

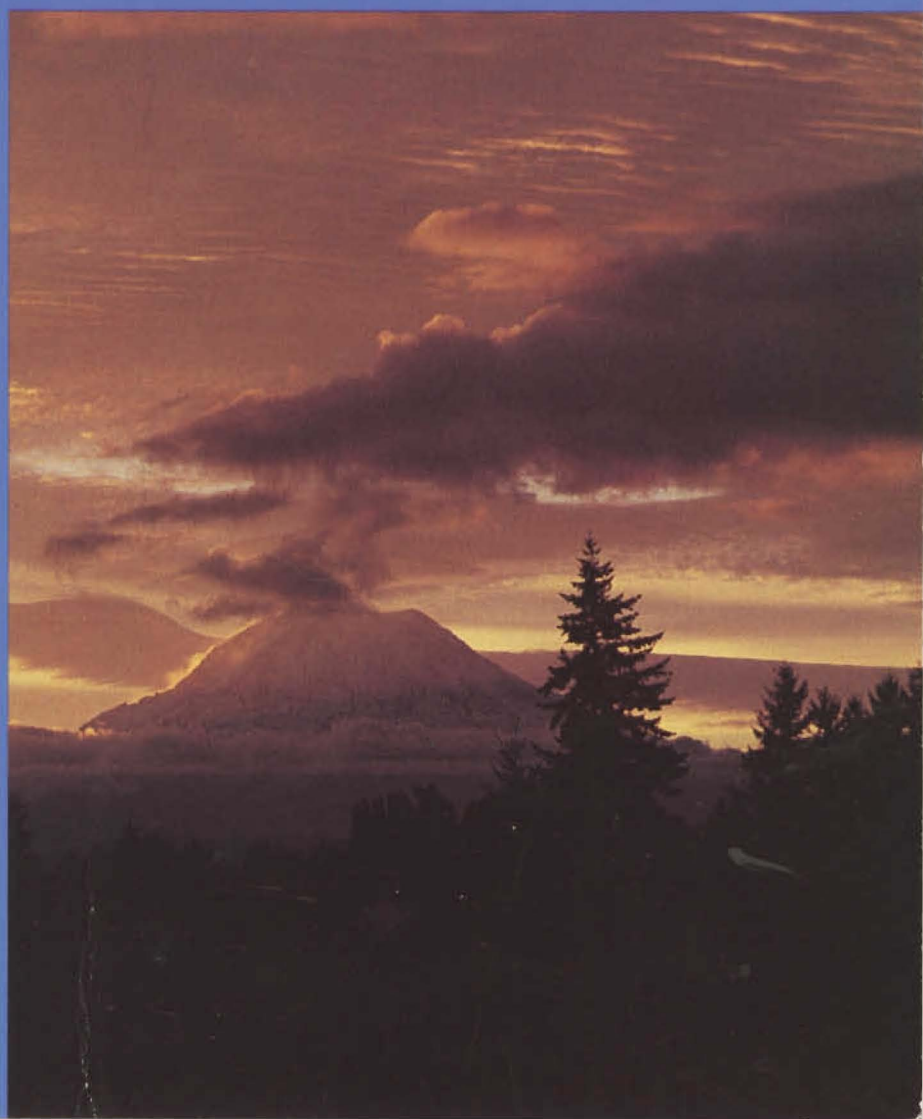


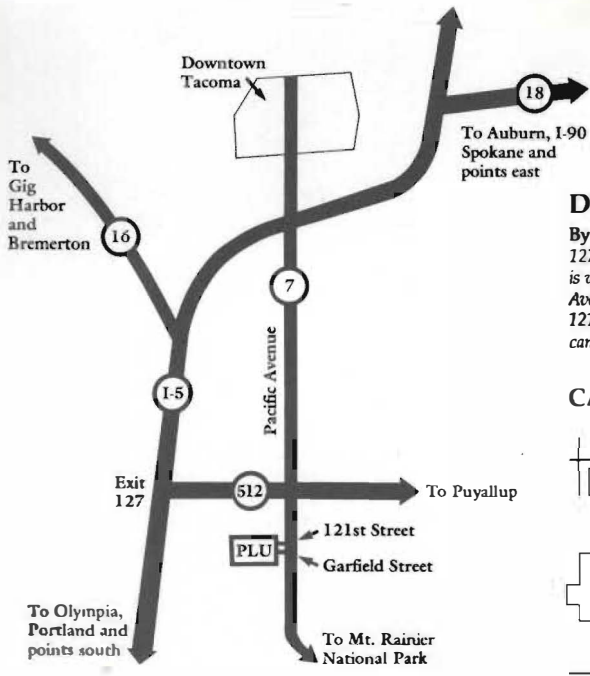
PACIFIC LUTHERAN UNIVERSITY

Tacoma, WA

# CATALOG

## *Graduate Programs*

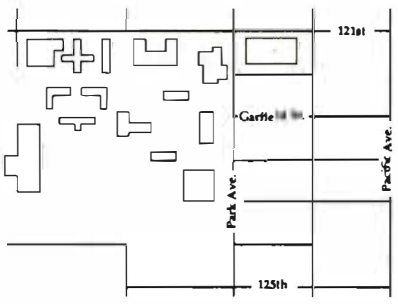




**DIRECTIONS TO PLU**

*By Auto: (Refer to area map) From Interstate 5 exit 127 (Puyallup/Mount Rainier), the route to campus is well-marked. From I-5 travel east on #512 to Pacific Avenue (Parkland/Mount Rainier exit), then south to 121st St. or Garfield St. (about 12 blocks). The campus is two blocks west of Pacific Avenue.*

**CAMPUS**



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PACIFIC LUTHERAN UNIVERSITY  
Tacoma, WA

*Graduate Programs*  
**CATALOG**

Pacific Lutheran University does not discriminate on the basis of sex, race, creed, color, national origin, age or handicapped condition in the education programs or activities which it operates and is required by Title IX of the Education amendments of 1972 and the regulations adopted pursuant thereto, by Title VI and Title VII of the Civil Rights Act of 1974, and by Section 504 of the Rehabilitation Act of 1973 not to discriminate in such a manner. The requirement not to discriminate in educational programs and activities extends to employment therein and to admission thereto. Inquiries concerning the application of said Title IX and published regulations to the University may be referred to the University's Equal Employment Opportunity officers or to the Family Education Rights and Privacy Office, Department of Education, 330 Independence Avenue S.W., Washington, D.C. 20201 (telephone 201/245-0233). Pacific Lutheran University complies with the Family Education Rights and Privacy Act of 1974.

In keeping with its Statement of Objectives and in compliance with federal law, Pacific Lutheran University explicitly forbids and will not tolerate any conduct by employed personnel or by students that is culpable under the generic legal term, sexual harassment.

Sexual harassment in this context is understood as any sex-oriented or sex-related behavior, whether in action or in speech, that is unwelcome to the person who is the object of such behavior. Tacit acceptance of such behavior does not imply proof that it was welcome to the recipient.

In an employment context, sexual harassment as here understood may also be culpable as legally prohibited sexual discrimination and hence subject to all relevant legal sanctions that pertain to such prohibited misconduct as well as to those sanctions that pertain specifically to sexual harassment.

Any form of reprisal, actual or by implication potential, whether academic or related to employment, is an aggravation of the prohibited behavior and will be construed as evidence of culpability.

Since individuals are not all equally sensitive to how others may perceive or interpret behavior that is sex-oriented or sex-related—even when no harassment is intended—anyone who finds such behavior offensive or unwelcome is herewith strongly encouraged to inform the person responsible and to do so promptly, lest silence be mistakenly understood as consent.

Complaints regarding sexual harassment will be received, promptly investigated, and vigorously pursued to whatever final resolution may be appropriate. Such complaints may be made to the immediate supervisor of the alleged offender, or to a higher level supervisor, or to the director of personnel, or to an appropriate university officer. Complaints regarding sexual harassment may be made by persons other than the apparent recipient. To the extent possible, complaints will be dealt with confidentially and with a view to protecting both the complainant and the person who is accused but may be found innocent.

The purpose of this policy is to preserve for all the university's students and employees an academic and working environment that is as conducive as possible to achieving our personal and institutional goals with integrity and good will.

The information contained herein reflects an accurate picture of Pacific Lutheran University at the time of publication. However, the university reserves the right to make necessary changes in procedures, policies, calendar, curriculum, and costs. Advising by university personnel inconsistent with published statements is not binding.



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# Academic Calendar

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## 1988-89

### FALL SEMESTER 1988

Saturday, September 3 to	
Monday, September 5 . . . . .	Orientation and registration
Tuesday, September 6 . . . . .	Classes begin, 8:00 a.m.; opening convocation, 10:30 a.m.
Friday, October 21 . . . . .	Applications for December and January graduation due; mid-semester break
Wednesday, November 23	Thanksgiving recess begins, 12:50 p.m.
Monday, November 28 . . . . .	Thanksgiving recess ends, 8:00 a.m.; theses and research papers for December graduates due in Office of Graduate Studies
Friday, December 9 . . . . .	Classes end, 6:00 p.m.
Saturday, December 10 . . . . .	Mid-year commencement
Monday, December 12 to	
Friday, December 16 . . . . .	Final examinations
Friday, December 16 . . . . .	Semester ends after last exam

### INTERIM 1989

Tuesday, January 3 . . . . .	Interim begins; theses and research papers for January graduates due in Office of Graduate Studies
Monday, January 16 . . . . .	Martin Luther King, Jr., Birthday holiday
Friday, January 27 . . . . .	Interim ends

### SPRING SEMESTER 1989

Tuesday, January 31 . . . . .	Registration
Wednesday, February 1 . . . . .	Classes begin, 8:00 a.m.
Monday, February 20 . . . . .	Presidents' Day holiday
Friday, March 10 . . . . .	Applications for May graduation due
Friday, March 17 . . . . .	Easter recess begins, 6:00 p.m.
Monday, March 27 . . . . .	Easter recess ends, 4:00 p.m.
Monday, May 1 . . . . .	Theses and research papers for May graduates due in Office of Graduate Studies
Friday, May 12 . . . . .	Classes end, 6:00 p.m.
Monday, May 15 to	
Friday, May 19 . . . . .	Final examinations
Friday, May 19 . . . . .	Semester ends after last exam
Sunday, May 21 . . . . .	Worship service and commencement



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# *Academic Calendar*

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## 1989-90

### SUMMER SESSION 1989

Monday, May 22 .....	Summer session begins
Monday, May 29 .....	Memorial Day holiday
Tuesday, July 4 .....	Fourth of July holiday
Friday, July 7 .....	Applications for August graduation due
Monday, July 31 .....	Theses and research papers for August graduates due in Office of Graduate Studies
Friday, August 18 .....	Summer session ends; commencement

### FALL SEMESTER 1989

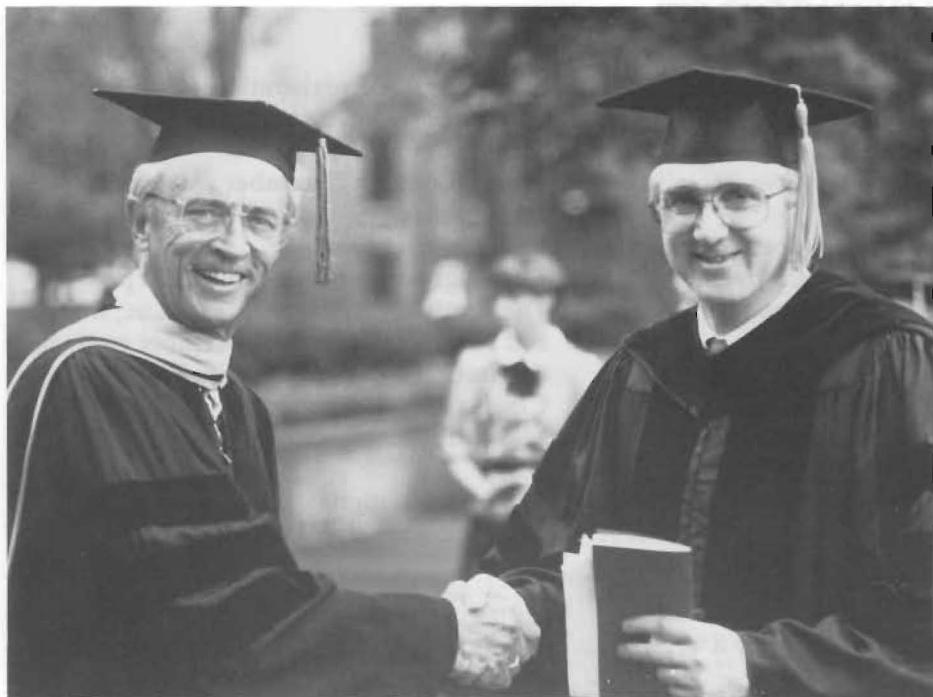
Saturday, September 9 to	
Monday, September 11 .....	Orientation and registration
Tuesday, September 12 .....	Classes begin, 8:00 a.m.; opening convocation, 10:00 a.m.
Friday, October 20 .....	Applications for December and January graduation due
Friday, October 27 .....	Mid-semester break
Wednesday, November 22	Thanksgiving recess begins, 12:50 p.m.
Monday, November 27 .....	Thanksgiving recess ends, 8:00 a.m.; theses and research papers for December graduates due in Office of Graduate Studies
Friday, December 15 .....	Classes end, 6:00 p.m.
Saturday, December 16 .....	Mid-year commencement
Monday, December 18 to	
Friday, December 22 .....	Final examinations
Friday, December 22 .....	Semester ends after last exam

### INTERIM 1990

Monday, January 8 .....	Interim begins; theses and research papers for January graduates due in Office of Graduate Studies
Monday, January 15 .....	Martin Luther King, Jr., Birthday holiday
Friday, February 2 .....	Interim ends

**SPRING SEMESTER 1990**

Tuesday, February 6 . . . . .	<b>Registration</b>
Wednesday, February 7 . . . . .	<b>Classes begin, 8:00 a.m.</b>
Monday, February 19 . . . . .	<b>Presidents' Day holiday</b>
Wednesday, February 21 . . . . .	<b>Applications for May graduation due</b>
Friday, March 16 . . . . .	<b>Mid-semester break</b>
Friday, April 6 . . . . .	<b>Easter recess begins, 6:00 p.m.</b>
Monday, April 16 . . . . .	<b>Easter recess ends, 4:00 p.m.</b>
Monday, April 30 . . . . .	<b>Theses and research papers for May graduates due in Office of Graduate Studies</b>
Friday, May 18 . . . . .	<b>Classes end, 6:00 p.m.</b>
Monday, May 21 to	
Friday, May 25 . . . . .	<b>Final examinations</b>
Friday, May 25 . . . . .	<b>Semester ends after last exam</b>
Sunday, May 27 . . . . .	<b>Worship service and commencement</b>



*Richard D. Moe, Dean of the Arts and Summer School, and David M. Atkinson, Dean of Graduate Studies and Continuing Education.*

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# General Information

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## THE UNIVERSITY

Pacific Lutheran University was founded in 1890 as an academy and became a junior college in 1921. Ten years later, it was organized into a three-year normal school, which became a college of education in 1939. In 1941, it assumed the role of a college of liberal arts. It was known as Pacific Lutheran College until 1960, when it was reorganized as Pacific Lutheran University.

Located in Parkland, a suburb of Tacoma and less than an hour from downtown Seattle, the 126-acre campus is truly representative of the natural grandeur of the Pacific Northwest.

There are approximately 225 full-time faculty and nearly 75 part-time PLU faculty members. The student/faculty ratio is 15.3 to 1.

Enrollment each semester is about 3,800 students. Graduate enrollment usually consists of 500 part-time and 50 to 60 full-time students. While the majority of the students come from the state of Washington, over 40 states and several foreign countries are represented. Because most graduate programs may be completed on a part-time basis in the evenings, the majority of the graduate student body is comprised of adults with daytime commitments.

## THE ACADEMIC PROGRAM

Requirements for master's degrees from Pacific Lutheran University are specifically stated in this catalog. The prospective student should become familiar with these requirements and prepare to meet them. It is each student's responsibility to know the requirements and deadlines for his or her degree.

The university's academic structure is comprised of the following major instructional units: the College of Arts and Sciences with divisions of Humanities, Natural Sciences, and Social Sciences; School of the Arts; School of Business Administration; School of Education; School of Nursing; and School of Physical Education.

## MASTER'S DEGREES OFFERED

The *Master of Business Administration* program enhances the managerial effectiveness of leaders in business, government, and nonprofit organizations. Individuals of all educational and working backgrounds are encouraged to apply.

The *Master of Arts in Computer Applications* program is designed for students from the physical and social sciences or business who would like to pursue advanced study in a related field in addition to studies in computer science.

The *Master of Science in Computer Science* program offers advanced study and experience in computer science for those who plan to work in that field.

The *Master of Arts in Education* meets the needs of educators by offering six concentrations.

The Classroom Teaching concentration provides advanced preparation in subject matter and professional education for elementary and secondary classroom teachers.

Counseling and Guidance prepares practitioners for work as professional counselors in elementary schools, secondary schools, colleges, and mental health or related agencies.

Educational Administration is designed to prepare elementary and secondary school principals and program administrators. (Students not seeking to qualify for a principal's credential may also elect to concentrate in this field.)

Educational Psychology is intended to assist school personnel to deal with contemporary problems within the school system and our society.

The Reading concentration allows interested and qualified persons the opportunities to enhance and expand their abilities in the area of reading education. Persons completing the program will be qualified to work with children in developmental, correctional, and remedial learning situations.

Special Education seeks to expand the qualifications of persons who serve handicapped children and youth in a variety of educational or rehabilitative settings. Some of these roles and settings might include self-contained and resource room teachers, special education consultants, support personnel, or coordinators.

The *Master of Arts in Music* program is intended for qualified students who desire to broaden and deepen their musical knowledge.

The *Master of Arts in Social Sciences* program has three concentrations.

Marriage and Family Therapy is designed to develop professional skills and clinical competence by means of a systems approach to family therapy with a rigorous practicum component.

Organizational Systems is for students who wish to become more effective in dealing with problems facing complex organizations by focusing on a social sciences approach to organizational theory, behavior, and change.

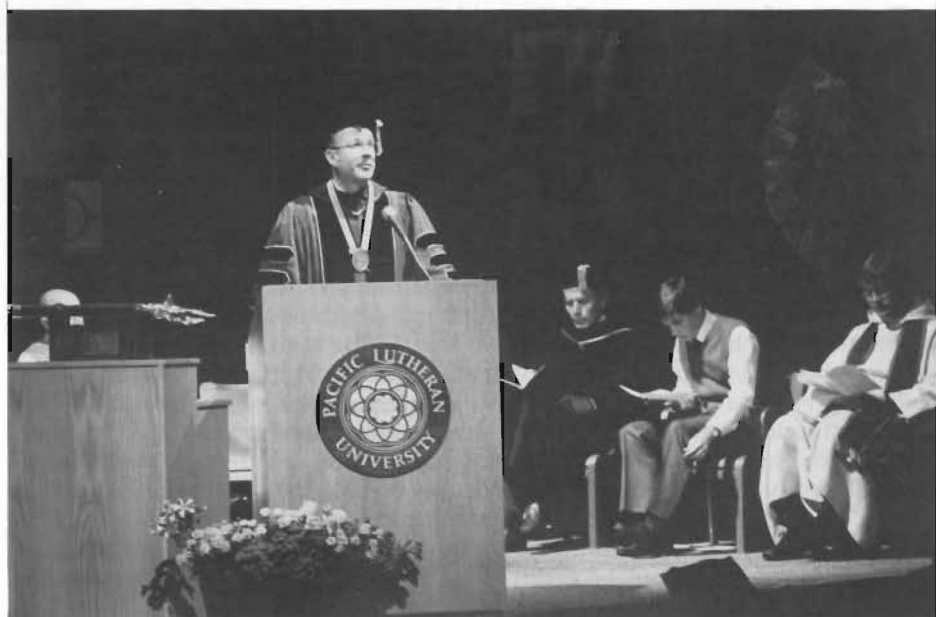
Individualized Study allows students to increase their knowledge base in several of the social sciences around a special area of interest.

## ACADEMIC YEAR

Pacific Lutheran University offers a 4-1-4 calendar that consists of two fourteen-week semesters bridged by a four-week interim period in January.

## SUMMER SCHOOL

Pacific Lutheran University schedules terms of varying length during the summer. The summer school typically is a time when experimental courses are readily available and degree requirements can be fulfilled through short-term day or evening courses. Graduate students may enroll for a maximum of six semester hours per session.



*President William O. Rieke.*

## ACCREDITATIONS/INSTITUTIONAL MEMBERSHIPS

Pacific Lutheran University is fully accredited by the Northwest Association of Schools and Colleges. It holds professional accreditation from the following bodies:

- American Assembly of Collegiate Schools of Business
- American Chemical Society
- Council on Social Work Education
- National Association of Schools of Music
- National Council for the Accreditation of Teacher Education
- National League for Nursing

Any current or prospective student may, upon request directed to the president's office, review a copy of the documents pertaining to the university's various accreditations and approvals.

The university holds membership in the following organizations:

- American Association for Higher Education
- American Council on Education
- Independent Colleges of Washington, Incorporated
- Lutheran Educational Conference of North America
- North American Association of Summer Schools
- Washington Friends of Higher Education
- Washington State Arts Alliance
- Western Association of Graduate Schools
- Western Interstate Commission for Higher Education

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# *Graduate Studies*

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## **OBJECTIVES**

The Office of Graduate Studies coordinates and integrates the work of the schools and departments that provide graduate level instruction. Its general purpose is to further the basic objectives of the university by providing graduate level academic and professional degree programs. Specific objectives are: (1) to increase the breadth and depth of understanding of graduate students in the liberal arts; (2) to increase students' knowledge of research being done in their field of concentration; (3) to increase students' ability to read the professional journals in interest areas; (4) to develop students' abilities to do independent study and research; and (5) to prepare students to enter into a vocation directly, or to enter other graduate schools for further advanced study leading to a doctoral degree.

## **ADMISSION**

Students seeking admission to any graduate program must hold a bachelor's degree from an accredited college or university. A cumulative undergraduate grade point average of at least 3.0 (on a 4.0 scale) is required for admission as a regular status graduate student. Those students with an average of less than 3.0 will not be considered for admission to regular status until they have demonstrated their ability to do graduate work by completing a minimum of twelve semester hours of work with a grade point average of at least 3.0. These students may be granted provisional status. Applicants already holding graduate degrees or students who have done satisfactory graduate work at other institutions may be admitted to regular status.

All application evaluations are based on scholastic qualifications, letters of recommendation, and preparation in the proposed field of study. Some graduate programs may also require autobiographical statements, personal interviews, standardized tests, or other evidence of professional accomplishment. Graduate Catalog listings for each program detail these additional admission requirements. The dean of graduate studies or the prospective division or school may deny admission if applicants' scholastic records are undistinguished, if preparation is judged inadequate as a foundation for graduate work, or if the programs are already filled to capacity.

Students applying for admission to graduate study must submit a completed application form (available in the back of this catalog or from the Office of Graduate Studies) and a nonrefundable application fee of \$35.00. Applicants must request from each previously attended institution of higher learning (undergraduate and graduate) an official transcript to be sent by the institution directly to the Office of Graduate Studies at PLU.

Further supporting evidence in the form of personal recommendations are required from those persons named by the applicant on the application form. (Recommendation forms are included in the back of the Graduate Catalog.) Applicants are encouraged to submit their applications at least three months before the semester in which they wish to enroll.

In summary, the following items must be on file in the Office of Graduate Studies before an applicant will be considered for admission:

1. The completed application form with attached statement of professional and educational goals.
2. The \$35.00 nonrefundable application fee.
3. An official transcript from each institution of higher learning attended. All transcripts must be sent directly to the Office of Graduate Studies at PLU from the institution providing the transcript.
4. Two recommendations.
5. TOEFL test scores for all international students (see international student section for details).
6. Additionally, specific programs require the following:
  - Master of Business Administration: GMAT score.
  - Master of Arts in Education: MAT score for all concentrations except Counseling and Guidance, which requires a CPI score; personal interview with program director.
  - Master of Arts in Music: evidence of musical accomplishment; Department of Music entrance examination.
  - Master of Arts in Computer Applications and Master of Science in Computer Science: GRE score.
  - Master of Arts in Social Sciences: autobiographical statement for the Marriage and Family Therapy concentration; personal interview for the Marriage and Family Therapy and Individualized Study concentrations.

Please contact the Counseling and Testing Office at (206) 535-7206 for information on the GMAT, the MAT, the GRE, and the CPI.

All records become part of the applicant's official file and can be neither returned nor duplicated for any purpose.

An offer of admission is good for two years. Students who have not enrolled in any coursework for two years after their admission date must reapply.

## IMMUNIZATION

All students are required to provide the university's Health Center with documentation of their immunizations for measles, mumps, rubella, polio, and DPT. Students born before January 1, 1957, must provide documentation only for the tetanus or tetanus-diphtheria (Td) booster shot within the last ten years. An immunization record form must be on file with the Health Center before a student is permitted to register.

Students with questions or concerns about the immunization policy should contact the Health Center at (206) 535-7337.

## POLICIES AND STANDARDS

### Interviewing of Applicants

Before admission to the graduate program, it is advisable for an applicant to seek an interview with the program director in the subject area of interest. In certain programs, a personal interview is a requirement of the application process. See specific program requirements for details.

### Classification of Students

A student may be admitted to a graduate program as a *regular*, *provisional*, or *conditional* student.

**Regular** — Those students approved unreservedly for admission to graduate study by their respective graduate committees are granted regular status.

An undergraduate grade point average of 3.0 or higher is required for regular status.

**Provisional** — In some programs, all newly admitted students are assigned provisional status until certain program prerequisites have been met.

Students who fail to qualify for regular status because of a minimally acceptable grade point average or insufficient academic background in their undergraduate work may be granted provisional status.

**Conditional** — Students who have applied for graduate school before completing their undergraduate work or who are otherwise not yet

adequately prepared for graduate study may be granted conditional acceptance. That is, acceptance may be conditional upon successful completion of the bachelor's degree or upon completion of specific prerequisites.

Although the student is accepted into the graduate program, work cannot begin until the conditions of acceptance have been met. However, a senior undergraduate student may be offered acceptance conditional upon successful graduation but still be allowed to take graduate classes before graduation. Conditional acceptance will not be granted to international students lacking adequate English skills.

**Nonmatriculated** — Students holding the bachelor's degree who wish to pursue course work with no intention of qualifying for an advanced degree at PLU are classified as nonmatriculated students.

### Change of Student Status

Student status will be changed *from provisional to regular* after the following conditions have been met: satisfactory fulfillment of course deficiencies; satisfactory completion of 12 semester hours of graduate work with a grade point average of 3.0 or better; or satisfactory completion of departmental or school requirements.

Student status will be changed *from nonmatriculated to regular/provisional* after the nonmatriculated student completes the normal application process and is accepted into a regular degree program. Credit earned during nonmatriculated classification may count toward a graduate degree, but only as recommended by the faculty advisory committee and approved by the dean of graduate studies after the student has been admitted to a degree program. No such credit can be counted that carries a grade lower than a B-.

Student status will be changed *from conditional to regular/provisional* after the conditions of acceptance have been met and evidence (transcripts, official



test scores, etc.) is in the student's file.

In all cases, a letter indicating change of status will be forwarded to the student, with a copy to the adviser and/or program director.

## International Students

Students from abroad are subject to all the requirements for admission established by the Office of Graduate Studies.

To allow ample time for visa and other departure procedures, the applicant should have his or her application and all supporting documents on file in the Office of Graduate Studies no less than four months before a proposed date of entry. The following documents are necessary BEFORE an application can be processed:

1. Formal application for admission with the \$35.00 nonrefundable application fee.
2. Complete official transcripts from all colleges attended.
3. Two letters of recommendation from school officials or persons of recognized standing. Applicants transferring from an American college or university should request their foreign student adviser to send a recommendation.
4. Demonstrated proficiency in the English language through attaining a minimum score of 550 on the Test of English as a Foreign Language (TOEFL) or a minimum of 85 on the written section and 85 on the oral section of the Michigan Test. Conditional acceptances will not be granted for international students lacking adequate English language skills.
5. Official scores from specific tests as required for certain programs or concentrations. See individual master's programs for particulars.

International students are required to submit a \$200.00 advance payment following an offer of admission. This payment is the student's acknowledgment of acceptance, and is credited to the student's account to be applied toward expenses of the first term of enrollment. If circumstances necessitate cancellation of enrollment and the Office of Graduate Studies is notified in writing thirty days in advance of the anticipated date of enrollment, the \$200.00 will be refunded.

An I-20 form will be issued only after all documents have been received, the application has been reviewed, the student has been offered admission and accepted, a Declaration and Certification of Finances received, and the \$200.00 advance payment has been received. Certification from banks and embassies is permissible. A financial statement form is available from the Office of Graduate Studies upon request. The I-20 form should be taken to the U.S. Consulate when requesting a visa to come to the United States for a graduate program. I-20 forms issued by the Office of Graduate Studies are for master's degree programs only and not for intensive English language study.

International students are required by immigration regulations to enroll as full-time students (a minimum of eight credit hours per semester). They are also required to have a physical examination and to submit the appropriate medical forms to the university's Health Center.

Before enrolling for classes, all international students are required to have health and medical insurance, which is obtained through the university after arrival on campus.

International graduate students must also report to the International Student Office, (206) 535-7194, upon registration for purposes of immigration and university record-keeping. This must be done at the time of registration (University Center, room 103).

### **Intensive English Language Institute**

The primary goal of the Intensive English Language Institute (IELI) at Pacific Lutheran University is to prepare students from abroad for successful academic careers at American colleges and universities by providing them with a strong background in English and academic study skills. Since IELI is authorized to grant I-20s, students need not be admitted to a U.S. university while studying in this program.

For further information, call (206) 535-7325, or write to IELI, Pacific Lutheran University, Tacoma, Washington 98447-0003.

### **Faculty Advising**

Upon admission each student will be assigned a faculty adviser responsible for assisting the student in determining a program of study. When appropriate, the adviser will chair the student's advisory committee. Students are encouraged to meet with their advisers early in their programs.

### **Hours Required for the Master's Degree**

A minimum of 32 semester hours is required. Individual programs may require more than the minimum number of semester hours, depending upon prior preparation and specific degree requirements. Any prerequisite courses taken during the graduate program shall not count toward fulfillment of graduate degree requirements.

### **Transfer of Credit**

Graduate work from another institution may be accepted for transfer upon petition by the student and approval by the program director and dean of graduate studies. Eight semester hours may be transferable to a 32-semester hour program. All courses accepted for transfer credit will be transcribed as "Pass."

In degree programs requiring work beyond 32 semester hours, more than eight semester hours may be transferred. In any case, the student must

### **Time Limit**

All requirements for the master's degree, including credit earned before admission, must be completed within seven years. The seven-year limit covers all courses applied to the master's degree, credit transferred from another institution, comprehensive examination, research, and final oral examination. The seven-year limit begins with the beginning date of the first course applicable to the graduate degree.

### **Residence Requirement**

All candidates for the master's degree must complete a minimum of 24 semester hours in residence at Pacific Lutheran University.

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complete at least 24 semester hours of the degree program at Pacific Lutheran University.

### **Courses Taken on a Pass-Fail Basis**

If approved by the adviser, a graduate student's program may include a course offered for pass-fail credit only. In courses where students may elect a letter grade or the pass-fail option, graduate students must opt for the letter grade.

### **Courses Acceptable for Graduate Credit**

All courses numbered at the 500-level are graduate courses and their descriptions are included in this catalog. In some graduate programs, a limited number of 300-level and 400-level courses may be accepted for graduate credit. (Course descriptions for all courses offered in the university's regularly approved curricula and programs appear in the general university catalog.) All courses accepted for the master's degree are subject to the approval of the program director and dean of graduate studies.

### **Graduate Credit for Seniors**

If, during the last semester of the senior year, a candidate for a baccalaureate degree finds it possible to complete all degree requirements with a registration of fewer than 16 semester hours of undergraduate credit, registration for graduate credit is permissible. However, the total registration for undergraduate requirements and elective graduate credit shall not exceed 16 semester hours during the semester. A memorandum stating that all baccalaureate requirements are being met during the current semester must be signed by the appropriate department chair or school dean and presented to the dean of graduate studies at the time of such registration. This registration does not apply toward a higher degree unless it is later approved by the student's adviser and/or advisory committee.

### **Petition**

It is the student's responsibility to formally petition the dean of graduate studies for transfer credit, change of program or adviser, or any exception to policy. Petitions are available in the Office of Graduate Studies.

### **Standards of Work**

The minimum standard acceptable for the master's degree is a grade point average of 3.0 in the major field and an overall average of 3.0 in all graduate work. Graduate level credit cannot be given for any class in which the grade earned is lower than a C-.

A student whose grade point average falls below 3.0 is subject to being dismissed from the program. In such instances, the recommendation for dismissal or continuance is made by the student's advisory committee.

### **Academic Probation**

A student pursuing the master's degree who fails to maintain a cumulative grade point average of 3.0 in courses applicable to the degree may be placed on academic probation. When such action is taken, the student will be notified by letter from the Office of Graduate Studies. A graduate student on probation who fails to attain a cumulative grade point

average of 3.0 in the next term of enrollment may be dismissed from the program.

## Thesis and Research Requirements

As an important part of the master's program, the student is required to provide evidence of ability to do independent research. Details regarding this requirement are provided in subsequent sections of this catalog that describe each master's degree program.

Graduate policy requires that all students who fulfill the research requirement by writing a thesis must submit their original thesis copy for binding and microfilming by University Microfilms of Ann Arbor, Michigan. In addition, an abstract of 150 words or less must be submitted for publication in Masters Abstracts. The fee for microfilming, publishing the abstract, and binding the original thesis for the permanent PLU library collection is to be paid by the student. The fee (subject to change) is \$43.00.

If the research requirement is fulfilled by writing a paper other than a thesis, one original copy must be submitted to the Office of Graduate Studies with an abstract of 150 words or less. Research papers will be microfilmed at PLU and placed in the PLU library collection. The microfilming fee is \$10.00.

All work that is submitted as having fulfilled the research requirement must be in the Office of the Graduate Studies not later than three weeks before the commencement at which the student is to receive the degree.

All research papers and theses presented to the Office of Graduate Studies must be clean, error-free, and in the proper format. Details regarding format and style are available from the Office of Graduate Studies.



## Examinations

Written comprehensive examinations and/or oral examinations are required in all graduate programs except the Master of Business Administration program. Procedures for these examinations vary for the different programs. Where applicable, these examinations over the student's program of studies are conducted under the direction of the major adviser and/or the student's advisory committee and normally will be scheduled no later than the last Saturday of March, June, or October. In any case, the final written comprehensive examination must be passed no later than four weeks before commencement. The oral examination over the thesis or research is conducted under the direction of the student's advisory committee and must be completed successfully no later than three weeks before commencement.

## Graduation

All courses must be completed, examinations passed, and thesis/research requirements fulfilled in order to qualify for graduation. Graduate students must apply for graduation by the beginning of the semester in which they are planning to graduate. Application dates are listed in the academic calendar in the front of this catalog. Application forms are available in the Registrar's Office. Students planning to take part in commencement exercises must also file a cap and gown order form and pay a \$7.00 hood rental fee (subject to change).

## RESPONSIBILITIES AND DEADLINES

It is the responsibility of each graduate student to know and follow the procedures of the Graduate Catalog and to abide by established deadlines. See individual master's programs and concentrations for specific degree requirements.

- Upon acceptance, meet with the assigned adviser as soon as possible to establish the program of study.
- Register for thesis or research paper if required. Deadline: the last acceptable registration date is the semester in which the student expects to receive his or her degree.
- Apply for graduation. File the application for graduation form and the cap and gown rental form, and pay the hood rental fee. Deadline: see academic calendar in this catalog for specific date. NOTE: If a student fails to complete the necessary requirements for graduation, the application for graduation will not automatically be forwarded to the next commencement date. The student must make a second application.
- Take comprehensive written and/or oral examinations under the direction of the major adviser or advisory committee. Deadline: no later than four weeks before commencement.
- Submit completed thesis or research paper to the Office of Graduate Studies. At this time the binding/microfilming fee must be paid. Deadline: see academic calendar in this catalog for specific date. NOTE: The thesis/research paper(s) must be signed by the major adviser and have been read by the entire committee before submission to the Office of Graduate Studies.



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# *Services and Enrollment Information*

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## CAMPUS SERVICES

### Library

The Robert A.L. Mortvedt Library is the central multi-media learning resource center serving the entire university community. Its collections are housed and services provided in a modern functional building that has study spaces for 850 students and shelving for more than 400,000 books, periodicals, microfilm, and audio-visual materials. The library receives over 1,500 current magazines, journals, and newspapers.

In addition to its general collection of books and other materials, the library has a special collection devoted to the Scandinavian Immigrant Experience and contains the university and regional Lutheran church archives. Other special collections include the Curriculum Collection of the School of Education, the microfiche collection of college catalogs, maps, pamphlets, and national and trade bibliographies.

The library is open for service 110 hours during a typical week in a regular term. A staff of twenty-seven full- and part-time librarians and assistants offers expert reference, information, and media services. The reference staff also provides beginning and advanced library instruction for all students. In addition to standard reference service, the library staff offers a computerized bibliographic information service. As a result of the library's extensive collection of bibliographic tools, computer access to other collections, and electronic mail service, students and faculty have rapid access to materials that can be borrowed from other libraries.

All registered students have the privilege of a library card. Admitted graduate students who are not currently enrolled may obtain a free temporary library card and thus have complete access to the library for one semester. If not enrolled for more than one semester, library use is possible, but only upon payment of a standard library fee of \$20 per semester.

### Computer Center

The Computer Center's offices are located in the southeast corner of the lower floor of Mortvedt Library. The facility houses a VAX 6210, 6220 Cluster. Two large academic user rooms provide access to the VAX system and to IBM-PCs and PC-compatibles. The user rooms, open seven days a week, are staffed by consultants who assist students in using the equipment. There is a charge (billed monthly) for use of the university's computer systems.

A variety of software programs are available for the VAX and IBM systems. Well-known programming languages can be used on both types of hardware. The university has adopted standard PC software for word processing, spread sheets, data bases, and statistics.



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The Computer Center offers a wide range of services, including free “how to” workshops. Information is available at the Computer Center regarding available workshops, the current software standards, the current charging schedule, and the use of computer facilities.

The Computer Center’s main offices are open from 8:00 a.m. until 5:00 p.m. during normal university hours.

## **Activities**

All graduate students are welcome and invited to participate in the activities and services of the university. There are over 50 academic and non-academic organizations, clubs, societies, and interest groups that testify to the diversity of campus extracurricular life. Social action, religious, and political organizations; interest and sporting clubs; and service, professional, and academic societies are among the options from which to choose.

Aesthetic appreciation is available both to participant and audience by way of music and the visual and performing arts. The Choir of the West, Choral Union, University Chorale, Concert Band, the University Symphony Orchestra, a renowned collegiate stage, two art galleries, faculty and student recitals, the Regency Concert Series, and the Artist Series provide generous opportunities for performing students.

Organized and individual physical activities are available for everyone. Recreational and competitive programs include football, cross country, basketball, swimming, fitness, hiking, climbing, volleyball, tennis, golf, wrestling, paddleball, bowling, softball, badminton, field hockey, track and field, water polo, skiing, and rowing.

## **Office of Student Life**

The university recognizes its obligation to provide services and facilities that complement the academic environment for all students. The Office of Student Life coordinates activities and programs by using student involvement and leadership. The office is responsible for programs in the residence halls, orienting new students, assisting foreign students, advising student government, advising minority students, and coordinating student activities. Health care and personal counseling are available as well as assistance with career planning and student employment. Whatever the area of interest or concern, the Student Life staff is ready to offer individual attention.

Since most graduate students have daytime career or family commitments, the Adult Student Office maintains office hours until 6:00 p.m., Mondays through Thursdays. Peer counselors are available to discuss problems specific to adult students.

For further information regarding special student services, campus facilities, and residence halls, please refer to the general catalog or call the Office of Student Life at (206) 535-7191.

## **University Center**

The University Center houses food service facilities, lounges, game rooms, meeting rooms, the bookstore, bowling alleys, the Chris Knutzen Fellowship Hall, student government offices, a coffee shop, and a student operated coffeehouse (The Cave). Additional offices in the University Center include



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Minority, International, Commuter, and Adult Student Programs, Campus Ministry, the Information Desk, and the Office for Student Activities.

## **Health Center**

The Health Center houses offices for the university's medical staff, wellness programs, out-patient treatment, and beds for day patients.

## **Campus Ministry**

Chapel worship is held Monday, Wednesday, and Friday mornings at 10:00 a.m. during fall and spring semesters in Trinity Lutheran Church for all who wish to participate. University Congregation meets each Sunday and employs several different liturgical styles for worship. Pastoral counseling is available as well as a variety of study opportunities. The Campus Ministry Office is located in the University Center across from the coffee shop.

## **Parking**

Students may obtain a parking permit at no charge from the Office of Campus Safety in the basement of Harstad Hall.

## **Evening Student Services**

Recognizing that most graduate students live and work off-campus and have daytime commitments during PLU's regular office hours, the university provides an evening student services coordinator. Located in the Registrar's Office (Administration Building, room 102), the evening student services coordinator provides assistance with registration, transcripts, admissions, veterans' concerns, ID card validation, business office transactions (tuition payments, parking fines, fees), and liaison between students and other offices (e.g., bookstore). Unless otherwise announced, the evening student services office is open Monday through Thursday until 8:00 p.m.

The Adult Student Office in the University Center is also open Mondays through Thursdays until 6:00 p.m.

## **Evening Escort Service**

Evening students whose cars are parked within four blocks of the campus may call Campus Safety (535-7441) and request an escort when returning to their cars.

## **Business Office**

The Business Office receives payments for tuition and fees and handles all arrangements for billing. With a valid student ID card, the Business Office will cash personal checks. Cashier windows are open Monday through Friday from 8:00 a.m. to 4:00 p.m. The Business Office is open from 8:00 a.m. to 5:00 p.m., but will arrange for individual appointments after regular business hours if necessary.

## COSTS/TUITION

Tuition charges for graduate students are determined by the number of semester hours for which a student registers and are based on a semester hour rate.

Tuition per semester hour for 1988-89 .....	\$275.00
Room and board costs, fees for audit, private lessons, late registration, credit by examination, and the like are listed in the general university catalog.	
Thesis binding/microfilming (subject to change) .....	\$43.00
Research paper or project microfilming .....	\$10.00
Hood rental for commencement (subject to change) .....	\$ 7.00

## FINANCIAL AID

Financial assistance for graduate students is available through Pacific Lutheran University in the form of Guaranteed Student Loans (GSL), graduate assistantships, and residence hall director positions. The maximum GSL loan is \$7,500 per year, based on need. In addition, students may be eligible for a PLUS loan to a maximum of \$3,000. Students must be admitted to a graduate program before a loan can be granted. Applications may be obtained from the Financial Aid Office, (206) 535-7161. Students seeking a Master of Arts in Social Sciences may apply for scholarships offered by the Division of Social Sciences.

A limited number of graduate assistantships are available. A student interested in a graduate assistantship should contact the schools or departments in which one feels able to make the greatest contribution.

Graduate students are preferred for the hall director positions available at Pacific Lutheran University. Qualifications include demonstrated residential life leadership experience, recent experience with and knowledge of college-age adults, and interest in developing creative programs of residential education. Each hall director is responsible for one residence hall. They supervise student staff members, advise student government, serve as counselors and advisers to students, discharge administrative responsibilities, promote educational, cultural, and social programs, and serve on various university committees.

First-year hall directors receive a one-bedroom apartment, board (for spouse also), a salary for nine months, and a waiver of tuition for up to 20 semester hours per year (fall, spring, and summer).

Interviewing begins in March for the following academic year, and initial appointments are made by May 1. It is suggested that applicants for hall director positions be accepted into a PLU graduate program by March 15. Applications and further information are available from the Director for Residential Life, Pacific Lutheran University, Tacoma, WA 98447, or by calling (206) 535-7200.



## **REGISTRAR'S SERVICES**

The Registrar's Office conducts registration, records grades, provides transcripts, and administers Veterans Administration benefits. PLU identification cards are issued by the Registrar's Office and the evening student services coordinator is housed in this office.

### **Registering for Classes**

Registration forms and Drop/Add forms are available from the Registrar's Office. Students may add or drop a class with full refund during the first two weeks after a class has begun during the regular academic year.

### **Transcripts**

Transcripts of academic work completed at PLU are available at no charge from the Registrar's Office. Applicants for admission must request official transcripts of work from other institutions directly from those institutions. Official transcripts from other institutions will not be released or copied by PLU.

### **Veterans' Affairs**

Pacific Lutheran University has been approved as one of the qualified institutions that veterans may attend and receive benefits. Veterans, widows, and children of deceased veterans who wish to inquire about their eligibility for benefits should contact the regional office of the Veterans Administration, Federal Building, 915 Second Avenue, Seattle, WA 98174.

Students should gain admission to a graduate program before making application for benefits. Students will not receive benefits unless they are admitted into a program. Students are encouraged to register at the university's Veterans' Affairs Office before each term to ensure continuous receipt of benefits.

# *Business Administration*

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## *Master of Business Administration*

**Gundar J. King, Ph.D.**, Dean, School of Business Administration

**Laura J. Polcyn, Ed.D.**, Assistant Dean and Director of the M.B.A. Program,  
(206) 535-7250

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### **POLICIES AND STANDARDS**

#### **Purpose**

The M.B.A. program is centered on the skills and knowledge required for professional management, providing a strong foundation for responsible leadership in business, government, and nonprofit organizations. Courses are taught in the evening in order to serve the working community. Although the majority of students attend part-time while working, those interested in full-time study are encouraged to apply. The classroom environment is enhanced by a balance of full- and part-time students, as well as students from a variety of backgrounds.

#### **Admission**

Students who hold bachelor's degrees in any field from accredited universities or colleges and who have demonstrated their ability or potential to do high quality academic work on a consistent basis are encouraged to apply for admission to the Master of Business Administration program.

Consultation about the program is available from the director of the M.B.A. program by calling (206) 535-7250 before filing the application for admission. Following notification of admission, students may begin studies at the beginning of any semester.

The application for admission, the application fee, transcripts, and supporting documents should be filed with the Office of Graduate Studies. Applications are accepted for courses beginning in September, January, February, June, or July. The evaluation process takes place only after all documents have been received. All applicants are required to submit scores from the Graduate Management Admission Test (GMAT) before taking graduate-level business classes.

To be admitted to the M.B.A. program, a student must meet all three of the following criteria:

1. a 2.5 cumulative grade point average in all college-level course work before application;
2. a score of at least 450 on the Graduate Management Admission Test (GMAT);
3. a formula score of at least 1,000, computed by multiplying the grade point average by 200 and adding that product to the GMAT score.

The Graduate Studies Committee of the School of Business Administration, in consultation with the dean of graduate studies, may deviate from the criteria stated above and recommend a number of deserving and promising students with unusual qualifications.

Final admission approval is determined by the dean of graduate studies in consultation with School of Business Administration Graduate Studies Committee.

### **The Graduate Management Admission Test**

The Graduate Management Admission Test (GMAT) is a test of aptitude rather than a test of business knowledge per se. The test is offered four times per year and may be taken at PLU. Candidates are examined in two major areas, verbal and quantitative, and a score is earned in each area. In addition, candidates receive a total score, which ranges between 200 and 800. The actual required score for an individual depends on the cumulative grade point average (see admission criteria).

Information and advice regarding the GMAT may be obtained from the director of the M.B.A. program in the School of Business Administration or the Counseling and Testing Center, (206) 535-7206.

### **Advising**

The director of the M.B.A. program advises all M.B.A. students. Enclosed with the candidate's letter of acceptance to the M.B.A. program is a copy of the progress chart that will be maintained in the School of Business Administration. Initially, the progress chart contains information on courses transferable for core course requirements and graduate courses taken at other institutions, when applicable. The director of the M.B.A. program should be contacted concerning course transfers and assistance in planning the student's remaining course work.

### **M.B.A. DEGREE REQUIREMENTS: 56 Semester Hours**

Individuals holding a recent bachelor's degree in business administration or the equivalent would normally have satisfied the preparatory course requirements and generally must take only the ten graduate-level courses (40 semester hours).



*Laura Polcyn, Assistant Dean and Director of the M.B.A. Program.*

In order to meet the requirements for the M.B.A. degree, at least six courses (24 semester hours) must be completed at PLU, with a cumulative grade point average of 3.0 or above. All specific subject requirements must be satisfied regardless of the number of courses taken. The meeting of specific graduate-level requirements by transfer or substitutions is subject to review and approval by the director of the M.B.A. program. The M.B.A. curriculum consists of the following components:

**Preparatory Core**

- ECON 500 Applied Statistical Analysis (4)
- BUSA 501 Fundamentals of Accounting and Finance (4)
- BUSA 502 Fundamentals of Management and Marketing (4)
- BUSA 505 Management Use of Computers (4)

**Analytical and Managerial Environment**

- ECON 504 Economic Analysis and Policy Decisions (4)
- ECON 543 Quantitative Methods (4)
- BUSA 582 Accounting Information and Control (4)
- BUSA 550 Organizational Behavior and Environment (4)

**Management of Business Functions**

- BUSA 551 Operations Management and Systems Seminar (4)
- BUSA 564 Financial Management Seminar (4)
- BUSA 570 Marketing Management Seminar (4)
- BUSA 555 Business Strategy and Policy (4)

**Elective/Research Alternatives**

Alternative 1: Completion of two graduate-level elective courses selected from the following list:

- BUSA 520 Programming for Managers (4)
- BUSA 521 Information Systems Design (4)
- BUSA 528 Seminar in MIS Applications (4)
- BUSA 535 Legal Aspects of the Management Process (4)
- BUSA 553 Contemporary Issues in Management (4)
- BUSA 554 Planned Organizational Change (4)
- BUSA 561 Investment Analysis and Management (4)
- BUSA 581 Seminar in Financial Accounting Theory (4)
- BUSA 587 Financial Information Systems (4)
- BUSA 590 Special Seminar (4)
- BUSA 591 Independent Study (1-4)

Alternative 2: Completion of requirements for a concentration in Management Information Systems:

- BUSA 520 Programming for Managers (4)
- BUSA 521 Information Systems Design, or BUSA 587 Financial Information Systems (4)
- BUSA 528 Seminar in MIS Applications (4)

Alternative 3: Completion of a course of study in research methodology (4), and BUSA 593 Thesis (4)

## COURSE OFFERINGS

### *Business Administration*

#### **BUSA 501 FUNDAMENTALS OF ACCOUNTING AND FINANCE**

Fundamental assumptions, principles, and procedures underlying accounting; transaction analysis and the fundamental accounting model; matching of expenses with revenue; measurement and reporting of income statement and balance sheet accounts; consolidated statements; and accounting implications of basic international transactions. Theoretical framework for financial decisions; decision theory relative to working capital management, short- and intermediate-term financing, capital investments and valuation, capital structure and dividend policy, long-term financing, and multinational financing and investing. I II (4)

#### **BUSA 502 FUNDAMENTALS OF MANAGEMENT AND MARKETING**

Principles and processes of administration. Techniques and functions of planning, organizing, directing, and controlling. The flows of goods and services in the economy; economic and behavioral approaches to the analysis of demand; the marketing functions in business firms. Determination of the marketing mix. An examination of the cultural and economic implications of international business transactions on the management and marketing functions of U.S. firms. I II (4)

#### **BUSA 505 MANAGEMENT USE OF COMPUTERS**

An introduction to computer systems and their uses by managers in industry. Topics include hardware components of micro and mainframe systems; current issues surrounding computer usage; use of application software to aid in managerial decision-making (word processing, spreadsheets, data base packages, statistical packages); and elementary programming techniques. I II (4)

#### **BUSA 520 PROGRAMMING FOR MANAGERS**

Computer programming including branching, looping, subscripts, input/output, character manipulation, subroutines, file manipulations, data storage and retrieval. Advanced work with software packages. Prerequisite: 505. (4)

#### **BUSA 521 INFORMATION SYSTEMS DESIGN**

System development processes. Information analysis and logical specification of the system. Emphasis on the iterative nature of the analysis and design process. Prerequisites: 501, 505, 520. (4)

#### **BUSA 528 SEMINAR IN MANAGEMENT INFORMATION SYSTEMS**

In-depth study of selected topics related to management information systems (MIS). Projects will entail application to the functional areas of business. Prerequisites: 501, 520, 521 (or 587), 582. (4)

#### **BUSA 535 LEGAL ASPECTS OF THE MANAGEMENT PROCESS**

Survey of federal and state laws, rules, and regulations that directly impinge on the manager's decision-making in the modern business enterprise. Includes legal implications for the individual manager and his/her corporation that follow from business decisions in areas such as employee relations, consumer protection, security and exchange regulations, rights of corporate shareholders and creditors, antitrust laws, and environmental protection. (4)

#### **BUSA 550 ORGANIZATIONAL BEHAVIOR AND ENVIRONMENT**

The study of open sociotechnical systems within which a manager must operate. Three major perspectives are encompassed: the external organization environment, including legal, ethical, social, economic, political, and international influences; the organization itself as an entity; and the internal organization environment. Comparisons with administrative practices in other countries and cultures. Prerequisite: 502. I II (4)

#### **BUSA 551 OPERATIONS MANAGEMENT AND SYSTEMS SEMINAR**

Intensive study of key concepts, practices, and techniques applicable to the management of the production of goods and services including work and system design, planning, scheduling, quality control, and modern techniques developed in other countries. Organizational impacts of production and information systems. Case analyses are used to address complex situations. Prerequisites: 505, 550; ECON 500, 543. I II (4)

#### **BUSA 553 CONTEMPORARY ISSUES IN MANAGEMENT**

Investigation of the roles of managers in modern society. The exploration may include, but is not limited to, the topics of corporate responsibility, ethical issues in management, the impact of technological change on organizations and society, and the challenges posed by international competition and management innovations in other countries. The workshop approach to these topics combines the use of cases, readings, discussions, and simulations. Prerequisites: 550, ECON 504. (4)

**BUSA 554 PLANNED ORGANIZATIONAL CHANGE**

Detailed examination of techniques for diagnosing administrative problems requiring change, and for planning, implementing, and evaluating changes undertaken through systematic programs of individual, group, and organization development. Emphasis on the problem assessment skills of internal change agents and on interventions aimed at structural changes, management training, and career development. Comparative organization development practices in other countries. Prerequisite: 550. II (4)

**BUSA 555 BUSINESS STRATEGY AND POLICY**

An integrated management approach based on decision-making analysis in complex cases and comprehensive field situations. Advanced readings and library research integrate concepts of management and business functions including consideration of legal, social, and international aspects of the business environment. Prerequisites: 551, 564, and 570, any one of which may be taken concurrently with 555. I II (4)

**BUSA 561 INVESTMENT ANALYSIS AND MANAGEMENT**

Introduction to the nature, problems, and processes of evaluating particular securities (foreign, as well as domestic); portfolio construction and administration. Special attention to the risk and rate-of-return aspects of particular securities, security portfolios, and total wealth. Prerequisites: 501, ECON 543. I (4)

**BUSA 564 FINANCIAL MANAGEMENT SEMINAR**

Analysis of optimal financial policies. Intensive investigation of the valuation process and its resulting impact on firm investment, financing, and dividend policies. Discussion of the implications of international financing and investing activities. Extensive use of the case method. Prerequisites: 501, 505; ECON 504, 543. I II (4)

**BUSA 570 MARKETING MANAGEMENT SEMINAR**

Introduction to marketing strategy decisions in both domestic and international contexts; marketing resource allocation decisions in a competitive selling environment; marketing alternatives for both consumer and industrial goods and services. Prerequisites: 502, 505; ECON 504, 543. I II (4)

**BUSA 581 SEMINAR IN FINANCIAL ACCOUNTING THEORY**

Advanced accounting concepts and standards; current problems and trends reflected in accounting literature; designed for professional accountants. (4)

**BUSA 582 ACCOUNTING INFORMATION AND CONTROL**

Applications of accounting information, services, and systems to management problems. Impact on decision making by international accounting practices. Prerequisites: 501, 505. I II (4)

**BUSA 587 FINANCIAL INFORMATION SYSTEMS**

Expansion of traditional accounting information flow models to include computerized systems. Emphasis on the financial information needs of management and the resulting systems requirements. Prerequisites: 501, 520, 582. (4)

**BUSA 590 SPECIAL SEMINAR**

Selected advanced topics; offered on demand. (4)

**BUSA 591 INDEPENDENT STUDY**

Individual reading and studies on selected topics; minimum supervision after initial planning of student's work. Prerequisite: consent of instructor. (1-4)

**BUSA 593 THESIS**

Research study to meet thesis option requirement for elective in the M.B.A. degree program. (4)

***Economics (Division of Social Sciences)*****ECON 500 APPLIED STATISTICAL ANALYSIS**

An intensive introduction to statistical methods for graduate students who have not previously taken introductory statistics. Emphasis on the application of inferential statistics to concrete situations. Topics include: measures of location and variation, probability, estimation, hypothesis tests, and regression. (4)

**ECON 504 ECONOMIC ANALYSIS AND POLICY DECISIONS**

Basic economic concepts applied to policy formation and operating decisions. I, II (4)

**ECON 543 QUANTITATIVE METHODS**

The concepts of probability, sampling, statistical decision theory, linear programming, and other deterministic models applied to managerial problems. Prerequisite: STAT 231 or 341. I, II (4)



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# *Computer Science*

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*Master of Arts - Computer Applications*

*Master of Science - Computer Science*

John O. Herzog, Ph.D., Dean, Division of Natural Sciences

James E. Brink, Ph.D., Chair, Department of Mathematics and Computer Science

Lennard Nelson, M.A., Graduate Program Coordinator, (206) 535-7403

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## **PROGRAM OBJECTIVES**

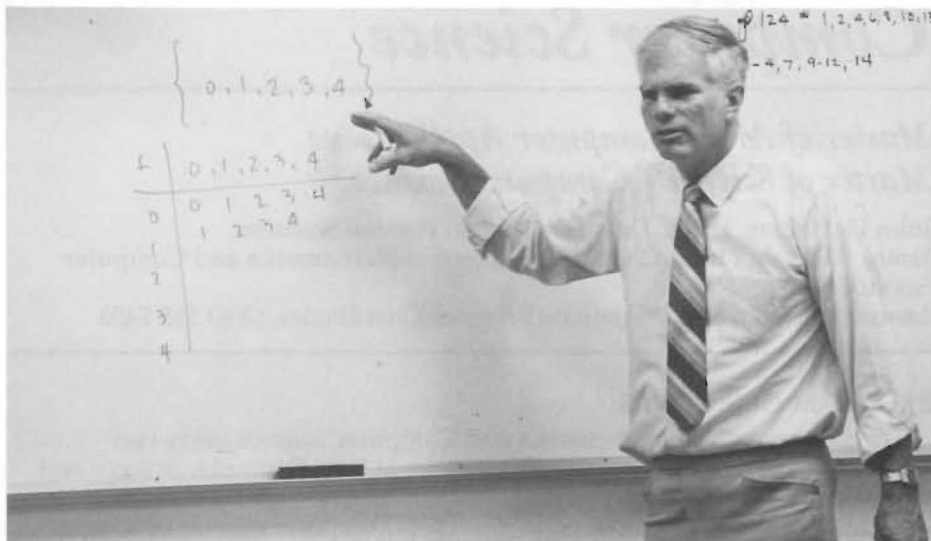
The Department of Mathematics and Computer Science offers two graduate programs in computer science, the M.S. in Computer Science and the M.A. in Computer Applications. The M.S. in Computer Science is designed for students whose main interest is computer science or computer engineering. The M.A. in Computer Applications is of special interest to students who wish to develop expertise in computer science as it relates to another field, such as the natural sciences, business, or the social sciences. The degree program allows these students to study advanced applications of computers in their chosen field.

Master's candidates may participate in a variety of ongoing research programs with their faculty advisers. Among the areas of research are: artificial intelligence systems, VLSI design, computer-aided design systems, advanced computer architectures, pattern recognition, computer graphics, and software engineering.

Unlike most of the other graduate departments at PLU, the Department of Mathematics and Computer Science offers its graduate and upper-level courses primarily during the daytime hours, and students should plan accordingly.

## **FACILITIES**

All students have access to the university Computer Center's user facilities, which include a VAX 6210, 6220 Cluster, accessible through 35 terminals, and 40 IBM-PC microcomputers. The Department of Mathematics and Computer Science also maintains its own special purpose laboratories: a digital logic lab and a microprocessor development and artificial intelligence lab, which contains an HP 9000 computer, an Intel hypercube, and five SUN microcomputer workstations.



*Computer Science Graduate Program Coordinator Lennard Nelson.*

## PREREQUISITES AND REQUIREMENTS

The following prerequisites and requirements are for students admitted to the program after January 1, 1989. Students admitted before that date should refer to the 1987 catalog.

Beyond the general admission requirements, the prospective computer science master's student must have adequate preparation in computer science. Although most graduate students in computer science have earned their baccalaureate degree in computer science, mathematics, or electrical engineering, students from other academic areas are able to pursue graduate study in computer science, although some additional preparation may be necessary.

The prerequisites for admission to the graduate program consist of the equivalent of the PLU computer science core, which includes courses in Pascal, data structures, digital logic, and assembly language (CSCI 144, 270, 362, 380), a minimum of eight semester hours of calculus, and discrete structures (MATH 245). Students lacking all prerequisites may be considered for provisional status. This allows students to finish the prerequisites, which do not count toward the degree, and begin their graduate studies concurrently. The general part of the Graduate Record Exam (GRE) is also required.

The graduate student must complete at least 16 hours in courses numbered 510 or above. For those courses selected and approved in the 330-490 level, a B or higher grade must be attained in each course applicable for the degree. The cumulative grade point average for all courses for the degree must also be a 3.0 or above. Near the completion of all studies, a two-hour written comprehensive exam and oral defense of the thesis is required of each thesis candidate. The non-thesis candidate must instead take two semester hours of CSCI 586 Graduate Seminar and a four-hour written comprehensive examination.

**M.S. in Computer Science (Thesis Option): 32 Semester Hours****Required Courses:**

- CSCI 544 Advanced Operating Systems (2)
- CSCI 570 Mathematics of Computer Science (4)
- CSCI 580 Microprocessor Development Systems (2)
- CSCI 593 Thesis (6)

**Electives:** 18 semester hours to include:

- a) At least 2 additional semester hours of CSCI courses numbered 510 or above,
- b) CSCI 344 Operating Systems and CSCI 375 Algorithms, unless taken as an undergraduate,
- c) Any computer science courses numbered above CSCI 330 (except CSCI 449 and 500-509),
- d) At most 6 semester hours from:
  - 1) MATH 345, 346 Numerical Analysis;
  - 2) Courses in mathematics, engineering, or business administration numbered above 320 with prior approval by the committee.

Oral defense of the thesis and satisfactory performance on a two-hour written comprehensive examination are also required.

**M.S. in Computer Science (Non-Thesis Option): 34 Semester Hours**

Requirements are the same as for the thesis option except that in lieu of the thesis the candidate must take 2 semester hours of CSCI 586 Graduate Design Seminar. The elective credit total is changed from 18 to 24 semester hours with at least 6 of these elective hours in CSCI courses numbered 510 or above. Students must successfully complete a four-hour written comprehensive examination.

**M.A. in Computer Applications (Thesis Option): 32 Semester Hours****Required Courses:**

- CSCI 570 Mathematics of Computer Science (4)
- CSCI 593 Thesis (6)
- CSCI 544 Advanced Operating Systems (2) *or*
- CSCI 580 Microprocessor Development Systems (2)

**Electives:** 20 semester hours to include:

- a) CSCI 344 Operating Systems and CSCI 375 Algorithms unless taken as an undergraduate,
- b) Any computer science courses numbered above CSCI 330 (except CSCI 449 and 500-509),
- c) At most 6 semester hours from math courses numbered above 320 and approved by the committee,
- d) 10 semester hours of elective credit in the field of application with prior approval by the committee.

Oral defense of the thesis and satisfactory performance on a two-hour written comprehensive examination are also required. A minimum of 16 semester hours must be in graduate-level courses including any hours in the application area.

**M.A. in Computer Applications (Non-Thesis Option): 34 Semester Hours**

Requirements are the same as for the thesis option except that in lieu of the thesis the candidate must take 2 semester hours of CSCI 586 Graduate Design Seminar. Twenty-six semester hours of elective credit are required with at least 6 of these elective hours in CSCI courses numbered 510 or above. Students must satisfactorily complete a four-hour written comprehensive examination.

**COURSE OFFERINGS*****Computer Science***

The following undergraduate courses may be included in the graduate program subject to graduate degree requirements. (See general catalog for descriptions of undergraduate courses.)

- CSCI 344 Operating Systems (4)
- CSCI 348 Modeling and Simulation (4)
- CSCI 355 Compilers (2)
- CSCI 385 Computer Architecture (2)
- CSCI 386 Distributed Systems (2)
- CSCI 412 Computer Graphics (4)
- CSCI 420 Software Engineering (4)
- CSCI 430 Artificial Intelligence (4)
- CSCI 436 Pattern Recognition (4)
- CSCI 467 Data Base Management (4)
- CSCI 470 Computer-Aided Design (2)
- CSCI 475 Formal Languages (4)
- CSCI 480 Microprocessors (4)
- CSCI 488 VLSI Design (2)
- CSCI 490 Seminar (1-4)

**CSCI 520 ADVANCED DIGITAL DESIGN**

Continuation of topics in 362. The design of digital control systems, asynchronous circuits, digital signal processors, digital filters, timing considerations, use of computer-aided design tools. (2-4)

**CSCI 538 EXPERT SYSTEMS**

The development of AI systems which operate at the level of a human expert. Students will explore the structure of expert systems and use an expert system development tool such as OPS5 and Crystal. Prerequisite: 270, MATH 245 a/y 1988-89 II (4)

**CSCI 544 ADVANCED OPERATING SYSTEMS**

Continuation of topics in 344 and 385 leading to the development of an operating system. Emphasis on the interaction between the hardware structure and the operating system; operating system data structures; and operating system security. Prerequisite: 344, II (2)

**CSCI 555 COMPILER IMPLEMENTATION**

Continuation of 355; the structure of programming languages; data and control abstractions; compiler implementation; run time management; an introduction to code optimization. Prerequisites: 355, 380, a/y II 1990-91 (4)

**CSCI 570 MATHEMATICS OF COMPUTER SCIENCE**

Survey of the basic mathematical tools required in computer science, including graph theory, network flow analysis, queueing theory and its applications, stochastic models, and transform theory. Prerequisite: 375II. (4)

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**CSCI 580 MICROPROCESSOR DEVELOPMENT SYSTEMS**

Development of software on 8- and 16-bit microprocessors; microprocessor applications; interfacing; microprocessor organization; interrupt structures. Prerequisites: 362, 380, I. (2)

**CSCI 586 GRADUATE DESIGN SEMINAR**

Written and oral presentation of a topic of interest to the student under the supervision of a faculty member. Course will include discussion of methods and techniques appropriate to the discipline. Students may not receive credit for this course if they receive credit for CSCI 593 Thesis. Prerequisite: full graduate standing and the completion of at least one graduate-level course. I, II.(2)

**CSCI 590 GRADUATE SEMINAR**

Selected topics including formal languages, fault-tolerant computing, software engineering, switching theory, comparative programming languages, information theory and coding, microprocessor interface, computing security, performance evaluation, or other topics of current interest. (1-4)

**CSCI 591 INDEPENDENT READING AND RESEARCH**

Individual reading and research on a selected topic. Intended for advanced graduate students. Minimum supervision after initial planning of student's project. Prerequisite: consent of department. (1-6)

**CSCI 593 THESIS**

Research study to meet thesis option requirement for M.A. or M.S. degree. (1-6)



# Education

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## *Master of Arts in Education*

Robert L. Mulder, Ph.D., Dean, School of Education

Nan G. Nokleberg, M.A., Director of Graduate Programs and Fifth Year Studies, (206) 535-7272

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### GENERAL INFORMATION

#### **Purpose**

The purpose of the graduate program in education is to provide qualified persons with opportunities to enhance their background in teaching or to prepare themselves for educational administrative or service positions that require advanced preparation. The major fields of concentration are designed to provide maximum flexibility in an experience-oriented environment. Graduate concentrations are offered in Classroom Teaching, Counseling and Guidance, Educational Administration, Educational Psychology, Reading, and Special Education. Requirements for each concentration are listed separately following this section.

#### **Coordinating Master's Degree and Fifth Year Continuing Certification Programs**

Students holding a Provisional or an Initial Certificate may coordinate the Master of Arts in Education degree with the requirements for Standard or Continuing Certification. Graduate students pursuing the Standard or Continuing Certificate must discuss their programs with the certification adviser in the School of Education.

Appropriate course work taken before admission may apply to the student's graduate program upon approval by the candidate's graduate advisory committee. Students intending to work toward a master's degree must make formal application for admission to the Office of Graduate Studies no later than after the completion of 15 semester hours.

#### **General Prerequisites**

Applicants must have completed a B.A. or B.S. degree from an accredited institution of higher education and must submit test scores from appropriate screening tests. Students are also expected to have a personal interview with the director of graduate programs before admission. (See individual concentrations for tests and other prerequisites specific to the concentration.)

#### **Examinations**

Students must take a comprehensive written examination over course work. This examination is to be scheduled through the student's adviser no later than two weeks before the examination is given. Comprehensive examinations are usually given on the first Saturdays of November and April and the second Saturday of July.

An oral examination over course work and/or research may be scheduled at the discretion of the student's advisory committee no later than three weeks before commencement.

### **CLASSROOM TEACHING: 32 Semester Hours**

Faculty Coordinator: Darlean Sydnor, Ph.D., (206) 535-7281

#### **Program Objectives**

This program is designed to provide advanced preparation in subject matter and professional education for elementary and secondary teachers.

#### **Prerequisites**

Beyond the general prerequisites, applicants must hold a valid teaching certificate and should ordinarily have successfully completed one year of teaching or related professional experience. A grade point average of at least 3.0 and a score above the 50th percentile on the Miller Analogies Test are required. Students not meeting these requirements may be granted provisional status.

### **General Requirements and Core Courses: 6-10 Semester Hours**

EDUC 545 Methods and Techniques of Research (2)

(It is strongly recommended that students complete EDUC 544 Research/Program Evaluation before enrollment in EDUC 545.)

One of the following:

EDUC 585 Comparative Education (2)

EDUC 586 Sociology of Education (4)

EDUC 587 History of Education (3)

EDUC 589 Philosophy of Education (3)

One of the following research options:

EDUC 598 Studies in Education (2)

EDUC 599 Thesis (3-4)

### **Concentration Requirements: 10-18 Semester Hours**

Courses are determined in consultation with the major adviser. All courses accepted for the master's degree are subject to the approval of the candidate's adviser or the candidate's advisory committee. Courses may be selected from the following areas: Education, Educational Psychology, and Special Education.

### **Academic Supporting Area: 8-16 Semester Hours**

In this concentration, no more than 16 semester hours may be applied from Educational Psychology or Special Education. This requirement assumes a prerequisite background in the supporting area. The courses shall be upper division or graduate-level courses. Approval of courses to fulfill this requirement shall be obtained from the student's advisory committee. The student's supporting area may include one of the following:

Art	Educational Psychology	Physical Education
Biology	English	Physics
Business Administration	General Science	Political Science
Chemistry	History	Psychology
Communication Arts	Language Arts	Social Sciences
Earth Sciences	Mathematics and Computer Science	Sociology
Economics	Music	Special Education

**COUNSELING AND GUIDANCE: 44 Semester Hours**

Faculty Coordinator: Marjorie Mathers, Ed.D., (206) 535-7279

**Program Objectives**

This program is designed to prepare practitioners for work as professional counselors in elementary schools, secondary schools, colleges, and mental health or related agencies.

**Prerequisites**

Beyond the general prerequisites, applicants must complete an interview with the faculty coordinator or director of graduate programs and successfully complete the California Psychological Inventory. Ordinarily students must have completed one year of professional or related experience relative to the program (teaching, counseling, nursing, ministry, etc.).

**Concentration Requirements:**

Course sequence is important. Prerequisites for each course are listed in the course descriptions given in this catalog. Prerequisites following provisional acceptance include:

- EPSY 512 Group Process and the Individual (2)
- EPSY 551 Reflective Skills Practicum (1)
- EPSY 561 Basic Relationships in Counseling (4)

**Requirements for all students include:**

- PSYC 450 Psychological Testing (4)
- EDUC 545 Methods and Techniques of Research (2)
- EPSY 552 Social Learning-Modeling Practicum (1)
- EPSY 553 Reality Therapy Practicum (1)
- EPSY 554 Gestalt Therapy Practicum (1)
- EPSY 569 Career Guidance (4)
- EPSY 563 Group Process and Leadership (2)
- EPSY 578 Behavioral Problems (4)
- EPSY 570 Field Work in Counseling (4)

EPSY 570 is the final course in the program. It requires ten hours per week (2 full days or 1 full day and two half days) in a guidance program or agency other than the one in which the student is employed. This means relinquishing full-time employment or hiring a substitute for the hours one is gone. Making arrangements to be free for EPSY 570 is the responsibility of the student.

**Elementary Counseling**

- EPSY 535 Foundations in Guidance (4)
- EPSY 536 Affective Classroom Behavior (2)

**Plus 8 hours from an optional area**

**Secondary Counseling**

- EPSY 535 Foundations in Guidance (4)
- EPSY 537 Reality Discussion Techniques (2)

**Plus 8 hours from an optional area**

**General Counseling**

- EDUC 597 Independent Study (4) or EPSY 501 (4)
- EPSY 537 Reality Discussion Techniques (2)

**Plus 8 hours from an optional area**



**Optional Area (8 hours)**

- EDUC 551 School Law (2)
- PSYC 405 Adolescent Psychology (2)
- PSYC 420 Psychology of Personality (4)
- EPSY 501 Workshops (2-4)
- EPSY 536 Affective Classroom Behavior (2)
- EPSY 537 Reality Discussion Techniques (2)
- EPSY 565 Advanced Human Development (4)
- EPSY 575 Mental Health (4)
- EDUC 579 Diagnosis and Remediation of Reading (4)
- EPSY 583 Current Issues in Exceptionality (2-4)
- EPSY 597 Independent Study (1-4)
- EPSY 598 Research (2)
- EDUC 599 Thesis (4)

**EDUCATIONAL ADMINISTRATION: 32 Semester Hours**

Faculty Coordinator: Myra Baughman, Ed.D., (206) 535-7285

**Program Objectives**

This program is designed to prepare elementary and secondary school principals and program administrators.

**Prerequisites**

Beyond the general prerequisites, applicants must hold a valid teaching or E.S.A. certificate and should ordinarily have successfully completed two years of teaching or related experience. A grade point average of at least 3.0 and a score above the 50th percentile on the Miller Analogies Test are required. Students not meeting these requirements may be granted provisional status.

**General Requirements and Core Courses: 6-10 Semester Hours**

EDUC 545 Methods and Techniques of Research (2)

Plus one of the following:

EDUC 585 Comparative Education (2)

EDUC 586 Sociology of Education (4)

EDUC 587 History of Education (3)

EDUC 589 Philosophy of Education (3)

Plus one of the following research options:

EDUC 598 Studies in Education (2)

EDUC 599 Thesis (3-4)



*Nan Nokleberg, Director of Graduate Programs and Fifth Year Studies, School of Education.*

**Major Area of Concentration: 17 Semester Hours**

- EDUC 544 Research and Program Evaluation (2)
- EDUC 550 School Finance (2)
- EDUC 551 School Law (2)
- EDUC 552 Educational Administration (3)
- EDUC 555 Administration and Supervision (2)
- EDUC 580 Curriculum Development (2)

Four semester hours in Educational Psychology: One or two of the following, to be determined in consultation with major adviser:

- EPSY 565 Advanced Human Growth and Development (4)
- EPSY 575 Mental Health (4)
- EPSY 578 Behavioral Problems (4)
- EPSY 512 Group Process and the Individual (2) and/or
- EPSY 535 Foundations of Guidance (4)
- EPSY 536 Affective Classroom Techniques (2)
- EPSY 537 Reality Discussion Techniques (2)
- EPSY 563 Practicum in Group Process and Leadership (2)

**Academic Supporting Area: 8-10 Semester Hours**

All students earning master's degrees in education (except those in Counseling and Guidance) must complete a minimum of 8 semester hours in a supporting area. This requirement assumes a prerequisite background in the supporting area. The courses shall be upper division or graduate-level courses. Approval of courses to fulfill this requirement shall be obtained from the student's advisory committee. The student's supporting area may include one of the following:

Art	Language Arts
Biology	Mathematics and Computer Science
Business Administration	Music
Chemistry	Physical Education
Communication Arts	Physics
Earth Sciences	Political Science
Economics	Psychology
Educational Psychology	Social Sciences
English	Sociology
General Science	Special Education
History	

**EDUCATIONAL PSYCHOLOGY: 32 Semester Hours**

Faculty Coordinator: Marjorie Mathers, Ed.D., (206) 535-7279

**Program Objectives**

This program is designed to assist school personnel to deal with contemporary problems within the school system and society.

**Prerequisites**

Beyond the general prerequisites, applicants must score above the 50th percentile on the Miller Analogies Test and must have completed one year of successful experience in schools. An interview with the faculty coordinator is also required.

**General Requirements and Core Courses: 6-10 Semester Hours**

EDUC 545 Methods and Techniques of Research (2)

Plus one of the following:

EDUC 585 Comparative Education (2)

EDUC 586 Sociology of Education (4)

EDUC 587 History of Education (3)

EDUC 589 Philosophy of Education (3)

Plus one of the following research options:

EDUC 598 Studies in Education (2)

EDUC 599 Thesis (3-4)

**Concentration Requirements: 18 Semester Hours**

Required Courses (10 hours)

EPSY 512 Group Process and the Individual (2)

EPSY 535 Foundations in Guidance (4)

EPSY 578 Behavioral Problems (4)

Electives (8 hours)

Electives are to be selected from graduate-level courses in educational psychology in consultation with the major adviser. All courses accepted for the master's degree are subject to the approval of the student's advisory committee.

**Academic Supporting Area: 8 Semester Hours**

All students earning master's degrees in education (except those in Counseling and Guidance) must complete a minimum of 8 semester hours in a supporting area. This requirement assumes a prerequisite background in the supporting area. The courses shall be upper division or graduate-level courses. Approval of courses to fulfill this requirement shall be obtained from the student's advisory committee. Educational Psychology may not serve as the supporting area. The student's supporting area may include one of the following:

Art

Biology

Business Administration

Chemistry

Communication Arts

Earth Sciences

Economics

Educational Psychology

English

General Science

History

Language Arts

Mathematics and Computer Science

Music

Physical Education

Physics

Political Science

Psychology

Social Sciences

Sociology

Special Education

**READING: 32 Semester Hours**

Faculty Coordinator: Ann Adele Mallon, Ed.D., (206) 535-7284

**Program Objectives**

This program is designed to provide interested and qualified persons with the opportunities to enhance and expand their abilities to work with children of all ages and capabilities in the area of reading education. Persons completing the program should be qualified to work with children in developmental, correctional, and remedial learning situations.

## Prerequisites

Beyond the general prerequisites, applicants must have completed undergraduate courses in the teaching of reading and the teaching of language arts. A grade point average of 3.0 and a score above the 50th percentile on the Miller Analogies Test are required. Students not meeting these requirements may be granted provisional status.

## General Requirements and Core Courses: 6-10 Semester Hours

EDUC 545 Methods and Techniques of Research (2)

One of the following:

EDUC 585 Comparative Education (2)

EDUC 586 Sociology of Education (4)

EDUC 587 History of Education (3)

EDUC 589 Philosophy of Education (3)

One of the following research options:

EDUC 598 Studies in Education (2)

EDUC 599 Thesis (3-4)

## Concentration Requirements: 16-18 Semester Hours

EDUC 479 Special Techniques in Reading (4)

EDUC 483 Primary Reading (2)

EDUC 525 Current Practices in Reading (2)

EDUC 527 Psychology of Reading (2)

The student also selects 6-8 semester hours from education course offerings in consultation with the major adviser. All courses for the master's degree are subject to the approval of the student's advisory committee. Courses may be selected from offerings in both education and special education.

## Academic Supporting Area: 8 Semester Hours

All students earning master's degrees in education (except those in Counseling and Guidance) must complete a minimum of 8 semester hours in a supporting area. This requirement assumes a prerequisite background in the supporting area. The courses shall be upper division or graduate-level courses. Approval of courses to fulfill this requirement shall be obtained from the student's advisory committee. The student's supporting area may include one of the following:

Art

Biology

Business Administration

Chemistry

Communication Arts

Earth Sciences

Economics

Educational Psychology

English

General Science

History

Language Arts

Mathematics and Computer Science

Music

Physical Education

Physics

Political Science

Psychology

Social Sciences

Sociology

Special Education

**SPECIAL EDUCATION: 32 Semester Hours**

Faculty Coordinator: Kent Gerlach, Ed.D., (206) 535-7277

**Program Objectives**

This program is designed to expand the skills and qualifications of persons serving handicapped children and youth in a variety of educational and rehabilitative settings. Two separate areas of specialization are offered: K-12 and early childhood special education. Both concentrations contain a core of required courses and electives that allow individualization of content and focus.

**Prerequisites**

Beyond the general prerequisites, applicants must meet the following requirements:

1. Have one successful year of teaching or related professional experience with handicapped individuals. Students not meeting this requirement must complete an approved graduate-level field experience in addition to the required area of concentration.
2. Have a grade point average of at least 3.0 and a score above the 50th percentile on the Miller Analogies Test. Students not meeting these requirements may be granted provisional status.
3. Have completed a minimum of 12 semester hours of approved course work in special education with a grade point average of at least 3.0.
4. Complete an interview with the faculty coordinator(s).

**Core Courses & Research Requirements: 6-10 Semester Hours**

EDUC 545 Methods and Techniques of Research (2)

Plus one of the following:

EDUC 585 Comparative Education (2)

EDUC 586 Sociology of Education (4)

EDUC 587 History of Education (3)

EDUC 589 Philosophy of Education (3)

Plus one of the following research options:

EDUC 598 Studies in Education (2)

EDUC 599 Thesis (3-4)

**Concentration Requirements: Minimum of 18 Semester Hours****K-12 Special Education**

SPED 530 Current Issues in Assessment Procedures (2)

Three of the following:

SPED 533 Current Issues in Developmental Disabilities (2)

SPED 534 Current Issues in Behavior Disorders (2)

SPED 535 Current Issues in Learning Disabilities (2)

SPED 537 Current Issues in Language Disorders (2)

SPED 538 Current Issues in Early Childhood Handicapped (2)

Electives in Special Education (minimum of 10 semester hours)

(Electives are to be selected from appropriate Special Education courses in consultation with major adviser.)

### Early Childhood Special Education P-3

SPED 492 Methods of Teaching Young Handicapped Children (2)

SPED 538 Current Issues in Early Childhood Handicapped (2)

SPED 540 Early Intervention Techniques (2)

SPED 541 Assessment of Infants and Preschoolers (2)

Electives in Early Childhood/Special Education (minimum of 10 semester hours)

SPED 490 Early Learning Experiences for the Handicapped Child (2)

SPED 537 Current Issues in Language Disorders (2)

SPED 539 Administration of Early Childhood Special Education Programs (2)

SPED 595 Internship (5)

SPED 501 Workshops in Education/Special Education (2)

Other appropriate electives to be selected in consultation with major adviser.

### Academic Supporting Area: 8-16 Semester Hours

Students must take 8 hours from a supporting area. Courses must be upper division or graduate level.

Special Education majors frequently select supporting areas from the following:

Art  
Communication Arts

Music

Education

Elementary

Secondary

Reading

School Admin.

Counseling and Guidance

Educational Psychology

English

Language Arts

Mathematics

Physical Education

Psychology

Social Sciences

Sociology

Other supporting areas are available.



## COURSE OFFERINGS

### *Education*

#### **EDUC 501 WORKSHOPS**

Graduate workshops in special fields for varying lengths of time. (1-4)

#### **EDUC 515 PROFESSIONAL SEMINAR: CONTINUING LEVEL, TEACHERS**

The preparation and sharing of selected topics related to the minimum generic standards and needs of the individual participants. Required for the continuing level certification of teachers. (2)

#### **EDUC 516 TEACHER SUPERVISION**

Identification and development of supervisory skills for teachers who work with other adults in the classroom. Supervision of student teachers, consultants and resource specialists, parent volunteers, classified aides, and peer and cross-age tutors. (1)

#### **EDUC 525 CURRENT PRACTICES AND ISSUES IN READING**

To examine current practices and issues in the field of reading as described through educational research. The research findings will be applied to current classroom practices. Students will be encouraged to pursue specific areas of interest within the broad area of reading instruction. Prerequisite: 325 or equivalent and teaching experience. (2)

#### **EDUC 527 PSYCHOLOGY OF READING**

Principles of reading, perception, word recognition, concept development, and meaning in reading will be explored. The psychological and physiological aspects of the reading act will be examined in relationship to successful reading achievement. Prerequisite: 325 or equivalent and teaching experience. (2)

#### **EDUC 544 RESEARCH AND PROGRAM EVALUATION**

Knowledge of student and class evaluation techniques; the ability to select and interpret tests; knowledge of research design; the ability to interpret educational research; the ability to identify, locate, and acquire topical research and related literature; and the ability to use the results of research or evaluation to propose program changes. (2)

#### **EDUC 545 METHODS AND TECHNIQUES OF RESEARCH**

Seminar in research methods and techniques in education with emphasis on designing a research project in the student's area of interest. Required for M.A. Prerequisite: consultation with student's adviser and admission to the graduate program. (2)

#### **EDUC 550 SCHOOL FINANCE**

Local, state, and federal contributors to school finance, its philosophy and development; the development and administration of a school budget. (2)

#### **EDUC 551 EDUCATIONAL LAW**

Study of contemporary federal, state, and local statutes, regulations, and case law and their application to public and private schools (K-12). (2)

#### **EDUC 552 EDUCATIONAL ADMINISTRATION**

Administration and supervision of school personnel, facilities, and programs; with emphasis on the human relationships in that setting. Prerequisite: teaching experience or consent of the dean. (3)

#### **EDUC 554 SEMINAR IN EDUCATIONAL ADMINISTRATION**

The preparation and sharing of selected presentations related to needs of individual participants. Required for continuing certification of principals and program administrators. Registration must take place in the fall semester and participation will be continuous for the academic year. (2)

#### **EDUC 555 ADMINISTRATION AND SUPERVISION WORKSHOP**

Differentiated models of supervision based on clinical supervisory models. Supervision of instruction, curriculum, in-service, and teacher evaluation in accord with state of Washington regulations. (2)



**EDUC 556 SECONDARY AND MIDDLE SCHOOL CURRICULUM**

A variety of facets of secondary and middle school programs; finance, curriculum, discipline, evaluation, classroom management, the basic education bill, legislative changes, and special education. Development of secondary and middle schools from their beginnings to the present. Critical issues in the education scene today. (3)

**EDUC 558 INTERNSHIP IN EDUCATIONAL ADMINISTRATION**

Internship in educational administration planned with the School of Education in cooperation with selected educational administrators. Prerequisite: course work in educational administration and admission to the graduate program. (2-4)

**EDUC 571 HISTORY AND PHILOSOPHY OF HIGHER EDUCATION**

Historical perspective and current status; development of functions and structures; issues in curriculum; philosophy of administration; case studies. (4)

**EDUC 573 STUDENT PERSONNEL WORK IN HIGHER EDUCATION**

Student personnel services in higher education; use of personnel data; co-curricular activities; student welfare; contemporary trends in counseling problems related to student life. (4)

**EDUC 579 DIAGNOSIS AND REMEDIATION IN READING**

Causative factors relating to reading difficulties; some opportunity to apply remediation techniques; open to those with teaching experience. (2)

**EDUC 580 CURRICULUM DEVELOPMENT**

Types of curriculum organizations, programs and techniques of curriculum development. (2)

**EDUC 585 COMPARATIVE EDUCATION**

Comparison and investigation of certain materials and cultural systems of education throughout the world. (2)

**EDUC 586 SOCIOLOGY OF EDUCATION**

The nature and functioning of the educational system examined from a sociological perspective. Topics include: education, stratification, and social change; the school as a complex organization; the school as a social institution; and the sociology of learning. (4)

**EDUC 587 HISTORY OF EDUCATION**

Great educators, educational theories, and educational systems from antiquity to the present. (2)

**EDUC 589 PHILOSOPHY OF EDUCATION**

Philosophical and theoretical foundations of education. (3)

**EDUC 590 GRADUATE SEMINAR**

A workshop for all Master of Arts candidates in the School of Education that provides a forum for exchange of research ideas and problems; candidates should register for this seminar for assistance in fulfilling requirement. No credit is given, nor is tuition assessed. (0)

**EDUC 597 INDEPENDENT STUDY**

Projects of varying length related to educational issues or concerns of the individual participant and approved by an appropriate faculty member and the dean. (1-4)

**EDUC 598 STUDIES IN EDUCATION**

A research paper or project on an educational issue selected jointly by the student and the graduate adviser. It will be reviewed by the student's graduate committee. (2)

**EDUC 599 THESIS**

For Master of Arts candidates who elect to write a thesis. The thesis problem will be chosen from the candidate's major field of concentration and must be approved by the candidate's graduate adviser. (3-4)

## *Educational Psychology*

### **EPSY 501 WORKSHOPS**

Graduate workshops in special fields for varying lengths of time. (1-4)

### **EPSY 512 GROUP PROCESS AND THE INDIVIDUAL**

A human interaction laboratory to facilitate the exploration of the self concept through the mechanisms of interpersonal interactions and feedback. Emphasis placed on the acquisition of skill in self-exploration, role identification, and climate-making. (2)

### **EPSY 535 FOUNDATIONS OF GUIDANCE**

The focus is on developing an understanding of the services and processes available to assist individuals in making plans and decisions according to their own life pattern. (4)

### **EPSY 536 AFFECTIVE CLASSROOM TECHNIQUES**

Exploration of various techniques designed to facilitate understanding of self and others; methods for working with students. Prerequisite: student teaching or graduate status. Laboratory experience as arranged. (2)

### **EPSY 537 REALITY DISCUSSION TECHNIQUES**

The use of reality therapy in a helping relationship—schools, social agencies, mental health clinics, or university residences. Laboratory experience as arranged. Prerequisite: 553. (2)

### **EPSY 551 REFLECTIVE SKILLS PRACTICUM**

A mini-practicum in the techniques of counseling; enrollment limited to students beginning the master's degree program in Counseling and Guidance. Prerequisite to admission on regular status to the Counseling and Guidance master's program. The practicum makes use of counseling sessions with clients utilizing verbal and nonverbal attending behavior. (1)

### **EPSY 552 SOCIAL LEARNING—MODELING PRACTICUM**

A mini-practicum in the theory and techniques of social learning and role modeling. Prerequisite: 551. (1)

### **EPSY 553 REALITY THERAPY PRACTICUM**

A mini-practicum in counseling using the theory and techniques of reality therapy. Prerequisites: 537, 552, 561, and 578. (1)

### **EPSY 554 GESTALT THERAPY PRACTICUM**

A mini-practicum in counseling using the theory and techniques of gestalt therapy. Prerequisites: 553 and 561. (1)

### **EPSY 561 BASIC RELATIONSHIPS IN COUNSELING**

A study of the theory, process, techniques, and characteristics of the counseling relationship. A basic course for M.A. students in the Counseling and Guidance program. (4)

### **EPSY 563 PRACTICUM IN GROUP PROCESS AND LEADERSHIP**

A human interaction laboratory that explores interpersonal operations in groups and facilitates the development of self-insight; emphasis on leadership and development of skill in diagnosing individual, group, and organizational behavior patterns and influences. Students will co-facilitate a laboratory group. Prerequisite: 512. (2)

### **EPSY 565 ADVANCED HUMAN DEVELOPMENT**

A comparative study of human development at various levels of development through observational assessments using nonstandardized instruments: e.g., sociometric scales, autobiographies, interviews, interaction analysis and other appropriate measurements. A practicum (a minimum of one hour each week) is required in a school or appropriate agency. Prerequisite: Fifth-year or graduate status. (4)

### **EPSY 569 CAREER GUIDANCE**

A study of careers, theories of choice, and guidance techniques. (4)

### **EPSY 570 FIELDWORK IN COUNSELING AND GUIDANCE**

A culminating practicum of field experience in schools or agencies using theory, skills, and techniques previously learned. A variety of work experiences with both individuals and groups. Students incorporate consultation experience following the Adlerian model. (4)

**EPSY 575 MENTAL HEALTH**

Basic mental health principles as related to interpersonal relationships. Focus on self-understanding. Laboratory experiences as arranged. (4)

**EPSY 578 BEHAVIORAL PROBLEMS**

Adlerian concepts provide basis for observation, motivation, modification, and life style assessment. Skills for assisting people in developing responsibility for their own behavior. Laboratory experience as arranged. (4)

**EPSY 583 CURRENT ISSUES IN EXCEPTIONALITY**

The characteristics of exceptional students and the counselor's role in dealing with a variety of problems they may have: learning disabilities, emotional problems, physical problems, and the gifted student. Offered every other interim. (2-4)

**EPSY 597 INDEPENDENT STUDY**

Projects of varying length related to educational issues or concerns of the individual participant and approved by an appropriate faculty member and the dean. (1-4)

**EPSY 598 STUDIES IN EDUCATION**

A research paper or project on an educational issue selected jointly by the student and the graduate adviser. It will be reviewed by the student's graduate committee. (2)

**EPSY 599 THESIS**

The thesis problem will be chosen from the candidate's major field of concentration and must be approved by the candidate's graduate committee. Candidates are expected to defend their thesis in a final oral examination conducted by their committee. (3-4)

***Special Education*****SPED 490 EARLY LEARNING EXPERIENCES FOR THE HANDICAPPED CHILD**

Implications of normal and atypical child development (B-8) to the learning process of young and at risk or handicapped children. (2)

**SPED 492 METHODS OF TEACHING YOUNG HANDICAPPED CHILDREN**

Early childhood methods, materials, curriculum, and techniques for teaching children with special needs. Prerequisite: SPED 490. (2)

**SPED 501 WORKSHOPS IN SPECIAL EDUCATION**

Graduate workshops in special education for varying lengths of time. (1-4)

**SPED 520 TEACHING HANDICAPPED CHILDREN IN THE REGULAR CLASSROOM**

An examination of teaching strategies appropriate for exceptional children in regular classrooms. Emphasis on the needs of exceptional children, program modification, and classroom management. Designed for regular educators. (2)

**SPED 521 TEACHING HANDICAPPED ADOLESCENTS IN THE REGULAR CLASSROOM**

An examination of teaching strategies appropriate for exceptional adolescents in regular classrooms. Emphasis on the needs of exceptional adolescents, program modification, and classroom management. Designed for regular educators. (2)

**SPED 530 CURRENT ISSUES IN ASSESSMENT**

Current issues in the use of assessment information for making educational decisions. Prerequisite: SPED 398 or consent of instructor. (2)

**SPED 531 SEVERELY AND PROFOUNDLY HANDICAPPED IN SCHOOL AND SOCIETY**

Introduction to the physical, social, and educational environments of the severely and profoundly handicapped and the consequent implications for the education and training process. Interdisciplinary concepts, terminology, and instructional models. (2)

**SPED 532 EDUCATION AND TRAINING OF THE SEVERELY AND PROFOUNDLY HANDICAPPED**

In-depth study of educational prescription and programming for the severely and profoundly handicapped. Emphasis on teaching strategies and curriculum modification as they apply to this population. (2)

**SPED 533 CURRENT ISSUES IN DEVELOPMENTAL DISABILITIES**

Current issues related to the education of children and adults with developmental disabilities. Prerequisite: SPED 390 or consent of instructor. (2)

**SPED 534 CURRENT ISSUES IN BEHAVIOR DISORDERS**

Current issues related to the education of children and youth with behavior disorders. Prerequisite: SPED393 or consent of instructor. (2)

**SPED 535 CURRENT ISSUES IN LEARNING DISABILITIES**

Current issues related to the education of children and adults with learning disabilities. Prerequisite: SPED290 or consent of instructor. (2)

**SPED 537 CURRENT ISSUES IN LANGUAGE DISORDERS**

Current issues and approaches in assessing and remediating children with language disorders. Prerequisite: SPED 395 or consent of instructor. (2)

**SPED 538 CURRENT ISSUES IN EARLY CHILDHOOD/HANDICAPPED**

Current issues related to the education of pre-school handicapped children. Prerequisite: SPED490 or consent of instructor. (2)

**SPED 539 ADMINISTRATION OF EARLY CHILDHOOD/SPECIAL EDUCATION PROGRAMS**

In-depth study of the administration of early childhood programs with emphasis on remediation techniques and interdisciplinary approaches. Prerequisite: SPED 490. (2)

**SPED 540 EARLY INTERVENTION PROGRAMS**

Current practices in medical, therapeutic, and educational intervention techniques used in the rehabilitation of young handicapped children. (2)

**SPED 541 ASSESSMENT OF INFANTS AND PRESCHOOLERS**

Use of appropriate tools and procedures in diagnosing and evaluating young children's needs, leading to relevant educational programming. (2)

**SPED 570 APPLIED BEHAVIOR ANALYSIS FOR TEACHERS**

A survey of the principles and techniques of applied behavior analysis. Includes behavior modification, self-control techniques, cognitive behavior modification, and research design. (2)

**SPED 575 INTRODUCTION TO THE CONSULTANT TEACHER IN SPECIAL EDUCATION**

Introduction to the principles and practices of a consulting teacher model in special education. Focus on instructional delivery appropriate for providing direct and indirect services to handicapped children in mainstream classrooms. (2)

**SPED 576 COMMUNICATION SKILLS FOR THE CONSULTING TEACHER**

Emphasis on the interpersonal skills necessary for the consulting teacher in special education. Exploration of variables involved in developing cooperation between consultants and regular classroom teachers. (2)

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**SPED 588 ADMINISTRATION OF SPECIAL EDUCATION PROGRAMS**

Investigation of existing special education administrative units, pupil placement procedures, student staffings, program reimbursement procedures, and federal funding models. (3)

**SPED 590 RESEARCH IN EARLY CHILDHOOD/HANDICAPPED**

A combination of organized coursework and independent study in early childhood/handicapped. Specialized study in a selected topic. Prerequisite: SPED 536 or consent of instructor. (1)

**SPED 591 RESEARCH IN SPECIAL EDUCATION**

Review of current research on selected topics in special education. (1)

**SPED 592 RESEARCH IN LEARNING DISABILITIES**

A combination of organized coursework and independent study in learning disabilities. Specialized study in a selected topic. Prerequisite: SPED 535 or permission of instructor. (1)

**SPED 593 RESEARCH IN BEHAVIOR DISORDERS**

A combination of organized coursework and independent study in behavior disorders. Specialized study in a selected topic. Prerequisite: SPED 534 or permission of instructor. (1)

**SPED 594 RESEARCH IN DEVELOPMENTAL DISABILITIES**

A combination of organized coursework and independent study in developmental disabilities. Specialized study in a selected topic. Prerequisite: SPED 533 or permission of instructor. (1)

**SPED 595 SPECIAL EDUCATION: INTERNSHIP**

Internship in special education settings under the direction and supervision of classroom and university faculty. Prerequisite: Teaching credential and consent of instructor. (4)

**SPED 597 INDEPENDENT STUDY**

Projects of varying length related to educational issues or concerns of the individual participant and approved by an appropriate faculty member and the dean. (1-4)

**SPED 598 STUDIES IN EDUCATION**

A research paper or project on an educational issue selected jointly by the student and the graduate adviser. It will be reviewed by the student's graduate committee. (2)

**SPED 599 THESIS**

The thesis problem will be chosen from the candidate's major field of concentration and must be approved by the candidate's graduate committee. Candidates are expected to defend their thesis in a final oral examination conducted by their committee. (3-4)

# Music

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## *Master of Arts in Music*

Richard D. Moe, Ed.D., Dean, School of the Arts

David P. Robbins, M.M., Chair, Department of Music

Ann K. Tremaine, M.M., Graduate Program Coordinator, (206) 535-7603

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### **Purpose**

The purpose of the Master of Arts in Music program is to offer qualified students a broad curriculum in musical studies beyond the baccalaureate level. It is intended for those who desire to broaden and deepen their musical knowledge and, with its required summer courses, may uniquely serve the needs of working music educators. While not a specialist's degree in a particular area, the program does require concentrated study in a selected field.

### **Prerequisites**

The applicant for admission to the Master of Arts in Music program will normally have completed a bachelor's degree in music or music education comparable to the undergraduate program in music or music education at Pacific Lutheran University.

### **Admission**

In addition to following university admissions procedures, applicants shall submit to the graduate faculty of the Department of Music evidence of musical achievement to date. Such evidence may include recordings of recent musical performances, scores of music compositions or arrangements, and/or documents reflecting research in music.

Applicants for admission shall take an entrance examination administered upon request by the Department of Music. Admission to the Master of Arts in Music program shall require any deficiencies determined by the entrance examination to be addressed either by successful completion of prerequisite courses or by subsequent retaking and passing of the entrance examination.

### **Advisory Committee**

Upon acceptance, each student will be assigned an adviser who will be the chair of the student's advisory committee. It is the student's responsibility to meet with his or her adviser to select the other two members of the advisory committee.

Before undertaking any graduate course work, the student will meet with his or her advisory committee and establish a program of study. Subsequent revisions of the program of study must be approved by the advisory committee.

With committee approval, up to eight semester hours of graduate work taken at another institution may be transferred. All requirements for the degree must be completed within seven years. Selected courses numbered at the 300, 400, and 500 levels, unless otherwise designated, may be accepted for graduate credit. All courses accepted for the master's degree, however, are subject to the approval of the student's advisory committee. It is the student's responsibility to arrange for approval of his or her total program with the committee.

### **General Requirements: 32 Semester Hours**

1. The Master of Arts in Music program requires the completion of 32 semester hours of approved graduate study to include no less than 16 semester hours of 500-level courses.
2. No more than six credit hours of workshops may be counted toward the Master of Arts in Music degree.
3. The thesis in this degree program comprises a culminating project whose purpose is to complement, by its depth, the breadth of study inherent in the design of the program. Examples of projects include, but are not limited to, scholarly papers, recitals or lecture-recitals, and original compositions or orchestrations. The choice of project will be made in consultation with and subject to approval by the student's advisory committee.



### Course Distribution

MUSI 502-520 Private Instruction (2)

MUSI 560-584 Ensemble\* (2)

MUSI 529 Topics in Music Theory\*\* (4)

MUSI 532 Music Bibliography and Research Techniques\*\* (2)

MUSI 539 Topics in Music History\*\* (4)

MUSI 590 Graduate Seminar\*\* (2)

MUSI 599 Thesis (2)

Music Electives (4)

Electives (10)

\* offered regular academic year only

\*\* offered summer sessions/alternative years only

### Schedule of Study

Certain required courses in the Master of Arts in Music program are offered only during summer sessions in alternate years. Therefore, every schedule of study for this degree will include two summers of study. The remainder of the program can be completed either in the intervening regular academic year between the two required summers or in one or more additional summers. Students electing a schedule of study using summers only will have to fulfill the ensemble requirement by transfer credit.

### Examinations

1. A comprehensive written and/or oral examination over the student's program of studies is required and must be passed not later than four weeks before commencement.
2. In addition, an oral examination over the thesis must be completed not later than three weeks before commencement.
3. It is the student's responsibility to request the examinations three weeks before the desired dates of examination. All examinations will be administered and evaluated by the student's advisory committee.

## COURSE DESCRIPTIONS

### *Music*

MUSI 502 PRIVATE INSTRUCTION: PIANO (1-4)

MUSI 503 PRIVATE INSTRUCTION: ORGAN (1-4)

MUSI 504 PRIVATE INSTRUCTION: VOICE (1-4)

MUSI 505 PRIVATE INSTRUCTION: VIOLIN/VIOLA (1-4)

MUSI 506 PRIVATE INSTRUCTION: CELLO/BASS (1-4)

MUSI 507 PRIVATE INSTRUCTION: FLUTE (1-4)

MUSI 508 PRIVATE INSTRUCTION: OBOE/ENGLISH HORN (1-4)

MUSI 509 PRIVATE INSTRUCTION: BASSOON (1-4)

MUSI 510 PRIVATE INSTRUCTION: CLARINET (1-4)

MUSI 511 PRIVATE INSTRUCTION: SAXOPHONE (1-4)



- MUSI 512 PRIVATE INSTRUCTION: TRUMPET (1-4)**
- MUSI 513 PRIVATE INSTRUCTION: FRENCH HORN (1-4)**
- MUSI 514 PRIVATE INSTRUCTION: TROMBONE/BARITONE (1-4)**
- MUSI 515 PRIVATE INSTRUCTION: TUBA (1-4)**
- MUSI 516 PRIVATE INSTRUCTION: PERCUSSION (1-4)**
- MUSI 517 PRIVATE INSTRUCTION: GUITAR (1-4)**
- MUSI 518 PRIVATE INSTRUCTION: HARP (1-4)**
- MUSI 519 PRIVATE INSTRUCTION: HARPSICHORD (1-4)**
- MUSI 520 PRIVATE INSTRUCTION: CONDUCTING (1-4)**

### 1 Credit

Fall and Spring semesters: One half-hour private lesson per week in addition to daily practice. Interim: two 45-minute lessons per week in addition to daily practice.

### 2-4 Credits

Fall and Spring semesters: Two half-hour private lessons per week in addition to daily practice. Special fee in addition to tuition.

### **MUSI 527 COMPOSITION**

A systematic approach to contemporary music composition; students create, notate, and perform works for solo, small and large ensembles. May be repeated for credit. (1-4)

### **MUSI 529 TOPICS IN MUSIC THEORY**

a/y, summer only. (4)

### **MUSI 532 MUSIC BIBLIOGRAPHY AND RESEARCH TECHNIQUES**

Survey of the main research tools available for advanced work in music. Course content can be adapted to needs of students in music education, theory, or performance. a/y, summer only. (2)

### **MUSI 539 TOPICS IN MUSIC HISTORY**

a/y, summer only. (2-4)

### **MUSI 545 SEMINAR IN ADVANCED CONDUCTING**

Directed study of selected scores for large and small ensembles, vocal and instrumental. May be repeated for credit. (2)

### **MUSI 549 ELECTRONIC MUSIC SYNTHESIS**

Directed study of electronic music literature, techniques, and composition. May be repeated for credit. (1-2)

### **MUSI 551 ACCOMPANYING**

Practice in accompanying representative vocal and instrumental solo literature from all periods. Accompanying in performance will be required. Special fee in addition to tuition. (1)

### **MUSI 560 CHOIR OF THE WEST**

A study of choral ensemble rehearsal techniques with emphasis on score analysis. (1)

### **MUSI 561 UNIVERSITY CHORALE**

A study of choral ensemble rehearsal techniques with emphasis on vocal pedagogy in the rehearsal. (1)

### **MUSI 565 OPERA WORKSHOP**

Production of chamber opera and opera scenes. Participation in all facets of production. Prerequisite: consent of instructor. (1)

### **MUSI 568 CHORAL UNION**

Rehearsal and performance of major works in the choral/orchestral repertoire with emphasis on score analysis. Special fee in addition to tuition. (1)

**MUSI 570 WIND ENSEMBLE**

A study of band rehearsal techniques with emphasis on score analysis. (1)

**MUSI 575 UNIVERSITY JAZZ ENSEMBLE**

A study of jazz ensemble rehearsal techniques with emphasis on stylistic considerations. (1)

**MUSI 578 VOCAL JAZZ ENSEMBLE**

Study of vocal jazz ensemble rehearsal techniques with emphasis on stylistic considerations. Membership by audition; concurrent registration in 560 or 561 required. (1)

**MUSI 580 UNIVERSITY SYMPHONY ORCHESTRA**

A study of orchestra ensemble rehearsal techniques with emphasis on score analysis. (1)

**MUSI 581 CHAMBER ENSEMBLE**

Analysis, rehearsal, and performance of selected instrumental chamber music. Prerequisite: consent of instructor. Section A—String; Section B—Brass; Section C—Woodwind; Section D—Early Instruments. (1)

**MUSI 582 CONTEMPORARY DIRECTIONS ENSEMBLE**

Public and laboratory performance of contemporary music. Emphasis on score analysis. (1)

**MUSI 583 TWO-PIANO ENSEMBLE**

Performance of two-piano and piano duet literature, including score analysis. (1)

**MUSI 584 CONTEMPORARY ARTS ENSEMBLE**

A multi-arts ensemble with emphasis on composition techniques, repertoire, and performance. (1)

**MUSI 590 GRADUATE SEMINAR (1-4)**

a/y, summer only.

**MUSI 596 RESEARCH IN MUSIC (1-4)****MUSI 599 THESIS (2-4)**

*David Robbins, Chair of the Music Department.*

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# *Social Sciences*

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*Master of Arts — Individualized Study*  
*— Marriage and Family Therapy*  
*— Organizational Systems*

John A. Schiller, Ph.D., Dean, Division of Social Sciences

Richard J. Jobst, M.A., Director of Graduate Programs, (206) 535-7660

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## **POLICIES AND STANDARDS**

### **Purpose**

The Division of Social Sciences, which includes the disciplines of anthropology, economics, history, marriage and family therapy, political science, psychology, social work, and sociology, offers the Master of Arts in Social Sciences with concentrations in Marriage and Family Therapy, Organizational Systems, and Individualized Study.

The concentrations in the Master of Arts in Social Sciences program emphasize multidisciplinary approaches to learning and direct applications to public and professional life. Three core courses—a course in social science theory, a course in social science research methods, and a social science research project or thesis—provide concepts and skills that may be applied in a variety of public and private sector settings.

To meet the needs of those with daytime commitments, required courses for the M.A. in Social Sciences are scheduled during the evening. Applications for admission into the program will be evaluated according to the following criteria: undergraduate academic performance during the last two years of the student's baccalaureate program, work experience pertinent to the student's competence for the specialized program the student seeks to pursue, and two letters of recommendation that are pertinent to the student's area of interest and academic abilities. A personal interview may be requested in making an admission decision, but a personal interview is required for all applicants to the Marriage and Family Therapy and Individualized Study concentrations. Special information regarding admission requirements is listed under each concentration's prerequisites.

Students make application to the graduate program through the Office of Graduate Studies. Recommendation regarding admission rests with the faculty coordinator supervising the specific program in which the applicant wishes to pursue graduate study. The recommendation of the coordinator will be reviewed by the director of graduate programs in the Division of Social Sciences and the dean of graduate studies.

### **Advising**

Upon admission, each student is assigned an adviser with whom the student plans a graduate program. Before beginning the research project or

thesis, a student shall request the faculty coordinator of the concentration in which he or she is enrolled to appoint an advisory committee of three faculty members, one of whom is the student's regular adviser. The student consults with the advisory committee during research and submits the results of research to the committee, which will evaluate the student's work.

### **Scholarships**

The Division of Social Sciences has limited funds available for graduate scholarships. Past awards have ranged from \$250 to \$800 a semester. These scholarships are renewable and are awarded on the basis of academic achievement, letters of recommendation, and financial need. To be eligible to apply for a scholarship, students must be enrolled on a full-time basis (taking at least eight graduate hours in a semester), be accepted as a regular status student, and be maintaining a B average in their courses. Application forms and information are available in the Office of Graduate Programs in Social Sciences, Xavier Hall. Application deadlines for scholarships are July 1 for the fall semester and December 1 for the spring semester. Divisional scholarships are not available for summer sessions.

### **Core Courses**

In the M.A. in Social Sciences, SSCI 502 Social Science Theory and SSCI 505 Social Science Research Methods must be among the first five courses completed, exclusive of prerequisite requirements. A student who receives a B- or lower in a core course must retake the course. A student who retakes a course and fails to receive a B or better will be subject to dismissal from the program.

### **Transfer Credits**

Students may petition to transfer graduate course work from other accredited institutions into the M.A. in Social Sciences program. Petitions must be approved by an adviser, the faculty coordinator, the director of graduate programs in the social sciences and the dean of graduate studies. No transfer credit will be allowed for courses with a grade lower than a B. Transfer credit is subject to the same seven-year limitations as all other graduate work.

### **Candidacy Proposal**

Students seeking the M.A. in Social Sciences must complete a candidacy proposal upon completion of twenty semester hours of course work. The candidacy proposal requires a student to demonstrate the ability to synthesize the theoretical and methodological knowledge acquired in the core courses by the preparation of a formal research project or thesis proposal. The research project or thesis proposal will examine a substantive topic appropriate to the student's degree program. A committee consisting of the core faculty and a faculty member of the student's concentration will evaluate the proposal.

### **General Prerequisites**

Applicants must have completed a B.A. or B.S. degree with at least 20 semester hours of credit in the social sciences, which must include the specific prerequisites for the concentration the applicant wishes to pursue. See individual concentrations.

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### **General Requirements & Core Courses: Minimum of 36 Semester Hours**

Every candidate seeking the M.A. in Social Sciences must complete at least 36 hours of graduate work. Every candidate must complete an interdisciplinary core of three courses:

- SSCI 502 Social Science Theory (4)
- SSCI 505 Research Methods (4)
- 598 Research Project (4) *or*
- 599 Thesis (4)

In addition, students must complete at least 24 semester hours in the concentration of their choice. Specific requirements for each program follow. A minimum of 16 hours of 500-level courses is required.

### **INDIVIDUALIZED STUDY: 36 Semester Hours**

Faculty Coordinator: Richard J. Jobst, M.A., (206) 535-7660.

#### **Program Objectives**

The Individualized Study program in the social sciences is designed for individuals who want to pursue their own personal educational goals, prepare for further graduate study, or prepare for careers or career advancement in a variety of fields, ranging from public service to social science research.

#### **Prerequisites**

The student's program committee will assess whether the 20 semester hours in social science provide the necessary background for the individual theme the student wishes to pursue.

Both an interview with the faculty coordinator and a formal study proposal are required before admission to this concentration. The proposal form consists of a description of the proposed area of study, career plans and goals, and the relationship between the degree program and career or personal goals. The form is available through the Division of Social Sciences Graduate Office.

### **Core Courses & Research Requirement: 12 Semester Hours**

- SSCI 502 Social Science Theory (4)
- SSCI 505 Social Science Research Methods (4)
- 598 Research Project (4) *or*
- 599 Thesis (4)

### **Concentration Requirements: 24 Semester Hours**

Courses will be chosen in consultation with the adviser. A program must include at least eight semester hours in each of two separate social science disciplines. Upon approval of the adviser, a student may take up to eight semester hours in a field or fields outside of the social sciences.

**MARRIAGE AND FAMILY THERAPY: 40 Semester Hours**

Faculty Coordinator: Charles D. York, Ph.D., (206) 535-7599.

**Program Objectives**

The primary objective of the Marriage and Family Therapy concentration is to train individuals to be competent in the scholarship and clinical practice of marriage and family therapy. The concentration emphasizes academic study, rigorous evaluation, and direct supervision of one's clinical competence.

**Prerequisites**

Beyond the general prerequisites (see above), the following courses or course equivalents are required before admission as a regular status student:

- Abnormal Psychology
- Counseling Methods/Interviewing
- Human Development
- Theories of Therapy

A personal interview with the program faculty is required. A comprehensive autobiographical statement (minimum eight typed pages) must accompany the application. The statement should address the following questions:

1. What significant life events have most influenced your present development and your desire to be a family therapist?
2. What are your professional career goals after completing your degree?
3. What are your strengths that will help you achieve your professional goals?
4. What do you consider to be the areas for personal growth in yourself that will need the most attention during your training as a therapist at Pacific Lutheran University?

**Core Courses & Research Requirements: 12 Semester Hours**

- SSCI 502 Social Science Theory (4)
- SSCI 505 Social Science Research Methods (4)
- MFTH 598 Research Project (4) *or*
- MFTH 599 Thesis (4)

**Concentration Requirements: 28 Semester Hours**

- MFTH 503 Systems Approach to Marital & Family Therapy (4)
- MFTH 507 Comparative Marital & Family Therapy (4)
- MFTH 510 Sex Therapy (2)
- MFTH 511 Psychosocial Pathology: Relationship to Marriage & Family (2)
- MFTH 519-522 Practica I-IV (16)

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**ORGANIZATIONAL SYSTEMS: 40 Semester Hours**

Contact Director, Social Sciences Graduate Program, for information:  
(206) 535-7399.

**Program Objectives**

The Organizational Systems concentration emphasizes organizational theory, behavior, and change, as well as how individuals function and behave in organizational settings. The program enables students to become more effective professionally in applying social science approaches to the issues of organizational effectiveness and the problems facing complex organizations.

**Core Courses & Research Requirement: 12 Semester Hours**

- SSCI 502 Social Science Theory (4)  
 SSCI 505 Social Science Research Methods (4)  
     598 Research Project (4) *or*  
     599 Thesis (4)

**Concentration Requirements: 28 Semester Hours**

- PSYC 510 Industrial/Organizational Psychology (4)  
 BUSA 550 Organizational Behavior and Environment (4)  
 BUSA 554 Planned Organizational Change (4)  
 SOCI 514 Organizational and Systems Theory (4)  
 SOCI 530 Group Dynamics: Theory and Practice (4)  
 SOCI 534 Sociology of Work: Quality of Life (4)  
 SOCI 551 Interventions Practicum I (2)  
 SOCI 552 Interventions Practicum II (2)
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**COURSE OFFERINGS*****Social Sciences Core*****SSCI 502 SOCIAL SCIENCE THEORY**

An analysis of social explanation and the social science frame of reference. (4)

**SSCI 505 SOCIAL SCIENCE RESEARCH METHODS**

Basic research concepts applied to laboratory, field, and bibliographic studies. Topics include formulating research questions, research designs, data gathering techniques, analysis of data, and theory construction. Emphasis on understanding and evaluating rather than conducting research. (4)

***Economics*****ECON 500 APPLIED STATISTICAL ANALYSIS**

An intensive introduction to statistical methods for graduate students who have not previously taken introductory statistics. Emphasis on the application of inferential statistics to concrete situations. Topics include: measures of location and variation, probability, estimation, hypothesis tests, and regression. (4)

**ECON 504 ECONOMIC ANALYSIS AND POLICY DECISIONS**

Basic economic concepts applied to policy formation and operating decisions. (4)

**ECON 543 QUANTITATIVE METHODS**

The concepts of probability, sampling, statistical decision theory, linear programming, and other deterministic models applied to managerial problems. Prerequisite: STAT 231 or 341. (4)

## *Marriage and Family Therapy*

### **MFTH 503 SYSTEMS APPROACH TO MARRIAGE AND FAMILY THERAPY**

An introduction to the systems theory approach for treatment strategy and intervention. Exploration of the family life cycle and family systems oriented assessment models. Strategies for initial interviews, hypothesis formulation, designing a strategy of intervention, and the process of termination. (4)

### **MFTH 507 COMPARATIVE MARRIAGE AND FAMILY THERAPY**

Intensive comparative study of the theoretical rationale of the prominent schools of thought within the field of marriage and family therapy. Studies include the range of strategies, techniques and research of structural, behavioral communication, and analytical approaches to marriage and family therapy. (4)

### **MFTH 510 SEX THERAPY**

Basic principles and strategies of treatment for the six most common sexual dysfunctions. The nature of sexual health, a brief review of anatomy and physiology of the sexual response, and the biological and psychological determinants of sexual dysfunction. (2)

### **MFTH 511 PSYCHOSOCIAL PATHOLOGY: RELATIONSHIP TO MARRIAGE AND THE FAMILY**

The assessment of psychosocial pathology and its relationship to family interpersonal structures and dynamics. Exploration of the treatment techniques and assumptions of leading family therapists regarding such psychosocial dysfunctions as divorce, family violence, delinquency, psychosomatic systems, drug addiction, and disturbed adolescents. (2)

### **MFTH 519 PRACTICUM I (4)**

### **MFTH 520 PRACTICUM II (4)**

### **MATH 521 PRACTICUM III (4)**

### **MFTH 522 PRACTICUM IV (4)**

The four semesters of practica are part of a continuous process toward developing specific therapeutic competencies in work with marriages and families. The practica present a competency-based program in which each student is evaluated regarding: 1) case management skills; 2) relationship skills; 3) perceptual skills; 4) conceptual skills; and 5) structuring skills.



*Richard J. Jobst, Director of Graduate Programs in the Social Sciences.*



## *Psychology*

### **PSYC 510 INDUSTRIAL/ORGANIZATIONAL PSYCHOLOGY**

Human behavior in work settings. Applications or extension of psychological factors and principles to the problems of individuals operating within an organizational context—including human relations skills, human factors, individual group differences, and role-related behaviors. (4)

## *Sociology*

### **SOCI 514 ORGANIZATIONAL AND SYSTEMS THEORY**

Examination of the nature, origins, and structures of organizations and bureaucracies. Classic and contemporary theories of organizations are reviewed and critiqued. The influence, power, and social responsibilities of large organizations are examined from a historical as well as a contemporary perspective. (4)

### **SOCI 530 GROUP DYNAMICS: THEORY AND PRACTICE**

Examination of concepts and principles of human behavior in groups. Topics considered include membership, leadership, authority, cohesiveness, goals, norms, and processes. The application and use of theory in applied settings are explored. (4)

### **SOCI 534 SOCIOLOGY OF WORK: QUALITY OF LIFE**

Evaluation of job satisfaction in terms of occupational stress, fair compensation issues, job enrichment, career advancement and performance. Exploration of techniques of job redesign and enrichment along with trends for future workplaces. (4)

### **SOCI 551 INTERVENTIONS PRACTICUM I**

Application of organizational change theory within an applied setting. Emphasis upon identifying work situations for change and developing techniques for implementing change. (2)

### **SOCI 552 INTERVENTIONS PRACTICUM II**

Implementation and analysis of actual intervention within an organizational system or laboratory simulation with applied emphasis. Prerequisite: 551. (2)

## *Offered in All Departments*

All departments of the Division of Social Sciences (**Anthropology, Economics, History, Political Science, Psychology, Social Work/Marriage and Family Therapy, Sociology**) offer the following courses:

### **501 GRADUATE WORKSHOPS**

Graduate workshops in special fields or areas of varying periods of time. (1-4)

### **590 GRADUATE SEMINAR**

Selected topics as announced. Prerequisite: consent of the instructor. (1-4)

### **591 DIRECTED STUDY (1-4)**

### **595 GRADUATE READINGS (1-4)**

### **598 RESEARCH PROJECT (4)**

### **599 THESIS (4)**

# Academic Administration

President .....	William O. Rieke
Provost <i>pro tem</i> .....	David C. Yagow
Dean of Graduate Studies .....	David M. Atkinson
Dean, Division of Humanities .....	Janet E. Rasmussen
Dean, Division of Natural Sciences .....	John O. Herzog
Graduate Program Coordinator, Computer Science .....	Lennard Nelson
Dean, Division of Social Sciences .....	John A. Schiller
Director of Graduate Programs .....	Richard J. Jobst
Dean, School of the Arts .....	Richard D. Moe
Chair, Department of Music .....	David P. Robbins
Graduate Program Coordinator .....	Ann K. Tremaine
Dean, School of Business Administration .....	Gundar J. King
Director of the M.B.A. Program .....	Laura J. Polcyn
Dean, School of Education .....	Robert L. Mulder
Director of Graduate Programs & Fifth Year Adviser .....	Nan G. Nokleberg
Dean, School of Nursing .....	D. Moira Mansell
Dean, School of Physical Education .....	David M. Olson
Dean, Summer Studies .....	Richard D. Moe
Dean, Admissions and Financial Aid .....	James Van Beek
Registrar .....	Charles T. Nelson
Director of the Library .....	John W. Heussman
Vice President for Development .....	Luther W. Bekemeier
Vice President for Finance and Operations .....	Donald A. Sturgill
Vice President for Student Life .....	S. Erving Severtson
Vice President for Church Relations .....	Harvey J. Neufeld



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# *Board of Regents*

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With the formation of the Evangelical Lutheran Church in America (ELCA) on January 1, 1988, the PLU Corporation has been reconstituted. The corporation meets annually on the PLU campus to elect regents and to conduct other business. The corporation consists of 37 regents and 125 delegates from the six synods of Region I of the Evangelical Lutheran Church in America. The Board of Regents includes eighteen representatives from the ELCA, nine regents-at-large, three regents representing the Alumni Association, six bishops from the synods of Region I, and the university president.

## **Representing Region I of the Evangelical Lutheran Church in America**

Petra Onella Brunner, Mt. Vernon, WA  
 Neil R. Bryant, Bend, OR  
 Cynthia Edwards, Tacoma, WA  
 Michael W. Foss, Portland, OR  
 Ronald W. Grewenow, Lake Oswego, OR  
 Paul A. Hoglund, Bellevue, WA  
 Robert R. Howard, Fairbanks, AK  
 Frank R. Jennings, Kent, WA  
 Christine Larson, Pullman, WA  
 John Oakley, Bothell, WA  
 Arthur M. Peterson, Billings, MT  
 Barry Rogge, Tacoma, WA  
 Wayne P. Saverud, Kalispell, MT  
 David S. Steen, Olympia, WA  
 Christy N. Ulleland, Seattle, WA  
 Karen M. Vigeland, Vancouver, WA  
 George Wehmann, Idaho Falls, ID  
 Donald M. Wick, Pasco, ID

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 Jerrald Armstrong, Joliet, IL  
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**Representing Pacific Lutheran University Alumni Association**

Jon B. Olson, Thousand Oaks, CA

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Synod 2 (Northwest Washington) — Lowell Knutson

Synod 3 (Southwest Washington) — David Wold

Synod 4 (Eastern Washington and Idaho) — Robert Keller

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David Yagow

# RECOMMENDATION FORM



Office of Graduate Studies  
PACIFIC LUTHERAN UNIVERSITY  
Tacoma, Washington 98447-0003

Applicant's Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_ Zip \_\_\_\_\_

## APPLYING FOR:

- Master of Business Administration
- Master of Arts, Computer Applications
- Master of Science, Computer Science
- Master of Arts in Music
- Master of Arts in Social Sciences \_\_\_\_\_ (concentration)
- Master of Arts in Education \_\_\_\_\_ (concentration)

*(The information above is to be filled out by the applicant.)*

In compliance with the Family Education Rights and Privacy Act of 1974, effective November 21, 1974, this recommendation will be placed in the applicant's graduate file and may be reviewed by the individual upon request, unless the waiver in the left margin on the reverse side has been signed.

## TO THE PERSON COMPLETING THIS REFERENCE:

The Graduate Admissions Committee requests two recommendations before considering applicants for admission to graduate study. Writers of recommendations are asked to complete this form and return it directly to the Office of Graduate Studies at the above address.

What has been your relationship to the applicant? (Check as many as apply.)

- Instructor (undergraduate/graduate)
- Academic Adviser
- Employer/Supervisor
- Other (specify) \_\_\_\_\_

Please describe the applicant's performance by placing an "X" in the appropriate space opposite each characteristic:

	NO BASIS FOR JUDGMENT	EXCELLENT	ABOVE AVERAGE	AVERAGE	BELOW AVERAGE
Academic knowledge in major field	[ ]	[ ]	[ ]	[ ]	[ ]
Practical knowledge/skills in major field	[ ]	[ ]	[ ]	[ ]	[ ]
Ability to implement new ideas and techniques	[ ]	[ ]	[ ]	[ ]	[ ]
Relating to and working with others	[ ]	[ ]	[ ]	[ ]	[ ]
Leadership ability	[ ]	[ ]	[ ]	[ ]	[ ]
Ability to do work at graduate level	[ ]	[ ]	[ ]	[ ]	[ ]
Emotional maturity	[ ]	[ ]	[ ]	[ ]	[ ]
Written command of the English language	[ ]	[ ]	[ ]	[ ]	[ ]
Oral command of the English language	[ ]	[ ]	[ ]	[ ]	[ ]
Contributions as worker and member of society	[ ]	[ ]	[ ]	[ ]	[ ]
Overall ranking of applicant	[ ]	[ ]	[ ]	[ ]	[ ]

As far as you know, do undergraduate grades give an accurate evaluation of the applicant's academic potential for graduate work?

- No basis for judgment       Grades underrate potential       Grades correctly reflect potential       Grades overrate potential

We would appreciate any other information that might aid us in evaluating the applicant's qualifications. (If additional space is needed, please use a separate sheet of paper.)

Name of Respondent \_\_\_\_\_ Date \_\_\_\_\_

Signature \_\_\_\_\_ Address \_\_\_\_\_

Position \_\_\_\_\_

I waive the right to be shown information on this form which is to be used for graduate admissions purposes only, and thereby declare it to be confidential.

Date \_\_\_\_\_

Signature \_\_\_\_\_



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Office of Graduate Studies  
Hauge Administration Building, Room 104  
(206) 535-7141

David M. Atkinson  
*Dean of Graduate Studies*

Kay Balston  
*Program Coordinator*

Carolyn R. Sundby  
*Administrative Assistant*



PACIFIC LUTHERAN UNIVERSITY

Tacoma, Washington 98447-0003

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