey of inorganic and some organic chemist | ry |
| | treating the basic principles and descriptive materi | |
| | relevant to the health sciences. Four lecture ar | |
| | three laboratory hours per week. (fall) | |

Ch 102 Introductory Organic and Biochemistry Continuation of organic chemistry and introduction to biochemistry with application to the health sciences. Four lecture and three laboratory hours per week. Prerequisite: Ch 101 or equivalent. (winter)

Ch 110 Fundamentals of Chemistry 5 credits An introduction to Chemistry designed for students with little or no preparation in science. Also for students desiring a review of high school chemistry prior to enrolling in Ch 101 or Ch 114. (fall)

| Cn 114 | General Inorganic Chemistry i | airs |
|--------|--|---------------------------|
| Ch 115 | General Inorganic Chemistry II 5 cre | dits |
| Ch 116 | General Inorganic Chemistry III 5 cre | dits |
| | I. Atomic structure, weight relationships, states matter, solutions. II. Kinetics, chemical equilibric electrochemistry, hydrogen, oxygen, water and nontransition metals. III. Transition metals, car compounds and an introduction to the principle reactions in ionized systems. The laboratory con | um, the bon s of |

elementary qualitative analysis. Four lecture and three laboratory hours per week. Prerequisites: High School chemistry or permission for 114; 114 for 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; properties and reactions of organic compounds; stereochemistry; reaction mechanisms; theory and practice of laboratory techniques. Four lecture and three laboratory hours per week. Prerequisite: Ch 115. (fall, summer)

Ch 236 Organic Chemistry II 5 credits
Properties, reactions and applications of organic
compounds with emphasis on those of biochemical
interest; continuation of organic synthesis; laboratory work in functional group reactions, synthesis
and thermodynamic and kinetic investigations. Four
lecture and three laboratory hours per week. Prerequisite: Ch 235. (winter, summer)

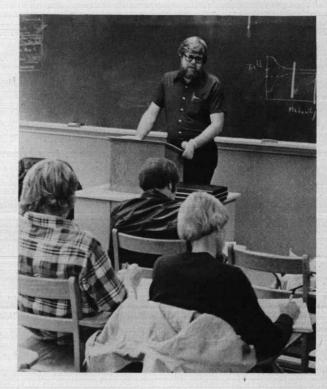
Ch 237 Organic Chemistry III 3 credits

Synthesis of organic compounds; ultraviolet, visible, infra-red and nuclear magnetic resonance spectra; laboratory work in problem-oriented 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
through preparation of derivatives; 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 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
Introduction to physical chemistry. Principles of
thermodynamics, kinetics, molecular structure and
radioactivity applied to biology. Four lecture 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 photo-

I. Quantum chemistry, spectroscopy, photochemistry. II. Gases, thermodynamics, changes of state, solutions. III. Chemical equilibrium, electrochemistry, kinetic molecular theory, reaction kinetics. Three lectures 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 and 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. Prerequisites: Ch 219 for 363; 363 for 364. Ch 361 is a pre- or co-requisite for

363; Ch 362 is a pre- or co-requisite for 364.

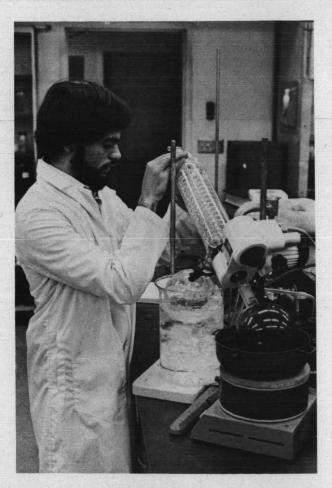
Ch 415 Advanced Inorganic Chemistry 3 credits Advanced topics in inorganic chemistry with particular attention to bonding, thermodynamics, spectral and magnetic properties of the transition metals and their compounds. Prerequisites: Ch 360 and 361 or permission.

Ch 436 **Advanced Organic Chemistry** 3 credits Spectrometric identification of organic compounds; mass spectrometry; nuclear magnetic resonance; infrared; ultraviolet and visible; thermodynamic variables and kinetic relationships. Directed reading and/or lectures. Prerequisite: One year of physical chemistry or permission.

Ch 455 **Biochemistry** 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.

Radiochemistry Ch 461 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)





3 credits Ch 470 Clinical Chemistry I Clinical Chemistry II 3 credits Ch 471 3 credits Ch 472 Clinical Chemistry III

I. Theory and techniques of spectrophotometry, atomic absorption spectroscopy, flame photometry, fluorimetry and infrared analysis; electrophoretic techniques and densitometry; specific ion electrodes; automated analysis in clinical laboratory use. II. Critical comparison of analytical methodologies for carbohydrates, lipids, electrolytes, enzymes, hemoglobins and porphyrins; emphasis on biosynthesis, metabolism, analytical methods of importance, normal ranges, and pathological conditions leading to abnormalities. Statistics and normal values. III. Toxicology, steroids, catecholamines, gas chromatographic and radioimmunoassay techniques, renal and hepatic function assessment. Two lectures per week. Prerequisites: Ch 362, 364 or permission. (Offered in sequence: fall, winter, spring)

Clinical Chemistry Laboratory I Ch 475 Ch 476 Clinical Chemistry Laboratory II 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)

2 credits

1-5 credits

Ch 481 **Clinical Practice** 2 credits Ch 482 Clinical Practice 2 credits **Clinical Practice** Ch 483 Practical experience in approved hospital clinical laboratory. Six laboratory hours per week. Prerequisite: Permission.

1-5 credits Ch 492 **Special Topics** 1-5 credits Ch 493 **Special Topics** Directed reading and/or lectures at an advanced level. Prerequisite: Permission.

Ch 491

Special Topics

Undergraduate Research 2 credits Ch 497 2 credits Ch 498 **Undergraduate Reseach** Ch 499 **Undergraduate Research** Literature and laboratory investigation of a basic research problem. Six laboratory hours per week.

Prerequisite: Permission.



Civil Engineering Richard T. Schwaegler, Ph.D., Chairman

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.

Degrees Offered

Bachelor of Civil Engineering Bachelor of Engineering

General Program Requirements

Students in Civil Engineering must satisfy the core curriculum requirements of the University as given on page 18 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 — 65 credits in civil engineering which must include ECL 208, 211, 321, 323, 331, 335, 337, 351, 353, 371, 402, 403, 492, 496, 497, and 498. Also required are Mt 134, 135, 136, 233, and 234; EML 105, 113, and 281; Ph 200, 201; and 10 credits of additional electives in engineering or science, as approved by an adviser. With approval, qualified students may substitute equivalent or more advanced courses for those listed.

Bachelor of Engineering — 55 credits in engineering, 25 credits in mathematics, and at least 10 credits in physics, chemistry, or biology. Not intended to be an entry-level degree into the engineering profession.

Bachelor of Civil Engineering

| Freshman year | |
|-----------------------------------|---------|
| English 100 and core option10 | credits |
| Mathematics 134, 135, 13615 | credits |
| Mechanical Engineering 105, 11310 | credits |
| Philosophy 110 5 | credits |
| Physics 200 | |
| Sophomore year | |

Sophomore year
Chemistry 114 5 credits
Civil Engineering 208, 211 10 credits
Engineering or Science Elective 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, 371
 31 credits

 Philosophy elective
 5 credits

 Theology electives
 10 credits

Humanities elective...... 10 credits

Total . . . 180 credits

Civil Engineering Courses

ECL 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.

ECL 208 Man and the Environment I 5 credits

Role of technology in the deterioration of environment and its restoration. I. Introduction to ecology, population, agriculture, pesticides, fertilizers, water pollution. II. Generation, use, conservation of energy. Air pollution, solid waste and recycling,

ECL 211 Engineering Measurements 5 credits
Engineering measurements as applied to civil
engineering. Planning for surveys. Introduction to

noise. (I. winter, II. spring)

photogrammetry. Public Land and State Plane Coordinate Systems. Prerequisite: Sophomore standing. Four lecture and one laboratory period per week. (spring)

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

ECL 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.

ECL 321 Strength of Materials I 5 credits

Mechanics of solid deformable bodies; relationships between the external forces acting on elastic bodies and the stresses and deformations produced. Members subjected to tension, compression, flexure and torsion. Five lecture and one laboratory period per week. Prerequisite: ME 113, Ph 200. (fall)

ECL 323 Strength of Materials II 5 credits

Continuation of the mechanics of solid deformable bodies. Beam topics, stability of columns, combined stresses and strains, fatigue and energy relationships. Five lecture and one laboratory period per week. Prerequisite: CE 321. (winter)

FCL 331 Fluid Mechanics 5 credits
Fluid static and dynamics. Topics include fluid properties, continuity equation, Euler's equation; laminar and turbulent flow regimes. Prerequisites: ME 281, Mt 135. (fall)

ECL 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, open channel flow. Prerequisite:

CE 331. (winter)

ECL 337 Fluids Laboratory

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)

ECL 351 Engineering Geology

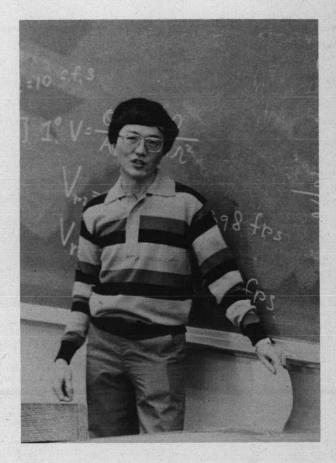
Elementary study of the material structure and internal condition of the earth and of the physical and chemical processes at work upon and within it.

Three lecture hours per week. Prerequisite: Sophomore standing. (winter)

ECL 353 Soil Mechanics and Foundations 5 credits
Engineering properties of soils; consolidation, shear
strength, permeability. Fundamentals of slope stability and earth pressure theories. Fundamentals of
foundation design. Four lecture and one laboratory
session per week. Prerequisites: CE 323, CE 351.
(spring)

ECL 371 Water Resources I 3 credits
Conception, planning, design, construction, and operation of facilities to control and utilize water.
Stream and flood analysis. Prerequisite: CE 331.

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.



ECL 402 Engineering Economy

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. (spring)

ECL 403 Project/Construction Management 3 credits
Introduction to project and construction
management. How to plan and organize these services. Network scheduling, contracting procedures,
risk analysis and estimating.

ECL 445 Structural Mechanics 5 credits
Classical and matrix methods in structural mechanics. Basic structural theory in both classical and matrix notation. Prerequisite: CE 323. (fall)

ECL 447 Structural Design I 5 credits
ECL 449 Structural Design II 5 credits
Design of basic structural members and connec-

Design of basic structural members and connections. Specific structural design building codes. I. Steel design. II. Reinforced and prestressed concrete design. Prerequisites: CE 445 for I, 447 for II. (I. winter, II. spring)

ECL 471 Environmental Law I 3 credits
ECL 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.

ECL 485 Sanitary Engineering I ECL 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)

ECL 491 Special Topics

1-5 credits

ECL 492 Transportation Systems Development of transportation system

3 credits

Development of transportation systems and social and economic effects. Planning present and future systems. Methods of public and private financing. (fall)

ECL 495 Advanced Studies

-5 credit

Independent study or research under the direction of a faculty member.

ECL 496 Seminar I

2 credits

ECL 497 Seminar II

2 credits

ECL 498 Seminar III

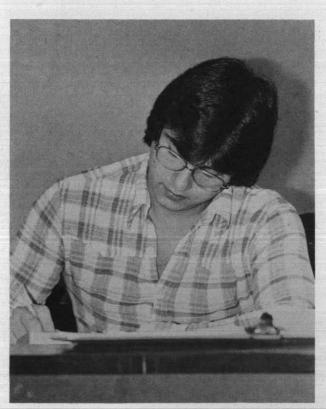
2 credits

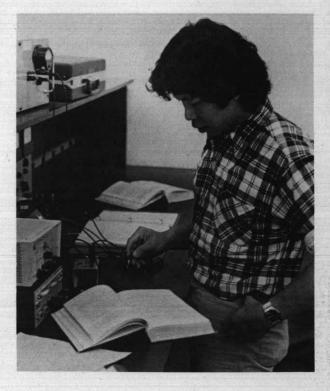
Development of oral and written communication skills through preparation and presentation of a technical paper. Prerequisite: Senior standing (I. fall, II. winter, III. spring.)

ECL 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

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/her 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.

Degrees Offered

Bachelor of Electrical Engineering Bachelor of Engineering

General Program Requirements

Students in electrical engineering must satisfy the specific core curriculum requirements of the University as given on page 18 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 - 65 credits in electrical engineering which must include EEL 105, 301, 303, 311, 341, 351, 411, 421, 433, 435, 443, 446, 448, 449, 455, 461, and 485. Also required are Mt 134, 135, 136, 233, and 234; EML 105, 113, and either EML 281 or Ph 310; and Ph 200, 201, 202, 203, 330 and 361. With approval, qualified students may substitute advanced courses in nuclear physics for electrical engineering courses. This degree is approved by the Engineers' Council for Professional Development.

Bachelor of Engineering — 55 credits in engineering, 25 credits in mathematics, and at least 10 credits in physics, chemistry, or biology. Not intended to be an entry-level degree into the engineering profession.

Bachelor of Electrical Engineering

| Freshman year Electrical Engineering 105 5 credits English 100 and core option 10 credits Mathematics 134, 135, 136 15 credits Mechanical Engineering 105, 113 10 credits Physics 200 5 credits | |
|---|--|
| Sophomore year Mathematics 233, 234 | |
| Junior year Electrical Engineering 301, 303, 311, 341, 351 | |

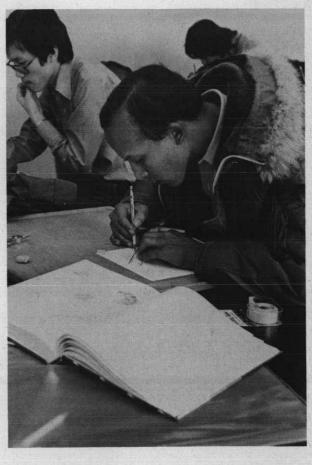
| Senior year | |
|--|-----------|
| Electrical Engineering 411, 421, 433, 435, | |
| 443, 446, 448, 449, 455, 461, 485 | |
| and electives4 | 0 credits |
| Humanities elective | 5 credits |
| Total 18 | 0 credits |

Electrical Engineering Courses

EEL 105 Digital Operations and Computation 5 credits Digital processing of information and data, number systems, Boolean Algebra; registers, counting and arithmetic operations; organization of computers, storage and numbering; introductory programming. (winter)

| EEL 191 Special Topics | 1-5 credits |
|------------------------|-------------|
| EEL 192 Special Topics | 1-5 credits |
| EEL 193 Special Topics | 1-5 credits |

EEL 200 Cooperative Work Study Assignment 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.



| FEI 201 | Special Topics | 1-5 credits |
|----------------|----------------|-------------|
| | | |
| EEL 292 | Special Topics | 1-5 credits |
| EEL 293 | Special Topics | 1-5 credits |

EEL 300 Cooperative Work Study Assignment 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.

EEL 301 Electrical Circuits I

winter)

5 credits **EEL 303 Electrical Circuits II** Fundamental concepts and units; energy and power; Kirchoff's laws, nodal and mesh analysis; steadystate 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-

0 credits **EEL 311 Seminar** Attendance required for junior year Electrical Engineering students. (winter)

5 credits **EEL 341 Semiconductor Circuits I** Vacuum circuit and solid state linear circuit models; elementary amplifiers, cascaded circuits, gain-frequency characteristics and bandwidth control.

Prerequisite: EEL 303. (spring)



EEL 351 Distributed Systems 5 credits

Analysis of distributed systems; steady-state and transient analysis of loss-less lines; lossy lines; wave-guides. Four lectures, one four-hour laboratory per week. Prerequisites: Ph 330, EEL 303. (spring)

EEL 391 Special Topics 1-5 credits
EEL 392 Special Topics 1-5 credits
EEL 393 Special Topics 1-5 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.

EEL 411 Seminar

Each student is required to prepare a technical paper and to present it orally to the class. Prerequisite: senior standing in electrical engineering. (winter)

Fourier and Laplace transforms; analytic functions; inversion methods; conformal mapping; introduction to network synthesis. Prerequisite: EEL 303.(fall)

EEL 433 Linear Analysis II 5 credits
Linear, time invariant, discrete systems; finite moving average and recursive digital filters; Z-transform; discrete Fourier transform; fast Fourier transform. Prerequisite: EEL 421. (winter)

EEL 435 Electromechanical Energy Conversion 5 credits
Electromechanical energy conversion principles;
transformers and rotating machines, special devices. Prerequisite: EEL 421. (winter)

EEL 443 Semiconductor Circuits II 5 credits
Linear power, push-pull, feedback, Class AB, B and
C, and tuned amplifiers; gain-frequency characteristics; oscillators. Prerequisite: EEL 341. (fall)

EEL 446 Electrical Engineering Laboratory I 2 credits
EEL 448 Electrical Engineering Laboratory II 2 credits
Laboratory problems in analysis and design for electronic communication and control for electrical engineering seniors; analog and digital systems. One hour lecture and one four-hour laboratory per week.
Prerequisite: EEL 341. (I-fall, II-spring)

EEL 449 Digital System Design

Digital electronic circuits; logic types; small and medium scale integrated circuits; A/D and D/A conversion; computer architecture. Prerequisites: EEL 105, 341. (fall)

EEL 455 Microwave Devices and Applications 3 credits
Microwave sources and amplifiers; tube and solidstate, guided waves and free-space propagation,
microwave circuit components, fundamentals of antennas. Three one-hour lectures per week. Prerequisites: EEL 351, Ph 330. (fall)

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. Prerequisites: EEL 421, 435. (spring)

EEL 485 Modulation and Noise 3 credits

Signal transmission through electrical networks;
amplitude, phase, frequency modulation; sampling
and pulse modulation; noise; comparative analysis
of information transmission systems. Prerequisite:
EEL 421. (winter)

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





General Science

Ernest P. Bertin, S.J., Ph.D., Program Director

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. Students expecting to transfer to a professional training program in an allied health field, such as dental hygiene, occupational therapy, or physical therapy, after several years of basic science background, may receive special counseling and guidance within the General Science program. This service also is available to students in premedical, predental, preveterinary, and prechiropractic studies.

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 18 of this bulletin for English, philosophy and theology and religious studies. At least 15 credits in humanities or social science electives are required.

Degree Requirements

This degree requires 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. Two other fields must be represented by at least one course. At least 15 credits must be from 300- or 400-level courses.



Health Information

Mary Alice Hanken, R.R.A., Chairman

Objectives

The Health Information 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 Science in Health Information

General Program Requirements

Degree candidates in health information must satisfy the core curriculum requirements of the University as given on page 18 of this bulletin for English, philosophy, and theology and religious studies. Additional core requirements are 15 credits in history or social science.

Certificate Program

Students who already possess a baccalaureate degree in any field may be eligible for the Certificate in Health Information Services Program, as fifth year students. Prerequisites for admission to the certificate program are acceptable college credits in human anatomy and physiology (with laboratory), principles of digital computers, statistics, and management practices.

Departmental Requirements

Bachelor of Science in Health Information — 50 credits in Health Information which must include HI 401, 402, 403, 422, 425, 426, 430, 440, 441, 455, 470, 475, and 495; 25 credits of science or mathematics, excluding computer courses; and 10 credits of computer courses, excluding HI 475.

Students who have completed a program for medical record technicians, approved by the American Medical Association, may be placed in appropriate advanced Health Information courses.

Certificate in Health Information — 46 credits in Health Information, equivalent to HI 401, 402, 403, 422, 425, 426, 430, 440, 441, 455, 470, 475, and 495.

Bachelor of Science in Health Information

| Freshman Year | |
|--|------------|
| Biology or Chemistry elective | 5 credits |
| English 100 and core option | 10 credits |
| History or social science electives | 15 credits |
| Mathematics | 5 credits |
| Philosophy 110 | 5 credits |
| Elective | 5 credits |
| Sophomore Year | |
| Biology or Chemistry elective | 5 credits |
| Speech 200 or 201 | 5 credits |
| Health Information 430 | 5 credits |
| Mathematics 213 or 214 | 5 credits |
| Philosophy 220 | 5 credits |
| Theology and Religious Studies options | 10 credits |
| Electives | 10 credits |

| Junior Year | |
|--------------------------------------|------------|
| Biology 200, 210 | 10 credits |
| Business 380 | 5 credits |
| Business 310 or HI Computer elective | 5 credits |
| Health Information 401 | 5 credits |
| Philosophy core option | 5 credits |
| Psychology 201 or Sociology 201 | 5 credits |
| Electives | 10 credits |

| Senior rear | |
|---|------------|
| Health Information 402, 403, 422, 425, 426, | |
| 440, 441, 455, 470, 475 and 495 | 36 credits |
| Health Information electives | |
| Elective | 5 credits |

Total 180 credits





Health Information Courses

| HI 401 | Introduction to Health Records | 5 credits |
|--------|---|-----------------|
| | Development, present scope and futur | re direction of |
| | the health record profession. Initial de skills for record analysis and control, n | |
| | tics, record retrieval and disease conquisite: Bl 200, 210 or permission, (fa | oding. Prere- |

| HI 402 | Management of Health Information | |
|--------|----------------------------------|-----------|
| | Systems I | 5 credits |
| HI 403 | Management of Health Information | |

| Management of Health Information |
|---|
| Systems II 5 credits |
| I. Coordination of record systems and information centers in health facilities. II. Use of standards de- |
| signed by JCAH, AMA, DHEW, and other agencies to raise level of health care quality; effects of standards |
| on health record administration. Prerequisites: HI 401 for I: I for II. (I-fall, winter: II-winter, spring) |

| | 401 for i; i for ii. (i-fail, winter; ii-win | ter, spring) |
|--------|---|---------------------|
| HI 422 | Medical Terminology | 3 credits |
| | Prerequisite BI 200, 210 or permis (fall, spring) | sion of instructor. |

| HI 425 | Medical Science I 3 credits | ä |
|--------|--|---|
| HI 426 | Medical Science II 3 credits | |
| | I. The problem-oriented approach to cause, treat- | |
| | ment and management of patients. Circulatory, respiratory, hemic and lymphatic, musculoskeletal, | |
| | integumentary, urogenital and female reproductive systems. II. Endocrine and nervous systems, spe- | |
| | cial senses, psychobiologic units, treatment including drugs, laboratory tests and anesthesia. | |

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)

spring)

Prerequisite BI 200, 210 or permission. (I. winter II.

HI 440 Practicum 1-5 credits
Practicum 1-5 credits
Practicum is designed to help students develop

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

Development of skills needed to select and use communications media in effective leadership. Personnel selection and evaluation, educational and training programs, skill in relating information. (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. (fall, spring)

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.

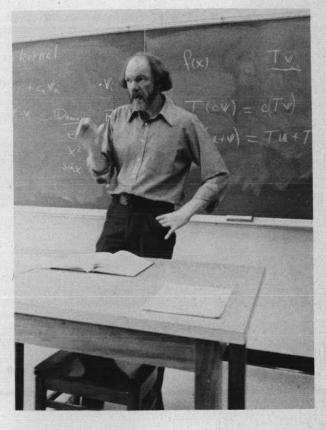
HI 491 Special Topics 2-5 credits
HI 492 Special Topics 2-5 credits

HI 495 Problem Solving and Decision
Making—Seminar
(winter, spring)

2 credits

HI 497 Independent Study 1-6 credits
Prerequisites: Senior standing; permission. (fall, winter, spring)





Mathematics

Andre L. Yandl, Ph.D., Chairman

Objectives

The Mathematics Department offers training in three distinct programs. The first, leading to the Bachelor of Science in Mathematics, prepares the student for advanced study and professional work in mathematics. The others are more flexible programs which provide for work in a secondary field and lead to either the Bachelor of Arts 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 18 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

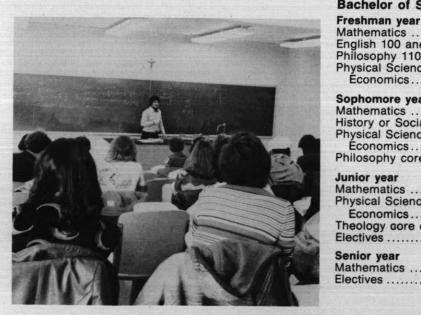
For superior students the department offers honors work consisting of a year of independent study under the supervision of a senior faculty member. Normally the work will be done during the senior year at a level beyond that of the regular undergraduate courses and will culminate in the writing of a 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 chairman,



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 213 and 214 are included among approved electives).

Bachelor of Arts Freshman year

| English 100 and core option | credits credits |
|---|--------------------|
| Sophomore year Mathematics 233, 234 and elective | credits |
| Social Science core option 5 | credits |
| Junior year French or German 105, 106 | credits |

Mathematics 411 or 431 5 credits

Electives40 credits

Total 180 credits

Total . . . 180 credits

Bachelor of Science

Senior year

| Mathematics15 | credits |
|--|---------|
| English 100 and core option10 | credits |
| Philosophy 110 and 22010 | credite |
| Physical Science, Psychology or | |
| Economics10 | credits |
| Sophomore year | |
| Mathematics15 | credits |
| History or Social Science core option15 Physical Science, Psychology or | credits |
| Economics10 | orodita |
| Philosophy core option | credits |
| Philosophy core option 5 | credits |
| Junior year | |
| Mathematics15 | credits |
| Physical Science, Psychology or | |
| Economics10 | credits |
| Theology core options10 | credits |
| Electives10 | credite |
| 2.000,700 | Credits |
| Senior year | |
| Mathematics15 | credits |
| Electives30 | credite |
| | ordano |

Bachelor of Science in Mathematics

| Freshman year English 100 and core option History/Social Science core option Mathematics 134, 135, 136 Philosophy 110 | ons15 credits15 credits |
|---|-------------------------|
| Sophomore year Mathematics 233, 234, and 315 Philosophy 220 and core option Physics 200 Electives | |
| Junior year French or German 105, 106 Mathematics 411, 412, 413 or 431, 432, 433 Physics 201, 202 Theology core options | 15 credits10 credits |
| Senior year Mathematics 431-432-433 or 41 and electives Electives | 25 credits20 credits |
| | Total 180 credits |

Proper Sequence for Taking Courses

The normal sequence of elementary mathematics courses is Mt 101; Mt 112 or Mt 118; Mt 130 or Mt 134; Mt 135; Mt 136; Mt 233; and Mt 234. A student, who has received a C or better in any course of this sequence or its equivalent, cannot receive credit for a course which appears before it in the sequence. A student may not receive credit for more than two courses among Mt 101, Mt 175, and Mt 200. A student may not receive credit for more than one course from each of the following pairs: Mt 100 and Mt 101; Mt 112 and Mt 118; Mt 130 and Mt 134.

Mathematics Courses

Mt 100 Intermediate Algebra 2-5 credits
Sets and numbers, polynomials, fractions, linear
equations and inequalities, exponents, quadratic
equations and inequalities; systems of equations;
functions and graphing. Prerequisite: One year each
of high school algebra and geometry. The completion of 5 credits of Mt 100 is equivalent to Mt 101.
(winter: 3 credits, spring: 2 credits)

Mt 101 Intermediate Algebra 5 credits
Introduction to logic and sets; laws of exponents;
linear and quadratic equations; inequalities; systems
of equations. Prerequisite: one year each of high
school algebra and geometry. (fall, winter, spring)

Mt 112 College Algebra and Trigonometry 5 credits
Sets; relations; algebra of functions; exponential,
logarithmic, trigonometric, inverse trigonometric
functions; equations; graphs. Prerequisite: Mt 101 or
one-and-one-half years of high school algebra. (fall,
winter, spring)

Mt 118 College Algebra for Business 5 credits
Sets; relations and functions, graphing; linear, quadratic, exponential, logarithmic functions; systems of linear equations; inequalities; linear programming; applications to business. Prerequisite: Mt 101 or equivalent. (fall, winter, spring)



Mt 130 Elements of Calculus for Business 5 credits
Rate of change; derivative, basic differentiation formulas, 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

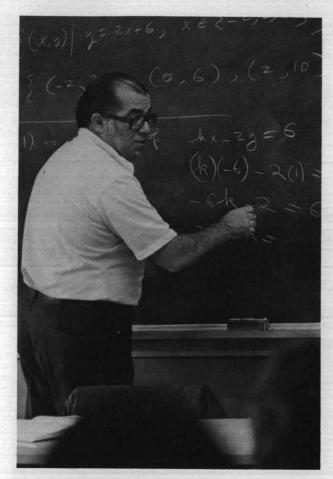
Mathematics for the
Liberal Arts Student

Elementary logic; sets, relations and functions;
topics chosen from geometry, abstract algebra,
linear algebra and computer science; statistics and
probability. (fall, winter, spring)

Mt 200 Theory of Arithmetic 5 credits
Systems of numeration; elementary logic; sets; relations, equivalence classes; number systems and the integration of these concepts. Prerequisite: Mt 101 or 175, or equivalent. (fall, winter, spring)

Fundamentals of the BASIC language. Overview of data management, hardware, languages, packaged programs, and trends in computer usage. Laboratory using the computing center. (fall, winter, spring)

Mt 214 Fundamentals of FORTRAN
Programming
FORTRAN language including flowcharting, debugging, input/output, loops, sub-programs.
Laboratory programming assignments in a variety of disciplines. Prerequisite: ME 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** Vector spaces; linear transformations; eigenvalues: linear differential equations; systems of differential equations; power series solutions. Prerequisite: Mt

233 (winter, spring)

Mt 315

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 foundations. Prerequisite: Mt 136 or permission of instructor. (spring of alternate years)

Number Theory 5 credits Divisibility and the Euclidean algorithm; congruences; quadratic reciprocity law; numerical functions; the Mobius inversion formula. Prerequisite: Mt 135. (spring of alternate years)

Foundations of Euclidean Mt 321 Geometry

or permission.

5 credits

Axiomatic foundations of Euclidean geometry; ruler and compass constructions; 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 in Advanced Geometry. May be repeated for credit with permission. Prerequisite: Mt 233 or permission. (winter of alternate years)

Mt 351 Probability 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; finite differences, numerical integration; numerical solution of differential equations. Three lecture and two computer laboratory hours per week. Prerequisites: Mt 136 and 214

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 Introduction to Real Analysis II Mt 432 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 Lebesque 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 The complex number system, analytic functions, integrations, series, residues, conformal mapping. Prerequisite: Mt 234.

Mt 491 2-5 credits Special Topics in Mathematics 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.



Mechanical Engineering

Harry Majors, Jr., M.S., Chairman

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.

Degrees Offered

Bachelor of Engineering
Bachelor of Mechanical Engineering
Certificate in Transportation Engineering
Master of Transportation Engineering — See Graduate
Bulletin

General Program Requirements

Students in mechanical engineering must satisfy core curriculum requirements of the University as given on page 18 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 — 65 credits in mechanical engineering which must include EML 105, 113, 281, 321 (or Ch 361, 363), 371, 380, 425, 426, 430, 472, 473, 484, 485, 496, 497, and 498. Also required are Mt 134, 135, 136, 233 and 234; ECL 321, 323, 331, 337 and 402; EEL 301; Ph 200, 201, and either Ph 202 or Ch 115; and Ch 114. With approval, qualified students may substitute equivalent or more advanced courses for those listed. This degree is approved by the Engineers' Council for Professional Development.

Bachelor of Engineering — 55 credits in engineering, 25 credits in mathematics, and at least 10 credits in physics, chemistry or biology. Not intended to be an entry-level degree into the engineering profession.

Bachelor of Mechanical Engineering

| Freshman year 10 English 100 and core option 10 Mathematics 134, 135, 136 15 Mechanical Engineering 105, 113 10 Physics 200 5 Philosophy 110 5 | credits |
|--|-----------------|
| Philosophy 220 5 Physics 201 5 Physics 202 or Chemistry 115 5 | credits |
| Junior year Civil Engineering 321, 323, 331, 337 | credits credits |
| Senior year 3 Civil Engineering 402 3 Humanities Elective 5 Mechanical Engineering 425, 426, 430, 472, 473, 484, 485, 496, 497, 498 37 | credits |
| Total 180 | credits |

Mechanical Engineering Courses

EML 105 Engineering Graphics and Analysis 5 credits Engineering Communication. Drafting instruments, lettering, orthographics, isometrics, free-hand

lettering, orthographics, isometrics, free-hand sketching, dimensioning. Descriptive geometry. Vector algebra. Elementary programming. Five two-hour sessions per week. (fall)

EML 113 Statics 5 credits

Vector algebra. Equilibrium of forces and moments, distributed forces, hydrostatics, friction, virtual work; all applied to simple bodies. Four lectures, one-hour problem session per week. Prerequisites: Mt 135 (or concurrent), EML 105.



EML 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.

EML 269 Production Processes I EML 270 Production Processes II

1 credit 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)

EML 281 Dynamics

5 credits

Vectors applied to kinematics and kinetics. Particle, system of particles, and rigid bodies related to translation, rotation, plane motion, relative motion, forces. Impulse-momentum, work, energy. Four lecture hours, one-hour problem session. Prerequisites: EML 113, Mt 135. (winter)

EML 291 Special Topics EML 292 Special Topics 1-5 credits

EML 293 Special Topics

1-5 credits 1-5 credits

EML 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.

EML 321 Engineering Thermodynamics I 5 credits

Thermal properties of ideal and real gases, liquids, vapors and mixtures. Conservation of energy. Convesion of thermal energy to work. Power, efficiency, cycles, compressible gas flow. Prerequisite: ECL 331. (winter)

EML 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: EML 281, ECL 323, 331. (spring)

EML 380 Heat Transfer I

5 credits

Heat transfer-conduction, convection, and radiation. Conduction in one and two dimensions, steady state and transient. Forced and natural convection with phase change. Applications. Four lecture hours, one four-hour laboratory per week. Prerequisite: EML 321. (spring)

EML 400 Cooperative Work Study Assignment 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.

EML 425 Power Plants I

Thermodynamics applied to ideal and real cycles, internal and external combustion engines, fans, blowers, compressors, nozzles, refrigeration, air conditioning, liquifaction of gases. Four lectures, one four-hour laboratory per week. Prerequisite: EML 321. (fall)

EML 426 Power Plants II

5 credits

Thermodynamics, heat transfer, fluid mechanics applied to design of modern thermal power stations and auxiliaries with economic and ecologic integration into regional power systems. Four lectures, one four-hour laboratory per week. Prerequisite: EML 425. (winter)

EML 428 Environmental Engineering

4 credits

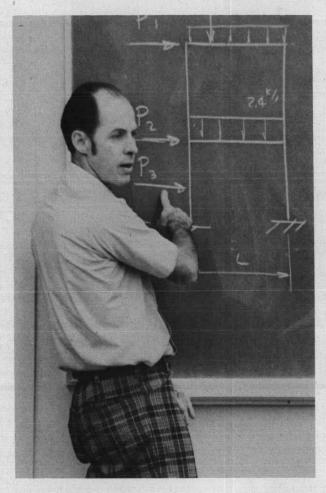
Man-machine systems. Engineer's approach to multi-disciplinary aspects of environmental control. Psychological and physiological principles of one's interrelation with the surroundings. Three lectures, one four-hour laboratory per week. Prerequisite: EML 321.

EML 430 Principles of the Properties of Materials I

5 credits

Atomic structure. Metallic bond. Structure of metals and non-metals. Equilibrium diagrams. Time-dependent transformations. Relation of structure to properties. Elastic and plastic deformation. Three lectures, one four-hour laboratory per week.





EML 472 Machine Design II 3 credits EML 473 Machine Design III 3 credits EML 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. Integrated aspects of creative design and analysis; case studies; design of a novel device or system; electromechanical, hydraulic and pneumatic systems; energy conversion. IV. Project work. Prerequisites: EML 371 for 472; 472 for 473; 473 for 474. (II-fall, IIIwinter)

EML 477 Experimental Mechanics 1-5 credits

Measurements by means of mechanical, electric, magnetic, optical sensing devices. Control systems. Vibration, shock and impact measurements. Interpretation of results. Prerequisites: ECL 337, EML 371.

EML 478 Compressible Flow I 5 credits One-dimensional gas dynamics including flow in nozzles and diffusers, normal shocks, frictional flows and flows with heat transfer and energy release.

Prerequisites: ECL 331, EML 322.

EML 479 Theoretical Hydrodynamics 5 credits Ideal fluid motion. Euler's equation. Potential flow. LaPlace equation. Hydrodynamics singularities, two and three dimensional flow. Conformal transformation. Flow around objects. Prerequisite: Permission.

EML 481 Heat Transfer II

5 credits

Advanced topics in conduction, convection, and radiation. Mass transfer and diffusion. Four lectures, one four-hour laboratory per week. Prerequisite: EML 380.

EML 484 Linear Systems Analysis

5 credits Dynamics of linear systems. Classical and transform methods of differential equation analysis. Experimental methods. Analog and digital computer methods. Four lectures, one four-hour laboratory per week. Prerequisites: EML 321, EML 371.

(winter)

EML 485 Control Systems I

5 credits

Feedback control system analysis. System elements and their transform functions. Criterions and plots. Analog and digital computer simulation. Four lectures, one four-hour laboratory per week. Prerequisite: EML 484 (spring)

EML 491 Special Studies 2-5 credits

EML 492 Special Studies 2-5 credits 2-5 credits **EML 493 Special Studies**

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.

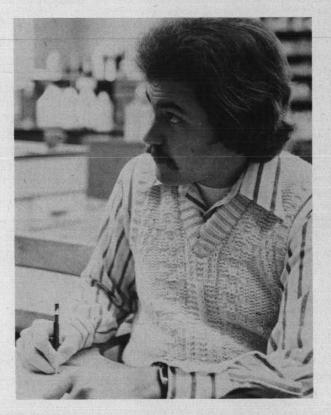
EML 496 Seminar 2 credits **EML 497 Seminar** 2 credits **EML 498 Seminar** 2 credits

Prerequisite: Senior standing. (fall, winter, spring)

EML 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.





Physics David Ehlers, Ph.D., Chairman

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, including 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 majoring in physics must satisfy the core curriculum requirements of the University as given on page 18 of this bulletin, except that for the Bachelor of Science and Bachelor of Science in Physics degrees, 15 credits of history and/or social science are required.

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 consisting of 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 213 or 214, 134).

Undergraduate Minor — 30 credits in physics which must include either Ph 105, 106, 107 or Ph 200, 201, 202, 203. Ph 101, 110, and 111 may not be counted toward the minor.

Bachelor of Science in Physics

Freshman Year

| Physics 200 | 5 | credits |
|-----------------------|-------|---------|
| Mathematics 134, 135, | 13615 | credits |
| | 20 | |
| Elective | 5 | credits |

Sophomore Year

| Physics 201, 202, 203, 290 | 20 | credits |
|----------------------------|----|---------|
| Mathematics 233, 234 | 10 | credits |
| Core options | | |
| Elective | 5 | credits |

Junior Year

| Physics 310, 311, 330, 331, 361, 375 | 30 credits |
|--------------------------------------|------------|
| Core options | |
| Elective | |

Senior Year

| Physics 481, 485, and 470 or 475 | 15 | credits |
|----------------------------------|----|---------|
| Core options | 10 | credits |
| Electives | 20 | credits |

Total 180 credits

Physics Courses

Note: Ph 105, 106, 107, 200, 201, 202, 290, and 475 have four lectures and one three-hour laboratory per week. All other physics courses have five lectures per week except as noted.

Ph 101 Energy Sources and Uses 5 credits
The demand for energy; methods of power generation; energy resources; end uses of energy; energy conservation principles; environmental and economic factors; energy in the Pacific Northwest.

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. Prerequisite:

Mt 112 or equivalent. (fall)

Ph 106 Electricity and Magnetism
Survey of electromagnetism. Electrostatics, magnetostatics, electromagnetic fields, dc and ac circuits. Prerequisite: 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. Prerequisite: Ph 106. (spring)

Ph 110 Introduction to Astronomy of the Solar System 5 credits

Apparent motions of heavenly bodies. Real motions and physical properties of the sun, moon, planets, and minor bodies of the solar system; telescopic observation available.

Ph 111 Introductory Stellar Astronomy 5 credits
Survey of the nature and evolution of the stars; neutron stars, pulsars, black holes; nebulae, galaxies, quasars and the origin of the universe; telescopic observation available. Core science option.

Ph 200 Mechanics

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. Prerequisite: Mt 134. (spring)

Ph 201 Electricity and Magnetism 5 credits
Electric charge, forces, fields, flux; Gauss' law; electric potential; conductors, dielectrics, capacitance; current and resistance; DC circuits; magnetic forces, fields; inductance; AC circuits. Prerequisites: Ph 200 and Mt 135. (fall)

Ph 202 Waves, Optics and Thermodynamics 5 credits
Harmonic Motion; mechanical and electromagnetic
waves; reflection, refraction, dispersion, interference, diffraction and polarization. Temperature, ideal gases, kinetic theory, second law of thermodynamics. Prerequisite: Ph 201. (winter)

Ph 203 Modern Physics 5 credits
Special relativity; particle aspects of radiation; wave aspects of matter; uncertainty principle; Schrodinger equation; atoms, nuclei, and elementary particles. Prerequisites: Ph 202, Mt 136. (spring)

Ph 290 Measurement and Instrumentation

Fundamentals

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. Prerequisites: Mt 134 and Ph 106 or 201. (spring)

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 300 Cooperative Work Study Assignment 0 credits
Field experience in an approved job assignment in
industry or government. Assignment will be selected
for value in advancing the professional education of
the student. Prerequisite: Permission of the Dean.

Ph 310 Intermediate Mechanics I 5 credits
Vector calculus; kinematics of a particle: one-dimensional motion of a particle; 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
Systems of particles; rigid body motion in a plane;
general motion of a rigid body; Lagrange's equations; Hamilton's equations; small vibrations. Prerequisite: Ph 310. (winter)



Ph 330 Electricity and Magnetism I 5 credits Static electric fields in vacuum and material media; solutions of Laplace's and Poisson's equations in curvilinear coordinates; static magnetic fields; timevarying fields and Maxwell's equations. Prerequisites: Ph 201, Mt 234. (winter)

Ph 331 Electricity and Magnetism II 5 credits Magnetic materials; derivation and solutions of wave equations; plane waves in vacuum and material media; fields of a moving charge; accelerated charges and radiation; covariant formulation of electrodynamics. Prerequisite: Ph 330. (spring)

Ph 350 Acoustics 3 credits Oscillation; waves; reflection and refraction of sound waves; attenuation; superposition of acoustical waves; ultrasonics. Prerequisites: Ph 107 or 202, Mt 134. (fall)

Ph 361 Solid State Physics and Devices 5 credits Crystal structure and defects; interatomic binding; thermal and electrical properties; energy bands, carrier statistics and carrier transport phenomena. Semiconductor devices. Prerequisite: Ph 203. (fall)

Ph 375 Nuclear Instrumentation 5 credits Ionizing radiation. Nuclear decay processes, interaction of radiation with matter, instrumentation for the detection of photons, charged particles, and neutrons. Three lectures and two laboratories per week. Prerequisite: Ph 107 or Ph 202. (spring)

| 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 Structure and properties 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 Physics of fission and fusion reactors; experiments on operational parameters of fission reactors. Discussion of environmental impact. Prerequisites: Ph 203 and junior standing or permission.

| Ph 481 | Theoretical Physics 5 cm | redits |
|--------|---|--------|
| | Matrices, determinants, Fourier series, in | tegral |
| | transforms, tensor analysis, complex variables ordinate transformations, partial differential e | s, co- |
| | tions, special functions. Prerequisite: Mt 234. | |

| Ph 485 | Quantum Mechanics 5 c | redits |
|--------|---|------------------|
| | Wave-particle duality, the state function | , the |
| | Schrodinger equation, one-dimensional prol the operator formalism, matrices, central f angular momentum, spin, identical particles requisite: Ph 481. (winter) | olems, orces, |

| Ph 491 Ph 492 | Special Topics Special Topics | 1-5 credits 1-5 credits |
|------------------|--|----------------------------|
| Ph 493 | The second secon | 1-5 credits |
| Ph 497 | Undergraduate Research | 1-5 credits |
| Ph 498 | | 1-5 credite |

Undergraduate Research

Ph 499

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 18 of this bulletin.

Most medical, dental or veterinary schools require the following undergraduate science sequences: Chemistry 114, 115, 116, 235, 236, 237, Biology 165, 166, 167, 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

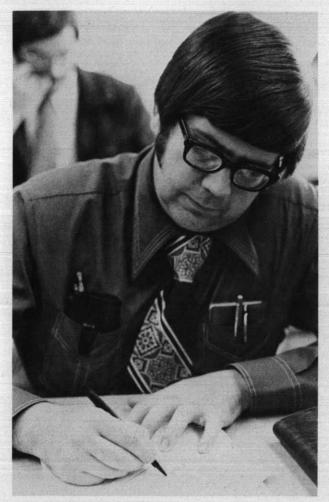
Preoptometry is a preparatory program for a career in optometry and is not a field of concentration. The basic requirement of the American Optometric Association is a two-year program, although the best preparation, and the one preferred by most professional schools, is a four-year undergraduate program leading to a bachelor's degree in one of the basic sciences.

Program

1-5 credits

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

(For detailed information on the Graduate programs see the separate Graduate School Bulletin)

Graduate School

Graduate studies directed toward the master's degree were first offered at Seattle University in 1910 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. In 1976 the first doctoral program began.

Objectives

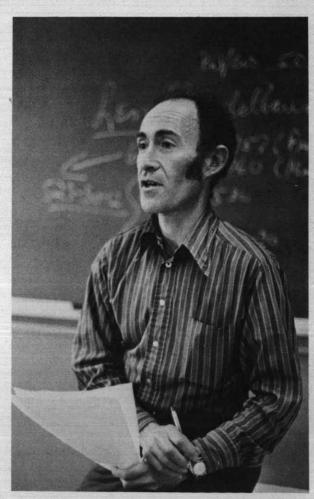
Graduate School programs involve courses advancing by gradation into greater complexity and profundity. The content of graduate courses is of a more advanced nature, the requirements in terms of bibliography, quantity and quality of thinking and writing are higher, and the degree of initiative, the organizing 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 and doctor's degrees 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.





Degrees Offered

For admission and program requirements see the Seattle University Graduate Bulletin.

Graduate Degrees offered by the University are:

ARTS AND SCIENCES
Master of Arts—English
Master of Arts—History
Master of Arts—Rehabilitation
Master of Pastoral Ministry
Master of Religious Education (summer only)

BUSINESS
Master of Business Administration

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.

Master of Counseling Doctor of Education

PUBLIC SERVICE Master of Public Administration

SCIENCE AND ENGINEERING Master of Transportation Engineering





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A.A. Lemieux, S.J., Ph.D., Chancellor, Seattle University

Mrs. James (Dorothy) Lynch, Bremerton, Washington

Gene E. Lynn, The Careage Corporation John A. Moga, Arthur Andersen and Company Robert D. O'Brien, Chairman, PACCAR, Inc. Gordon Roessler, Seattle, Washington

Mrs. Celeste F. Rogge, President, Pacific Food

Products Company
William Ruckelshaus, Senior Vice President,

Weyerhaeuser Company

Robert L. Sherran, Vice President and Manager, Merrill Lynch Pierce Fenner & Smith, Inc.

William J. Sullivan, S.J., President, Seattle University

G. Robert Truex, Jr., Chairman and Chief Executive Officer, Rainier National Bank

William P. Woods, Chairman, Washington Natural Gas Company

Mrs. T. Evans (Ann) Wyckoff, Seattle, Washington

University Administration

William J. Sullivan, S.J., Ph.D., President A.A. Lemieux, S.J., Ph.D., Chancellor William A. Guppy, Ph.D., Academic Vice President

Kenneth R. Nielsen, Ed.D., Vice President for Student Life

Virginia L. Parks, Ph.D., Vice President for Business and Finance

James P. Lyddy, Ph.D., Vice President for University Relations

William E. Hayes, S.J., Executive Assistant to the President

John W. Lawlor, S.J., M.Ed., Administrative Assistant to the President

Timothy F. Cronin, S.J., M.Ed., Administrative Assistant to the Academic Vice President

George A. Pierce, Ph.D., Assistant to the President for Planning

Academic Administration

William F. LeRoux, S.J., M.A., S.T.D.,
Acting Dean, College of Arts and Sciences
John D. Eshelman, Ph.D., Dean,
Albers School of Business

John A. Morford, Ed.D., Dean, School of Education

Patricia A. Ferris, Ph.D., Dean, School of Nursing

Gary A. Zimmerman, Ph.D., Dean, School of Science and Engineering

James J. Cowgill, S.J., Ph.D., Dean, Graduate School

Mary S. Conrad, M.A., Director,
Office of Continuing Education

Dora Hall-Mitchum, M.Ed., Director, Learning Skills Center

Kenneth F. Enslow, S.J., M.L., University Librarian

Joseph B. Monda, Ph.D., Director, Summer School

Mary Alice Lee, B.A., Registrar

Leo P. Stanford, Ph.D., Director, CORPUS/ SUMORE Programs

Edwin Weihe, Ph.D., Director, Matteo Ricci Form II

Lt. Col. James G. Adams, M.S., Commanding Officer, ROTC

Student Life Administration

Donna Vaudrin, M.A., Dean for StudentsOneal J. McGowan, S.J., M.A., Director,Minority Student Affairs

Charles E. Schmitz, S.J., M.A., Director, Campus Ministry

Allan Gerston, Ph.D., Director, Counseling and Testing

Curt DeVere, B.A., International Student Adviser

Judith Lee Sharpe, M.A., Director, Resident Student Services

Edward J. O'Brien, B.C.S., Director of Athletics

Jack Henderson, B.A., Director, Connolly Center

William O'Connor, B.S., Head Basketball Coach

Judy White-LeBlanc, B.S., Director, Child Care Center

David W. Boisseau, M.D., Director, Health Center

Administrative Services

J. David Rossick, B.C.S., Controller Kip Toner, B.C.S., Director, Financial Aid Anna E. Dillon, Director of Personnel John B. Marlow, Manager, Plant and General Services

Genevieve Weston, B.A., Director, University Bookstore

University Relations

Michael V. Fox, M.A., Director of Admissions

Paul D. Seely, M.Ed., Executive Director of Alumni Relations

George Behan, B.A., Director of Public Relations

Jean Merlino, B.A., Director of Publications Archille O. Bourque, Jr., M.B.A., Director of Planned Gifts



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.

Clarence L. Abello, B.Econ. (1953)

Associate Professor of Spanish

B.Econ., 1933, University of London; Contrador Publico Nacional.

1937, Universidad, Nacional de Buenos, Aires, Facultad de

1937, Universidad Nacional de Buenos Aires, Facultad de Ciencias Economicas.

James G. Adams, Lt. Col., M.S. (1977)
Chairman, Military Science Department
Professor of Military Science
B.S., 1957, Oregon State University; M.S., 1973, University of
Kansas.

Josef C. Afanador, Ed.D., (1975)†
Assistant Professor of Rehabilitation
B.A., 1963, Butler University; M.S., 1967, Purdue University;
Ed.D., 1971, University of Arizona.

Richard H. Ahler, S.J., S.T.D. (1977)
Chairman, Theology and Religious Studies
Associate Professor of Theology and Religious Studies
A.B., 1954, Ph.L., 1956, St. Louis University; M.A., 1957, Marquette University; S.T.L., 1963, St. Louis University; S.T.D., 1975, Gregorian University.

Lewis E. Aldrich, Jr., Ph.D. (1968)
Chairman, Biology Department
Professor of Biology
B.A., 1950, Linfield College; M.S., 1954, Ph.D., 1960, Oregon
State College.

Irene Allen, M.L., (1970)
Assistant Librarian
B.A., 1968, M.L., 1969, University of Washington.

Julian B. Andersen, Ph.D. (1970)†

Associate Professor of Business A.S., 1958, Weber State College; B.S., 1960, Ph.D., 1966, Utah State University.

Englebert M. Axer, S.J., Ph.D. (1941; 1955; 1971)† Professor Emeritus

A.B., 1930, Valkenburg, Holland; S.T.L., 1940, St. Louis University; M.A., 1941, Gonzaga University; Ph.D., 1949, Georgetown University.

Joan P. Baker, M.S.R.-R.D.M.S. (1977)
Director, Allied Health Technology
Assistant Professor of Allied Health
Member Society Radiographers, England, 1960; American
Registry Diagnostic Medical Sonographers, 1975.

Mary C. Bartholet, M.S. (1958; 1965)

Associate Professor of Nursing B.S., 1949, College of St. Teresa; M.S., 1958, St. Louis University.

Adele Palmberg Becker, Ph.D. (1974)
Assistant Professor of Foreign Languages
B.A., 1964, Michigan State University; B.A., 1965, Middlebury
College; Ph.D., 1974, University of Illinois.

Ernest P. Bertin, S.J., Ph.D. (1957; 1964; 1971)
Professor of Chemistry
A.B., 1944, M.A., 1945, Gonzaga University; S.T.L., 1952, Alma

A.B., 1944, M.A., 1945, Gonzaga University; S.T.L., 1952, Alma College; Ph.D., 1957, University of Notre Dame.

William N. Bischoff, S.J., Ph.D. (1969)†

Research Professor of History B.A., 1940, M.A., 1942, Gonzaga University; S.T.B., 1948, Alma College; Ph.D., 1950, Loyola University, Chicago.

Francis X. Bisciglia, S.J., M.A. (1963)
Associate Professor of Classical Languages
A.B., 1938, M.A., 1939, Gonzaga University; S.T.L., 1947, St.
Louis University; M.A., 1952, Fordham University.

Roger E. Blanchette, S.J., M.A. (1966)†

Assistant Professor of Theology and Religious Studies A.B., 1957, M.A., 1959, Gonzaga University; S.T.B., 1965, Alma College; M.A., 1965, University of Santa Clara.

Dorothy G. Blystad, B.A. (1963) Assistant Professor of Education B.A., 1947, Colorado University.

Hamida H. Bosmajian, Ph.D. (1966; 1974)†
Associate Professor of English
B.A., 1961, University of Idaho; M.A., 1962, Ph.D., 1968,
University of Connecticut.

Conrad L. Boyle, M.B.A. (1977)
Assistant Professor of Marketing
B.S., 1959, U.S. Military Academy: M.B.A., 1964, University of

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Susanne M. Bruyere, Ph.D. (1975)
Assistant Professor of Rehabilitation
B.A., 1970, D'Youville College; M.S.Ed., 1972, University of Southern California; Ph.D., 1975, University of Wisconsin.

John P. Burke, M.A. (1967; 1977)†
Assistant Professor of Philosophy
B.A., 1965, Gonzaga University; M.A., 1967, St. Louis University.

Norma Jean Bushman, M.N. (1960) Associate Professor of Nursing B.S.N., 1959, M.N., 1960, University of Washington.

J. Gerard Bussy, S.J., Ph.D. (1948)

Professor Emeritus L.Ph., 1933, S.T.L., 1937, Gregorian; M.A., 1952, Seattle University; Ph.D., 1957, University of Washington.

David Michael Butler, M.A. (1975)

Assistant Professor of Drama B.A., 1966, Seattle University; M.A., 1970, University of Washington.

Robert E. Callahan, Ph.D. (1977)

Assistant Professor of Business B.S., 1967, M.B.A., 1969, Drexel University; Ph.D., 1977, Case Western Reserve University.

Robert J. Carmody, S.J., Ph.D. (1943)†

Professor Emeritus

A.B., 1931, M.A., 1932, Gonzaga University; S.T.L., 1939, Alma College; Ph.D., 1949, University of Washington.

Walter R. Carmody, Ph.D. (1947)

Professor Emeritus B.S., 1923, University of Washington; M.S., 1924, Ph.D., 1926, Catholic University.

Emmett H. Carroll, S.J., M.A. (1973)

Assistant Professor of English B.A., 1955, Gonzaga University; M.A., 1963, Gregorian University; M.A., 1966, Rutgers University.

Frank E. Case, S.J., M.A. (1975)

Assistant Professor of Business A.B., 1962, M.A., 1965, Ph.L., 1965, St. Louis University; S.T.M., 1970, University of Santa Clara.

Ben Cashman, Ph.D. (1962; 1967)

Chairman, Political Science Department Professor of Political Science B.A., 1949, University of Washington; M.A., 1950, Fletcher School of Law and Diplomacy; Ph.D., 1969, University of Washington.

Genard T. Catalano, Ph.D. (1977)

Assistant Professor of Electrical Engineering B.E.E., 1963, City College of New York; M.S.E.E., 1968, University of Rhode Island; Ph.D., 1973, Arizona State University.

Chu Chiu Chang, M.A. (1956)

Associate Professor of Mathematics A.B., 1942, Central Political Institute, Chungking, China; M.A., 1956, University of Washington.

Percy H. Chien, Ph.D. (1976)

Associate Professor of Civil Engineering B.S.C.E., 1962, National Taiwan University; M.S.C.E., 1967, University of Houston; Ph.D., 1972, Clemson University.

Louis K. Christensen, Ph.D. (1965)

Professor of Music B.A., 1954, M.A. (Mus.) 1956, Ph.D., 1961, University of Washington.

Janet M. Claypool, M.N. (1966)

Associate Professor of Nursing B.S.N., 1959, M.N., 1960, University of Washington.

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Professor of Accounting

B.S.B.A., 1953, University of South Dakota; M.B.A., 1957, University of Minnesota; Ph.D., 1965, University of Washington.

Mary Cobelens, M.L., (1971)

Assistant Librarian B.A., 1959, Central Washington State; M.L., 1971, University of Washington.

William J. Codd, S.J., Ph.D. (1947)

Director, Montessori Studies Center

Professor of Education

A.B., 1936, M.A., 1938, Gonzaga University; S.T.B., 1944, Alma College; Ph.D. 1958, University of Washington.

James V. Connors, S.J., M.A. (1961; 1972)

Associate Professor of Drama

A.B., 1953, Gonzaga University; S.T.B., 1958, University of Santa Clara: M.A., 1960, San Francisco State College.

Paul P. Cook, Jr., Ph.D. (1962)

Associate Professor of Biology

B.A., 1951, M.A., 1952, University of Kansas; Ph.D., 1962, University of California.

Robert H. Cousineau, S.J., Docteur (1975)†

Associate Professor of Philosophy

B.A., 1953, M.A., 1954, Boston College; Ph.L., 1954, Weston College; S.T.L., Woodstock College; Docteur, 1969, University of Paris.

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Assistant Professor of Nursing B.S., 1964, M.S., 1972, University of Washington.

James J. Cowgill, S.J., Ph.D. (1950; 1953)

Dean, Graduate School Professor of Physics

B.S., 1938, M.S., 1939, Gonzaga University; S.T.L., 1946, Alma College; Ph.D., 1957, University of Notre Dame.

Thomas W. Cunningham, Ph.D. (1959; 1965)

Professor of Psychology

B.A., 1956, Seattle University; M.S., 1959, Ph.D., 1966, University of Portland.

Nikolas J. Damascus, M.F.A. (1951)

Professor of Art

B.F.A., 1944, M.F.A., 1947, Art Institute of Chicago.

Margaret Mary Davies, Ph.D. (1955; 1971)

Professor Emeritus

A.B., 1938, Ph.D., 1960, University of Washington.

George D. Davis, M.S. (1969)

Associate Professor of Biology

B.S., 1956, M.S., 1960, University of Tulsa.

Verelle M. Davis, M.S. (1972)

Assistant Professor of Nursing

B.S., 1959, University of Washington; M.S., 1970, Catholic University.

Rosario T. DeGracia, M.S. (1963)

Associate Professor of Nursing

B.S.N., 1954, University of the Philippines; M.S., 1959, Western Reserve University.

Bonnie Jean Denoon, Ph.D. (1975)†

Assistant Professor of Education

B.A., 1961, M.Ed., 1966, Wichita State University; Ph.D., 1975, Peabody College.

Khalil (Charles) Dibee, Ph.D. (1964)†

Professor of Finance

B.S., 1956, University of Detroit; M.B.A., 1958, Ph.D., 1962, University of Texas.

Joseph P. Donovan, S.J., Ph.D. (1948; 1966)†

Professor Emeritus

A.B., 1938, Gonzaga University; M.A., 1940, Georgetown University; Ph.D., 1948, University of Pennsylvania.

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B.A., 1954, M.A., 1957, University of Washington.

Thomas E. Downey, Ph.D. (1957)†

Professor Emeritus

A.B., 1932, M.A., 1934, Loyola University, Chicago; Ph.D., 1944, University of California.

Jerome R, Dunham, Ph.D. (1974)

Assistant Professor of Rehabilitation

B.A., 1946, M.A., 1947, University of Michigan; Ph.D., 1964, Texas Technological College.

Arthur C. Earl, S.J., M.A. (1944)

Professor Emeritus

B.S., 1929, Creighton University; M.A., 1937, Gonzaga Universitv.

Robert J. Egan, S.J., Ph.D. (1964; 1972)

Assistant Professor of Theology and Religious Studies B.A., 1955, Gonzaga University; S.T.L., 1963, College of the Immaculate Conception; M.A., 1963, St. Mary's University; Ph.D., 1973, Fordham University.

David H. Ehlers, Ph.D. (1973)

Chairman, Physics Department

Assistant Professor of Physics

B.A., 1964, Western Washington State College; Ph.D., 1970, Washington State University.

Mary B. Ehlers, Ph.D. (1974)

Assistant Professor of Mathematics

B.A., B.A. in Ed., 1964, Western Washington State College; M.A., 1966, Ph.D., 1969, Washington State University.

Kenneth F. Enslow, S.J., M.L. (1972)

University Librarian

B.A., 1952, Gonzaga University; B.A., 1960, University of Santa Clara; M.L., 1965, University of Washington.

John D. Eshelman, Ph.D. (1969)†

Dean, Albers School of Business

Associate Professor of Economics

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Patricia Ann Ferris, Ph.D., (1967)

Dean, School of Nursing

Associate Professor of Nursing

B.S., 1951, St. Mary's College, Indiana; M.S., 1958, Western Reserve University; Ph.D., 1972, University of Washington.

*Lewis Filler, D. Eng. Sci. (1962)

Professor of Mechanical Engineering

B. Aero. Eng., 1953, M. Aero. Eng., 1954, D. Eng. Sci., 1958, New York University.

Alice L. Fisher, M.S.P.H. (1950)

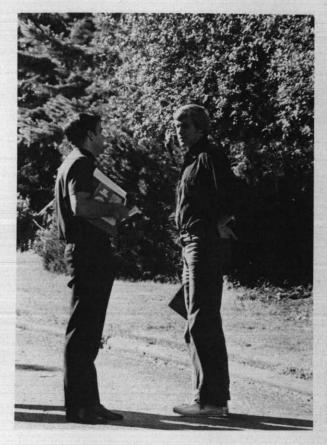
Professor Emeritus

B.S.N., 1930, University of Minnesota; M.S.P.H., 1936, University of Michigan.

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B.A., 1969, Boise State College; M.B.A., 1970, Ph.D., 1975, University of Washington.



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A.B., 1966, M.A., 1967, Gonzaga University; S.T.M., 1975, Jesuit School of Theology; Ph.D., 1973, University of Southern California.

Louis Gaffney, S.J., Ph.D. (1956; 1976)

Professor of Psychology

A.B., 1942, M.A., 1943, Gonzaga University; S.T.L., 1950, Alma College; Ph.D., 1956, University of Minnesota.

Brenda J. Geyer, M.A. (1976)

Instructor in Nursing

B.S., 1970, Seattle Pacific College; M.N., 1976, University of Washington.

Sister Suzanne Giblin, C.S.J., M.A. (1976)+

Co-director, CORPUS Program Instructor in Theology/Religious Studies

B.A., 1958, College of St. Teresa; M.A., 1967, Marquette

James P. Goodwin, S.J., M.A. (1950; 1966)

Chairman, Sociology Department

Professor of Sociology B.A., 1937, M.A., 1938, Gonzaga University; M.A., 1950, Harvard University.

James K. Griffin, Capt., B.Ed. (1975)

Assistant Professor of Military Science B.Ed., 1968, Seattle University.

Kathye Jean Hanson Grisham M.N. (1976)

Instructor in Nursing

B.S., 1965, University of Wisconsin; M.N., 1967, University of Washington.

William A. Guppy, Ph.D. (1952)

Academic Vice President Professor of Psychology Ph.B., 1950, Seattle University; M.A., 1953, Ph.D., 1959, Loyola University, Chicago.

Reed A. Guy, Ph.D. (1975)

Associate Professor of Physics B.S., 1966, University of Alabama; Ph.D., 1970, University of Virginia.

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Associate Professor of Education B.S., 1957, College of St. Teresa; M.A., 1964, Ph.D., 1967, Catholic University.

Steen Halling, Ph.D. (1976)

Assistant Professor of Psychology B.A., 1967, York University; M.A., 1970, Ph.D., 1976, Duquesne University.

Thomas B. Hamilton, M.A. (1963)

Assistant Professor of Psychology B.A., 1961, Seattle University; M.A., 1963, University of Portland.

Gerald Hampton, Ph.D. (1976)†

Assistant Professor of Marketing B.A., 1962, University of Washington; M.B.A., 1967, Ohio State University; Ph.D., 1973, University of Washington.

J. Hutchinson Haney, M.S. (1963)

Assistant Professor of Rehabilitation B.A., 1966, University of Denver; M.S., 1968, University of Arizona.

Mary Alice Hanken, M.Ed. (1972)

Chairman, Health Information
Assistant Professor of Health Information
B.S., 1963, M.Ed., 1973, Seattle University.

John M. Harding, J.D. (1975)

Assistant Professor of Business B.A., 1942, Yale University; J.D., 1948, Yale Law School.

Vernon J. Harkins, S.J., B.A., S.T.L. (1958; 1963)

Assistant Professor of Philosophy B.A., 1951, Gonzaga University; S.T.L., 1957, Alma College.

Charles R. Harmon, M.A. (1953)†

Associate Professor of History B.S.S., 1950, Seattle University; M.A. 1957, University of Washington.

Eugene A. Healy, S.J., Ph.D. (1952; 1967)

Professor Emeritus A.B., 1936, M.A., 1937, B.S., 1945, Gonzaga University; S.T.L., 1944, Alma College; M.S., 1948, Fordham University; Ph.D., 1952, Columbia University.

Susan Helbig, B.S. (1976)

Instructor in Health Information B.S., 1974, Whitworth College.

Hildegard R. Hendrickson, Ph.D., (1967)†

Professor of Economics and Finance B.A., 1958, M.B.A., 1959, Ph.D., 1966, University of Washington. Marvin T. Herard, M.F.A. (1960)

Chairman, Fine Arts Department Associate Professor of Art B.A., 1954, University of Washington; M.F.A., 1960, Cranbrook Academy of Art.

Montie T. Hess, Capt., M.A. (1976)

Assistant Professor of Military Science B.G.S., 1974, Chaminade College; M.A., 1975, Central Michigan University.

Helon E. Hewitt, M.N. (1965)

Associate Professor of Nursing B.S., 1959, M.N., 1961, University of Washington.

Shirley Hikogawa, M.S.W. (1976)

Instructor in Community Services
B.A., 1967, M.S.W., 1969, University of Washington.

Lee Hodson, M.L.S. (1957)

Associate Librarian B.A., 1939, University of Redlands; M.L.S., 1942, University of California.

James B. Hogan, Ph.D. (1976)

Assistant Professor of Political Science A.B., 1957, Long Beach State; M.A., 1958, University of California at Los Angeles; Ph.D., 1970, Cornell University.

Ray W. Howard, Ph.D. (1967)

Professor Emeritus B.A., 1931, M.A., 1940, Ph.D., 1949, University of Washington.

Margaret L. Hudson, Ph.D. (1974)

Assistant Professor of Biology B.S., 1968, Ph.D., 1974, University of Washington.

Jeanette A. Hulburt, M.L. (1964)

Associate Librarian B.A., 1950, Seattle University; M.L., 1964, University of Washington.

Gladys M. Hunter, M.Ed. (1955)

Professor Emeritus B.A., 1936, Valley City Teachers College; M.Ed., 1947, Teachers College, Columbia University.

Dolly Ito, D.N.S. (1959; 1970; 1976)

Professor of Nursing

B.S., 1951, Gonzaga University; M.A., 1958, University of Washington; D.N.S., 1970, University of California at San Francisco.

Louis G. Jeannot, M.A. (1966)

Assistant Professor of Theology and Religious Studies A.B., 1953, University of Portland; M.A., 1971, Marquette University.

Dolores M. Johnson, Ph.D. (1964)†

Associate Professor of English B.A., 1960, M.A., 1964, Ph.D., 1971, University of Washington.

Warren B. Johnson, Ph.D. (1962)†

Associate Professor of History B.A., 1947, M.A., 1952, Ph.D., 1962, University of Washington.

Herbert M. Kagi, Ph.D. (1974)

Director, Community Services and Criminal Justice/Police Science Assistant Professor of Community Services and Criminal Justice/Police Science A.B., 1955, M.A., 1963, Ph.D., 1963, Syracuse University.

Leo B. Kaufmann, S.J., Ph.D. (1967)†

Professor of Philosophy B.A., 1944, M.A., 1945, Gonzaga University, S.T.L., 1952, Alma College; Ph.D., 1957, St. Louis University.

Michael M. Kelliher, S.J., D. Crim. (1972

Associate Professor of Sociology A.B., 1960, Gonzaga University; S.T.B., 1968, University of Santa Clara; M.Crim., 1969, D. Crim., 1972, University of California at Berkeley.

James W. King, S.J., S.T.D. (1959; 1972)

Associate Professor of Community Services Diploma, Voice, 1942, Sherwood Music School, Chicago; M.A., 1952, Gonzaga University; S.T.B., 1957, Alma College; Diplome, 1958, Institut Gregorien de Paris; S.T.D., 1971, San Francisco Theological Seminary.

John L. Kite, Ph.D. (1974)

Assistant Professor of Rehabilitation B.S., 1966, M.Ed., 1968, Trinity University; Ph.D., 1974, University of Arizona

Harry H. Kohls, S.J., Ph.D. (1966)†

Associate Professor of Philosophy (Ret.) A.B., 1935, M.A., 1936, Gonzaga University; Ph.D., 1952, Georgetown University.

Ursel S. Krumme, M.A. (1977)

Assistant Professor of Nursing B.S., 1961, M.A., 1962, New York University.

George D. Kunz, Ph.D. (1971)

Chairman, Psychology Department Associate Professor of Psychology A.B., 1960, Gonzaga University; M.A., 1964, Marquette University; Ph.D., 1975, Duquesne University.

Charles S. LaCugna, Ph.D. (1947)

Professor of Political Science A.B., 1937, Manhattan College; M.A., 1944, Fordham University; Ph.D., 1960, University of Washington.

*Jane P. LaFargue, M.N. (1969)

Associate Professor of Nursing B.S., 1968, Boston University; M.N., 1969, University of Washington.

Val M. Laigo, M.F.A. (1965)

Associate Professor of Art

B.Ed., 1954, Seattle University; M.F.A., 1964, University of Washington.

James Robert Larson, Ph.D. (1952)†

Professor of Sociology A.B., 1949, Seattle University; Ph.D., 1958, University of Washington.

Albert A. Lemieux, S.J., Ph.D. (1948; 1968)

Professor of Philosophy B.A., 1931, M.A., 1932, Gonzaga University; S.T.L., 1939, Alma College; Ph.D., 1945, University of Toronto.

James A. LePenske, Jr., Capt., M.P.S. (1976)

Assistant Professor of Military Science B.S., 1970, Troy State University; M.P.S., 1975, Western Kentucky University.

William F. LeRoux, S.J., M.A., S.T.D. (1958)

Acting Dean, College of Arts and Sciences Professor of Theology and Religious Studies B.A., 1946, M.A., 1947, Gonzaga University; S.T.L., 1954, Alma College; S.T.D., 1959, Gregorian.

Francis J. Lindekugel, S.J., M.A., S.T.L. (1946)†

Professor Emeritus

A.B., 1937, M.A., 1938, Gonzaga University; S.T.L., 1945, Alma College.

Francis A. Logan, S.J., M.A. (1939)

Professor Emeritus

A.B., 1925, M.A., 1926, Gonzaga University; Diplome, 1955, de l'Institut de Phonetique de l'Universite de Paris.

Reba Y. Lucey, M.Ed. (1969)

Associate Professor of Physical Education B.S., 1949, M.Ed., 1957, Sam Houston State Teachers College.

Kenneth D. MacLean, M.A. (1961)†

Associate Professor of English B.A., 1952, M.A., 1957, University of Washington.

Harry Majors, Jr., M.S. (1958)

Chairman, Mechanical Engineering
Professor Emeritus

B.S., 1935, University of California; M.S., 1939, California Institute of Technology; Registered Professional Engineer.

Donald C. Malins, Ph.D. (1971)

Research Professor of Chemistry B.A., 1953, University of Washington; B.S., 1956, Seattle University; Ph.D., 1967, University of Aberdeen.

Leonard B. Mandelbaum, Ph.D. (1973)†

Director, Institute of Public Service Associate Professor of Business B.A., 1954, Washington Square College; J.D., 1957, Yale Law School; M.A. 1966, Ph.D., 1974, American University.

Albert B. Mann, M.A. (1960)†

Associate Professor of History A.B., 1951, Gonzaga University; M.A., 1957, University of Washington.

R. Maxime Marinoni, Ph.D. (1964)†

Chairman, Foreign Languages Associate Professor of French Licence, 1961, Universite de Grenoble; M.A., 1965, Ph.D., 1975, University of Washington.

Karla J. Marken, M.A. (1975)

Instructor in Education
Director, Montessori Teacher Training

B.A., 1961, Hamline University; M.A., 1975, Seattle University.

David D. McCloskey, Ph.D. (1971; 1975; 1977)

Assistant Professor of Sociology B.S., 1968, University of Oregon; M.A., 1970, Ph.D., 1975, New School—Social Research.

Alexander F. McDonald, S.J., M.A. (Oxon) (1969)†

Chairman, English Department Associate Professor of English

M.A., 1941, Gonzaga University; M.A., 1942, University of Detroit; S.T.L., 1948, Alma College; M.A., 1952, Oxford University.

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Alumni

Executive Director of Alumni Relations

Athletic Program

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Campus Ministry

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Career Planning, Placement, and job finding assistance

Director of Career Planning and Placement

Continuing Education

Director of Continuing Education

Correspondence relating to the general interest of the University

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Director, Counseling and Testing Center Curriculum, scholastic problems, degree programs

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Registrar

Graduate Study

Dean, Graduate School

Jesuit Faculty Residence

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Minority Students

Director of Minority Student Affairs

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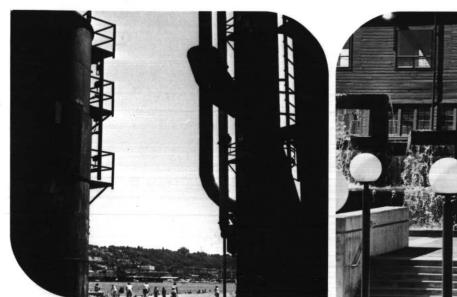
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