

1974

## PAU Graduate Bulletin 1974-1975

Pan American University

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# Pan American University

## Edinburg, Texas



**1974-75 GRADUATE BULLETIN**

# **PAN AMERICAN UNIVERSITY**

**Edinburg, Texas**

Member of  
Association of Texas Colleges and Universities  
American Council on Education  
Association of American Colleges  
American Association of Colleges for Teacher Education  
Southern Association of Colleges and Schools  
Approved for Teacher Education by the  
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**COVER PHOTO** — A portion of the education building, highlighted by a huge fountain-patio area, is shown as it looks from a hovering helicopter about 60 feet off the ground. On the left is a portion of the office complex and on the right, the classroom area.

This bulletin was compiled by the office of the graduate dean and edited by the office of information. All photographs, including the one on the cover, were taken by Gerald Whitaker.



# UNIVERSITY CALENDAR

## 1974-75

Dates and deadlines for applications for student loans, scholarships, or other financial aid are set up by the Financial Aid Office and are discussed in the BUSINESS AFFAIRS section of this catalog under FINANCIAL ASSISTANCE FOR GRADUATE STUDY in this catalog.

GRE tests will be given each semester. Contact the Student Affairs Office for applications, as well as time and place for taking the test.

### FIRST SEMESTER

#### August 5, Monday

Application for Admission and supporting documents (immunization certificate, transcript of credits, teaching certificates, and GRE test results) must be received by the Graduate Admissions Office by this date to insure processing for admission to fall semester. Prospective students should file documents as early as possible before this deadline.

#### August 25, Sunday

Dormitories will be open for occupancy at 1:00 p.m.

#### August 27, Tuesday

Faculty meetings

#### August 28, Wednesday

Registration by appointment will begin at 8:00 a.m.

Registration by appointment for evening classes will begin at 7:00 p.m.

#### August 29, Thursday, and August 30, Friday

Registration by appointment continues through Friday afternoon.

Thursday evening appointments for graduate students only.

**Note: If a student wishes to register for any combination of regular day and Saturday or day and evening classes, he must register according to his day assignment.**

#### September 3, Tuesday

Classes begin.

First day for making schedule changes.

#### September 4, Wednesday

Last day for making schedule changes

**September 16, Monday**

Twelfth class day. Last day for any tuition or fee refund.

**October 2, Wednesday**

Last day to drop a course or to withdraw from the University without having a grade recorded.

**October 14, Monday**

Deadline for filing an **Application for Degree** form with the Registrar's Office for students expecting to graduate in May, 1975.

**October 21, Monday**

Unsatisfactory reports will be filed with the Registrar's Office and posted by 9:00 a.m.

**November 21-23, inclusive**

Thanksgiving.

**December 11-17, inclusive**

First semester final examinations.

**December 19, Thursday**

Grade reports due in Registrar's Office by 9:00 a.m.  
End of first semester.

**SECOND SEMESTER**

**December 9, Monday**

Application for Admission must be received by the Admission Office by this date to insure processing for admission to spring semester.

**January 15, Wednesday**

Dormitories will be open for occupancy at 8:00 a.m.

**January 16-17**

Registration by appointment.

**January 20, Monday**

Classes begin  
First day for making schedule changes.

**January 21, Tuesday**

Last day for making schedule changes

**February 1, Saturday**

Twelfth class day. Last day for any tuition or fee refund.

**February 13, Thursday**

Deadline for filing an **Application for Degree** form with the Registrar's Office for students expecting to graduate in August, 1975.

**February 24, Monday**

Last day to drop a course or to withdraw from the University without having a grade recorded.

**March 10, Monday**

Unsatisfactory reports will be filed with the Registrar's Office and posted by 9:00 a.m.

**March 24-29, inclusive**

Spring recess.

**April 25, Friday**

Deadline for filing **completed, signed theses** with the Graduate Office for students expecting to graduate in May, 1975.

**April 29, Tuesday**

Deadline for filing an **Application for Degree** form with the Registrar's Office for students expecting to graduate in December, 1975.

**May 8-14, inclusive**

Second semester final examinations.  
Dormitories close at 6:00 p.m. on May 14.

**May 16, Friday**

Grade reports due in Registrar's Office by 9:00 a.m.

**May 25, Sunday**

Commencement exercises.

## SUMMER SESSION, 1975

### **April 25, Friday**

Application for Admission form must be received by the Graduate Admission Office by this date to insure processing for admission to either term or both terms of the summer session.

### **June 2, Monday**

Registration by appointment for first summer term.

### **June 4, Wednesday**

Classes begin.

### **June 5, Thursday**

Last day to register or make changes in class schedules.

### **June 7, Saturday**

Fourth class day. Last day for any tuition or fee refund.

### **July 4, Friday**

Independence Day.

### **July 9, Wednesday**

First term final examinations.

### **July 11, Friday**

Registration by appointment for second summer term.

### **July 14, Monday**

Classes begin.

### **July 15, Tuesday**

Last day to register or make changes in class schedules.

### **July 17, Thursday**

Fourth class day. Last day for any tuition or fee refund.

### **July 24, Thursday**

Deadline for filing **completed, signed theses** with the Graduate Office for students expecting to graduate in August, 1975.

### **August 15, Friday**

Second term final examinations.

### **August 24, Sunday**

Commencement exercises.

# OFFICERS OF PAN AMERICAN UNIVERSITY

## BOARD OF REGENTS

Morris Atlas	McAllen
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## NATURE AND PURPOSE OF GRADUATE WORK

Graduate study is more than a continuation of undergraduate work. It calls for greater diligence and effort, and it should be pursued in the true spirit of inquiry, coupled with the desire to add something to human knowledge. Because initiative, ability and diligence are demanded to complete work of this type, a certain amount of selectivity must be exercised in the admission of students to graduate study. Pan American University has set as a standard the requirement that the student must have demonstrated by his scholastic achievements, or his scores on aptitude tests, the ability to do graduate level work.

## GENERAL INFORMATION

The purpose of this bulletin is to provide essential information about the Graduate School of Pan American University. Details about such matters as the overall policies of the institution are set forth in the regular Pan American University catalog, which may be obtained from the Registrar of the University.

## ADMISSION TO THE GRADUATE SCHOOL

Students seeking admission may obtain application forms by writing to the Graduate Admissions Office. To insure processing of an application for a given semester, the applicant should have on file in the Graduate Admissions Office the application for admission with all supporting documents by one of the following dates:

August 5—for September enrollment

December 9—for January enrollment

April 25—for Summer Session enrollment in either term or both terms

Failure to have applications with supporting documents on file by these dates may result in an application not being considered. Supporting documents include the following:

- two official transcripts of all prior undergraduate and graduate work,
- a transcript of scores on the Graduate Record Examination (Aptitude only),
- a transcript of TOEFL scores for foreign students.

Applicants should request that registrars of colleges previously attended and the Educational Testing Service send the transcripts directly to the Director of Graduate Admissions. GRE scores more than five years old are out of date and, therefore, not acceptable.

Students working for the Master of Education degree and/or the professional certificate must file in the Graduate Admissions Office a copy of the certificate(s) which they already possess.

Admission is only for the semester requested and does not imply automatic admission for later semesters. A student who has been enrolled in a graduate program at Pan American University, but who has not been in attendance for the previous regular semester, should apply for readmission at least thirty days prior to registration for the semester in which he plans to resume graduate study.

### BASIC REQUIREMENTS FOR ADMISSION

1. A Bachelor's degree or its equivalent from any college or university of recognized standing.
2. A satisfactory score on the aptitude portion of the Graduate Record Examination.
3. A satisfactory grade point average in upper division, undergraduate major course work, in all upper division, undergraduate course work, and in any previous graduate work already completed.
4. Acceptance by the Dean of the Graduate School and the department of the proposed major.
5. Immunization Requirement: Under Texas State law, an up-to-date Diphtheria-Tetanus immunization is required of all students entering Graduate School. Immunization certificates can be obtained from and will be processed through the Office of the Registrar.

### ADMISSION OF FOREIGN STUDENTS

Foreign students from countries whose native language is not English will ordinarily be expected to take the test of English as a Foreign Language. Students

scoring below 500 on the TOEFL will normally be denied admission, while those scoring between 500 and 550, but otherwise meeting departmental requirements will be expected to take remedial courses in English.

Foreign students must submit scores on the Aptitude portion of the Graduate Record Examination. Exceptions must be approved by the Dean of the Graduate School.

Further information on the test of English as a Foreign Language and the Graduate Record Examination may be obtained by writing

The Educational Testing Service  
20 Nassau Street  
Princeton, New Jersey 08540

## TRANSFER OF CREDITS

A maximum of twelve hours of appropriate graduate work earned at other institutions, subject to the approval of the head of the major department, may be transferred for degree credit. Credit may not be transferred for:

1. Courses which would not have received graduate credit at Pan American University.
2. Courses with grades less than B.
3. Correspondence courses.
4. Extension courses.
5. Courses taken at such a date that would exceed the seven-year time limit of the student's program.

**Transfer of graduate credit hours is not automatic.** The student must submit a written request for approval of transfer to the head of the major department, who determines whether all of the conditions for transfer have been met before adding the hours to the graduate degree program.

## RESERVATION OF WORK BY UNDERGRADUATES FOR GRADUATE CREDIT

It is possible for undergraduate students to register in graduate courses in their last semester under the following conditions:

1. The undergraduate must lack no more than twelve semester hours of work to complete all requirements for his (first) Bachelor's degree.
2. These twelve hours (or less) must all be completed in the same semester or summer session (twelve weeks) in which he is taking the graduate courses.
3. Total registration for all work must not exceed fifteen semester hours in a regular semester or twelve semester hours in a summer session (twelve weeks).
4. The application for such graduate courses must be submitted to the Director of Graduate Admissions sixty days before the session begins. Graduate Record Examination Aptitude Test scores and undergraduate grade-point averages must meet those standards for regular admission to the Graduate School.



The undergraduate cannot count his work in graduate courses toward his Bachelor's degree. It will be reserved for credit toward a graduate degree.

#### SATISFACTORY PRIOR GRADES AND CORRECTION OF DEFICIENCIES

When his application and supporting documents have been processed, a potential graduate student receives an Admission Notice from the Graduate Office. Admission to the Graduate School at PAU falls into one of two categories: **clear** or **conditional**. The student's admission status is noted in writing on his Admission Notice, which should be retained by the student until he has been admitted to candidacy.

Graduate work completed prior to enrollment at PAU must indicate that the student can do graduate work (B or better).

The required minimum grade point average in 3000 and 4000 level (junior and senior) work is 2.50 overall and 2.75 in the undergraduate major field and/or in the undergraduate work in the proposed major field (based on a 4.0 scale). (See also **Basic Requirements for Admission**.)

A student desiring to work toward an advanced degree

(1) in an area in which his undergraduate training and/or his GPA is insufficient

and/or

(2) for which his GRE/MAT scores are too low

may be admitted by the Graduate Dean (on the recommendation of the student's major department head) with the understanding that he must complete course work and other study to make up the deficiencies noted by his graduate department head, such makeup work to be in addition to the regular degree requirements. These deficiencies must be made up before the student may be admitted to candidacy. **THE STUDENT SHOULD WORK CLOSELY WITH HIS GRADUATE ADVISOR IN PLANNING A PROGRAM FOR REMOVING ANY DEFICIENCIES NOTED** because failure to remove deficiencies may cause the student to be barred from subsequent registration in the Graduate School.

A student not admitted to the Graduate School who feels that unusual circumstances warrant a review of his case may direct a written appeal to the **Graduate Council**.

Because of the unique nature of some special programs in which participants can only be identified just prior to registration and the need for test score information prior to the next scheduled GRE test date, the MAT (Miller Analogies Test) may be used in lieu of the GRE, but only after approval by the **Graduate Dean**.

#### PROCEDURE AFTER ADMISSION

The successful applicant will receive a letter of acceptance from the Graduate School, whereupon he should contact the head of his major department, who will appoint a graduate advisor to counsel with the student concerning the details of his registration, degree program, and other required procedures. The student must have his course program approved each semester by his advisor (or an approved substitute) before he can register for courses.

## GENERAL GRADUATE SCHOOL REGULATIONS

### STUDENT RESPONSIBILITY

Graduate students are expected to inform themselves thoroughly concerning the regulations of the Graduate School and its course requirements for degrees and to make inquiries in case of doubt. **It shall not be the Graduate School responsibility should complications arise because of failure to follow regulations and requirements.** Procedural changes may be made from time to time after notice to the student body or to the individuals concerned. A student must keep the graduate office advised of his local mailing address.

### GRADES, GRADE-POINT AVERAGES AND CONTINUANCE

Grade points are assigned graduate students as follows: 4 for each semester hour of A, 3 for B, 2 for C, 0 for F. (D is not given.) All grades earned (including those for repeated courses) will be used to compute the grade-point average. A minimum grade-point overall average of 3.0 (B) is required for a graduate degree. Every semester hour of C, therefore, must be balanced by one of A, since an overall average of B is required for a degree. Should a graduate student make less than a B average in a given semester, he will be warned that his continuance is in jeopardy. **During the following semester or summer school, he must recoup an overall B average or be automatically dismissed.** He may be readmitted only after petitioning the Graduate Council and receiving its approval and that of the Graduate Dean.

A grade of I may be given when a student has failed to complete the required work of a course within the allotted time of a regular semester or summer term if the instructor determines that the reasons for the work being incomplete are valid and that the grade of I is justified. A grade of I must be changed within one regular (fall or spring) semester from the date received, unless an extension is requested by the student's instructor, or it will automatically be recorded as an F on the official transcript.

### MAXIMUM COURSE LOAD

The normal load for a full time graduate student is twelve semester hours. A student may be permitted to enroll for fifteen semester hours with the approval of his graduate advisor and the Graduate Dean.

Students who are employed as full time teachers may not enroll for more than six hours in one semester or more than twelve semester hours during the normal nine (9) month public school year.

### ADDING AND DROPPING COURSES AND WITHDRAWAL FROM THE UNIVERSITY

Graduate students are expected to register only after careful planning and consultation with their advisors. Hence, a schedule change requires a valid reason and must be accomplished no later than the fifth class day of a regular semester or the second class day of a summer term. No courses may be dropped without the approval of the student's graduate advisor.

Withdrawal from a course after the fourth week of classes in a regular semester or after the tenth day of classes in a summer term will result in the student receiving a grade of Drop Pass (DrP) or Drop Fail (DrF).

## CONTINUATION IN THE GRADUATE SCHOOL

If a student discontinues courses without permission or persists in unreasonable neglect of his responsibilities, he may be suspended by the Graduate Dean.

## REQUIREMENTS FOR ALL MASTER'S DEGREES

1. After completion of twelve and before completion of eighteen hours of work, the graduate student will be given an oral examination as a basis for his admission to candidacy.
2. The thesis will be optional. Thirty-six hours of course work or twenty-four hours of course work plus six hours for the thesis will be required.
3. During or at the end of the student's final semester of work, he will be given a comprehensive written examination (if he has not elected the thesis option) or an oral examination (if he has completed a thesis).
4. All degree programs will allow a student the option to include a minimum of six semester hours of work which is not a part of his major field.
5. A maximum of 18 hours in 5000 level courses may be taken for graduate credit.

## PROCEDURES AND REGULATIONS FOR COMPLETION OF THE DEGREE

### COURSES COUNTED FOR ANOTHER DEGREE

No course counted in another degree may be counted toward a Master's degree at Pan American University.

### TIME LIMITS

All requirements for a Master's degree must be completed **within one seven-year period**. Work over seven years old is lost and can be reinstated only by special permission of the Graduate Dean, upon recommendation of the student's graduate advisory committee.

### GRADUATION UNDER A PARTICULAR CATALOG

General and specific requirements for degrees in Graduate School may be altered in successive catalogs, but the student is bound only by the requirements of the catalog in force at the time of his admission, within a seven-year limit. At his discretion he may choose to fulfill the requirements of a subsequent catalog.

### ADMISSION TO CANDIDACY

A student is not automatically admitted to candidacy for the Master's degree. **First, he must remove all deficiencies and receive clear admission to the Graduate School.** Second, after completion of twelve hours but before completion of eighteen hours, he must apply for admission to candidacy to the Head of his major department, who will appoint a committee to conduct the oral examination required at this point in the graduate program. Upon completion of the oral examination to the satisfaction of the committee, the chairman so notifies the Head of the major department, who completes the application and forwards it to the Graduate Dean. The application is signed both by the student's graduate advisor and the Head of the major department. When the application is approved

by the Graduate Dean, both the student and the Head of the major department receive written notification of the student's admission to candidacy.

## THESIS

The candidate for the Master's degree writes his thesis (if he selects the thesis program) under the direction of a supervising instructor who is chairman of the supervisory committee appointed by the Graduate Dean. The thesis subject requires the approval of both the supervisory committee and the Graduate Dean. The researching and writing of the thesis carries with it six semester hours of credit. The original thesis and two copies must be submitted to the office of the Graduate Dean.

Once the student registers for 7300, he must continue to register for 7300 or 7301 each succeeding semester until the thesis is completed.

The original thesis and two copies (signed by the student's committee) must be submitted to the office of the Graduate Dean thirty (30) days prior to graduation. (See calendar in front of bulletin for exact date.) A department may require additional copies of the thesis (at additional binding expense to the student).

Individual department deadlines for submission of thesis to the student's supervisory committee will be established to complement the thesis time schedule for the office of the Graduate Dean.

Before qualifying for graduation, the student must pay a fee of thirty dollars (\$30) for microfilming and binding the thesis and the publication of the thesis abstract in **Masters Abstracts**. If a student wishes to copyright his thesis, a fee of fifteen dollars (\$15) will provide this service by an arrangement between the Graduate School office and Microfilms Incorporated.

Two copies of a non-illustrated abstract which does not exceed 150 words in length must accompany the signed thesis. This abstract is the material to be printed in **Masters Abstracts**.

If a student wishes to have additional copies of his thesis bound for his personal use, he may do so at an additional cost of four dollars (\$4.00) per copy.

## SUBSTITUTIONS FOR THE THESIS

In certain instances a substitution for the formal thesis may be recommended to the Graduate Dean by the appropriate department committee on graduate studies. Such substitutions may include internship reports (where the internship is approved as an essential part of the graduate program by the Dean) or reports prepared in certain graduate seminars or conferences. In each instance such a substitution for the thesis must have the **prior** approval of the Graduate Dean. Reports should be comparable to the thesis in every respect except for the evidence of original research. A report must be (1) from a **specifically authorized** seminar, conference, or research course which has the **prior** approval of the Dean of the Graduate School and (2) reviewed and accepted by the student's supervisory committee. Upon acceptance of the report by the committee, the candidate must submit the original and two copies, entirely comparable to a thesis in terms of format, quality of paper, typing, binding, etc., to the Office of the Graduate Dean. The student may submit thirty-six hours of approved graduate courses in lieu of either thesis or report plans.

## GRADUATION

Degrees are awarded at the end of the fall semester, the spring semester, and the summer semester, but formal public ceremonies are held only at the spring and summer commencements. All candidates are urged to attend commencement exercises.

## COOPERATIVE ED.D PROGRAM WITH THE UNIVERSITY OF HOUSTON

The Department of Education, in cooperation with the University of Houston, offers work which may be used in partial fulfillment of the requirements of the Ed.D. degree. The cooperative program will allow a student to complete his residence requirements in two summer sessions and one regular semester on the University of Houston campus and to do up to twenty-four (24) semester hours of his doctoral program on the Pan American University campus.

Specific information on the program may be obtained from the office of the Dean of the Graduate School. An applicant must meet the requirements for admission to the Graduate School of each university, as well as those of the department in which he plans to specialize.

## GRE TEST DATES

October 26, 1974	Penalty dates and closing dates for receipt of applications have not as yet been set.
December 7, 1974	
January 18, 1975	Penalty dates are usually about 25 days ahead of test dates.
February 22, 1975	
April 26, 1975	Closing dates (after which no applications will be accepted even with a late enrollment fee) are usually about 18 days ahead of test dates.
June 14, 1975	

## BROWNSVILLE CENTER

**Dr. Ralph A. Penington, Director**

The Brownsville Center of Pan American University is an upper-level institution offering junior, senior, and graduate level work leading to bachelor's and master's degrees. Authorized by the state legislature in the spring of 1973, the Brownsville Center was organized during the summer and opened that fall with programs in accounting, biology, education, English, government, history, law enforcement, management, and Spanish. Wider offerings are contemplated for the future.

The Brownsville Center is located on the campus of Texas Southmost College, a well-established two-year junior college. The two institutions operate as separate institutions, but a cooperative spirit exists between them, assuring the student of a smooth transition from his lower- to his upper-level and graduate-level college work.

The establishment of the Brownsville Center makes it possible for those living

in this area to pursue their undergraduate and graduate studies more conveniently without the necessity of traveling a considerable distance to Pan American University at Edinburg or to some other institution. Students from Texas Southmost College may elect to continue their studies at the Brownsville Center, and many teachers, plant and business personnel, and housewives will find it convenient to continue their education or take refresher courses at the Brownsville Center.

Generally, to be admitted for undergraduate study at the Brownsville Center, a student must have completed sixty (60) hours of college work and meet all other requirements for undergraduate admission set forth in the general Pan American University catalog. To be admitted for graduate study, a student must meet all admission requirements for graduate school at Pan American University as specified in this graduate school catalog. Applications for admission, or any additional information, may be obtained by writing to:

The Director  
Brownsville Center  
Pan American University  
80 Fort Brown  
Brownsville, Texas 78520

### FIELDS OF GRADUATE STUDY

Pan American University is authorized to offer the following Graduate degree and Certificate programs:

- Master of Arts (Majors: English, history, and Spanish)
- Master of Education (Elementary)
- Master of Education in Counseling and Guidance (Elementary)
- Master of Education in Diagnostic Education (Elementary)
- Master of Education in Supervision (Elementary)
- Master of Education (Secondary)
- Master of Education in Counseling and Guidance (Secondary)
- Master of Education in Diagnostic Education (Secondary)
- Master of Education in Supervision (Secondary)
- Master of Education in Health and Physical Education
- Master of Education in Educational Administration
- School Administrator's Certificate Programs (Middle Management and Superintendency.
- Master of Science (Majors: biology and mathematics)
- Cooperative Ed.D. Program with the University of Houston
- Minor work for the degree may be done in the following fields:

Biology	Government	Mathematics
Education	Health and Physical Education	Spanish
English	History	

### SUPPORT AREAS

Art	Mass Communications	Psychology
Business	Music	Sociology
Chemistry	Physics	Speech and Drama

## TEACHING CERTIFICATES

Students may pursue work toward professional certification simultaneously with work toward a graduate degree.

Candidates for the Master of Education degree should complete the academic requirements for the professional certificate as a classroom teacher, a counselor, an educational diagnostician, or a supervisor. Candidates for the Master of Arts or the Master of Science degree should complete the academic requirements for the professional certificate in the major field selected for the degree.

Candidates who already hold the Master's degree may qualify for the professional certificate and are particularly urged to do so as their individual educational objectives will be furthered by professional certification.

Applicants for the professional certificate must hold the provisional certificate. Because the provisional certificate is based upon the Bachelor's degree, no more than six hours of the work used to obtain the Master's degree may apply toward this certificate. These six hours may not also be applied toward the professional certificate.

Application for the professional certificate should be made in the office of the Dean of the School of Education during the semester in which the certification requirements will be completed. Students may not qualify for a professional certificate at Pan American University unless they have also completed all of the requirements for an appropriate Master's degree.

Specific degree and certification requirements are identified in the requirements of the appropriate degree program outlined in the following sections:



**A student searches for that so important bit of material among thousands of volumes in the university library which she needs for completion of a class assignment or perhaps personal satisfaction.**



## SCHOOL OF EDUCATION

Degree: Master of Education

Majors: Educational Administration  
Elementary Education  
Health and Physical Education  
Secondary Education

Dr. Fred J. Cunningham, Dean of the School of Education

Dr. James L. Williamson, Head of the Department of Elementary Education

Programs under the direction of the Department of Elementary Education:

Elementary Education

Counselor (Elementary and Secondary)

Counselor Education (Elementary and Secondary)

Educational Diagnostician (Elementary and Secondary)

Dr. Barry B. Thompson, Head of the Department of Secondary Education

Programs under the direction of the Department of Secondary Education:

Secondary Education

Supervision (Elementary and Secondary)

Administration (Middle Management and Superintendency)

Dr. W. Darrel Black, Head of the Department of Health and Physical Education

## THE SCHOOL OF EDUCATION

The School of Education offers courses leading to a Master of Education in Secondary Education, Elementary Education, Educational Administration, and Health and Physical Education and providing minor and support areas for degrees in other fields.

Undergraduate requirements for a minor or specialization area: 12 semester hours, 6 hours of which must be advanced.

The following programs in education are intended primarily for personnel in public schools, but the knowledge and skills are applicable to other agencies (social, community, city, state, federal, etc.). A student may complete some M.Ed. programs at PAU without meeting all the specific certification requirements. However, the eighteen (18) semester hours of undergraduate education requirements may not be waived. Please consult with the director of each program for more specific guidelines and information.

Credit for a 5000 level course is not given to a student with previous undergraduate credit in a similar course.

### REQUIREMENTS BY THE SCHOOL OF EDUCATION

In addition to the general admission requirements set out elsewhere in this bulletin, the following specific requirements must be met:

1. Applicants for admission will be required to have completed eighteen semester hours of undergraduate work in their proposed graduate major field. These eighteen hours will include a minimum of twelve hours of advanced work. Each minor graduate field presented will require evidence of completion of twelve hours of undergraduate work, of which six must be advanced hours.
2. The choice of courses in the major and minor fields, as well as the nature of the supporting work, will be determined through consultation between the student and his graduate advisor.
3. Requirements for admission to certification programs in Educational Administration are specifically outlined in the Educational Administration section of this catalog.

**MASTER OF EDUCATION DEGREE**  
36 Hour - Non Thesis Program

**Major**

**Non-Certification**

**Elementary Education**

**CONTENT COURSES**

**(12 hours)**

- Ed. 6323 PROBLEMS IN THE TEACHING OF READING
- Ed. 6326 SCIENCE IN THE ELEMENTARY SCHOOL CURRICULUM
- Ed. 6327 SOCIAL STUDIES IN THE ELEMENTARY SCHOOL CURRICULUM
- Ed. 6328 MATHEMATICS IN THE ELEMENTARY SCHOOL CURRICULUM

**PROFESSIONAL DEVELOPMENT**

**(9-12 hours)**

- Ed. 6301 INSTRUCTIONAL MEDIA IN TEACHING
- Ed. 6302 ADVANCED EDUCATIONAL PSYCHOLOGY
- Ed. 6303 ADVANCED PHILOSOPHY OF EDUCATION
- Ed. 6306 THE SUPERVISION OF STUDENT TEACHERS
- Ed. 6307 COMPARATIVE EDUCATION
- Ed. 6311 ADVANCED CHILD PSYCHOLOGY
- Ed. 6313 INDIVIDUAL EDUCATIONAL TESTING
- Ed. 6322 THE BILINGUAL CHILD
- Ed. 6330 THE CURRICULUM IN THE ELEMENTARY SCHOOL
- Ed. 6332 RESEARCH IN ELEMENTARY EDUCATION
- Ed. 6360 INTRODUCTION TO COUNSELING AND GUIDANCE
- Ed. 6367 STATISTICAL METHODS
- Ed. 6370 SUPERVISION OF INSTRUCTION
- Ed. 6390 EDUCATION OF YOUNG CHILDREN
- Ed. 6397 ANALYSIS OF TEACHING BEHAVIOR

**RESOURCE AREAS**

**(9-12 hours)**

- Ed. 6325 DIRECTED PRACTICE IN REMEDIAL READING
  - Ed. 6329 DIAGNOSTIC AND REMEDIAL TEACHING OF READING
  - Ed. 6363 PERSONAL ADJUSTMENT
  - Ed. 6364 PSYCHOLOGY OF BEHAVING
  - Psy. 5323 PSYCHOLOGY OF LEARNING
  - Psy. 5333 THEORIES OF PERSONALITIES
- (or 6 hours from any of the graduate level courses outside the major or minor fields may be taken as resource area courses)

**DEGREE REQUIREMENTS**

**(6 hours)**

- \*Ed. 5312 TESTS AND MEASUREMENTS FOR THE ELEMENTARY CLASSROOM TEACHER
- Ed. 6300 GRADUATE ORIENTATION

**TOTAL 36 hours**

\*If student had Ed. 3312 at the undergraduate level, he will substitute an elective from the courses listed above.

**MASTER OF EDUCATION DEGREE**  
**30 Hour - Thesis Program**

**Major**

**Non-Certification**

**Elementary Education**

**CONTENT COURSES**

- Ed. 6323 PROBLEMS IN THE TEACHING OF READING
- Ed. 6326 SCIENCE IN THE ELEMENTARY SCHOOL CURRICULUM
- Ed. 6327 SOCIAL STUDIES IN THE ELEMENTARY SCHOOL CURRICULUM
- Ed. 6328 MATHEMATICS IN THE ELEMENTARY SCHOOL CURRICULUM

**PROFESSIONAL DEVELOPMENT**

**(6 hours)**

- Ed. 6301 INSTRUCTIONAL MEDIA IN TEACHING
- Ed. 6302 ADVANCED EDUCATIONAL PSYCHOLOGY
- Ed. 6303 ADVANCED PHILOSOPHY OF EDUCATION
- Ed. 6306 THE SUPERVISION OF STUDENT TEACHERS
- Ed. 6307 COMPARATIVE EDUCATION
- Ed. 6311 ADVANCED CHILD PSYCHOLOGY
- Ed. 6313 INDIVIDUAL EDUCATIONAL TESTING
- Ed. 6322 THE BILINGUAL CHILD
- Ed. 6330 THE CURRICULUM IN THE ELEMENTARY SCHOOL
- Ed. 6332 RESEARCH IN ELEMENTARY EDUCATION
- Ed. 6360 INTRODUCTION TO COUNSELING AND GUIDANCE
- Ed. 6361 APPRAISAL OF LEARNING ABILITIES
- Ed. 6367 STATISTICAL METHODS
- Ed. 6370 SUPERVISION OF INSTRUCTION
- Ed. 6390 THE EDUCATION OF YOUNG CHILDREN
- Ed. 6397 ANALYSIS OF TEACHING BEHAVIOR

or

**RESOURCE AREA**

The student may substitute 6 hours from any of the graduate level courses outside the field of education for the 6 hours of professional development courses.

**THESIS**

**(6 hours)**

- Ed. 7300, 7301 THESIS

**DEGREE REQUIREMENTS**

**(6 hours)**

- \*Ed. 5312 TESTS AND MEASUREMENTS FOR THE ELEMENTARY CLASSROOM TEACHER
- Ed. 6300 GRADUATE ORIENTATION

**TOTAL (30 hours)**

\*If the student had Ed. 3312 at the undergraduate level, he will substitute an elective for this requirement.

**MASTER OF EDUCATION DEGREE**  
**36 Hour - Non Thesis Program**

<b>Major</b>	<b>Certificate</b>
Elementary Education	Professional Elementary
<b>SPECIALIZATION AREA (minor)</b>	<b>(12 hours)</b>
12 hours of graduate level courses in one of the following fields or a combination of two divided 9-3 or 6-6:	
Biology, English, Government, Health and Physical Education, History, Mathematics, Spanish	

**PROFESSIONAL DEVELOPMENT** (6-12 hours)

- Ed. 5312 TESTS AND MEASUREMENTS FOR THE ELEMENTARY CLASSROOM TEACHER
- Ed. 6301 INSTRUCTIONAL MEDIA IN TEACHING
- Ed. 6302 ADVANCED EDUCATIONAL PSYCHOLOGY
- Ed. 6303 ADVANCED PHILOSOPHY OF EDUCATION
- Ed. 6306 THE SUPERVISION OF STUDENT TEACHERS
- Ed. 6307 COMPARATIVE EDUCATION
- Ed. 6311 ADVANCED CHILD PSYCHOLOGY
- Ed. 6313 INDIVIDUAL EDUCATIONAL TESTING
- Ed. 6322 THE BILINGUAL CHILD
- Ed. 6330 THE CURRICULUM IN THE ELEMENTARY SCHOOL
- Ed. 6332 RESEARCH IN ELEMENTARY CURRICULUM
- Ed. 6360 INTRODUCTION TO COUNSELING AND GUIDANCE
- Ed. 6361 APPRAISAL OF LEARNING ABILITIES
- Ed. 6367 STATISTICAL METHODS
- Ed. 6370 SUPERVISION OF INSTRUCTION
- Ed. 6390 EDUCATION OF YOUNG CHILDREN
- Ed. 6397 ANALYSIS OF TEACHING BEHAVIOR

**RESOURCE AREAS** (6 hours minimum) (6-12 hours)

- Ed. 6323 PROBLEMS IN THE TEACHING OF READING
- Ed. 6325 DIRECTED PRACTICE IN REMEDIAL READING
- Ed. 6326 SCIENCE IN THE ELEMENTARY SCHOOL CURRICULUM
- Ed. 6327 SOCIAL STUDIES IN THE ELEMENTARY SCHOOL CURRICULUM
- Ed. 6328 MATHEMATICS IN THE ELEMENTARY SCHOOL CURRICULUM
- Ed. 6329 DIAGNOSTIC AND REMEDIAL TEACHING OF READING

(or 6 hours from any of the graduate level courses outside the major or minor fields may be taken as resource area courses)

**DEGREE REQUIREMENTS** (6 hours)

- \*Ed. 5312 TESTS AND MEASUREMENTS FOR THE ELEMENTARY CLASSROOM TEACHER
- Ed. 6300 GRADUATE ORIENTATION

**TOTAL 36 hours**

\*If the student had Ed. 3312 at the undergraduate level, he will substitute an elective from the courses listed above.

**MASTER OF EDUCATION DEGREE**  
30 Hour - Thesis Program

<b>Major</b>	<b>Certificate</b>
Elementary Education	Professional Elementary
<b>SPECIALIZATION AREA</b>	<b>(12 hours)</b>
12 hours of graduate level courses in one of the following fields or a combination of two divided 9-3 or 6-6:	
Biology, English, Government, Health and Physical Education, History, Mathematics, Spanish	
<b>PROFESSIONAL DEVELOPMENT</b>	<b>(6 hours)</b>
Ed. 7300,7301 THESIS	
<b>RESOURCE AREA</b>	<b>(6 hours)</b>
Ed. 6306 THE SUPERVISION OF STUDENT TEACHERS	
Ed. 6322 THE BILINGUAL CHILD	
Ed. 6323 PROBLEMS IN THE TEACHING OF READING	
Ed. 6325 DIRECTED PRACTICE IN REMEDIAL READING	
Ed. 6326 SCIENCE IN THE ELEMENTARY SCHOOL CURRICULUM	
Ed. 6327 SOCIAL STUDIES IN THE ELEMENTARY SCHOOL CURRICULUM	
Ed. 6328 MATHEMATICS IN THE ELEMENTARY SCHOOL CURRICULUM	
Ed. 6329 DIAGNOSTIC AND REMEDIAL TEACHING OF READING	
(or six hours from any other graduate level courses outside the major or minor fields may be taken as resource area courses)	
<b>DEGREE REQUIREMENTS</b>	<b>(6 hours)</b>
*Ed. 5312 TESTS AND MEASUREMENTS FOR THE ELEMENTARY CLASSROOM TEACHER	
Ed. 6300 GRADUATE ORIENTATION	
	<b>TOTAL 30 hours</b>
*If the student had Ed. 3312 at the undergraduate level, he will substitute an elective from the courses listed above.	

**MASTER OF EDUCATION DEGREE**  
\*\*39 Hour Non-Thesis Program

<b>Major</b>	<b>Certificate</b>
Elementary Education	Counselor
<b>THE GUIDANCE PROGRAM</b>	<b>(3 hours)</b>
Ed. 6360 INTRODUCTION TO GUIDANCE AND COUNSELING	
<b>THE PUPIL SERVED</b>	<b>(6 hours)</b>
Ed. 6302 ADVANCED EDUCATIONAL PSYCHOLOGY	
Ed. 6322 THE BILINGUAL CHILD	

**RESOURCE AREA****(24 hours)**

- Ed. 6313 INDIVIDUAL EDUCATIONAL TESTING  
or
- Ed. 6361 APPRAISAL OF LEARNING ABILITIES  
and
- Ed. 6345 INFORMATION SERVICES: OCCUPATIONAL, EDUCATIONAL  
AND PERSONAL-SOCIAL
- Ed. 6362 THEORIES AND TECHNIQUES OF COUNSELING
- Ed. 6363 PERSONAL GROWTH
- Ed. 6365 COUNSELING PRACTICUM
- Ed. 6368 GROUP COUNSELING  
and, if the student takes Ed. 6313, he must also take
- Ed. 6314 INDIVIDUAL MENTAL TESTING: Wechsler Scales  
or
- Ed. 6344 INDIVIDUAL MENTAL TESTING: Stanford-Binet  
3-6 hours from
- Ed. 5372 INDIVIDUAL DIFFERENCES SURVEY AND TREATMENT
- Ed. 6306 SUPERVISION OF STUDENT TEACHERS
- Ed. 6311 ADVANCED CHILD PSYCHOLOGY
- Ed. 6323 PROBLEMS IN THE TEACHING OF READING
- Ed. 6330 CURRICULUM IN THE ELEMENTARY SCHOOL
- Ed. 6342 PROBLEMS IN GUIDANCE AND COUNSELING
- Ed. 6364 CONSULTING IN HUMAN RELATIONS
- Ed. 6366 PROBLEMS IN TESTING AND COUNSELING
- Ed. 6367 STATISTICAL METHODS
- Ed. 6381 ADMINISTRATION AND ORGANIZATION OF THE  
PUBLIC SCHOOL
- Ed. 6383 SEMINAR IN SCHOOL AND COMMUNITY  
RELATIONS
- Ed. 6393 ADMINISTRATION OF SCHOOL STAFF PERSONNEL
- Ed. 6394 PSYCHOLOGY OF DECISION MAKING
- Ed. 6397 ANALYSIS OF TEACHING BEHAVIOR
- Psy. 5313 ABNORMAL PSYCHOLOGY
- Psy. 5323 PSYCHOLOGY OF LEARNING
- Psy. 5333 THEORIES OF PERSONALITY
- Soc. 5313 AMERICAN MINORITIES

**DEGREE REQUIREMENTS****(6 hours)**

- \*Ed. 5312 TESTS AND MEASUREMENTS FOR THE  
ELEMENTARY CLASSROOM TEACHER
- Ed. 6300 GRADUATE ORIENTATION

**TOTAL 39 hours**

\*If the student had Ed. 3312 at the undergraduate level, he will substitute an elective from the RESOURCE AREA for this requirement with the approval of the director of the program.

\*\*Students in the Counselor Education Program must complete applications, take tests, and fulfill other specific prerequisites before entering the program. Students need to take the following courses (in the sequence listed) within the first

twelve (12) to eighteen (18) semester hours of the program and prior to taking the oral examination:

Ed. 6300

Ed. 6360

Ed. 6362

Ed. 6363 (may be taken concurrently with Ed. 6362)

Please consult with the director of the program for more specific information.

## MASTER OF EDUCATION DEGREE

39 Hour Thesis Program

Major	Certificate
Elementary Education	Counselor
<b>THE GUIDANCE PROGRAM</b>	(3 hours)
Ed. 6360 INTRODUCTION TO GUIDANCE AND COUNSELING	
<b>THE PUPIL SERVED</b>	(6 hours)
Ed. 6302 ADVANCED EDUCATIONAL PSYCHOLOGY	
Ed. 6322 THE BILINGUAL CHILD	
<b>RESOURCE AREA</b>	(18 hours)
Ed. 6362 THEORIES AND TECHNIQUES OF COUNSELING	
Ed. 6363 PERSONAL GROWTH	
Ed. 6365 COUNSELING PRACTICUM	
3 hours from	
Ed. 6345 INFORMATION SERVICES: OCCUPATIONAL, EDUCATIONAL AND PERSONAL-SOCIAL	
Ed. 6368 GROUP COUNSELING	
6 hours from	
Ed. 5372 INDIVIDUAL DIFFERENCES SURVEY AND TREATMENT	
Ed. 6306 SUPERVISION OF STUDENT TEACHERS	
Ed. 6311 ADVANCED CHILD PSYCHOLOGY	
Ed. 6313 INDIVIDUAL EDUCATIONAL TESTING	
Ed. 6314 INDIVIDUAL MENTAL TESTING: Wechsler Scales	
Ed. 6323 PROBLEMS IN THE TEACHING OF READING	
Ed. 6330 CURRICULUM IN THE ELEMENTARY SCHOOL	
Ed. 6342 PROBLEMS IN GUIDANCE AND COUNSELING	
Ed. 6344 INDIVIDUAL MENTAL TESTING: Stanford-Binet	
Ed. 6361 APPRAISAL OF LEARNING ABILITIES	
Ed. 6364 CONSULTING IN HUMAN RELATIONS	
Ed. 6366 PROBLEMS IN TESTING AND COUNSELING	
Ed. 6367 STATISTICAL METHODS	
Ed. 6381 ADMINISTRATION AND ORGANIZATION OF THE PUBLIC SCHOOL	
Ed. 6383 SEMINAR IN SCHOOL AND COMMUNITY RELATIONS	
Ed. 6393 ADMINISTRATION OF SCHOOL STAFF PERSONNEL	
Ed. 6394 PSYCHOLOGY OF DECISION MAKING	



- Ed. 6397 ANALYSIS OF TEACHING BEHAVIOR
- Psy. 5313 ABNORMAL PSYCHOLOGY
- Psy. 5323 PSYCHOLOGY OF LEARNING
- Psy. 5333 THEORIES OF PERSONALITY
- Soc. 5313 AMERICAN MINORITIES

**THESIS** (6 hours)

- Ed. 7300, 7301 THESIS

**DEGREE REQUIREMENTS** (6 hours)

- \*Ed. 5312 TESTS AND MEASUREMENTS FOR THE ELEMENTARY CLASSROOM TEACHER
- Ed. 6300 GRADUATE ORIENTATION

**TOTAL 39 hours**

\*If the student had Ed. 3312 at the undergraduate level, he will substitute an elective from the RESOURCE AREA for this requirement with the approval of the director of the program.

\*\*Students in the Counselor Education Program must complete applications, take tests, and fulfill other specific prerequisites before entering the program. Students need to take the following courses (in the sequence listed) within the first twelve (12) to eighteen (18) semester hours of the program and prior to taking the oral examination:

- Ed. 6300
- Ed. 6360
- Ed. 6362
- Ed. 6363 (may be taken concurrently with Ed. 6362)

Please consult with the director of the program for more specific information.

**MASTER OF EDUCATION DEGREE**  
36 Hour - Non Thesis Program

**Major** **Certificate**

Elementary Education **Supervisor**

**LEADERSHIP FOR INSTRUCTIONAL IMPROVEMENT** (12 hours)

- Ed. 6330 THE CURRICULUM IN THE ELEMENTARY SCHOOL
- Ed. 6370 SUPERVISION OF INSTRUCTION
- Ed. 6371 PRACTICUM IN SUPERVISION
- Ed. 6379 PROBLEMS IN EDUCATIONAL SUPERVISION

**RESOURCE AREA** (At least 18 hours)

- Ed. 6301 INSTRUCTIONAL MEDIA IN TEACHING
- Ed. 6302 ADVANCED EDUCATIONAL PSYCHOLOGY
- Ed. 6303 ADVANCED PHILOSOPHY OF EDUCATION
- Ed. 6306 SUPERVISION OF STUDENT TEACHING
- Ed. 6307 COMPARATIVE EDUCATION
- Ed. 6311 ADVANCED CHILD PSYCHOLOGY
- Ed. 6313 INDIVIDUAL EDUCATIONAL TESTING
- Ed. 6323 PROBLEMS IN THE TEACHING OF READING

- Ed. 6325 DIRECTED PRACTICE IN REMEDIAL READING
- Ed. 6326 SCIENCE IN THE ELEMENTARY SCHOOL CURRICULUM
- Ed. 6327 SOCIAL STUDIES IN THE ELEMENTARY SCHOOL CURRICULUM
- Ed. 6328 MATHEMATICS IN THE ELEMENTARY SCHOOL CURRICULUM
- Ed. 6329 DIAGNOSTIC AND REMEDIAL TEACHING OF READING
- Ed. 6332 RESEARCH IN ELEMENTARY EDUCATION
- Ed. 6367 STATISTICAL METHODS
- Ed. 6390 THE EDUCATION OF YOUNG CHILDREN
- Ed. 6393 ADMINISTRATION OF STAFF PERSONNEL
- Ed. 6394 PSYCHOLOGY OF DECISION MAKING
- Ed. 6397 ANALYSIS OF TEACHING BEHAVIOR
- Psy. 5323 PSYCHOLOGY OF LEARNING
- Psy. 5333 THEORIES OF PERSONALITIES
- Soc. 5313 AMERICAN MINORITIES

**DEGREE REQUIREMENTS**

(6 hours)

- \*Ed. 5312 TESTS AND MEASUREMENTS FOR THE ELEMENTARY CLASSROOM TEACHER
- Ed. 6300 GRADUATE ORIENTATION

TOTAL 36 hours

\*If the student had Ed. 3312 at the undergraduate level, he will substitute an elective from the above courses with the approval of his advisor. He may also substitute other graduate level courses that will improve his competency as a supervisor (maximum 6 semester hours) with the approval of his advisor.

**MASTER OF EDUCATION DEGREE**  
30 Hour Thesis Program

**Major**

Elementary Education

Certificate  
Supervisor

**LEADERSHIP FOR INSTRUCTIONAL IMPROVEMENT**

(12 hours)

- Ed. 6330 THE CURRICULUM IN THE ELEMENTARY SCHOOL
- Ed. 6370 SUPERVISION OF INSTRUCTION
- Ed. 6371 PRACTICUM IN SUPERVISION
- Ed. 6379 PROBLEMS IN EDUCATIONAL SUPERVISION

**RESOURCE AREA**

(6 hours)

- Ed. 6301 INSTRUCTIONAL MEDIA IN TEACHING
- Ed. 6302 ADVANCED EDUCATIONAL PSYCHOLOGY
- Ed. 6303 ADVANCED PHILOSOPHY OF EDUCATION
- Ed. 6306 SUPERVISION OF STUDENT TEACHING
- Ed. 6307 COMPARATIVE EDUCATION
- Ed. 6311 ADVANCED CHILD PSYCHOLOGY
- Ed. 6313 INDIVIDUAL EDUCATIONAL TESTING
- Ed. 6323 PROBLEMS IN THE TEACHING OF READING
- Ed. 6325 DIRECTED PRACTICE IN REMEDIAL READING

- Ed. 6326 SCIENCE IN THE ELEMENTARY SCHOOL CURRICULUM
- Ed. 6327 SOCIAL STUDIES IN THE ELEMENTARY SCHOOL CURRICULUM
- Ed. 6328 MATHEMATICS IN THE ELEMENTARY SCHOOL CURRICULUM
- Ed. 6329 DIAGNOSTIC AND REMEDIAL TEACHING OF READING
- Ed. 6332 RESEARCH IN ELEMENTARY EDUCATION
- Ed. 6390 THE EDUCATION OF YOUNG CHILDREN
- Ed. 6393 ADMINISTRATION OF STAFF PERSONNEL
- Ed. 6394 PSYCHOLOGY OF DECISION MAKING
- Ed. 6397 ANALYSIS OF TEACHING BEHAVIOR
- Psy. 5323 PSYCHOLOGY OF LEARNING
- Psy. 5333 THEORIES OF PERSONALITIES
- Soc. 5313 AMERICAN MINORITIES

#### THESIS AREA

(6 hours)

- Ed. 7300, 7301 THESIS

#### DEGREE REQUIREMENTS

- \*\*Ed. 5312 TESTS AND MEASUREMENTS FOR THE ELEMENTARY CLASSROOM TEACHER
- Ed. 6300 GRADUATE ORIENTATION

TOTAL 30 hours

\*\*If the student had Ed. 3312 at the undergraduate level, he will substitute an elective from the above courses with the approval of his advisor. He may also substitute other graduate level courses that will improve his competency as a supervisor (maximum 6 semester hours) with the approval of his advisor.

### MASTER OF EDUCATION

The student is responsible for checking with the Director of Special Education for specific departmental requirements.

#### Major

#### Certificate

Elementary Education

Educational Diagnostician

#### KNOWLEDGE OF THE EXCEPTIONAL CHILD

(9 hours)

- Ed. 5372 INDIVIDUAL DIFFERENCES: SURVEY AND TREATMENT
- Ed. 6316 PERCEPTUAL BASIS OF LANGUAGE DEVELOPMENT
- Ed. 6317 PERCEPTUAL MOTOR DEVELOPMENT IN YOUNG CHILDREN
- Ed. 6374 PROBLEMS OF THE ACADEMIC ADJUSTMENT CHILD
- Ed. 6376 PROBLEMS IN TEACHING THE EMOTIONALLY DISTURBED

#### KNOWLEDGE OF PSYCHOEDUCATIONAL AND OTHER DIAGNOSTIC PROCEDURES

(9 hours)

- Ed. 6313 INDIVIDUAL EDUCATIONAL TESTING

Ed. 6314 INDIVIDUAL MENTAL TESTING: Wechsler Scales  
Ed. 6344 INDIVIDUAL MENTAL TESTING: Stanford-Binet

**KNOWLEDGE OF HUMAN DEVELOPMENT (3 hours)**

Ed. 6311 ADVANCED CHILD PSYCHOLOGY

**KNOWLEDGE OF LEARNING (6 hours)**

Psy. 5323 PSYCHOLOGY OF LEARNING

Ed. 6361 APPRAISAL OF LEARNING ABILITIES

**KNOWLEDGE OF INSTRUCTIONAL MODIFICATION,  
INCLUDING PRACTICAL APPLICATION (REMEDIAION  
TECHNIQUES AND MATERIALS) (6 hours)**

Ed. 6304 PRACTICUM IN DIAGNOSIS AND THERAPY FOR  
LEARNING DISABILITIES

Ed. 6318 DIAGNOSTIC AND PRESCRIPTIVE TEACHING

Ed. 6329 DIAGNOSTIC AND REMEDIAL TEACHING OF READING

Ed. 6362 THEORIES AND TECHNIQUES OF COUNSELING

Ed. 6373 TECHNIQUES AND METHODS FOR THE SLOW LEARNER

**DEGREE REQUIREMENTS (6 hours)**

Ed. 6300 GRADUATE ORIENTATION

\*Ed. 5312 TESTS AND MEASUREMENTS

**TOTAL 39 hours**

\*If student had Ed. 3312 at the undergraduate level, he may substitute an elective from the courses listed above.

## **MASTER OF EDUCATION DEGREE**

30 Hour - Thesis Program

### **Major**

### **Non-Certification**

Secondary Education

**SPECIALIZATION AREA (12 hours)**

12 semester hours of graduate level courses in one of the following fields:

Biology, English, Government, Health and Physical Education, History,  
Mathematics, Spanish

**RESOURCE AREA (6 hours)**

6 semester hours from any of the graduate level courses (excluding education and the specialization area) that will improve the classroom teacher's competency

**THESIS (6 hours)**

Ed. 7300, 7301 THESIS

**DEGREE REQUIREMENTS (6 hours)**

\*Ed. 5342 TESTS AND MEASUREMENTS FOR THE SECONDARY  
CLASSROOM TEACHER

Ed. 6300 GRADUATE ORIENTATION

**TOTAL 30 hours**

\*If the student had Ed. 3342 at the undergraduate level, he will substitute an elective with the approval of his advisor.

**MASTER OF EDUCATION DEGREE**  
36 Hour - Non Thesis Program

**Major** Secondary Education **Certificate** Professional Secondary

**SPECIALIZATION AREA** (12 hours)

12 semester hours of graduate level courses in one of the following fields:  
Biology, English, Government, Health and Physical Education, History,  
Mathematics, Spanish

**RESOURCE AREA** (6 hours)

6 semester hours from any of the graduate level courses (excluding education and the specialization area) that will improve the classroom teacher's competency.

**PROFESSIONAL DEVELOPMENT** (12 hours)

12 semester hours selected from the following for non-thesis programs.

Required:

- Ed. 6331 THE CURRICULUM IN THE SECONDARY SCHOOL
- Ed. 6380 PRACTICUM FOR SECONDARY TEACHERS  
6 hours selected from:
- Ed. 5331 TEACHING READING TO THE SECONDARY STUDENT
- Ed. 5352 SECONDARY CLASSROOM METHODS AND MATERIALS
- Ed. 6301 INSTRUCTIONAL MEDIA IN TEACHING
- Ed. 6302 ADVANCED EDUCATIONAL PSYCHOLOGY
- Ed. 6303 ADVANCED PHILOSOPHY OF EDUCATION
- Ed. 6306 SUPERVISION OF STUDENT TEACHING
- Ed. 6307 COMPARATIVE EDUCATION
- Ed. 6333 RESEARCH IN SECONDARY EDUCATION
- Ed. 6341 ADVANCED ADOLESCENT PSYCHOLOGY
- Ed. 6353 TEACHING THE DISADVANTAGED SECONDARY LEARNER
- Ed. 6361 APPRAISAL OF LEARNING ABILITIES
- Ed. 6397 ANALYSIS OF TEACHING BEHAVIOR

**DEGREE REQUIREMENTS** (6 hours)

- \*Ed. 5342 TESTS AND MEASUREMENTS FOR THE SECONDARY CLASSROOM TEACHER
- Ed. 6300 GRADUATE ORIENTATION

**TOTAL 36 hours**

\*If the student had Ed. 3342 at the undergraduate level, he will substitute an elective from the courses listed under professional development with the approval of his advisor.

**MASTER OF EDUCATION DEGREE**  
36 Hour - Thesis Program

<b>Major</b>	<b>Certificate</b>
Secondary Education	Professional Secondary
<b>SPECIALIZATION AREA</b>	<b>(12 hours)</b>
12 semester hours of graduate level courses in one of the following fields: Biology, English, Government, Health and Physical Education, History, Mathematics, Spanish	
<b>RESOURCE AREA</b>	<b>(6 hours)</b>
6 semester hours from any of the graduate level courses (excluding education and the specialization area) that will improve the classroom teacher's com- petency	
<b>PROFESSIONAL DEVELOPMENT</b>	<b>(6 hours)</b>
Required:	
Ed. 6331 THE CURRICULUM IN THE SECONDARY SCHOOL	
Ed. 6380 PRACTICUM FOR SECONDARY TEACHERS	
<b>THESIS</b>	<b>(6 hours)</b>
Ed. 7300, 7301 THESIS	
<b>DEGREE REQUICEMENTS</b>	<b>(6 hours)</b>
*Ed. 5342 TESTS AND MEASUREMENTS FOR THE SECONDARY CLASSROOM TEACHER	
Ed. 6300 GRADUATE ORIENTATION	
<b>TOTAL 36 hours</b>	
*If the student had Ed. 3342 at the undergraduate level, he will substitute an elective with the approval of his advisor.	

**MASTER OF EDUCATION DEGREE**  
\*\*39 Hour Non-Thesis Program

<b>Major</b>	<b>Certificate</b>
Secondary Education	Counselor
<b>THE GUIDANCE PROGRAM</b>	<b>(3 hours)</b>
Ed. 6360 INTRODUCTION TO GUIDANCE AND COUNSELING	
<b>THE PUPIL SERVED</b>	<b>(6 hours)</b>
Ed. 6302 ADVANCED EDUCATIONAL PSYCHOLOGY	
Ed. 6353 TEACHING THE DISADVANTAGED SECONDARY LEARNER	
<b>RESOURCE AREA</b>	<b>(24 hours)</b>
Ed. 6313 INDIVIDUAL EDUCATIONAL TESTING	
or	
Ed. 6361 APPRAISAL OF LEARNING ABILITIES	
and	

- Ed. 6345 INFORMATION SERVICES: OCCUPATIONAL, EDUCATIONAL AND PERSONAL-SOCIAL
- Ed. 6362 THEORIES AND TECHNIQUES OF COUNSELING
- Ed. 6363 PERSONAL GROWTH
- Ed. 6365 COUNSELING PRACTICUM
- Ed. 6368 GROUP COUNSELING  
and, if the student takes Ed. 6313, he must also take
- Ed. 6314 INDIVIDUAL MENTAL TESTING: Wechsler Scales  
or
- Ed. 6344 INDIVIDUAL MENTAL TESTING: Stanford-Binet  
3-6 hours from
- Ed. 5372 INDIVIDUAL DIFFERENCES SURVEY AND TREATMENT
- Ed. 6306 SUPERVISION OF STUDENT TEACHERS
- Ed. 6331 CURRICULUM IN THE SECONDARY SCHOOL
- Ed. 6341 ADVANCED ADOLESCENT PSYCHOLOGY
- Ed. 6342 PROBLEMS IN GUIDANCE AND COUNSELING
- Ed. 6364 CONSULTING IN HUMAN RELATIONS
- Ed. 6366 PROBLEMS IN TESTING AND COUNSELING
- Ed. 6367 STATISTICAL METHODS
- Ed. 6381 ADMINISTRATION AND ORGANIZATION  
OF THE PUBLIC SCHOOL
- Ed. 6383 SEMINAR IN SCHOOL AND COMMUNITY RELATIONS
- Ed. 6393 ADMINISTRATION OF SCHOOL STAFF PERSONNEL
- Ed. 6394 PSYCHOLOGY OF DECISION MAKING
- Ed. 6397 ANALYSIS OF TEACHING BEHAVIOR
- Psy. 5313 ABNORMAL PSYCHOLOGY
- Psy. 5323 PSYCHOLOGY OF LEARNING
- Psy. 5333 THEORIES OF PERSONALITY
- Soc. 5313 AMERICAN MINORITIES

#### DEGREE REQUIREMENTS

(6 hours)

- \*Ed. 5342 TESTS AND MEASUREMENTS FOR THE  
SECONDARY CLASSROOM TEACHER
- Ed. 6300 GRADUATE ORIENTATION

TOTAL 39 hours

\*If the student had Ed. 3342 at the undergraduate level, he should substitute an elective from the RESOURCE AREA for this requirement with the approval of the director of the program.

\*\*Students in the Counselor Education Program must complete application, take tests, and fulfill other specific prerequisites before entering the program. Students need to take the following courses (in the sequence listed) within the first twelve (12) to eighteen (18) semester hours of the program and prior to taking the oral examination:

Ed. 6300

Ed. 6360

Ed. 6362

Ed. 6363 (may be taken concurrently with Ed. 6362)

Please consult with the director of the program for more specific information.

**MASTER OF EDUCATION DEGREE**

**\*\*39 Hour Thesis Program**

<b>Major</b>	<b>Certificate</b>
<b>Secondary Education</b>	<b>Counselor</b>
<b>THE GUIDANCE PROGRAM</b>	<b>(3 hours)</b>
Ed. 6360 INTRODUCTION TO GUIDANCE AND COUNSELING	
<b>THE PUPIL SERVED</b>	<b>(6 hours)</b>
Ed. 6302 ADVANCED EDUCATIONAL PSYCHOLOGY	
Ed. 6353 TEACHING THE DISADVANTAGED SECONDARY LEARNER	
<b>RESOURCE AREA</b>	<b>(18 hours)</b>
Ed. 6362 THEORIES AND TECHNIQUES OF COUNSELING	
Ed. 6363 PERSONAL GROWTH	
Ed. 6365 COUNSELING PRACTICUM 3 hours from	
Ed. 6345 INFORMATION SERVICES: OCCUPATIONAL, EDUCATIONAL AND PERSONAL-SOCIAL	
Ed. 6368 GROUP COUNSELING 6 hours from	
Ed. 5372 INDIVIDUAL DIFFERENCES SURVEY AND TREATMENT	
Ed. 6306 SUPERVISION OF STUDENT TEACHERS	
Ed. 6313 INDIVIDUAL EDUCATIONAL TESTING	
Ed. 6314 INDIVIDUAL MENTAL TESTING: Wechsler Scales	
Ed. 6331 CURRICULUM IN THE SECONDARY SCHOOL	
Ed. 6341 ADVANCED ADOLESCENT PSYCHOLOGY	
Ed. 6342 PROBLEMS IN GUIDANCE AND COUNSELING	
Ed. 6344 INDIVIDUAL MENTAL TESTING: Stanford-Binet	
Ed. 6361 APPRAISAL OF LEARNING ABILITIES	
Ed. 6364 CONSULTING IN HUMAN RELATIONS	
Ed. 6366 PROBLEMS IN TESTING AND COUNSELING	
Ed. 6367 STATISTICAL METHODS	
Ed. 6381 ADMINISTRATION AND ORGANIZATION OF THE PUBLIC SCHOOL	
Ed. 6383 SEMINAR IN SCHOOL AND COMMUNITY RELATIONS	
Ed. 6394 PSYCHOLOGY OF DECISION MAKING	
Ed. 6397 ANALYSIS OF TEACHING BEHAVIOR	
Psy. 5313 ABNORMAL PSYCHOLOGY	
Psy. 5323 PSYCHOLOGY OF LEARNING	
Psy. 5333 THEORIES OF PERSONALITY	
Soc. 5313 AMERICAN MINORITIES	
<b>THESIS</b>	<b>(6 hours)</b>
Ed. 7300, 7301 THESIS	
<b>DEGREE REQUIREMENTS</b>	<b>(6 hours)</b>
*Ed. 5342 TESTS AND MEASUREMENTS FOR THE SECONDARY CLASSROOM TEACHER	



Ed. 6300 GRADUATE ORIENTATION

TOTAL 39 hours

\*If the student had Ed. 3342 at the undergraduate level, he should substitute an elective from the RESOURCE AREA for this requirement with the approval of the director of the program.

\*\*Students in the Counselor Education Program must complete applications, take tests, and fulfill other specific prerequisites before entering the program. Students need to take the following courses (in the sequence listed) within the first twelve (12) to eighteen (18) semester hours of the program and prior to taking the oral examination:

Ed. 6300

Ed. 6360

Ed. 6362

Ed. 6363 (may be taken concurrently with Ed. 6362)

Please consult with the director of the program for more specific information.

**MASTER OF EDUCATION DEGREE**

36 Hour - Non Thesis Program

**Major**

**Certificate**

Secondary Education

Supervisor

**LEADERSHIP FOR INSTRUCTIONAL IMPROVEMENT**

(12 hours)

Ed. 6331 THE CURRICULUM IN THE SECONDARY SCHOOL

Ed. 6370 SUPERVISION OF INSTRUCTION

Ed. 6371 PRACTICUM IN SUPERVISION

Ed. 6379 PROBLEMS IN EDUCATIONAL SUPERVISION

**RESOURCE AREA**

(12 hours)

The Student and the Learning Process

(a minimum of 6 hours)

Ed. 5351 TEACHING READING TO THE SECONDARY STUDENT

Ed. 5352 SECONDARY CLASSROOM METHODS AND MATERIALS

Ed. 6302 ADVANCED EDUCATIONAL PSYCHOLOGY

Ed. 6036 SUPERVISION OF STUDENT TEACHING

Ed. 6341 ADVANCED ADOLESCENT PSYCHOLOGY

Ed. 6361 APPRAISAL OF LEARNING ABILITIES

Psy. 5313 ABNORMAL PSYCHOLOGY

Psy. 5323 PSYCHOLOGY OF LEARNING

Instructional Methods and Materials

(a minimum of 6 hours)

Ed. 6301 INSTRUCTIONAL MEDIA IN TEACHING

Ed. 6333 RESEARCH IN SECONDARY EDUCATION

Ed. 6353 TEACHING THE DISADVANTAGED SECONDARY LEARNER

Ed. 6393 ADMINISTRATION OF STAFF PERSONNEL

Ed. 6394 PSYCHOLOGY OF DECISION MAKING  
Ed. 6397 ANALYSIS OF TEACHING BEHAVIOR

**ELECTIVES**

(a minimum of 6 hours)

On the advice and with the approval of his advisor, the student may take 6 or 9 semester hours in one of the following specialization areas to increase his competency in a specific content area:

Biology, English, Government, Health and Physical Education, History, Mathematics, Spanish

He may also substitute any of the other graduate level courses that will improve his competency as a supervisor.

**DEGREE REQUIREMENTS**

(6 hours)

\*Ed. 5342 TESTS AND MEASUREMENTS FOR THE  
SECONDARY CLASSROOM TEACHER

Ed. 6300 GRADUATE ORIENTATION

TOTAL 36 hours

\*If the student had Ed. 3342 at the undergraduate level, he will substitute an elective from the courses listed above with the approval of his advisor.

**MASTER OF EDUCATION DEGREE**

30 Hour - Thesis Program

**Major**

**Certificate**

Secondary Education

Supervisor

**LEADERSHIP FOR INSTRUCTIONAL IMPROVEMENT**

(12 hours)

Ed. 6331 THE CURRICULUM IN THE SECONDARY SCHOOL

Ed. 6370 SUPERVISION OF INSTRUCTION

Ed. 6371 PRACTICUM IN SUPERVISION

Ed. 6379 PROBLEMS IN EDUCATIONAL SUPERVISION

**THESIS**

(6 hours)

Ed. 7300, 7301 THESIS

**ELECTIVES**

(a minimum of 6 hours)

On the advice and with the approval of his advisor, the student may take 6 semester hours in one of the following specialization areas to increase his competency in a specific content area:

Biology, English, Government, Health and Physical Education, History, Mathematics, Spanish

He may also substitute any of the other graduate level courses that will improve his competency as a supervisor.

**DEGREE REQUIREMENTS**

(6 hours)

\*Ed. 5342 TESTS AND MEASUREMENTS FOR THE  
SECONDARY CLASSROOM TEACHER

Ed. 6300 GRADUATE ORIENTATION

TOTAL 30 hours

\*If the student had Ed. 3342 at the undergraduate level, he will substitute an elective with the approval of his advisor.

## MASTER OF EDUCATION

The student is responsible for checking with the Director of Special Education for specific departmental requirements.

Major	Certificate
Secondary Education	Educational Diagnostician
<b>KNOWLEDGE OF THE EXCEPTIONAL CHILD</b>	<b>(9 hours)</b>
Ed. 5372 INDIVIDUAL DIFFERENCES: SURVEY AND TREATMENT	
Ed. 6316 PERCEPTUAL BASIS OF LANGUAGE DEVELOPMENT	
Ed. 6317 PERCEPTUAL MOTOR DEVELOPMENT IN YOUNG CHILDREN	
Ed. 6374 PROBLEMS IN THE ACADEMIC ADJUSTMENT CHILD	
Ed. 6376 PROBLEMS IN TEACHING THE EMOTIONALLY DISTURBED	
Psy. 5313 ABNORMAL PSYCHOLOGY	
<b>KNOWLEDGE OF PSYCHOEDUCATIONAL AND OTHER DIAGNOSTIC PROCEDURES</b>	<b>(9 hours)</b>
Ed. 6313 INDIVIDUAL EDUCATIONAL TESTING	
Ed. 6314 INDIVIDUAL MENTAL TESTING: Wechsler Scales	
Ed. 6344 INDIVIDUAL MENTAL TESTING: Stanford-Binet	
<b>KNOWLEDGE OF HUMAN DEVELOPMENT</b>	<b>(3 hours)</b>
Ed. 6341 ADVANCED ADOLESCENT PSYCHOLOGY	
<b>KNOWLEDGE OF LEARNING</b>	<b>(6 hours)</b>
Psy. 5323 PSYCHOLOGY OF LEARNING	
Ed. 6361 APPRAISAL OF LEARNING ABILITIES	
<b>KNOWLEDGE OF INSTRUCTIONAL MODIFICATION, INCLUDING PRACTICAL APPLICATION (REMEDICATION TECHNIQUES AND MATERIALS)</b>	<b>(6 hours)</b>
Ed. 6304 PRACTICUM IN DIAGNOSIS AND THERAPY FOR LEARNING DISABILITIES	
Ed. 6318 DIAGNOSTIC AND PRESCRIPTIVE TEACHING	
Ed. 6329 DIAGNOSTIC AND REMEDIAL TEACHING OF READING	
Ed. 6362 TECHNIQUES IN PSYCHO-THERAPY	
Ed. 6373 TECHNIQUES AND METHODS FOR THE SLOW LEARNER	
<b>DEGREE REQUIREMENTS</b>	<b>(6 hours)</b>
Ed. 6300 GRADUATE ORIENTATION	

**\*Ed. 5342 TESTS AND MEASUREMENTS FOR THE  
SECONDARY CLASSROOM TEACHER**

**TOTAL 39 hours**

If student had Ed. 3342 at the undergraduate level, he will substitute an elective from the courses listed above.

**EDUCATIONAL ADMINISTRATION  
51 Hour Program**

<b>Major</b>	<b>Certificate</b>
School Administration	Professional Administrator
<b>COMMON CORE</b>	<b>(18 hours)</b>
Ed. 6334 CURRICULUM DEVELOPMENT-PROBLEMS AND PROCESSES	
Ed. 6370 SUPERVISION OF INSTRUCTION	
Ed. 6371 PRACTICUM IN SUPERVISION	
Ed. 6387 ADMINISTRATION OF CAREER AND VOATIONAL EDUCATION	
Ed. 6389 ADMINISTRATION AND ORGANIZATION OF SCHOOL BUSINESS SERVICES	
Ed. 6382 ADMINISTRATION OF SPECIAL COMPENSATORY EDUCATION	
<b>RESOURCE AREA</b>	<b>(9 hours)</b>
Nine hours from:	
B.A. 5332 HUMAN RELATIONS IN MANAGEMENT	
Eco. 5354 LABOR PROBLEMS & LEGISLATION	
Gov. 6360 POLITICS OF MINORITY GROUPS	
Soc. 5313 AMERICAN MINORITIES	
Soc. 5343 POLULATION PROBLEMS	
Hist. 5353 HISTORY OF MEXICAN CULTURE	
Hist. 6303 STUDIES IN TEXAS AND SOUTHWESTERN HISTORY	
Ed. 6306 SUPERVISION OF STUDENT TEACHING	
<b>ADMINISTRATION</b>	<b>(18 hours)</b>
Ed. 6381 ADVANCED ADMINISTRATION AND ORGANIZATION OF ELEMENTARY AND SECONDARY PUBLIC SCHOOL	
Ed. 6388 SOCIO-CULTURAL FOUNDATION OF EDUCATION	
Ed. 6393 ADMINISTRATION OF SCHOOL STAFF PERSONNEL	
Ed. 6394 PSYCHOLOGY OF DECISION MAKING	
Ed. 6399 PRACTICUM IN EDUCATIONAL PLANNING	
Ed. 6398 INTERNSHIP IN MIDDLE MANAGEMENT	
<b>DEGREE REQUIREMENTS</b>	<b>(6 hours)</b>
Ed. 6367 STATISTICS	
Ed. 6300 GRADUATE ORIENTATION	

**TOTAL 51 hours**

## MASTER OF EDUCATION DEGREE

<b>Major</b>	<b>Certificate</b>
Health and Physical Education	Professional

### SPECIALIZATION AREA (24 Hours)

Required Courses (12 hours)

- PE 6301 HISTORY AND PHILOSOPHY OF HEALTH AND PHYSICAL EDUCATION
- PE 6302 METHODS OF RESEARCH IN HEALTH AND PHYSICAL EDUCATION
- PE 6303 APPLIED TESTS AND MEASUREMENTS IN HEALTH AND PHYSICAL EDUCATION
- PE 6304 SCIENTIFIC FOUNDATIONS OF HEALTH AND PHYSICAL EDUCATION

Electives in Major Area (12 hours)

- PE 6305 CURRICULUM CONSTRUCTION IN HEALTH AND PHYSICAL EDUCATION
- PE 6306 PLANNING AND USE OF FACILITIES FOR HEALTH AND PHYSICAL EDUCATION AND ATHLETICS
- PE 6307 PSYCHOLOGY OF MOTOR LEARNING
- PE 6308 CURRENT READINGS IN HEALTH AND PHYSICAL EDUCATION
- PE 6309 ADVANCED TECHNIQUES FOR TEACHING MOTOR SKILLS, ELEMENTARY LEVEL
- PE 6310 ADVANCED TECHNIQUES FOR TEACHING MOTOR SKILLS, SECONDARY LEVEL
- PE 6320 INDEPENDENT RESEARCH
- PE 5351 PHYSICAL EDUCATION AND HEALTH CURRICULUM FOR THE HANDICAPPED STUDENT
- PE 5355 SUPERVISION AND ADMINISTRATION OF THE HEALTH AND PHYSICAL EDUCATION PROGRAM
- PE 5356 ORGANIZATION AND ADMINISTRATION OF THE SCHOOL HEALTH PROGRAM
- PE 5357 HEALTH EDUCATION SEMINAR
- PE 7300, THESIS  
7301

PROFESSIONAL EDUCATION (6 hours)

6 hours from:

- Ed. 6302 ADVANCED EDUCATIONAL PSYCHOLOGY
- Ed. 6311 ADVANCED CHILD PSYCHOLOGY
- Ed. 6341 ADVANCED ADOLESCENT PSYCHOLOGY

**RESOURCE AREA****(6 hours)****Electives**

With the approval of his advisor, the student must select 6 semester hours of graduate level courses other than those offered in education and in health and physical education to complete his degree requirements.

**TOTAL 36 hours****EDUCATIONAL ADMINISTRATION****45 Hour Program**

<b>Major</b>	<b>Certificate</b>
Middle Management	Professional Administrator

**COMMON CORE****(18 hours)**

- Ed. 6334 CURRICULUM DEVELOPMENT — PROBLEMS AND PROCESSES
- Ed. 6370 SUPERVISION OF INSTRUCTION
- Ed. 6371 PRACTICUM IN SUPERVISION
- Ed. 6382 ADMINISTRATION OF SPECIAL AND COMPENSATORY EDUCATION
- Ed. 6387 ADMINISTRATION OF CAREER AND VOCATIONAL EDUCATION
- Ed. 6389 ADMINISTRATION AND ORGANIZATION OF SCHOOL BUSINESS SERVICES

**ACADEMIC****(9 hours)**

Nine hours from:

- B.A. 5332 HUMAN RELATIONS IN MANAGEMENT
- Eco. 5354 LABOR PROBLEMS AND LEGISLATION
- Govt. 6360 POLITICS OF MINORITY GROUPS
- Soc. 5313 AMERICAN MINORITIES
- Soc. 5343 POPULATION PROBLEMS
- Hist. 5333 HISTORY OF MEXICAN CULTURE
- Hist. 6306 STUDIES IN TEXAS AND SOUTHWESTERN HISTORY

Note: The last five of the above seven courses along with Ed. 6388 will satisfy the multi-cultural emphasis requirement.

**SPECIAL PREPARATION FOR SCHOOL ADMINISTRATORS****(15 hours)**

- Ed. 6306 SUPERVISION OF STUDENT TEACHERS
- Ed. 6381 ADVANCED ADMINISTRATION AND ORGANIZATION OF ELEMENTARY AND SECONDARY PUBLIC SCHOOLS
- Ed. 6388 SOCIO-CULTURAL FOUNDATIONS OF EDUCATION
- Ed. 6393 ADMINISTRATION OF SCHOOL STAFF PERSONNEL
- Ed. 6394 PSYCHOLOGY OF DECISION MAKING
- Ed. 6399 PRACTICUM IN EDUCATIONAL PLANNING

(3 hours)

**INTERNSHIP**

- Ed. 6398 INTERNSHIP IN MIDDLE MANAGEMENT
  - a. Principalship
  - b. Business Manager
  - c. Chief Instructional Officer
  - d. Personnel Officer

TOTAL 45 hours

**EDUCATIONAL ADMINISTRATION**  
60 Hour Program

<b>Major</b>	<b>Professional Certificate</b>
School Administration	Superintendency
<b>COMMON CORE</b>	(18 hours)

- Ed. 6334 CURRICULUM DEVELOPMENT — PROBLEMS AND PROCESSES
- Ed. 6370 SUPERVISION OF INSTRUCTION
- Ed. 6371 PRACTICUM IN SUPERVISION
- Ed. 6387 ADMINISTRATION OF CAREER AND VOCATIONAL EDUCATION
- Ed. 6389 ADMINISTRATION AND ORGANIZATION OF SCHOOL BUSINESS SERVICES
- Ed. 6382 ADMINISTRATION OF SPECIAL AND COMPENSATORY EDUCATION

**SOURCE AREA** (9 hours)

Nine hours from:

- S.A. 5332 HUMAN RELATIONS IN MANAGEMENT
- Eco. 5354 LABOR PROBLEMS & LEGISLATION
- Govt. 6360 POLITICS OF MINORITY GROUPS
- Soc. 5313 AMERICAN MINORITIES
- Soc. 5343 POPULATION PROBLEMS
- Hist. 5353 HISTORY OF MEXICAN CULTURE
- Hist. 6306 STUDIES IN TEXAS AND SOUTHWESTERN HISTORY
- Ed. 6306 SUPERVISION OF STUDENT TEACHING

**ADMINISTRATION** (18 hours)

- Ed. 6381 ADMINISTRATION AND ORGANIZATION OF THE PUBLIC SCHOOLS
- Ed. 6388 SOCIO-CULTURAL FOUNDATIONS OF EDUCATION
- Ed. 6393 ADMINISTRATION OF SCHOOL STAFF PERSONNEL
- Ed. 6394 PSYCHOLOGY OF DECISION MAKING
- Ed. 6399 PRACTICUM IN EDUCATIONAL PLANNING
- Ed. 6398 INTERNSHIP IN PUBLIC SCHOOL MANAGEMENT

Additional requirements above the M.Ed. degree and school administrator certification, for certification as school superintendent.

(15 h)

Ed.	6395	THE SUPERINTENDENCY
Ed.	6396	EDUCATIONAL-GOVERNMENTAL RELATIONSHIPS
Ed.	6383	SEMINAR IN SCHOOL AND COMMUNITY RELATIONS
Ed.	6698	INTERNSHIP IN PUBLIC SCHOOL MANAGEMENT

TOTAL 60

#### **REQUIREMENTS FOR ADMISSION TO CERTIFICATION PROGRAM EDUCATIONAL ADMINISTRATION**

1. GRE score of 800 with Graduate Grade Point Average 3.5, or GRE of 740 Graduate Grade Point Average of 3.66, or Grade Point Average of 3.8 minimum of 24 hours of graduate work.
2. With approval, Miller Analogy Test score of 35 in lieu of the GRE score.
3. Master's Degree
4. Admission to the Graduate School.
5. A completed application for admission to the Administrator's Program.
6. Approval by the Department of Secondary Education Admissions Committee.



**PROFESSIONAL CERTIFICATE  
with  
MASTER OF ARTS DEGREE  
or  
MASTER OF SCIENCE DEGREE**

**Major** **Certificate**  
**Professional Elementary**

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**SPECIALIZATION AREA** (12 hours)

12 hours of graduate level courses in one of the following areas: Biology,  
English, History, Mathematics, Spanish

**PROFESSIONAL DEVELOPMENT** (12 hours)

Required:

- Ed. 5312 TESTS AND MEASUREMENTS FOR THE ELEMEN-  
TARY CLASSROOM TEACHER
- Ed. 6330 THE CURRICULUM IN THE ELEMENTARY SCHOOL
- Ed. 6332 RESEARCH IN ELEMENTARY EDUCATION

hours selected from:

- Ed. 6301 INSTRUCTIONAL MEDIA IN TEACHING
- Ed. 6306 SUPERVISION OF STUDENT TEACHING
- Ed. 6311 ADVANCED CHILD PSYCHOLOGY
- Ed. 6322 TEACHING THE BILINGUAL CHILD
- Ed. 6323 PROBLEMS IN THE TEACHING OF READING
- Ed. 6397 ANALYSIS OF TEACHER BEHAVIOR

**SOURCE AREA** (6 hours)

semester hours in a second specialization area or  
semester hours selected from the following:

- Ed. 6323 PROBLEMS IN THE TEACHING OF READING
- Ed. 6325 DIRECTED PRACTICE IN REMEDIAL READING
- Ed. 6326 SCIENCE IN THE ELEMENTARY SCHOOL CURRICU-  
LUM
- Ed. 6327 SOCIAL STUDIES IN THE ELEMENTARY SCHOOL  
CURRICULUM
- Ed. 6328 MATH IN THE ELEMENTARY SCHOOL CURRICU-  
LUM
- Ed. 6329 DIAGNOSTIC AND REMEDIAL TEACHING OF  
READING

**DEGREE REQUIREMENTS**

The student should consult the department of his major for specific information  
degree requirements, which are in addition to the above certification  
requirements.

If the student had Ed. 3312 at the undergraduate level, Ed. 6313 should be taken.

**PROFESSIONAL CERTIFICATE**  
**with**  
**MASTER OF ARTS DEGREE**  
**or**  
**MASTER OF SCIENCE DEGREE**

<b>Major</b>	<b>Certifica</b>
Biology	Professional Seco
English	
History	
Mathematics	
Spanish	

**SPECIALIZATION AREA** (12h)

12 hours of graduate level courses in one of the following fields:  
Biology, English, History, Mathematics, Spanish

**PROFESSIONAL DEVELOPMENT** (12h)

Required:

\*Ed. 5342 TESTS AND MEASUREMENTS FOR THE SECON-  
DARY CLASSROOM TEACHER

Ed. 6331 THE CURRICULUM IN THE SECONDARY SCHOOL

Ed. 6380 PRACTICUM FOR SECONDARY TEACHERS

3 hours selected from :

Ed. 5351 TEACHING READING TO SECONDARY STUDENTS

Ed. 5352 SECONDARY CLASSROOM METHODS AND  
MATERIALS

Ed. 6301 INSTRUCTIONAL MEDIA IN TEACHING

Ed. 6306 SUPERVISION OF STUDENT TEACHING

Ed. 6333 RESEARCH IN SECONDARY EDUCATION

Ed. 6341 ADVANCED ADOLESCENT PSYCHOLOGY

Ed. 6353 TEACHING THE DISADVANTAGED SECONDARY  
LEARNER

Ed. 6397 ANALYSIS OF TEACHER BEHAVIOR

**RESOURCE AREA** (6h)

6 hours which provide background for the specialization area, of course chosen to extend the applicant's preparation in a subject matter field other than his specialization.

**DEGREE REQUIREMENTS**

The student should consult the department of his major for specific information on degree requirements, which are in addition to the above certification requirements.

\*If the student had Ed. 3342 at the undergraduate level, Ed. 6313 should not be taken.

## GRADUATE COURSES IN EDUCATION

- Ed. 5312 TESTS AND MEASUREMENTS FOR THE ELEMENTARY CLASSROOM TEACHER
- The major function of this course is to make a careful study of the selection, administration, scoring, and interpretation of group standardized tests applicable to the elementary grades (kindergarten through sixth grade). Supplementary emphasis will be given to statistical processes and analyses appropriate to the role of the elementary classroom teacher. Open only to students who have not had Ed. 3312 or the equivalent.
- Credit will not be granted for this course if Ed. 3312 has been taken.
- Ed. 5342 TESTS AND MEASUREMENTS FOR THE SECONDARY CLASSROOM TEACHER
- This course emphasizes the role of the teacher in (1) the selection and administration of standardized achievement and diagnostic tests and (2) the interpretation and use of test results in the classroom as they apply to directing learning in the classroom.
- Credit will not be granted for this course if Ed. 3342 has been taken.
- Ed. 5351 TEACHING READING TO THE SECONDARY STUDENT
- The relation of reading ability to academic achievement, procedures for teaching reading skills needed in content area reading, and reading difficulties encountered by secondary students are included in this course. The student will use diagnostic tools and techniques to determine reading needs of secondary students and will develop reading-learning activities to meet those needs.
- Credit will not be granted for this course if Ed. 4351 has been taken.
- Ed. 5352 SECONDARY CLASSROOM METHODS AND MATERIALS
- This course is for students who have had no classroom or student teaching experience and provides students with opportunities (1) to apply modern methods and materials to problems in the secondary classroom and (2) to observe the methods and materials used by classroom teachers.
- Credit will not be granted for this course if Ed. 4352 has been taken.
- Ed. 5372 INDIVIDUAL DIFFERENCES: SURVEY AND TREATMENT
- A survey of all categories in exceptionality with special emphasis on school placement according to the Texas Plan.
- Credit will not be granted for this course if Ed. 4372 has been taken.
- Ed. 6300 GRADUATE ORIENTATION
- This course is designed to broaden the perspectives of graduate students and to introduce the students to the techniques of research and to the various fields of graduate work offered on this campus.

**Ed. 6301 INSTRUCTIONAL MEDIA IN TEACHING**

An advanced course designed to provide students with skills, insight, and practice in the selection, utilization, production, and management of modern instructional tools. The course will be helpful to teachers and other persons desiring to direct instructional media centers in public schools.

Prerequisite: Ed. 3301 or equivalent.

**Ed. 6302 ADVANCED EDUCATIONAL PSYCHOLOGY**

A research approach to the areas of teaching and learning. Human learning, conditions for effective learning, interference with learning and behavioral objectives will be emphasized.

Prerequisite: Ed. 3302 or equivalent.

**Ed. 6303 ADVANCED PHILOSOPHY OF EDUCATION**

The development of American education in relation to political, social and cultural developments. Special attention is given to the influence of movements in the cultural environment upon evolving conceptions of educational theory and practice.

**Ed. 6304 PRACTICUM IN DIAGNOSIS AND THERAPY FOR LEARNING DISABILITIES**

Supervised practical experience in diagnosis and therapy. This culminating activity will engage the student in the entire educative process for a child, whereby all existing data is gathered, and the need for testing and/or further evaluation is established, so that a valid diagnosis can be made. An instructional plan will be developed and implemented with the child, and ongoing evaluation will attest to the need for modification and serve as a measure of the child's social and educational growth.

**Ed. 6305 PROBLEMS AND PRACTICES IN COLLEGE TEACHING**

A methods course in which systematic instructional processes applied to the teaching of education will be learned. Emphasis will be upon writing and using instructional modules focused on behavioral outcomes, the utilization of instructional technology, and evaluation. Required of all teaching assistants in the Department of Education. Does not count toward degree or certification.

**Ed. 6306 SUPERVISION OF STUDENT TEACHING**

Practical application of the supervisory role in the supervision of student teachers in a competency based teacher education program.

**Ed. 6307 COMPARATIVE EDUCATION**

A study of the educational philosophies of selected national systems of education. Particular attention is given to the role of normative, institutional and environmental patterns in shaping educational

policies related to administration, curriculum development, diversification and expansion of educational opportunity.

Prerequisite: Ed. 3303 or equivalent.

Ed. 6311 **ADVANCED CHILD PSYCHOLOGY**

This is an advanced study of children from conception to puberty, or from the pre-school through the elementary level, with emphasis on the role played by maturation and learning. The course will include a study of recent research dealing with theories of cognitive unfolding and personality integration.

Prerequisite: Ed. 3311 or equivalent.

Ed. 6313 **INDIVIDUAL EDUCATIONAL TESTING**

The student will be responsible for the administration, scoring, and interpretation of the Detroit Tests of Learning Aptitude, visual-motor tests, perceptual tests, and behavioral instruments. Complete evaluations from referrals through writing educational plans, will be required, with emphasis on diagnosis. The course will be performance based.

Prerequisite: Ed. 6314 or Ed. 6344 for Non-Educational Diagnostician majors. Ed. 6314 and Ed. 6344 for Educational Diagnostician majors.

Ed. 6314 **INDIVIDUAL MENTAL TESTING: WECHSLER SCALES**

The course will cover the following instruments: WISC, WAIS, WPPSI, & LEITER. The student will be responsible for administration, scoring, and interpretation of these instruments. Techniques of referral, reporting to other disciplines and parents, as well as report writing will also be included. Students will demonstrate competency in all of the above areas on a performance basis.

Prerequisite: Ed. 3312 or Ed. 3342 or graduate equivalents: Ed. 5312 or Ed. 5342.

Ed. 6316 **PERCEPTUAL BASIS OF LANGUAGE DEVELOPMENT**

The course is designed to acquaint the student with the physiologic mechanisms involved in the acquisition of speech and language and to define those social, psychological, and perceptual aspects that contribute to the developmental language tasks appropriate for various chronological and mental age levels. The student will be guided toward an understanding of the relationship between aural and written language and social behavior. Observation of children will be included in the requirement.

Ed. 6317 **PERCEPTUAL MOTOR DEVELOPMENT IN YOUNG CHILDREN**

This course is intended to impart a knowledge of the perceptual processes, and how they affect the motor development of the child. The tactual-kinesthetic (haptic), auditory and visual sense modalities will be defined and discussed separately, and in relation to

each other. Implications for classroom behavior and academic performance will be discussed. There will be opportunities for observation of children manifesting any one or combinations of perceptual deficits.

**Ed. 6318 DIAGNOSTIC AND PRESCRIPTIVE TEACHING**

This course is intended to enable the teacher to take all data — psychological, social and educational — and translate these into a course of action for herself and the child, including individualized selections of methods, materials, and techniques. Criteria and procedures for ongoing evaluation will be an integral part of the course. Actual cases will be utilized, and the student will have the opportunity to prepare diagnosis and develop educational prescriptions. Attention will be given to effective, meaningful reporting to other professionals as well as parents.

**Ed. 6322 THE BILINGUAL CHILD**

A course designed to provide understanding of the problems and strengths of the bilingual child with emphasis on the educational program of the multi-cultural, multi-ethnic elementary school.

**Ed. 6323 PROBLEMS IN THE TEACHING OF READING**

Consideration of the nature of an adequate reading program, common reading deficiencies, methods of appraisal and materials and methods for meeting individual needs. Research findings will be emphasized as they concern current innovations and trends.

Prerequisite: Ed. 3323 or equivalent.

**Ed. 6325 DIRECTED PRACTICE IN REMEDIAL READING**

Supervised experience in working with individual children who have reading difficulties.

Prerequisite: Ed. 6329.

**Ed. 6326 SCIENCE IN THE ELEMENTARY SCHOOL CURRICULUM**

Deals with the purposes, selection and organization of content, teaching and learning procedures, and evaluation of outcomes in elementary school science.

Prerequisite: A course in physical science and a course in life science.

**Ed. 6327 SOCIAL STUDIES IN THE ELEMENTARY SCHOOL CURRICULUM**

Instructional procedures and latest theories in elementary school social studies. Techniques of teaching history and geography with emphasis on development of Americanism, conceptual skills, economic, and conservation education, use of maps, unit organization, projects and pupil involvement in community problems.

- Ed. 6328 **MATHEMATICS IN THE ELEMENTARY SCHOOL CURRICULUM**  
Study is made of recent research in the teaching of mathematics. Application of research findings to the teaching of mathematics is emphasized.
- Ed. 6329 **DIAGNOSTIC AND REMEDIAL TEACHING OF READING**  
Research and current literature on the diagnosis and correction of common reading difficulties. Observation and demonstration of children with reading difficulties will be included.  
  
Prerequisite: Ed. 6323 or with permission of instructor.
- Ed. 6330 **THE CURRICULUM IN THE ELEMENTARY SCHOOL**  
Development of the elementary school curriculum, significant factors which help to determine the curriculum, and implications of research in curriculum construction are studied. Opportunity to select and organize appropriate learning experiences for the different levels is offered.
- Ed. 6331 **THE CURRICULUM IN THE SECONDARY SCHOOL**  
An overview of theories, principles, and issues in curriculum planning for modern educational experiences. In addition to an examination of current curricular practices, particular emphasis will be placed upon promising research ideas and local efforts toward improvement in the secondary school.
- Ed. 6332 **RESEARCH IN ELEMENTARY EDUCATION**  
A course in which each student will be given an opportunity to choose for study special problems to fit his particular needs and interests: research procedures needed in the preparation of a thesis or other research reports; to demonstrate his mastery of these procedures, the student will present a research paper on a selected problem.
- Ed. 6333 **RESEARCH IN SECONDARY EDUCATION**  
An individualized approach to current problems in secondary education. Each student will choose a topic or problem of his choice and summarize available research on it.
- Ed. 6334 **CURRICULUM DEVELOPMENT — PROBLEMS AND PROCESSES**  
The examination of systematic approaches to developing and evaluating elementary and secondary school curriculums at the national, state, local school district, and campus levels. Methods of developing and applying criteria for curriculum analysis of each of the major curriculum areas to be studied.

**Ed. 6341 ADVANCED ADOLESCENT PSYCHOLOGY**

The history and systems of adolescent psychology applied to education. Modern theories and current research in learning and pupil motivation, especially in relation to new educational media and various aspects of the educative process.

Prerequisite: Ed. 3341 or equivalent.

**Ed. 6342 PROBLEMS IN GUIDANCE AND COUNSELING**

Individual study and research in guidance program planning and/or individually prescribed competency development. This course requires permission of and a written contract on file with the instructor prior to enrollment in this course.

**Ed. 6344 INDIVIDUAL MENTAL TESTING: *Stanford-Binet***

The following tests will be the primary emphasis in this course: S-B, ITPA. The student will be responsible for administration, scoring and interpretation of these instruments. An educational plan based on test results and other information will also be developed for each child. Students will demonstrate competency in all of the above areas on a performance basis.

Prerequisite: Ed. 3312 or 3342 or graduate equivalents: Ed. 5312 or Ed. 5342.

**Ed. 6345 INFORMATION SERVICES: OCCUPATIONAL, EDUCATIONAL, AND PERSONAL-SOCIAL**

A survey and analysis of the decision making processes related to choosing a career, selecting a plan of continuing education, and developing a style of life for relating productively to self and to society.

**Ed. 6353 TEACHING THE DISADVANTAGED SECONDARY LEARNER**

The course will emphasize the problems experienced in teaching secondary school students that are educationally and/or culturally disadvantaged. Applicable techniques and materials useful in classroom situations will be studied.

**Ed. 6360 INTRODUCTION TO GUIDANCE AND COUNSELING**

This course is designed to provide the student with an overview (both theoretical and practical) of the field of counseling and guidance.

**Ed. 6361 APPRAISAL OF LEARNING ABILITIES — THE MULTI-DISCIPLINARY APPROACH**

The student will acquire knowledge and theory regarding learning abilities and disabilities, and acquire basic terminology in the field of psycho-educational evaluation. Experiences will include observations of children with various learning styles, participation on simulated ARD (Admission, Review, and Dismissal) Committees



(as mandated under Plan A in Texas), and knowledge of procedures, from referral techniques through dissemination of findings. The roles of the various professionals and para-professionals will be discussed. The related functions of outside agencies and community resources will also be discussed. Field trips will be required.

**Ed. 6362 THEORIES AND TECHNIQUES OF COUNSELING**

The purpose of this course is to help students gain an understanding of counseling theories to their application and to help students adequately demonstrate counseling skills and techniques by working with peers and counselors. Limit — 20 students.

Prerequisite: Ed. 6360.

**Ed. 6363 PERSONAL GROWTH**

Intra- and interpersonal growth resulting in the competency to develop a helping relationship with an individual or small group. This course is open to graduate students from other departments. Limit 20 students.

**Ed. 6364 CONSULTING IN HUMAN RELATIONS**

Emphasis on the development of competencies in *consulting* with students, teachers, parents, and other personnel both individually and in small groups. Limit 20 students.

Prerequisites: Ed. 6360, Ed. 6362, Ed. 6363 or consent of instructor.

**Ed. 6365 COUNSELING PRACTICUM**

A competency based practicum. Students will engage in counseling and in guidance planning through practical experiences in laboratory and in public schools. Seminars for discussion and critiquing by the student will be the theme of class sessions. Students will be required to recognize and identify counseling techniques and philosophies used in this practicum. Admission to course is dependent on admission to counselor education candidacy.

Prerequisites: Ed. 6360, Ed. 6362, Ed. 6363. Course must be taken within last nine (9) hours of program. Limit 12 students.

**Ed. 6366 PROBLEMS IN TESTING AND COUNSELING**

Problems course involving a practicum in testing, diagnosing, and/or individual or group counseling. This course requires the permission of and a written contract on file with the instructor prior to enrollment in the course.

**Ed. 6367 STATISTICAL METHODS**

This course is a study of statistics as applied to problems in education and psychology, to include frequency functions, correlation and regression, and statistical tests of significance.

Ed. 6368 GROUP COUNSELING

The purpose of this course is to develop an understanding of group processes, theories, and techniques. Demonstrated competency in this knowledge and application of group procedures will be required. Limit 20 students.

Prerequisites: Ed. 6360, Ed. 6362, Ed. 6363.

Ed. 6369 EDUCATIONAL DATA PROCESSING

Survey of data processing applications to student accounting, grade reporting, and payroll; a study of model data processing programs available to streamline public school management problems.

Ed. 6370 SUPERVISION OF INSTRUCTION

Fundamental problems of the supervision of instruction in the small and moderately sized public schools; the nature and organization of supervision, supervisory plans and principles; teacher participation in forming education policies; effect of recent educational practices upon supervision; duties, relationships, and training of supervisory officials; standards for judging teachers; methods of improving instruction; case studies in supervision; the use of conferences, teacher's meetings, demonstration teaching, visitation, and research studies as supervisory agencies.

Ed. 6371 PRACTICUM IN SUPERVISION

Actual experience in supervisory methods and practices for the elementary school and secondary school supervisor. Teacher rating scales, in-service programs, and staff development processes will be analyzed and implemented by each participant. Current administrative practices will be identified and critiqued with the cooperation of local school districts as each participant serves a six week internship with a local school district.

Ed. 6373 TECHNIQUES AND METHODS FOR THE SLOW LEARNER

A course designed to present techniques which can be applied to the curriculum for retarded children. Perceptual as well as intellectual deficits will be considered. The students will be required to participate in some observations and in some work relationship with retarded and slow learning children.

Ed. 6374 PROBLEMS OF THE ACADEMIC ADJUSTMENT CHILD

This course provides the student the opportunity to study characteristics of retarded children. Emphasis will be given to psychological problems of intelligence, social adjustment, and emotional stability. Special coverage will be given to career planning.

Ed. 6376 PROBLEMS IN TEACHING THE EMOTIONALLY DISTURBED

Characteristics of the emotionally disturbed. Basic concepts of

personality development will serve as a framework for discussion of those behaviors that are regarded as self-enhancing and those considered debilitating within various social environments. Special emphasis will be focused on the interpretation and amelioration of behavior as it occurs in the classroom setting. Discussion of current research instructional arrangements and community resources will be included. Observation of the emotionally disturbed youth will be required.

**Ed. 6379 PROBLEMS IN EDUCATIONAL SUPERVISION**

Each participant will define and resolve a supervisory problem in his specific area of interest. Each participant will be directed in his study by a graduate faculty member, and a formal research paper dealing with a specific supervisory problem will be required.

Prerequisite: Ed. 6370, 6371

**Ed. 6380 PRACTICUM FOR SECONDARY TEACHERS**

Examination of the discipline of the subject-field selected coupled with intensive study of research findings, publications of learned societies and advanced experimentation with the improvement of instruction.

**Ed. 6381 ADVANCED ADMINISTRATION AND ORGANIZATION OF ELEMENTARY AND SECONDARY PUBLIC SCHOOLS**

Research, readings, and a thorough study of the organization and administration of elementary and secondary schools; a careful analysis of the role of middle management personnel in the improvement of instruction; an analysis of administrative function and leadership style will be emphasized.

**Ed. 6382 ADMINISTRATION OF SPECIAL AND COMPENSATORY EDUCATION**

Organization and administration of the public school program to meet the needs of the handicapped, the disadvantaged, and the exceptional child. Emphasis upon planning and implementing programs within the framework of the State Plan for Special Education in Texas. Organization and administration of special reading, remedial, cultural enrichment and other programs for both the educationally and economically disadvantaged.

**Ed. 6383 SEMINAR IN SCHOOL AND COMMUNITY RELATIONS**

Research, reading, analysis of school public relations, analysis of community pressure groups, processes, behavior, and outputs of the various subsystems which comprise the interaction of the school with the community. Emphasis upon developing effective ways to communicate with the various publics served by the school.

- Ed. 6387 **ADMINISTRATION AND ORGANIZATION OF CAREER AND VOCATIONAL EDUCATION**  
The organization and administration of career and vocational education with emphasis upon needs assessment, the development of cooperative programs with business and industry, the designing of instructional programs, and the development of staff.
- Ed. 6388 **SOCIO-CULTURAL FOUNDATIONS OF EDUCATION**  
Identification and analysis of cultural forces which ultimately shape the direction of modern American education with emphasis upon the purposes of education in their social and cultural contexts. An emphasis on the multicultural factors in society which affect the public schools and their influence upon learning and the acquisition of skills important to survival and self-fulfillment will be made. Particular emphasis will be placed upon understanding the culture of the Mexican-American child.
- Ed. 6389 **ADMINISTRATION AND ORGANIZATION OF SCHOOL BUSINESS SERVICES**  
Principles and procedures of developing and managing a sound financial plan for local school districts with emphasis upon Texas Educational Agency financial and accounting procedures. Emphasis upon school law, taxation, property management and maintenance, school transportation, and management of business personnel.
- Ed. 6390 **THE EDUCATION OF YOUNG CHILDREN**  
This course is designed for teachers of children of preschool age with emphasis on the developmental tasks and growth and development characteristics of four and five year olds. Special consideration will be given to selection and guidance of curriculum experience which contribute to the development of young children as individuals and in groups, records and reports, working with parents, and observation of preschool groups.  
Prerequisite: Ed. 3311.
- Ed. 6391 **ADMINISTRATION OF THE ELEMENTARY SCHOOL**  
Study of the organization and administration of the elementary school; a careful analysis of the role of the elementary principal in the improvement of instruction.
- Ed. 6392 **ADMINISTRATION OF THE SECONDARY SCHOOL**  
Study of the organization and administration of the secondary school; a thorough analysis of the role of the secondary school principal in the improvement of instruction.
- Ed. 6393 **ADMINISTRATION OF STAFF PERSONNEL**  
Analysis of personnel organization, administration, and function in school systems; relationships of various school positions; a study of

ethics, welfare, security, and professional improvement. Required of all administrators.

Ed. 6394 PSYCHOLOGY OF DECISION MAKING

Analysis of skills and techniques needed by an effective administrator in the modern school; emphasis upon synergistic leadership, teacher-administrator relationships, group processes and group dynamics, and the assessment of administrative performance.

Ed. 6395 THE SUPERINTENDENCY

A systems approach to the overall administration of public schools; the relationship of local schools to state and federal governmental and regulatory bodies; a survey of private, parochial, and public education. Required of all superintendent aspirants.

Ed. 6396 EDUCATIONAL-GOVERNMENTAL RELATIONSHIPS

An analysis of federal support in education; training in writing state and federal proposals for funding; a look at political science, demography, and comparative government with reference to political bodies and their influence on the public school establishment.

Ed. 6397 ANALYSIS OF TEACHING BEHAVIOR

Methods of gathering, analyzing, and interpreting data in leadership conferences with student teachers, interns, and professional teachers; the application of technology in the evaluation and supervision of classroom teaching; the development of skills to demonstrate effective teaching behavior. Required of all principals.

Ed. 6398 INTERNSHIP IN MIDDLE MANAGEMENT

A field based course in which students practice competencies and theories acquired as they assume responsibilities associated with each of the middle management positions in local school districts.

Ed. 6399 PRACTICUM IN EDUCATIONAL PLANNING

Accreditation of educational systems with emphasis on inservice training of staff, use of needs assessment techniques; an analysis of projective and demographic techniques for the school planner; a thorough field experience which involves actual surveys and action research.

Ed. 6698 INTERNSHIP IN PUBLIC SCHOOL MANAGEMENT

Theoretical and practical study of public school laws, school finance, business management, student transportation and the school plant; a thorough field experience with practicing administrators under university supervision. Required of all administrators.

Ed. 7300, THESIS

7301

## **GRADUATE COURSES IN HEALTH AND PHYSICAL EDUCATION**

- PE 5351 PHYSICAL EDUCATION CURRICULUM FOR THE HANDICAPPED STUDENT**
- The selection and planning of physical education for students whose activity must be adapted due to demands imposed by gravity, trauma, injury, congenital defect, illness or disease. Laboratory work with students will be scheduled.
- PE 5355 SUPERVISION AND ADMINISTRATION OF THE PHYSICAL EDUCATION PROGRAM**
- A study of the principles and policies of supervising and administering the physical education program in the public schools.
- PE 5356 ORGANIZATION AND ADMINISTRATION OF THE SCHOOL HEALTH PROGRAM**
- The organization and administration of the school health education program with special emphasis on curriculum problems in health education, community and school health council, the health service program. A study of local, state, and national health agencies and their use and integration with the school health program.
- PE 5357 HEALTH EDUCATION SEMINAR**
- For administrators, teachers, nurses, and community leaders. Topical discussion areas will center around the interests and needs of the participants and the communities.
- PE 6301 HISTORY AND PHILOSOPHY OF HEALTH AND PHYSICAL EDUCATION**
- Historical development of physical education from primitive to modern times. Philosophy of modern physical education with application to present day educational programs.
- PE 6302 METHODS OF RESEARCH IN HEALTH AND PHYSICAL EDUCATION**
- Introduction to methods and materials to research in the field. Approved methods of writing term papers and research papers.
- PE 6303 APPLIED TESTS AND MEASUREMENTS IN HEALTH AND PHYSICAL EDUCATION**
- A critical consideration of the importance and limitations of measurements in physical education. Emphasis placed on those measurements that are most needed today. The statistical treatment and interpretation of research data.

- PE 6304 SCIENTIFIC FOUNDATIONS OF HEALTH AND PHYSICAL EDUCATION**  
Background of Physical Education from biological, anatomical, and physiological aspects.
- PE 6305 CURRICULUM CONSTRUCTION IN HEALTH AND PHYSICAL EDUCATION**  
A critical study of principles, problems and procedures in the construction of a physical education program. Attention will be given to the application of these principles in the construction of a course of study for a specific situation.
- PE 6306 PLANNING AND USE OF FACILITIES FOR HEALTH AND PHYSICAL EDUCATION**  
Principles, terminology and standards for planning construction, use, and maintenance of facilities.
- PE 6307 PSYCHOLOGY OF MOTOR LEARNING**  
A study of the application of principles of psychology to learning situations involved in competitive sports. Emphasis will be given both to the general learning situations involved in the mastery of motor skills and to the special situations involved with individual and group problems of motivation and response.
- PE 6308 CURRENT READINGS IN HEALTH AND PHYSICAL EDUCATION**  
Extensive readings and discussion of selected topics in the field.
- PE 6309 ADVANCED TECHNIQUES FOR TEACHING MOTOR SKILLS, ELEMENTARY LEVEL**  
Practical and theoretical study of technique in presenting motor activity.
- PE 6310 ADVANCED TECHNIQUES OF TEACHING MOTOR SKILLS, SECONDARY LEVEL**  
Practical and theoretical study of technique in presenting motor activity.
- PE 6320 INDEPENDENT RESEARCH**  
Individual investigation of a problem in Physical Education that involves one of the techniques of research. Students will work under a designated faculty member and must have their research approved prior to registering.
- PE 7300, THESIS**  
7301



The remaining few of over 7,000 students enter the iron gates of the health and physical education complex to begin the registration procedure which will dictate a way of life for a semester.



## SCHOOL OF HUMANITIES

Degree: Master of Arts

Majors: English

Spanish

Support Areas: Art

Mass Communications

Music

Speech and Drama

Dr. Raymond H. Miller, Dean of the School of Humanities

Dr. Nancy M. Prince, Head, Department of Art

Dr. Carl L. Grantz, Head of the Department of English and Journalism

Dr. Charles E. Beaudry, Head of the Department of Foreign Languages

Dr. John D. Anderson, Head of the Department of Music

Dr. Jackson G. Barefield, Head of the Department of Speech and Drama

## THE DEPARTMENT OF ENGLISH AND JOURNALISM

The Department of English and Journalism offers courses leading to a Master of Arts in English and providing minor and support areas for degrees in other fields.

Undergraduate requirements for a minor or specialization area: 12 semester hours of English, 6 hours of which must be advanced.

Credit for a 5000 level course is not given to a student with previous undergraduate credit in a similar course.

### REQUIREMENTS BY THE DEPARTMENT OF ENGLISH AND JOURNALISM

In addition to the general admission requirements set out elsewhere in this bulletin, the following specific requirements will be met:

1. Applicants for admission will be required to have completed 24 semester hours of undergraduate work in their graduate major field, 12 hours of which must be advanced work. Each supporting graduate field presented will require evidence of completion of twelve hours of undergraduate work, of which six must be advanced hours.
2. Applicants for admission will be required to have credit for six semester hours on the sophomore level or a reading knowledge of a foreign language.
3. The choice of courses in the major and related fields will be determined through consultation initially between the student and his graduate advisor and upon admission to candidacy, between the student and his supervisory committee.

### MASTER OF ARTS DEGREE

<b>Major</b>	<b>Thesis</b>
English	
<b>MAJOR</b>	
Thirty semester hours (of which at least twenty-four will be in English) including a thesis, with the option of taking six hours in one or more related fields.	
Requirement:	
Eng. 7300, 7301 THESIS	
	<b>TOTAL 30 hours</b>

### MASTER OF ARTS DEGREE

<b>Major</b>	<b>Non-Thesis</b>
English	
<b>MAJOR</b>	
Thirty-six semester hours (at least 27 of which will be in English) and no thesis with the option of taking nine hours in one or more related fields.	
Requirement:	
Eng. 6300 BIBLIOGRAPHY AND RESEARCH METHODS	

## GRADUATE COURSES IN ENGLISH

### Eng. 5314 ADVANCED COMPOSITION FOR TEACHERS

Development of composition skills and methods.

### Eng. 5315 PROBLEMS IN CREATIVE WRITING

Special problems in the writing and criticism of short stories, essays, one-act plays, and poetry.

### Eng. 5316 THE IMAGE OF THE MEXICAN-AMERICAN IN AMERICAN LITERATURE

A study of the change in the image of the Mexican-American from caricature to self-portrait as revealed in American literature.

### Eng. 5318 LITERATURE FOR THE SECONDARY SCHOOL

Resources available for the teacher of English with consideration of analytical techniques.

### Eng. 5341 STUDIES IN SHAKESPEARE

Selected tragedies, comedies, and histories with emphasis on Shakespeare's development as a dramatic artist.

### Eng. 5342 STUDIES IN MODERN ENGLISH GRAMMAR

Advanced grammar with particular attention given to new methods of description and analysis offered by modern linguistic studies.

### Eng. 5343 PROBLEMS IN COMPARATIVE PHONOLOGY

Analysis and description of the phonology of English and Spanish with emphasis on similarities and differences. Practical problems of production and description considered. Course will be taught in both English and Spanish. May be counted as English or Spanish 5343.

Prerequisite: English 3318 or 3319, or Spanish 3306.

### Eng. 5344 PROBLEMS IN COMPARATIVE SYNTAX

Analysis and description of the grammatical systems of English and Spanish. Special study of the practical problems of production and description. Course will be taught in both English and Spanish. May be counted as English or Spanish 5344.

Prerequisite: English 4302 or 5342 or Spanish 3305.

**Eng. 5346 LITERATURE OF THE AMERICAN FRONTIER**

Studies of frontier literature in historical context.

**Eng. 5348 DEVELOPMENT OF THE ENGLISH LANGUAGE**

The origins and development of the English language, including evolution of syntax, accretion of vocabulary, and study of pronunciation.

**Eng. 5349 STUDIES IN CHAUCER**

Extensive reading in the works of England's first great poet.

**Eng. 5350 WRITERS OF THE SOUTH AND SOUTHWEST**

Intensive reading in the writers of the South and Southwest with emphasis in their considerable influence on American letters.

**Eng. 5352 STUDIES IN MILTON**

A study of the career and writing of "the last great Renaissance humanist," examining the development of his poetic style in the early works, the evolution of his political and religious thought in the prose works of his middle years, and the culmination of his art in *Paradise Lost*, *Paradise Regained*, and *Samson Agonistes*.

**Eng. 6300 BIBLIOGRAPHY AND RESEARCH METHODS**

A survey of the chief source materials of literary history and criticism and an introduction to methods and aids in literary research methods. Required of all graduate English majors not writing a thesis.

**Eng. 6301 SEMINAR IN TEACHING FRESHMAN ENGLISH**

A workshop to acquaint the beginning graduate assistant with the nature, the objectives, the methods, and the usual problems of teaching freshman composition. Required of all teaching assistants in their first semester of teaching.

**Eng. 6303 ELIZABETHAN AND JACOBEAN DRAMA**

English drama, exclusive of Shakespeare, from the beginning of the Elizabethan Age to the closing of the theaters.

**Eng. 6304 DRAMA OF THE RESTORATION AND THE 18TH CENTURY**

A study of representative plays with examination of critical and historical problems.

- Eng. 6315 **WORKSHOP IN CREATIVE WRITING**  
Work in all genres for advanced students with a serious interest in publishing.
- Eng. 6347 **PROBLEMS IN LITERARY CRITICISM**  
Major aesthetic theories related to exercises in practical criticism.
- Eng. 6351 **PROBLEMS IN LINGUISTICS**  
Studies in modern linguistics with emphasis on the practical help which the science offers to the student of the English language. May be repeated once when the emphasis varies. (Special topics to be announced in schedule of classes.)  
Prerequisite: Eng. 4302 or 5342.
- Eng. 6352 **PROBLEMS IN CHILDREN'S LITERATURE**  
This course concentrates on three major problems—the definition, the selection, and the classroom presentation of children's literature.
- Eng. 6360 **STUDIES IN ENGLISH LITERATURE**  
Extensive study in English literature. May be repeated for credit when the topic varies. (Special topics to be announced in schedule of classes.)
- Eng. 6370 **STUDIES IN AMERICAN LITERATURE**  
Extensive study in American literature. May be repeated for credit when the topic varies. (Special topics to be announced in schedule of classes.)
- Eng. 6380 **STUDIES IN WORLD LITERATURE**  
A study of selected works in world literature: Classical through Medieval.
- Eng. 6381 **STUDIES IN WORLD LITERATURE**  
A study of selected works in world literature: Renaissance through Modern.
- Eng. 7300, 7301 **THESIS**

## THE DEPARTMENT OF FOREIGN LANGUAGES

The Department of Foreign Languages offers courses leading to a Master of Arts in Spanish and providing minor and support areas for degrees in other fields.

Undergraduate requirements for a minor or specialization area: 12 semester hours of Spanish, 6 hours of which must be advanced.

Credit for a 5000 level course is not given to a student with previous undergraduate credit in a similar course.

### REQUIREMENTS BY THE DEPARTMENT OF FOREIGN LANGUAGES

In addition to the general admission requirements set out elsewhere in this bulletin, the following specific requirements must be met:

1. Applicants for admission will be required to have completed twenty-four semester hours of undergraduate work in their major field, of which a minimum of twelve hours is to be advanced. Each minor field will require completion of twelve hours of undergraduate work of which a minimum of six hours is to be advanced.
2. The choice of courses in the major and minor fields, as well as the nature of the supporting work, will be determined through consultation between the student and his graduate advisor.

#### MASTER OF ARTS DEGREE

##### Major

##### Thesis

Spanish

MAJOR

18 semester hours in Spanish to be selected by the student.

SPAN. 7300, 7301 THESIS.

MINOR or RESOURCE AREA

(6 hours)

The student will complete 6 semester hours outside the major field. These hours may be from one field or may be divided 3-3 between two fields. They may be selected from any other approved major, any approved minor, and/or any approved support area.

TOTAL 30 hours

#### MASTER OF ARTS DEGREE

##### Major

##### Non-Thesis

Spanish

MAJOR

(24 hours)

24 semester hours in Spanish to be selected by the student.

MINOR

(12 hours)

The student may elect a six-hour minor and take six additional hours in Spanish or six hours in Education.

TOTAL 36 hours

## GRADUATE COURSES IN SPANISH

### Span. 5301 SPANISH-AMERICAN LITERATURE (1500-1800)

A critical study of the literature of South America from colonial times to Romanticism. Given in Spanish.

### Span. 5302 SPANISH-AMERICAN LITERATURE (1800 to our times)

A critical study of the literature of South America from 1800 to the present. Given in Spanish.

### Span. 5303 SPANISH CIVILIZATION

A critical study of the physical, racial, historical and cultural aspects of Spanish civilization from the early days to the present. Given in Spanish.

### Span. 5307 THE SPANISH-AMERICAN NOVEL

A critical study of the novel of South America from the PERIQUILLO SARNIENTO to the present. Given in Spanish.

### Span. 5343 PROBLEMS IN COMPARATIVE PHONOLOGY

Analysis and description of the phonology of Spanish and English with emphasis on similarities and differences. Practical problems of production and description considered. Course open only to students with proficiency in both Spanish and English. Given in Spanish and English.

### Span. 5344 PROBLEMS IN COMPARATIVE SYNTAX

Analysis and description of the grammatical systems of Spanish and English. Special study of the practical problems of production and description. Course open only to students with proficiency in both Spanish and English. Given in Spanish and English.

### Span. 6300 METHODS OF BIBLIOGRAPHY AND RESEARCH

An intensive study in the procedures of critical analysis and in bibliographical research. Given in Spanish.

### Span. 6305 CERVANTES

A critical study of the principal works of Miguel de Cervantes. Given in Spanish.

**Span. 6306 PHONETICS**

A critical analysis of the principles of teaching pronunciation with particular emphasis on a practical mastery of Spanish pronunciation. Given in Spanish.

**Span. 6308 MEDIEVAL SPANISH LITERATURE**

A critical study of the outstanding literary works of Spain from El CID to the Romancero. Given in Spanish.

**Span. 6309 CONTEMPORARY SPANISH LITERATURE**

A critical study of the outstanding literary works of Spain from the Generation of 1898 to the present. Given in Spanish.

**Span. 6313 HISTORY OF THE SPANISH LANGUAGE**

A detailed study of the growth of the Spanish language from the beginning to the present. Given in Spanish.

**Span. 6331 SPECIAL STUDIES IN THE GOLDEN AGE**

Special topics from the vast literature of the Spanish golden age. This course may be repeated a second time when the topic varies. Given in Spanish.

**Span. 6331 DRAMA OF THE GOLDEN AGE**

A critical study of representative plays of the Siglo de Oro. Given in Spanish.

**Span. 6332 THE PICARESQUE NOVEL**

A critical study of several outstanding picaresque novels. Given in Spanish.

**Span. 6333 GRADUATE SPANISH COMPOSITION**

An examination of modern Spanish business, epistolary, journalistic and polemic styles. Original compositions on topics of current interest. Given in Spanish.

**Span. 6334 GRADUATE SPANISH GRAMMAR**

A detailed study of the structure, morphology and syntax of Spanish.

**Span. 6335 THE GENERATION OF 1898**

A study of the principal writers of the Generation of 1898. Given in Spanish.



**Span. 6336 SPANISH LINGUISTICS**

Advanced topics in specialized aspects of Spanish linguistics and examination of various methods of linguistic analysis in Spanish. Given in Spanish.

**Span. 6337, SPECIAL STUDIES IN MEXICAN LITERATURE**

**6338** Special topics from the field of Mexican literature. This course may be repeated a second time when the topic varies.

**Span. 6339, SPECIAL STUDIES IN SPANISH-AMERICAN  
6340 LITERATURE**

Special topics from the field of Spanish-American literature. This course may be repeated a second time when the topic varies.

**Span. 6341 SPECIAL STUDIES IN SPANISH LITERATURE**

Special topics from the field of Spanish literature. This course may be repeated a second time when the topic varies.

**Span. 6351 NINETEENTH CENTURY SPANISH LITERATURE**

A study of the outstanding writers of nineteenth-century Spain and their principal literary works. Given in Spanish.

**Span. 6352 NINETEENTH CENTURY SPANISH-AMERICAN  
LITERATURE**

A study of the outstanding writers of nineteenth-century Spanish-America and their principal literary works. Given in Spanish.

**Span. 7300, THESIS  
7301**

**SUPPORT AREAS IN SCHOOL OF HUMANITIES**

**GRADUATE COURSES IN ART**

**Art 5323 PROJECTS IN LIGHT AND DESIGN**

Students are given projects in scenic design and stage lighting for Studio Theatre-produced plays or for one of the semester's major productions by the Drama Department. Previous experience required. Credit may not be obtained for both Art 5323 and Drama 5321.

**Art 5352 SEMINAR IN MEXICAN ART**

A research seminar designed around selected areas of Mexican art.

**Art 5383 SEMINAR IN ART EDUCATION**

Issues in art education will be discussed in conjunction with methods of research and writing about art. Independent directions within this framework will be encouraged.

**GRADUATE COURSES IN MASS COMMUNICATIONS**

**M.C. 5302 SEMINAR IN PUBLIC RELATIONS**

Principles and methods of building goodwill and obtaining publicity; processes of influencing public opinion, public relations programs, with emphasis on implementation. One lecture and four laboratory hours a week in University Information Office.

Prerequisite: M.C. 1301 and 1302.

**M.C. 5306 SEMINAR FOR TEACHERS IN SECONDARY JOURNALISM**

Problems of planning and producing the high school newspaper and yearbook, including the technical aspects of printing. One lecture and four laboratory hours a week on student newspaper or yearbook.

Prerequisite: M.C. 1301 and 1302.

**GRADUATE COURSES IN MUSIC**

**ADVANCED APPLIED MUSIC (6000 level)**

Private instruction at the graduate level in voice, piano, organ, or orchestral instruments.

Prerequisite: Four years of undergraduate instruction with a major or a concentration in the same medium.

**Music 5301 ADVANCED MUSIC HISTORY**

The history of the development of musical styles from the earliest known manuscripts through the Baroque period. Special emphasis on musical changes in relation to changes in political, sociological, and other artistic history. In-depth research in an area of special interests to the individual student.

## **Music 5302 ADVANCED MUSIC HISTORY**

Continuation of Music 5301 covering the developments from the Baroque Period through the twentieth century. In-depth research in an area of special interest to the individual student.

### **GRADUATE COURSES IN SPEECH**

#### **Spee. 5301 LABORATORY IN PLATFORM COMMUNICATION**

A practical laboratory approach to speech preparation and presentation. A performance course. Students are expected also to participate in seminars relating to other aspects of speaking in public.

#### **Spee. 5303 SPEECH SEMINAR FOR SPEECH TEACHERS**

Examination of the teacher's speech as it affects the students and ways in which the teacher may help in the improvement of the student's speech.

#### **Spee. 5309 DIRECTING ACTIVITIES IN SPEECH**

A study of speech activities, as prescribed by the Texas University Interscholastic League, of methods for adapting UIL approved materials for effective use, and of staging these activities.

#### **Spee. 5311 DRAMA IN MODERN TIMES**

A concentrated study of dramatic literature beginning with Ibsen stressing modern modes and trends, including avant-garde innovations in drama. Students are required to present oral reports to the class on assigned topics.

### **GRADUATE COURSES IN DRAMA**

#### **Dra. 5301 PROBLEMS IN STAGE DIRECTION-PRODUCTION**

Primarily a workshop course. Students are given problems in directing and producing short plays. Whenever possible, high school students are used as actors and the advanced student-director is expected to produce his play in the Studio Theatre (or on television). Previous experience required.

#### **Dra. 5304 SPECIAL PROJECTS IN CREATIVE DRAMATICS**

Requires advanced students to work with elementary school children in creative dramatics projects. Previous knowledge in this elementary classroom technique is necessary.

**Dra. 5308 SEMINAR FOR RESEARCH PROBLEMS IN THEATRE**

For the advanced student of research in theatre. A major problem or topic in an area of dramatic art is assigned to the student who prepares a semester-end research paper. Other projects in the area of physical production may be assigned.

**Dra. 5309 DIRECTING ACTIVITIES IN DRAMA**

A study of drama activities as prescribed by the Texas University Interscholastic League, of methods for adapting UIL approved materials for effective use, and of staging these activities.

**Dra. 5311 DRAMA IN MODERN TIMES**

A concentrated study of dramatic literature beginning with Ibsen, stressing modern modes and trends, including avant-garde innovations in drama. Students are required to present oral reports to the class on assigned topics.

**Dra. 5321 PROJECTS IN LIGHTING AND DESIGN**

Students are given projects in scenic design and stage lighting for Studio Theatre-produced plays or for one of the semester's major productions by the Drama Department. Previous experience required. Credit may not be obtained for both Drama 5321 and Art 5323.



Computer-assisted teaching, closed circuit television, team teaching, independent study, programmed material and other electronic media are invading the classroom at Pan Am.

## SCHOOL OF SCIENCES AND MATHEMATICS

Degree: Master of Science

Majors: Biology  
Mathematics

Support Areas: Chemistry  
Physics

Dr. L. O. Sorensen, Dean of the School of Sciences and Mathematics

Dr. Sammie L. Sides, Head of the Department of Biology

Dr. J. Lell Elliott, Head of the Department of Chemistry

Mr. S. S. Draeger, Head of the Department of Mathematics

Dr. Edwin W. LeMaster, Acting Head of Department of Physical Science

## THE DEPARTMENT OF BIOLOGY

The Department of Biology offers courses leading to a Master of Science in Biology and providing minor and support areas for degrees in other fields.

Undergraduate requirements for a minor or specialization area: 12 semester hours of Biology, 6 hours of which must be advanced.

Credit for a 5000 level course is not given to a student with previous undergraduate credit in a similar course.

Students pursuing a Master's degree in related fields can include 12 to 18 hours of work in Biology for a minor.

Students pursuing the Master of Science degree with a major in Biology can include 6 to 9 hours of work in departments offering a graduate minor.

### REQUIREMENTS BY THE DEPARTMENT OF BIOLOGY

Acceptance by the Graduate School of Pan American University.

Admission to the graduate program with a major in Biology requires a minimum of 24 hours (including: 2 courses in Botany and 2 courses in Zoology) of undergraduate Biology with at least 12 hours at the Junior-Senior level. Chemistry will be at the discretion of the Head of the Department.

Full-time graduate students, who must meet the above requirements, may take up to nine semester hours of levelling work while taking a limited number of graduate hours. (Refer to Item 5.)

A minimum grade point average of 2.75 in upper level undergraduate Biology courses (based upon a 4.0 system) is required.

Special requirements:

a. Biological Problems:

At least one Biological Problem will be required of all, and for those choosing the thesis plan, a Biological Problem should be successfully pursued prior to starting the thesis.

b. Biol. 6101, 6102, 6103 will be required.

For those enrolled in the thesis program:

a. Graduate students selecting the thesis option must complete thirty semester hours with a thesis. The choice of courses in major and minor fields will be determined through consultation between the student and his graduate advisor and the approval of the Head of the Department.

b. During the first semester of study following admission to graduate study, the student should choose from the Graduate Faculty a major professor who will serve as chairman of his Graduate Committee and two other faculty members chosen in conference with the major professor and the Head of the Department. This Committee will approve a plan of study for the student which must be approved by, and a copy filed with, the Department Head and the Dean of the Graduate School. The major professor and student should each retain a copy.

c. A thesis topic and plan for research will be chosen by the student and his major professor, subject to approval by the Committee.

- d. The research will culminate in a thesis written in the style approved by Graduate School and should be worthy, in whole or in part, of submission for publication in a reputable journal. Approval must be affirmed by Head of the Department and the Dean of the Graduate School.

Following acceptance of the thesis, evidenced by signature of the Committee members, and by the administrators indicated, three copies should be bound, or a fee sufficient to cover the cost of binding should be paid Pan American University, and the three bound copies deposited as follows: the original and first copy in the library and the third copy with Department of Biology.

7. A non-thesis student must complete 27 to 30 hours of Biological Sciences may include in his program a minimum of 6 to 9 hours in a related field.

A member of the Graduate Faculty will be chosen by the student as a major professor. In conference the student, the major professor and the Head of Department will choose two other members of the Graduate Faculty to form a committee of three which will plan the student's overall program, oversee progress and supervise the required comprehensive examination. Previously stated, these students must successfully complete at least one graduate research problem.

### MASTER OF SCIENCE DEGREE

<b>Major</b>	<b>Thesis</b>
Biology	
<b>MAJOR</b>	(12 hours)
Required Courses (3 hours)	
<b>BIOLOGY GRADUATE SEMINAR</b>	
Biol. 6101	
Biol. 6102	
Biol. 6103	
3 semester hours to be selected from: (minimum)	
<b>BIOLOGICAL PROBLEMS FOR GRADUATE STUDENTS</b>	
Biol. 6361 BOTANICAL	
Biol. 6362 MARINE	
Biol. 6363 MICROBIAL	
Biol. 6364 ZOOLOGICAL	
Biol. 7300, 7301 <b>THESIS</b> (6 hours)	
Electives in major area	(9-18 hours)
Biol. 5310 <b>MARINE PLANT SCIENCE</b>	
Biol. 5341 <b>ECOLOGICAL CONCEPTS</b>	
Biol. 5342 <b>CONCEPTS OF BIOLOGICAL LITERATURE</b>	
Biol. 5345 <b>ADVANCED PLANT PHYSIOLOGY</b>	
Biol. 5346 <b>ADVANCED MYCOLOGY</b>	
Biol. 5351 <b>CONCEPTS OF BIOLOGICAL HISTORY</b>	
Biol. 5352 <b>ADVANCED MARINE ZOOLOGY</b>	



- Biol. 6301 CELL BIOLOGY
- Biol. 6302 MARINE ECOLOGY
- Biol. 6303 ADVANCED ECOLOGY
- Biol. 6304 HOST-PARASITE RELATIONSHIPS
- Biol. 6305 BIOMETRY
- Biol. 6306 FIELD BOTANY
- Biol. 6307 BIOLOGICAL TECHNIQUES
- Biol. 6308 FRESHWATER PHYCOLOGY
- Biol. 6309 MARINE PHYCOLOGY
- Biol. 6310 IMMUNOLOGY
- Biol. 6311 ECOLOGICAL PHYSIOLOGY
- Biol. 6312 ADVANCED ORNITHOLOGY
- Biol. 6314 ADVANCED PLANT SYSTEMATICS
- Biol. 6315 ADVANCED FIELD ZOOLOGY

**MINOR**

(6-9 hours)

Graduate students may minor in the following areas:

Education, English, Government, History, Mathematics, Spanish.

TOTAL 30 hours

**MASTER OF SCIENCE DEGREE**

**Major**  
Biology

**Non-Thesis**

**MAJOR**

(27-30 hours)

**Required Courses (3 hours)**

**BIOLOGY GRADUATE SEMINAR**

- Biol. 6101
- Biol. 6102
- Biol. 6103

3 semester hours to be selected from: (minimum)

**BIOLOGICAL PROBLEMS FOR GRADUATE STUDENTS**

- Biol. 6361 BOTANICAL
- Biol. 6362 MARINE
- Biol. 6363 MICROBIAL
- Biol. 6364 ZOOLOGICAL

**Electives in major area**

- Biol. 5310 MARINE PLANT SCIENCE
- Biol. 5341 ECOLOGICAL CONCEPTS
- Biol. 5342 CONCEPTS OF BIOLOGICAL LITERATURE
- Biol. 5345 ADVANCED PLANT PHYSIOLOGY
- Biol. 5346 ADVANCED MYCOLOGY
- Biol. 5351 CONCEPTS OF BIOLOGICAL HISTORY
- Biol. 5352 ADVANCED ZOOLOGY
- Biol. 6301 CELL BIOLOGY
- Biol. 6302 MARINE ECOLOGY
- Biol. 6303 ADVANCED ECOLOGY
- Biol. 6304 HOST-PARASITE RELATIONSHIPS

- Biol. 6305 BIOMETRY
- Biol. 6306 FIELD BOTANY
- Biol. 6307 BIOLOGICAL TECHNIQUES
- Biol. 6308 FRESHWATER PHYCOLOGY
- Biol. 6309 MARINE PHYCOLOGY
- Biol. 6310 IMMUNOLOGY
- Biol. 6311 ECOLOGICAL PHYSIOLOGY
- Biol. 6312 ADVANCED ORNITHOLOGY
- Biol. 6314 ADVANCED PLANT SYSTEMATICS
- Biol. 6315 ADVANCED FIELD ZOOLOGY

**MINOR**

Graduate students may minor in the following areas:

Education, English, Government, History, Mathematics, Spanish

**TOTAL 36 h**

(6-9 h

## GRADUATE COURSES IN BIOLOGY

- Biol. 5310 MARINE PLANT SCIENCE**  
The common local marine flora with emphasis on the macroscopic algal forms. Three hours lecture and three hours laboratory. \$4.00 laboratory fee.
- Biol. 5341 ECOLOGICAL CONCEPTS**  
Biotic and abiotic factors as they affect composition, structure, and economic relationships of plant-animal populations. Three hours lecture and three hours laboratory. \$4.00 laboratory fee.
- Biol. 5342 CONCEPTS OF BIOLOGICAL LITERATURE**  
A review of biological literature from the classical to recent time and its impact on modern biological concepts. Three hours lecture.
- Biol. 5345 ADVANCED PLANT PHYSIOLOGY**  
Physiology of plants; cell structure and functions, nutrition, metabolism, and factors influencing growth and development. Three hours lecture and three hours laboratory. \$5.00 laboratory fee.
- Biol. 5346 ADVANCED MYCOLOGY**  
Detailed studies of the fungi, including biological aspects of selected genera, culturing techniques and laboratory methods. Not open to students with previous credit for Biology 4406. Prerequisite: Graduate standing and 18 semester hours of Biology. \$4.00 laboratory fee.
- Biol. 5351 CONCEPTS OF BIOLOGICAL HISTORY**  
Development of biological concepts from the beginning of classical biological theory to present days. Three hours lecture.
- Biol. 5352 ADVANCED MARINE ZOOLOGY**  
Structural, physiological, and ecological relationships of common marine animals, stressing invertebrates of coastal waters. Three hours lecture and three hours laboratory. \$4.00 laboratory fee.
- Biol. 6101, 6102, 6103 BIOLOGY GRADUATE SEMINAR**  
Three 1 semester hour graduate seminars will be required of all graduate students. Graduate students with 3 hours of Biology Graduate Seminar Credit who have not completed degree requirements will participate in Biology Graduate Seminar without credit. Each student, when enrolled for credit, will be expected to present a scholarly review of some particular aspect of current biological research before seminar participants and the Biology faculty.

- Biol. 6301 CELL BIOLOGY**  
Detailed analysis, in lecture and in laboratory, of cell structure and of cell function; emphasis will be on respiration, photosynthesis, enzymes, proteins, nucleic acids and laboratory techniques. Three hours lecture and three hours laboratory. \$4.00 laboratory fee.
- Biol. 6302 MARINE ECOLOGY**  
Analysis of factors that influence plant and animal populations in a marine habitat. Effects of varied types of pollution will be considered. Three hours lecture and three hours laboratory. \$4.00 laboratory fee.
- Biol. 6303 ADVANCED ECOLOGY**  
Utilization of modern techniques to analyze interrelationships between plants, animals and the environment. Terrestrial and freshwater environments will be considered. Three hours lecture and three hours laboratory. \$4.00 laboratory fee.
- Biol. 6304 HOST-PARASITE RELATIONSHIPS**  
A comprehensive analysis of the interrelationships between host and parasite. Modern laboratory techniques essential to understanding these interrelationships will be considered. Three hours lecture and three hours laboratory. \$4.00 laboratory fee.
- Biol. 6305 BIOMETRY**  
Statistical analysis and principles as applied to biological problems. Three hours lecture and three hours laboratory. \$4.00 laboratory fee.
- Biol. 6306 FIELD BOTANY**  
A study of the adaptations and economic importance of the native flora. Methods of collection, preservation and classification are stressed. \$4.00 laboratory fee.
- Biol. 6307 BIOLOGICAL TECHNIQUES**  
Techniques stressing modern materials and laboratory problems in the public school laboratory. Three hours lecture and three hours laboratory. \$4.00 laboratory fee.
- Biol. 6308 FRESHWATER PHYCOLOGY**  
An introduction to the structure, reproduction and identification of the freshwater algae with special emphasis on the ecology and identification of local forms. Three hours lecture and three hours laboratory.  
Prerequisite: Biology 3408, \$4.00 laboratory fee.
- Biol. 6309 MARINE PHYCOLOGY**  
A detailed study of the common local marine flora with emphasis on the microscopic algal forms. Three hours lecture and three hours laboratory. Prerequisite: Biology 4410 or 5310. \$4.00 laboratory fee.

**Biol. 6310 IMMUNOLOGY**

A study of the nature of antigens and antibodies and their interactions as they relate to allergy and infection. Three hours lecture and three hours laboratory. Prerequisites: Biology 3401 and Organic Chemistry. \$4.00 laboratory fee.

**Biol. 6311 ECOLOGICAL PHYSIOLOGY**

A comparative study of the physiological adaptations of animals to their environments. Emphasis will be placed on physiological basis of animal distribution and evolution. \$4.00 laboratory fee.

**Biol. 6312 ADVANCED ORNITHOLOGY**

Studies in avian biology with emphasis on concepts of speciation, behavior and ecology. Three hours of lecture and three hours laboratory. Previous course in Biology 3404 recommended. \$4.00 laboratory fee.

**Biol. 6314 ADVANCED PLANT SYSTEMATICS**

A study of the literature and methods of experimental plant systematics. Phylogenetic considerations, procedures in monograph preparation, field and herbarium techniques and modern biosystematic approaches applied to selected taxa will be emphasized. \$4.00 laboratory fee.

**Biol. 6315 ADVANCED FIELD ZOOLOGY**

A course designed to give the student experience in organizing field notes, collecting and preserving vertebrate animals, conducting habitat analysis, and utilizing ecological research methods. Emphasis will be on populations and their relationships to local environments. \$4.00 laboratory fee.

**Biological Problems for Graduate Students:**

**Biol. 6361 BOTANICAL**

**Biol. 6362 MARINE**

**Biol. 6363 MICROBIAL**

**Biol. 6364 ZOOLOGICAL**

The student in conference with the faculty member will define an independent research problem that may be completed within one semester. The Biology Graduate Faculty will approve the problem prior to enrollment. If undertaken in a summer, the student should enroll in no other course that summer term. The student's written report will be in an approved thesis style. One copy will be retained by the faculty member directing the research. \$4.00 laboratory fee.

**Biol. 7300, 7301 THESIS**

## THE DEPARTMENT OF MATHEMATICS

The Department of Mathematics offers courses leading to a Master of Science in Mathematics and providing minor and support areas for degrees in other fields.

Undergraduate requirements for a minor or specialization area: 12 semester hours of Mathematics, 6 hours of which must be advanced.

Credit for a 5000 level course is not given to a student with previous undergraduate credit in a similar course.

### REQUIREMENTS BY THE DEPARTMENT OF MATHEMATICS

In addition to the general admission requirements set out elsewhere in this bulletin, the following specific requirements must be met.

1. Applicants will be required to have completed twenty-four semester hours of undergraduate mathematics. These twenty-four hours must include twelve advanced hours.
2. Each applicant accepted by the graduate school will be assigned a graduate advisor who will act as the chairman of the student's Graduate Committee. During the first semester of study following admission, the student, with the assistance of the graduate advisor and the head of the department, will select two additional committee members from the graduate faculty. The committee will plan the student's overall program, oversee his progress and supervise the required comprehensive examination. Acceptance of the thesis or report will be subject to approval by this committee.
3. Students selecting the thesis option must complete twenty-four semester hours of mathematics.
4. Students selecting the non-thesis option must complete twenty-four semester hours of mathematics plus twelve additional hours of course work. The twelve additional hours must include a minimum of six semester hours of an approved elective. He must in addition submit a written report from a specifically authorized seminar.

## MASTER OF SCIENCE DEGREE

Major	Thesis
Mathematics	
MAJOR	(30 hours)

6 semester hours selected from the following:\*

- Math 5304 MODERN ALGEBRA
- Math 5305 ADVANCED CALCULUS
- Math 5306 SPECIAL TOPICS IN NUMERICAL ANALYSIS
- Math 5307 COMBINATORIAL ANALYSIS
- Math 5308 ADVANCED TOPICS IN PROBABILITY AND STATISTICS
- Math 5309 SPECIAL TOPICS IN PROBABILITY AND STATISTICS
- Math 5312 TOPOLOGY

A minimum of 9 semester hours from the following:\*

- Math 6302 REAL ANALYSIS I
- Math 6303 REAL ANALYSIS II
- Math 6304 ABSTRACT ALGEBRA I
- Math 6305 PROJECTIVE GEOMETRY
- Math 6307 SURVEY OF NUMERICAL ANALYSIS
- Math 6310 A SURVEY OF STATISTICAL METHODOLOGY
- Math 6311 COMBINATORIAL METHODOLOGY
- Math 6312 TOPOLOGY I
- Math 6313 THEORY OF FUNCTIONS OF A COMPLEX VARIABLE

Required:

- Math 6314 MATHEMATICS SEMINAR (to be taken after eighteen hours of graduate work in mathematics have been completed)
- Math 7300, THESIS  
7301

### RESOURCE AREA

The student may select 6 semester hours outside the field of his major in any other major, minor, or support area. These hours may all be in one field or may be divided 3-3 between two fields.

TOTAL 30 hours

\*In the selection of courses from the first two groups above, a student must select 6 semester hours from Math 5304 and 6304 or Math 6302 and 6303 or Math 5312 and 6312 (i.e., six hours of algebra or analysis or topology).

## MASTER OF SCIENCE DEGREE

Major	Non-Thesis
Mathematics	
MAJOR	(30 hours)

6 semester hours selected from the following:\*

- Math 5304 MODERN ALGEBRA
- Math 5305 ADVANCED CALCULUS
- Math 5306 SPECIAL TOPICS IN NUMERICAL ANALYSIS
- Math 5307 COMBINATORIAL ANALYSIS
- Math 5308 ADVANCED TOPICS IN PROBABILITY AND STATISTICS
- Math 5309 SPECIAL TOPICS IN PROBABILITY AND STATISTICS
- Math 5312 TOPOLOGY

A minimum of 15 semester hours from the following:\*

- Math 6302 REAL ANALYSIS I
- Math 6303 REAL ANALYSIS II
- Math 6304 ABSTRACT ALGEBRA I
- Math 6305 PROJECTIVE GEOMETRY
- Math 6307 SURVEY OF NUMERICAL ANALYSIS
- Math 6310 A SURVEY OF STATISTICAL METHODOLOGY
- Math 6311 COMBINATORIAL METHODOLOGY
- Math 6312 TOPOLOGY I
- Math 6313 THEORY OF FUNCTIONS OF A COMPLEX VARIABLE
- Math 6315 SPECIAL PROBLEMS IN TEACHING MATHEMATICS

Required:

- Math 6314 MATHEMATICS SEMINAR (to be taken after eighteen semester hours of graduate work in mathematics have been completed)

RESOURCE AREA (6 hours)

The student may select 6 semester hours outside the field of his major in any other major or minor field or resource area. These hours may all be in one field or may be divided 3-3 between two fields.

TOTAL 36 hours

\*In the selection of courses from the first two groups above, a student must select 6 semester hours from Math 5304 and 6304 or Math 6302 and 6303 or Math 5312 and 6312 (i.e., six hours of algebra or analysis or topology).



## GRADUATE COURSES IN MATHEMATICS

### Math 5304 MODERN ALGEBRA

This course includes a study of the basic number system of algebra, group theory, vectors and vector spaces, the algebra of matrices, linear groups, determinants and canonical forms. Individual students will be assigned an in-depth study of one of the topics.

Prerequisite: 12 hours of mathematics

### Math 5305 ADVANCED CALCULUS

Topics covered are infinite sequences, series, functions of one and several variables, proper and improper integrals and functions defined by integrals. Each student will be expected to pursue at least one of the methods of classical analysis as applied to the calculus.

Prerequisite: Math 3300

### Math 5306 SPECIAL TOPICS IN NUMERICAL ANALYSIS

Topics covered are solutions to higher degree algebraic equations and transcendental equations, numerical differentiation and integration, numerical solutions to differential equations, construction of mathematical models and error analysis. Individual students will be assigned an in-depth study of one of the topics.

Prerequisite: Math 3301

### Math 5307 COMBINATORIAL ANALYSIS

Topics covered are permutations, combination, generating functions, recurrence relations and concepts of graph theory.

Prerequisite: Math 3300

### Math 5308 ADVANCED TOPICS IN PROBABILITY AND STATISTICS

Topics covered are probability densities, mathematical expectation, the distribution of linear combinations of random variables, and the central limit theorem. Student reports on selected topics.

Prerequisite: Math 3300

### Math 5309 SPECIAL TOPICS IN PROBABILITY AND STATISTICS

Topics covered are sampling distributions estimation, tests of hypotheses, correlation and regression and the analysis of variance. Investigation of special problems in the theory and application of statistics using current techniques.

Prerequisite: Math 4308 or 5308

**Math 5312 TOPOLOGY**

Topological properties of sets in Euclidean space and an introduction to the general theory of metric and topological spaces.

Prerequisite: Math 3300 and Math 4304

**Math 6302 MATHEMATICAL ANALYSIS I**

Topics covered are limits, continuity, differentiability, approximation and convergence of real functions.

Prerequisite: Math 4305 or its equivalent.

**Math 6303 MATHEMATICAL ANALYSIS II**

Topics in the theory of measure and integration, introduction to abstract spaces and operator theory.

Prerequisite: Math 6302

**Math 6304 ABSTRACT ALGEBRA I**

Includes polynomial rings, ideal and quotient rings, determinants, matrix algebra and linear transformations.

Prerequisite: Math 5304 or its equivalent.

**Math 6305 PROJECTIVE GEOMETRY**

Includes introductory concepts, the principle of duality, simple and complete figures, perspectivity, the Desargues' configuration and Desargues Theorem, harmonic sets, metric properties, projectively primitive forms, conics and cones, Pascal's theorem and Brianchon's theorem, the theory of the pole and the polar, and metric properties of cones.

Prerequisite: Graduate standing in mathematics.

**Math 6307 SURVEY OF NUMERICAL METHODS**

Difference tables, Newton-Cotes Numerical Integration Formulae, Lagrange Interpolation, Numerical Differentiation, Gaussian Quadrature, Approximations with Finite Fourier Series, Least-Squares Approximations, Picard's Method, Euler's Method, Taylor's Series, Runge-Kutta Methods, Milne Method, Adams-Bashforth Method, Numerical Solutions of Systems of Differential Equations, Introduction to Numerical Solutions of Partial Differential Equations.

Prerequisite: Math 4307 or 5306

**Math 6310 A SURVEY OF STATISTICAL METHODOLOGY**

Design of experiments, multivariate analyses, analysis of variance and multiple regression.

Prerequisite: Math 5309

**Math 6311 SURVEY OF COMBINATORIAL METHODOLOGY**

Generating Functions — Their relations and algebra, Finite Difference Equations, Lattice Paths and their algebra, Special Numbers — Fibonacci Numbers, Stirling Numbers, Partitions, Graph Theory, Polya's Enumeration Theorem, Introduction to Numerical Taxonomy.

Prerequisite: Math 4305 or 5305.

**Math 6312 TOPOLOGY I**

Includes metric spaces, nets and filters, compact spaces and compactifications, function spaces and homotopy.

Prerequisite: Math 4312 or 5312.

**Math 6313 THEORY OF FUNCTIONS OF A COMPLEX VARIABLE**

Algebra and geometry of complex numbers; elementary functions and their mappings. Analytic functions; integration in the complex plane; Cauchy's Integral Theorem and related theorems. Representation theorems including Taylor and Laurent expansions. Calculus of residues.

Prerequisite: Graduate standing in mathematics.

**Math 6314 MATHEMATICS SEMINAR**

An introduction to the methods and tools of mathematical research. The work of the course consists in the solution by students of assigned problems in various fields of mathematics and presentation of these solutions in both written and oral form.

Prerequisite: Eighteen hours of graduate mathematics

**Math 6315 SPECIAL PROBLEMS IN TEACHING MATHEMATICS**

A critical analysis of issues, trends, and historical developments in secondary mathematics teaching with emphasis on the areas of curriculum and methodology.

**Math 7300, 7301 THESIS**

**SUPPORT AREAS IN SCHOOL OF SCIENCES AND MATHEMATICS  
GRADUATE COURSES IN CHEMISTRY**

**Chem. 5301 BIOCHEMISTRY**

The reactions of intermediary metabolism. Three hours lecture.  
Prerequisites: Chemistry 3401 and Chemistry 3403.

**Chem. 5302 ADVANCED TOPICS IN CHEMISTRY**

A study of selected areas from various chemical specialties at a level beyond that attained in undergraduate work. Topics selected will be determined from the level of chemical knowledge and the needs of those enrolled. Three hours lecture.

**Chem. 5303 INSTRUMENTAL ANALYSIS**

A study of measurement techniques and methods using instruments to obtain Qualitative and Quantitative information. Includes a study of instrument modules, transducers, amplifiers, control and read out devices. Will usually include computer application either to instrument control or data reduction. One hour lecture and six hours laboratory. Lab fee \$5.00.

Prerequisite: A knowledge of Quantitative Analytical technique.

**GRADUATE COURSES IN PHYSICS**

**Phys. 5304 PHYSICS FOR TEACHERS**

Review of the fundamentals of physics. Methods and techniques of teaching physics will be included.

Prerequisite: Graduate standing and 1 year of physics.

**Phys. 5306 ADVANCED MECHANICS**

The Lagrangian formulation of mechanics is treated extensively with an introduction to the Hamiltonian formulation. Selected topics including variational principles, tensor algebra as applied to rigid body motion, and the theory of small amplitude vibrations.

Prerequisite: Graduate standing and Physics 3305.

**Phys. 5307 SOLID STATE PHYSICS**

Crystal structure studies, classical and quantum theories of specific heat, and band theory of metals and semi-conductors.

Prerequisite: Graduate standing and Physics 4303.

**Phys. 5308 SEMINAR IN PHYSICS**

Investigations of problems and progress in contemporary physics will be undertaken. Individual research and reporting will be emphasized.

Prerequisite: Graduate standing and 1 year of physics.



A nutrition seminar, in conjunction with a recent education course, led to an experiment which showed that cottage cheese on graham crackers is a good meat substitute as well as a tasty treat.

## SCHOOL OF SOCIAL SCIENCES

Degree: Master of Arts

Majors: History

Minor: Government

Support Areas: Psychology  
Sociology

**Dr. T. Lawrence White, Dean of the School of Social Sciences**  
**Dr. David Alvarez, Acting Head of the Department of Behavioral Sciences**  
**Dr. Jerry Polinard, Acting Head of the Department of Political Science**  
**Dr. Porter A. Stratton, Head of the Department of History**

## SCHOOL OF SOCIAL SCIENCES

The School of Social Sciences offers courses leading to a Master of Arts in History and providing minor and support areas for degrees in other fields.

Undergraduate requirements for a minor or specialization area: 12 semester hours of History, 6 hours of which must be advanced.

Credit for a 5000 level course is not given to a student with previous undergraduate credit in a similar course.

### THE DEPARTMENT OF HISTORY

#### REQUIREMENTS BY THE DEPARTMENT OF HISTORY

1. In addition to the general requirements for admission to the Graduate School, applicants must have completed or must complete as leveling work twenty-four semester hours of undergraduate history courses, half of which must have been at the upper division level. In the case of his minor, the applicant must have completed or complete twelve semester hours, half of it upper division.
2. Full time graduate students, who must meet the above requirements, may take up to nine semester hours of such leveling work while taking a limited number of graduate hours.
3. After acceptance by the Department into the graduate program, the student will consult with the departmental graduate advisor concerning course work and schedules until he is admitted to candidacy.
4. Candidates may elect one of three options to complete the Master of Arts degree with a major in history:
  - a. **Professional certification program;** This thirty-six semester hour non-thesis program includes twelve hours of education and six additional semester hours in a resource area such as government, sociology and economics. In the remaining eighteen semester hours of history, one 6000 level history course is required in each of the specialization areas of American, European, and Latin American history.
  - b. **Traditional Master's program:** Twenty-four semester hours in history, including the thesis which is required. Candidates may select a minor or a resource area of six semester hours in a related field such as government, sociology, economics, education, or history.
  - c. **Non-thesis program:** Thirty-six semester hours, with twenty-four in history. A minor of twelve hours or six semester hours in each of two resource areas may be selected.

## MASTER OF ARTS DEGREE

<b>Major</b>	<b>Thesis</b>
History	
<b>MAJOR</b>	<b>(18 hours)</b>
A minimum of eighteen semester hours with no more than half at the 5000 level.	
Hist. 6300 required of all students.	
<b>RESOURCE AREA or MINOR</b>	<b>(6 hours)</b>
Choose from Government, Sociology, Economics, Education, or History. At least half of the hours must be at the 6000 level.	
<b>THESIS</b>	<b>(6 hours)</b>
Hist. 7300, 7301 THESIS	
	<b>TOTAL 30 hours</b>

## MASTER OF ARTS DEGREE

<b>Major</b>	<b>Non-Thesis</b>
History	
<b>MAJOR</b>	<b>(24 hours)</b>
A minimum of twenty-four semester hours of History with no more than half at the 5000 level.	
Hist. 6300 required of all students.	
<b>MINOR</b>	<b>(12 hours)</b>
Twelve hours of which no more than six may be at the 5000 level.	
Select from English, Spanish, Education, Government, Health and Physical Education, or Mathematics. Students may also elect a minor or resource area of six hours or take additional courses in History.	
	<b>TOTAL 36 hours</b>



**PROFESSIONAL CERTIFICATE**  
with  
**MASTER OF ARTS DEGREE**

<b>Major</b>	<b>Certificate</b>
History	Professional Elementary
<b>MAJOR</b>	<b>(18 hours)</b>

No more than six semester hours may be in courses at the 5000 level.

History 6300 required of all students.

3 semester hours required from each of the following areas:

- A. Hist. 6301 SEMINAR AND PROBLEMS STUDY IN ERAS IN AMERICAN HISTORY TO 1860
- Hist. 6303 SEMINAR AND PROBLEMS STUDY IN ERAS IN AMERICAN HISTORY SINCE 1860
- Hist. 6306 STUDIES IN TEXAS AND SOUTHWESTERN HISTORY
- B. Hist. 6307 SEMINAR AND PROBLEMS STUDIES IN THE HISTORY OF SOUTH AMERICA
- Hist. 6309 SEMINAR AND PROBLEMS STUDIES IN THE HISTORY OF MIDDLE AMERICA
- Hist. 6310 HISTORY OF INTER-LATIN AMERICAN RELATIONS
- C. Hist. 6311 SEMINAR AND PROBLEMS IN MODERN EUROPEAN HISTORY
- Hist. 6380 THE GOLDEN AGE OF SPAIN AND PORTUGAL

**PROFESSIONAL DEVELOPMENT (EDUCATION)** **(12 hours)**

Required:

- \*Ed. 5312 TESTS AND MEASUREMENTS FOR THE ELEMENTARY CLASSROOM TEACHER
- Ed. 6330 THE CURRICULUM IN THE ELEMENTARY SCHOOL
- Ed. 6332 RESEARCH IN ELEMENTARY EDUCATION

3 semester hours from:

- Ed. 6301 INSTRUCTIONAL MEDIA IN TEACHING
- Ed. 6311 ADVANCED CHILD PSYCHOLOGY
- Ed. 6322 TEACHING THE BILINGUAL CHILD
- Ed. 6323 PROBLEMS IN THE TEACHING OF READING
- Ed. 6397 ANALYSIS OF TEACHER BEHAVIOR

**RESOURCE AREA** **(6 hours)**

No more than three hours may be at the 5000 level.

Choose from Government, Economics, Sociology. Those seeking an elementary professional certificate may select these six hours in Education.

TOTAL 36 hours

\*If the student had Ed. 3312 at the undergraduate level, Ed. 6313 should be taken.

**PROFESSIONAL CERTIFICATE  
with  
MASTER OF ARTS DEGREE**

<b>Major</b>	<b>Certificate</b>
History	Professional Secondary
<b>MAJOR</b>	<b>(18 hours)</b>

No more than six semester hours may be in courses at the 5000 level.  
History 6300 required of all students.

3 semester hours required from each of the following areas:

- A. Hist. 6301 SEMINAR AND PROBLEMS STUDY IN ERAS IN AMERICAN HISTORY TO 1860
- Hist. 6303 SEMINAR AND PROBLEMS STUDY IN ERAS IN AMERICAN HISTORY SINCE 1860
- Hist. 6306 STUDIES IN TEXAS AND SOUTHWESTERN HISTORY
- B. Hist. 6307 SEMINAR AND PROBLEMS STUDIES IN THE HISTORY OF SOUTH AMERICA
- Hist. 6309 SEMINAR AND PROBLEMS STUDIES IN THE HISTORY OF MIDDLE AMERICA
- Hist. 6310 HISTORY OF INTER-LATIN AMERICAN RELATIONS
- C. Hist. 6311 SEMINAR AND PROBLEMS IN MODERN EUROPEAN HISTORY
- Hist. 6380 THE GOLDEN AGE OF SPAIN AND PORTUGAL

**PROFESSIONAL DEVELOPMENT (EDUCATION) (12 hours)**

Required:

- \*Ed. 5342 TESTS AND MEASUREMENTS FOR THE SECONDARY CLASSROOM TEACHER
- Ed. 6331 THE CURRICULUM IN THE SECONDARY SCHOOL
- Ed. 6380 PRACTICUM FOR SECONDARY TEACHERS

3 semester hours selected from:

- Ed. 5351 TEACHING READING TO SECONDARY STUDENTS
- Ed. 6301 INSTRUCTIONAL MEDIA IN TEACHING
- Ed. 6333 RESEARCH IN SECONDARY EDUCATION
- Ed. 6341 ADVANCED ADOLESCENT PSYCHOLOGY
- Ed. 6353 TEACHING THE DISADVANTAGED SECONDARY LEARNER
- Ed. 6397 ANALYSIS OF TEACHER BEHAVIOR

**RESOURCE AREA (6 hours)**

No more than three hours may be at the 5000 level.

Choose from Government, Economics, Sociology.

\*If the student had Ed. 3342 at the undergraduate level, Ed. 6313 should be taken.

## GRADUATE COURSES IN HISTORY

- Hist. 5303 **THE EMERGENCE OF MODERN AMERICA, 1877-1917**  
A study of the growth of American business and industry, the emergence of the United States as a world power, and the Populist and Progressive reform movements.
- Hist. 5313 **TWENTIETH CENTURY AMERICA, 1917 TO THE PRESENT**  
A study of the history of the United States from World War I to the present with special attention given to domestic and foreign affairs in their relationship to and effect on each other.
- Hist. 5322 **THE SPANISH SOUTHWEST THROUGH 1821**  
A study of the northward colonization of Mexico with emphasis on institutions and the settlement of the interior provinces of Texas, New Mexico, Arizona and California.
- Hist. 5325 **THE AMERICAN SOUTHWEST SINCE 1821**  
The American penetration of Texas and the Mexican War; subjugation of the Indians; extension of mining, railroads, cattle industry, and farming across the Southwest; and the transition from raw frontier to modern Southwestern states.
- Hist. 5337 **AMERICAN INTELLECTUAL HISTORY FROM THE COLONIAL ERA TO MID-NINETEENTH CENTURY**  
A study of ideas in colonial and early national America with emphasis on how thinkers have understood and articulated the American religious, political-economic-social and legal experience, and on the formative role of the concept of national character.
- Hist. 5338 **AMERICAN INTELLECTUAL HISTORY SINCE MID-NINETEENTH CENTURY**  
A study of the ideas in America since mid-nineteenth century with attention to the ideologies of capitalism and socialism, the impact of science, and the role of law in American thinking.
- Hist. 5343 **THE ERA OF SECTIONAL CONFLICT, 1820-1877**  
United States history from 1820 to 1877 with emphasis upon the development of sectionalism, Southern nationalism, the breakdown of American political parties, Civil War, and Reconstruction.
- Hist. 5345 **MEXICO SINCE INDEPENDENCE**  
A study of political, social and cultural developments since 1821; problems of Mexico and her role in Pan American relations.
- Hist. 5352 **BRAZIL AS AN INDEPENDENT NATION**  
A study of Brazil as an empire and a republic with emphasis on the social, geographical and political factors that make it a unique nation in the Western Hemisphere.

- Hist. 5353 HISTORY OF MEXICAN CULTURE**  
A study of the Mexican people, including development of their social institutions, thinking, concepts, attitudes, values, reactions, and sensitivities.
- Hist. 5354 MEXICO'S SOCIAL REVOLUTION, 1910 TO THE PRESENT**  
A study of the nature and impact of social, political and economic changes in Mexico since the Revolution of 1910.
- Hist. 5355 HISPANIC SOUTH AMERICA SINCE INDEPENDENCE**  
The historical development of the major Hispanic South American Republics; general trends in their social, economic and political growth.
- Hist. 5363 HISTORY OF THE UNITED STATES-LATIN AMERICAN RELATIONS**  
The development of a distinctive system of international relations — economic, cultural, and political — between the nations of Latin America and the United States.
- Hist. 5370 THE RENAISSANCE AND THE REFORMATION, 1300 TO 1650**  
A study of the political, social, and cultural developments of Western Europe from the decline of the Medieval system, through the age of the New Monarchies to the rise of the Absolute Monarchies, with emphasis on France, Germany and Italy.
- Hist. 5371 RUSSIA FROM ITS REVOLUTIONARY ERA TO THE PRESENT**  
Russia from the precursors of revolution through the revolutions of 1905 and 1907, and the development of the Soviet regime to current trends.
- Hist. 5375 EUROPE IN THE AGE OF ABSOLUTISM AND THE ENLIGHTENMENT, 1650-1789**  
Traces the development of the absolutist state, benevolent despotism, and the intellectual and scientific trends of the Enlightenment.
- Hist. 5376 REVOLUTIONARY EUROPE, 1789-1850**  
A study of Europe of this period with emphasis on the growth of democratic institutions from the beginning of the French Revolution through the Revolution of 1848.
- Hist. 5383 EUROPE FROM 1850 TO 1919**  
A study of European history through the period of growing nationalism and imperialism leading to World War I.
- Hist. 5393 EUROPE FROM 1919 TO PRESENT**  
A study of the causes of World War II, its resulting problems, and current trends.

- Hist. 6300 **HISTORIOGRAPHY AND HISTORICAL METHOD**  
A description of the chief source materials of history and bibliography; methods of and aids in historical research; and explanations of generally accepted usages in historical composition. (This course is required of all graduate students majoring and minoring in history and should be taken at the start of the graduate's program.)
- Hist. 6301 **SEMINAR AND PROBLEMS STUDY IN ERAS IN AMERICAN HISTORY TO 1860**  
A survey and critique of the bibliography and problems of various eras in American history before the Civil War.
- Hist. 6303 **SEMINAR AND PROBLEMS STUDY IN ERAS IN AMERICAN HISTORY SINCE 1860**  
A survey and critique of the bibliography and problems of various eras in American history since 1860.
- Hist. 6306 **STUDIES IN TEXAS AND SOUTHWESTERN HISTORY**  
An intensive investigation of selected problems in Southwestern History with emphasis on Texas.
- Hist. 6307 **SEMINAR AND PROBLEMS STUDY IN THE HISTORY OF SOUTH AMERICA**  
An investigation and critique of the problems and contributions made by the various South American countries in the 19th and 20th centuries and their roles in inter-American relations.
- Hist. 6309 **SEMINAR AND PROBLEMS STUDY IN THE HISTORY OF MIDDLE AMERICA**  
An investigation and critique of the problems and contributions made by Mexico, the Central American, and Caribbean Island nations in the 19th and 20th centuries and their roles in inter-American relations.
- Hist. 6310 **HISTORY OF INTER-LATIN AMERICAN RELATIONS**  
Study and research of major events and their significance in the relations between the nations of Central America, South America, and the Caribbean.
- Hist. 6311 **SEMINAR AND PROBLEMS IN MODERN EUROPEAN HISTORY**  
A survey and critique of the bibliography associated with investigations of selected era studies and problems experienced by modern Europe.

**Hist. 6380 THE GOLDEN AGE OF SPAIN AND PORTUGAL, 1300 TO 1700**

A study of the political, social, and cultural developments of Spain and Portugal from the era of the Moors to the end of the Hapsburg dynasty, including colonial expansion into North Africa.

**Hist. 7300, 7301 THESIS**

Research and writing of the thesis.

Every graduate level history course except the thesis course requires the completion of a research paper.

#### **MINOR IN SCHOOL OF SOCIAL SCIENCES**

Any approved major may also be used as a minor with another approved major. In addition, the School of Social Sciences offers a minor in government.

#### **GRADUATE COURSES IN GOVERNMENT**

**Govt. 5313 COMPARATIVE GOVERNMENTS: WESTERN DEMOCRACIES**

A study of the major democracies of Europe: Great Britain, France, West Germany, Italy, Low Countries, Scandinavian Countries, Switzerland, and Austria. A comparative study of peoples and their institutions. A research project and supporting specialized readings will be emphasized.

**Govt. 5360 AMERICAN EXECUTIVE PROCESS AND POLICY OUTPUTS**

Advanced study of the development of the power and influence of the President and other American executives; procedures and policies of the executive process; executive policy outputs; the relation of the executive to the other elements of the political system.

**Govt. 5363 AMERICAN LEGISLATIVE PROCESS**

Advanced study of the legislative process; structure, powers, organization, political control and procedures of Congress, state legislatures and local legislative bodies in the rest of the political system.

**Govt. 5365 AMERICAN ADMINISTRATIVE PROCESS**

Advanced study of law and procedures of national, state and local administrative agencies and their behavior; problems in administrative management; theory of complex organizations; policy outcomes of the administrative process.

**Govt. 5373 AMERICAN POLITICAL PARTIES AND POLITICS**

A study of the history, organization, function and leadership of political parties and the role they play in the operation of national, state and local governments in the United States. A research project and supporting specialized readings will be emphasized.

**Govt. 5383 LATIN-AMERICAN POLITICS**

A survey of governmental structures and politics in Latin America. Examines competing ideologies, group developments, party interests, influences of revolution, relationship between political, social and economic structures, and Latin America's role in the world political arena. A research project and supporting specialized readings will be emphasized.

**Govt. 6321 SEMINAR IN AMERICAN GOVERNMENT AND POLITICS**

Research, readings, report writing. Topics may include the functioning of political parties, interest groups, public opinion, voting behavior, and minority politics; legislative, executive and judicial functions, processes and behavior; empirical study of the outputs of the political system in the areas of regulation of the economy, promotion of welfare, and fiscal management.

**Govt. 6331 SEMINAR IN COMPARATIVE GOVERNMENT AND POLITICS**

Research, reading, analysis of problems, processes, institutions, behavior, and outputs of the various political systems of selected areas and nations throughout the world.

**Govt. 6360 POLITICS OF MINORITY GROUPS**

A study of the major minority groups: Mexican-Americans, American Indians, and Blacks focusing on (1) race relations, (2) goals of the minorities, (3) methods of achieving goals, (4) the crisis of identity, (5) governmental action and reaction toward minorities.

**SUPPORT AREAS IN SCHOOL OF SOCIAL SCIENCES**

**GRADUATE COURSES IN PSYCHOLOGY**

**Psy. 5313 ABNORMAL PSYCHOLOGY**

Analysis, etiology, and incidence of neurosis and psychosis; mental hygiene problems; and adjustive behavior. A research project and supporting specialized readings will be emphasized.

Prerequisites: 6 semester hours of psychology.

**Psy. 5323 PSYCHOLOGY OF LEARNING**

Methods, results and interpretations of experimental studies in learning. Attention will be given to methods of conditioning. This course will include the nature and conditions of the learning process and those factors related to its rate and efficiency. A research project and supporting specialized readings will be emphasized.

Prerequisites: 6 semester hours of psychology.

**Psy. 5333 THEORIES OF PERSONALITY**

A study of the development, structure, and assessment of personality with a consideration of the major theoretical attempts to account for the psychological nature and the behavior of man. A research project and supporting specialized readings will be emphasized.

Prerequisites: 6 semester hours of psychology.

**GRADUATE COURSES IN SOCIOLOGY**

**Soc. 5313 AMERICAN MINORITIES**

A study of the principal minority groups in American society and their sociological significance; problems of intergroup relations, social movements, and related social changes occurring on the contemporary American scene. A research project and supporting specialized readings will be emphasized.

**Soc. 5323 THE MEXICAN-AMERICANS**

Presents Mexican-American and Anglo contacts and relations in the United States from colonial times to the present, with special emphasis on the Southwestern United States. Social, economic, and cultural differences are emphasized. Special attention is given to changes occurring among Mexican-Americans in the last few years and how this is affecting Mexican-American-Anglo relationships. Students will have to do a research project using primary resources as part of the course requirements.

**Soc. 5343 POPULATION PROBLEMS**

A study of population distribution, composition, growth, migration, and vital processes.



## **SCHOOL OF BUSINESS ADMINISTRATION**

**Support Areas:   Accounting  
                      Business Administration  
                      Economics**

**Dr. R. N. McMichael, Dean of the School of Business Administration**  
**Dr. E. F. Baldwin, Director of Instruction and Administration**  
**Dr. Roy Flores, Director of Counseling and Placement**  
**Dr. Carl Rush, Director, Bureau of Business and Economic Research**  
**Dr. J. E. Gratz, Director of Programs**

**THE DEPARTMENT OF BUSINESS ADMINISTRATION**  
**SUPPORT AREAS IN BUSINESS ADMINISTRATION**

Credit for a 5000 level course is not given to a student with previous undergraduate credit in a similar course.

**GRADUATE COURSES IN ACCOUNTING**

**Acc. 5321 SPECIAL PROBLEMS IN ACCOUNTING**

Advanced study of accounting techniques in estates, trusts, bankruptcies, and consolidated reporting. Research papers will be required in areas of current interest.

Prerequisite: Acc. 3322 or consent of instructor.

**Acc. 5329 SPECIALIZED TAX PROBLEMS**

Concentrates on tax regulations and preparation of federal tax returns of partnerships and corporations; federal gift, estate, and inheritance taxes. Investigation and report on a case or a problem in an area of interest to the student is required.

Prerequisites: B.A. 3323 or equivalent.

**GRADUATE COURSES IN BUSINESS ADMINISTRATION**

**B.A. 5332 HUMAN RELATIONS IN MANAGEMENT**

The application of behavioral sciences to human behavior in the work setting. Study of the basics of human motivation and how it is influenced by leadership, the organization itself, and the social environment in which the organization exists. The student in conference with the instructor will define an independent research problem on which he will report.

**B.A. 5362 ADMINISTRATIVE SUPERVISION OF PERSONNEL**

Concepts, principles, and practice in the administrative supervision of employees, to include: selection, placement, training, compensation, employee services, and related subject. A research project and supporting specialized readings will be required.

**B.A. 5363 QUANTITATIVE TECHNIQUES IN PRODUCTION PROCESSES**

A review of quantitative techniques applicable to the solution of production management problems. Emphasis is on the understanding and applications of these techniques as aids in management decision making. Individual projects will be assigned to each student.

**B.A. 5369 BUSINESS STRATEGY**

An integrative study of management problems under conditions of uncertainty. Comprehensive cases and incidents involving administrative theory and organizational policy are considered. Decision making under dynamic conditions is provided through a computerized business simulation.

Prerequisites: Acc. 2322, B.A. 3341, 3361, 3371 and 3383.

**B.A. 5377 MODERN MARKETING PRACTICES**

Review of contemporary issues in marketing with emphasis on planning and objectives setting for new and existing products. All phases of marketing management will be covered including product development and design, pricing policy, distribution analysis and promotional devices. A marketing plan for an existing product will be required as a semester project.

Prerequisites: B.A. 3371 and 4378.

**B.A. 5378 ADVANCED MARKET ANALYSIS**

Study of analytical procedures employed in the identification of market potentials and in the solution of marketing problems. Quantitative techniques will be emphasized in the utilization of primary and secondary data. Individual and group research projects will be required to illustrate techniques.

Prerequisites: Eco. 2352, B.A. 3341 and 3371.

**B.A. 6315 SEMINAR: CURRENT PROBLEMS IN BUSINESS EDUCATION**

Designed for secondary and post secondary teachers of business. Analyzes research studies and current literature in the major areas of business education. Applies findings of research to actual teaching situations. Reviews and analyzes the systems approach to teaching.

Prerequisites: One year of teaching experience and/or consent of instructor.

**GRADUATE COURSES IN ECONOMICS**

**Eco. 5354 LABOR PROBLEMS AND LEGISLATION**

A study of labor issues and the relationship of employers, unions, and government. Examines the size and composition of the labor force, development of organized labor, issues in collective bargaining and wages, hours, unemployment, and security. Appraisal of effect of labor legislation and public policy on producers and consumers. The student will investigate and report on a special topic of interest to him.

Prerequisites: One semester of macroeconomics or introductory economics.

**Eco. 5369 DEVELOPMENT OF ECONOMIC THEORY**

The evolution of economic theory from the earliest times to the present. Emphasis is placed on contemporary schools of thought and their origins.

Prerequisites: 12 semester hours of economics and graduate standing.



A court yard completely encircled by Spanish architecture makes up the fine arts center which houses the art department, the departments of speech and drama and music and a 1,000-seat auditorium.

## **BUSINESS AFFAIRS**

# STUDENT EXPENSES

The cost of attending Pan American University is reasonable; in fact it is considerably less than at many institutions. Moreover, a broad student-aid program consisting of part-time employment, scholarships, and loans provides opportunity of helping defray expenses. The cost of a Pan American University education should not stand in the way of any person determined to get a higher education.

While the cost of attending this university varies with the individual student, it generally conforms to a pattern. Therefore, in an attempt to assist the student in planning his budget, we have listed the various expenses for which the student must make provisions.

NOTE: Pan American University reserves the right to change tuition and fees in keeping with Acts of the Texas State Legislature or the Board of Regents.

## PAYMENT OF FEES

State universities have no power to extend credit to any person. It is necessary, therefore, that any student registering at this university have the necessary finances to pay all expenses at the time of registration. A student is not registered until all his fees are paid in full. Payments may be made by cash, check or money order payable to Pan American University. All checks, money orders and drafts are accepted subject to final payment.

## RESIDENCY CLASSIFICATIONS AND TUITION FEES

There are seven (7) residency classifications which apply in registering at Pan American University used in figuring the tuition charge. Listed below are these classifications with a brief explanation of each as to whom they individually apply. These fees apply for both credit and non-credit enrollment.

Classification 1: Residents of Texas will pay \$4 per semester credit hour with a minimum charge of \$50 for regular semester (4-1/2 months), and a minimum charge of \$25 for summer sessions (6 weeks).

Classification 2: Students who are residents of another state, pay \$40 per semester credit hour with no minimum per semester.

Classification 3: Students who are citizens of any country other than the U.S. of America pay \$14 per semester credit hour with a minimum of \$200 per regular semester and \$100 per summer session.

Classification 4: Non-Residents (students who are residents of another state) enrolled during the Spring Semester of 1971 and who remain continuously enrolled in the regular semesters pay \$200 for 12 semester credit hours or more.

Classification 5: Students in Nursing Education enrolled for 12 or more semester credit hours pay \$50 per semester.

**NOTE:** Students in Nursing Education enrolled for less than 12-semester credit hours will pay an amount proportionately less than 12-semester credit hour students, but not less than \$20. Only students officially accepted by the Nursing Department will qualify under this classification.

**Classification 6:** A teaching assistant, research assistant, or other student employee is entitled to register himself, his spouse, and their children by paying the tuition fees required for Texas residents, without regard to the length of time he has resided in Texas; provided the student employee is employed at least 1/2 time in a position which relates to his program.

**Classification 7:** A non-resident student holding a competitive scholarship of at least \$200 for the academic year for which he is enrolled is entitled to pay the fees required of Texas residents without regard to the length of time he has resided in Texas, provided that he competes with other students for the scholarship and that the scholarship be awarded by a scholarship committee officially recognized by Pan American University.

### **STUDENT RESPONSIBILITY FOR RESIDENCE CLASSIFICATION**

The responsibility of registering under the proper residence classification is that of the student, and if there is any possible question of his right to classification as a resident of Texas, it is his obligation, prior to or at the time of registration, to raise the question with the Dean of Admissions and have his status officially determined.

Every student who is classified as a resident but who becomes a non-resident at any time by virtue of a change of legal residence by his own action or by a person controlling his domicile is required to notify the Dean of Admissions.

Students failing to comply with the residency provisions of the state tuition bill (Art. 2645c V.C.S. as amended) are subject to penalties as set forth in the law and/or appropriate disciplinary action.

Additional information on residency classification is available in the Office of the Dean of Admissions.

### **EXEMPTIONS FROM TUITION**

Under the authority of Chapter 6, Acts of the 43rd Legislature, 1st called session, 1933, as amended, otherwise cited as the Hazelwood Act, the following exemptions from tuition are applicable:

The Board of Regents of Pan American University is hereby authorized and directed to except and exempt all citizens of Texas, who have resided in Texas for a period of not less than twelve (12) months prior to the date of registration, and who served during the Spanish-American, and/or during World War as nurses or in the Armed Forces of the United States during World War, and/or during the Korean War, and/or during the Cold War, and who are honorably discharged therefrom, and who were bona fide legal residents of this State at the time of entering such service, from the payment of tuition, lab, and individual instructional fees, including fees for correspondence courses; provided, however, that the foregoing exemption shall not be construed to apply to deposits, such as library or laboratory deposits, which may be required in the nature of security for

the return of or proper care of property loaned for the use of the student nor to any fees or charges for lodging, board or clothing. And provided further that the benefits and provisions of this Act shall also apply and inure to the benefit of the children of members of these armed services of the United States who were killed in action or died while in such service. This exemption does not apply to a person who served in the Armed Forces, if, at the time of his registration in a university of this State, he is eligible for educational benefits under the federal legislation in effect at the time of his registration. However, such serviceman is covered by the exemption if his right to benefits under federal legislation is extinguished at the time of his registration. The Board of Regents of Pan American University may and it shall be its duty to require every applicant claiming the benefit of the above exemption to submit satisfactory evidence that the applicant is a citizen of Texas and was a bona fide legal resident of Texas at the time of entering such service and is otherwise entitled to said exemption.

Senate Bill 431 of the 60th Legislature, cited as the Connally-Carrillo Act, provides for the exemption from tuition fees of all persons who, at the time of registration:

(1) Are citizens of Texas; (2) have resided in Texas for a period of not less than twelve (12) months; (3) are under 25 years of age; (4) were graduated in the top 25 percent of their graduating class of an accredited high school in 1967 or thereafter or have scored in the top 20 per cent on a nationally standardized university admission examination; (5) had annual family income of not more than \$4,800; and (6) had no financial assistance from any source other than his family or his guardian.

In order to be exempted from payment of tuition fees under either the Hazelwood Act of the Connally-Carrillo Act, the student must have an approved application for exemption on file with the university 30 days prior to registration.

Application for exemption may be secured at the Office of the Director of Financial Aid located in the University Center.

## **STUDENT SERVICE FEE AND BUILDING USE FEE**

Other required fees to be paid by students are the Student Service Fee and the Building Use Fee. These fees are required of every student registering for credit, non-credit or audit hours.

### **STUDENT SERVICE FEE:**

Activities to be supported from this source of income include: Intramural and Inter-collegiate Athletics, Student Publications, Band, Choir, Orchestra, Artists and Lecture Series, Cultural Entertainment Series. Debating and Oratorical Activities, Student Government, and other student activities and services as authorized by the Board of Regents.

### **BUILDING USE FEE:**

Building Use Fees are computed at \$3.00 per semester hour.

Refunds of these fees will be made under the same conditions as set for the Tuition fees.



**FEE APPLICABLE PER SEMESTER**

Schedules as per Regular Sessions

Classifications 1, 6, and 7. Residents of Texas.

No. Hr.	Tuition	Student Service Fee	Building Use Fee	Total
*21	84.00	22.00	63.00	169.00
20	80.00	22.00	60.00	162.00
19	76.00	22.00	57.00	155.00
18	72.00	22.00	54.00	148.00
17	68.00	22.00	51.00	141.00
16	64.00	22.00	48.00	134.00
15	60.00	22.00	45.00	127.00
14	56.00	22.00	42.00	120.00
13	52.00	22.00	39.00	113.00
12	50.00	22.00	36.00	108.00
11	50.00	22.00	33.00	105.00
10	50.00	22.00	30.00	102.00
9	50.00	22.00	27.00	99.00
8	50.00	20.00	24.00	94.00
7	50.00	17.50	21.00	88.50
6	50.00	15.00	18.00	83.00
5	50.00	12.50	15.00	77.50
4	50.00	10.00	12.00	72.00
3	50.00	7.50	9.00	66.50
2	50.00	5.00	6.00	61.00
1	50.00	2.50	3.00	55.50

\*Add \$4.00 for Tuition for each hour over 21, and \$3.00 for Building Use Fee.

Classification 2. (Non-Residents) Students who are Citizens of another state.

No. Hr.	Tuition	Student Service Fee	Building Use Fee	Total
21	840.00	22.00	63.00	925.00
20	800.00	22.00	60.00	882.00
19	760.00	22.00	57.00	839.00
18	720.00	22.00	54.00	796.00
17	680.00	22.00	51.00	753.00
16	640.00	22.00	48.00	710.00
15	600.00	22.00	45.00	667.00
14	560.00	22.00	42.00	624.00
13	520.00	22.00	39.00	581.00
12	480.00	22.00	36.00	538.00
11	440.00	22.00	33.00	495.00
10	400.00	22.00	30.00	452.00
9	360.00	22.00	27.00	409.00
8	320.00	20.00	24.00	364.00

<b>No. Hr.</b>	<b>Tuition</b>	<b>Student Service Fee</b>	<b>Building Use Fee</b>	<b>Total</b>
7	280.00	17.50	21.00	318.50
6	240.00	15.00	18.00	273.00
5	200.00	12.50	15.00	227.50
4	160.00	10.00	12.00	182.00
3	120.00	7.50	9.00	136.50
2	80.00	5.00	6.00	91.00
1	40.00	2.50	3.00	45.50

Classification 3. (Non-Resident) Students who are citizens of any country other than the United States of America.

<b>No. Hr.</b>	<b>Tuition</b>	<b>Student Service Fee</b>	<b>Building Use Fee</b>	<b>Total</b>
21	294.00	22.00	63.00	379.00
20	280.00	22.00	60.00	362.00
19	266.00	22.00	57.00	345.00
18	252.00	22.00	54.00	328.00
17	238.00	22.00	51.00	311.00
16	224.00	22.00	48.00	294.00
15	210.00	22.00	45.00	277.00
14	200.00	22.00	42.00	264.00
13	200.00	22.00	39.00	261.00
12	200.00	22.00	36.00	258.00
11	200.00	22.00	33.00	255.00
10	200.00	22.00	30.00	252.00
9	200.00	22.00	27.00	249.00
8	200.00	20.00	24.00	244.00
7	200.00	17.50	21.00	238.50
6	200.00	15.00	18.00	233.00
5	200.00	12.50	15.00	227.50
4	200.00	10.00	12.00	222.00
3	200.00	7.50	9.00	216.50
2	200.00	5.00	6.00	211.00
1	200.00	2.50	3.00	205.50

Classification 4. Non-Residents enrolled during the Spring Semester of 1971.

<b>No. Hr.</b>	<b>Tuition</b>	<b>Student Service Fee</b>	<b>Building Use Fee</b>	<b>Total</b>
21	200.00	22.00	63.00	285.00
20	200.00	22.00	60.00	282.00
19	200.00	22.00	57.00	279.00
18	200.00	22.00	54.00	276.00

<b>No. Hr.</b>	<b>Tuition</b>	<b>Student Service Fee</b>	<b>Building Use Fee</b>	<b>Total</b>
17	200.00	22.00	51.00	273.00
16	200.00	22.00	48.00	270.00
15	200.00	22.00	45.00	267.00
14	200.00	22.00	42.00	264.00
13	200.00	22.00	39.00	261.00
12	200.00	22.00	36.00	258.00
11	184.00	22.00	33.00	239.00
10	167.00	22.00	30.00	219.00
9	150.00	22.00	27.00	199.00
8	134.00	20.00	24.00	178.00
7	117.00	17.50	21.00	155.50
6	100.00	15.00	18.00	133.00
5	84.00	12.50	15.00	111.50
4	67.00	10.00	12.00	89.00
3	50.00	7.50	9.00	66.50
2	50.00	5.00	6.00	61.00
1	50.00	2.50	3.00	55.50

Classification 5. (Nursing Education) Students officially accepted by the Nursing Department.

<b>No. Hr.</b>	<b>Tuition</b>	<b>Student Service Fee</b>	<b>Building Use Fee</b>	<b>Total</b>
21	50.00	22.00	63.00	135.00
20	50.00	22.00	60.00	132.00
19	50.00	22.00	57.00	129.00
18	50.00	22.00	54.00	126.00
17	50.00	22.00	51.00	123.00
16	50.00	22.00	48.00	120.00
15	50.00	22.00	45.00	117.00
14	50.00	22.00	42.00	114.00
13	50.00	22.00	39.00	111.00
12	50.00	22.00	36.00	108.00
11	46.00	22.00	33.00	101.00
10	42.00	22.00	30.00	94.00
9	38.00	22.00	27.00	87.00
8	34.00	20.00	24.00	78.00
7	30.00	17.50	21.00	68.50
6	26.00	15.00	18.00	59.00
5	22.00	12.50	15.00	49.50
4	20.00	10.00	12.00	42.00
3	20.00	7.50	9.00	36.50
2	20.00	5.00	6.00	31.00
1	20.00	2.50	3.00	25.50

## Schedules as per Summer Sessions

### Classifications 1, 6, and 7. Residents of Texas

No. Hr.	Tuition	Student Service Fee	Building Use Fee	Total
9	36.00	11.00	27.00	74.00
8	32.00	11.00	24.00	67.00
7	28.00	11.00	21.00	60.00
6	25.00	11.00	18.00	54.00
5	25.00	11.00	15.00	51.00
4	25.00	10.00	12.00	47.00
3	25.00	7.50	9.00	41.50
2	25.00	5.00	6.00	36.00
1	25.00	2.50	3.00	30.50

### Classification 2. (Non-Residents) Students who are citizens of another state.

No. Hr.	Tuition	Student Service Fee	Building Use Fee	Total
9	360.00	11.00	27.00	398.00
8	320.00	11.00	24.00	355.00
7	280.00	11.00	21.00	312.00
6	240.00	11.00	18.00	269.00
5	200.00	11.00	15.00	226.00
4	160.00	10.00	12.00	182.00
3	120.00	7.50	9.00	136.50
2	80.00	5.00	6.00	91.00
1	40.00	2.50	3.00	45.50

### Classification 3. (Non-Residents) Students who are citizens of any country other than the United States of America.

No. Hr.	Tuition	Student Service Fee	Building Use Fee	Total
9	126.00	11.00	27.00	164.00
8	112.00	11.00	24.00	147.00
7	100.00	11.00	21.00	132.00
6	100.00	11.00	18.00	129.00
5	100.00	11.00	15.00	126.00
4	100.00	10.00	12.00	122.00
3	100.00	7.50	9.00	116.50
2	100.00	5.00	6.00	111.00
1	100.00	2.50	3.00	105.50

Classification 4. Non-Residents enrolled during the Spring Semester of 1971.

No. Hr.	Tuition	Student Service Fee	Building Use Fee	Total
9	100.00	11.00	27.00	138.00
8	100.00	11.00	24.00	135.00
7	100.00	11.00	21.00	132.00
6	100.00	11.00	18.00	129.00
5	84.00	11.00	15.00	110.00
4	67.00	10.00	12.00	89.00
3	50.00	7.50	9.00	66.50
2	50.00	5.00	6.00	61.00
1	50.00	2.50	3.00	55.50

Classification 5. (Nursing Education) Students officially accepted by the Nursing Department.

No. Hr.	Tuition	Student Service Fee	Building Use Fee	Total
9	25.00	11.00	27.00	63.00
8	25.00	11.00	24.00	60.00
7	25.00	11.00	21.00	57.00
6	25.00	11.00	18.00	54.00
5	22.00	11.00	15.00	48.00
4	20.00	10.00	12.00	42.00
3	20.00	7.50	9.00	36.50
2	20.00	5.00	6.00	31.00
1	20.00	2.50	3.00	25.50

**OTHER FEES AND CHARGES**

See Note

Below	Fee or Charge	Amount
	(1) Laboratory Fee	\$ 2 to \$ 8
	(2) Individual Coaching or Instructional Fee	\$20 to \$35
	(3) Audit Fee	\$15
	(4) Parking Permit Fee	\$ 4
	(5) Graduation Fee	\$15
	(6) Late Registration Fee	\$ 5
	(7) Transcript Charge	\$ 1
	(8) Change of Schedule Fee	\$ 2
	(9) Advanced Standing Examination	\$15
	(10) Returned Check Charge	\$ 2
	(11) ACT Residual Test (Scheduled dates)	\$ 8.50
	ACT Residual Test (Non-scheduled dates)	\$10
	(12) Replacement of ID Card	\$ 5
	(13) Bowling Fee	\$12.50
	(14) Thesis Binding and Microfilming	\$35
	(15) GRE	\$10
	MAT	\$ 7.50
	(16) Thesis Copyrighting	\$15

**NOTE:**

- (1) **Laboratory Fee:** For each laboratory course a fee of \$2.00 to \$8.00 is charged depending upon cost of materials used in the course. For laboratory courses dropped, the laboratory fee will be refunded on the same refund schedule as tuition.
- (2) **Individual Coaching or Instructional Fee:** Course or courses in art, architecture, drama, speech or music, where individual coaching or instruction is the usual method of instruction, shall pay a fee in addition to the regular tuition.

<b>Courses:</b>	<b>Regular Session</b>	<b>Summer Session</b>
One Semester credit hour course	\$20.00	\$20.00
Two Semester credit hour course	\$35.00	\$35.00

- (3) **Audit Fee:** A student may, under certain conditions, enroll as an auditor for a fee of \$10.00 per course plus a student service fee of \$5.00. This may be done by obtaining the proper audit card from the Registrar, having it approved by the instructor of the class to be audited, paying the required fee to the Office of the Comptroller, and using the paid receipt as an admission card to the class. Enrollment as an auditor does not permit the enrollee to take examinations or have tests or other papers checked by the instructor. Students may not receive credit for a course taken by audit, nor are they eligible for advanced standing examination over a course which has been audited. Audited courses are not posted on the students' permanent record.

**NON-CREDIT FEE:** A student who wishes to enroll in a course for non-credit will pay as one who enrolls for credit. The student should note the procedure for non-credit enrollment, as given in another section of this Bulletin.

- (4) **Parking Permit Fee:** Pan American University recognizes the use of a motor vehicle as a convenience and is not obligated to furnish unlimited parking space to accommodate all vehicles. The University does, however, attempt to provide a reasonable amount of convenient parking space in keeping with resources and available sites. To facilitate the maintenance and operation of parking facilities each student of the University who operates or parks a motor vehicle on the campus must register each vehicle at the following schedule of fees:

Fall Semester	\$4.00
Spring Semester	\$2.50
Summer Sessions	\$1.50

**NOTE:**

The FEE is payable only once during the school year and is in effect from the date paid to the end of the school year in which paid. Refunds will be made on the same schedule as tuition only if the student officially withdraws within the same semester the permit was purchased.

- (5) **Graduation Fee:** A graduation fee of \$15.00 is required of candidates for graduation. The application for graduation to be presented to the Registrar

must show payment or exemption from this fee. This fee, to be paid in the Office of the Comptroller, must be paid each time an application for a degree is filed. The graduation fee is not subject to refund. If notified in time, transfer of fee may be made from one semester to another such as from fall to spring semester.

- (6) **Late Registration Fee:** A late registration fee of \$5.00 will be charged those students who fail to register on the days set aside for registration.
- (7) **Transcript Charge:** No charge is made for the first copy of an official transcript. A fee of \$1.00 is charged for each copy thereafter. Unofficial transcripts have a charge of \$0.25 each.
- (8) **Change of Schedule Fee:** Change of schedule means the adding of a course, dropping of a course, or both, after the initial registration has been completed. A fee of \$2.00 will be charged for each such change except where the change is due to the fault of the University.
- (9) **Advanced Standing Examination:** A fee of \$15.00 must be paid at the Office of the Comptroller as part of the application for each Advanced Standing Examination.
- (10) **Returned check charge:** If a check is returned from the bank unpaid for any reason, the student will be assessed a penalty of \$2.00 for each check returned. He must pay the full amount of the returned check and an assessed penalty immediately or withdraw from the University. The assessed penalty fee is \$2.00 per check returned.
- (11) **ACT Residual Test:** A fee of \$10.00 must be paid at the Office for Student Affairs as part of the application for an ACT Residual Test administered at any time other than the regularly scheduled dates. The fee for scheduled dates is \$8.50 per student.
- (12) **Replacement of ID Card:** Any student who loses his identification card must pay \$5.00 at the Office of the Comptroller for its replacement. The replacement fee is not subject to refund.
- (13) **Bowling Fee:** There is a \$12.50 fee for all students participating in a bowling course.
- (14) **Thesis Binding and Microfilming:** At least 3 copies of the thesis must be bound and presented to the University. The original and one carbon copy go to the library. The other carbon copy goes to the major department. Each Master's thesis is microfilmed and placed in the Pan American University Library.
- (15) **GRE and MAT:** Each graduate student takes either the GRE or the MAT to be admitted to the graduate program at Pan American University. The MAT is taken only with special permission from the Dean of the Graduate School.
- (16) **Thesis Copyrighting:** A student may have his thesis copyrighted through University Microfilms. The forms for obtaining a copyright may be secured in the office of the Dean of the Graduate School.

## **SCHEDULE OF REFUNDS**

If a student finds it necessary to drop one or more courses or to withdraw from the University and if he formally drops or withdraws through the Registrar's and Comptroller's Office, he may receive a refund of tuition and certain other fees as follows:

**Regular Session (following official withdrawal)**

From Registration through first six class days	90%
Next six class days	50%
After this date no refunds	

**Summer Sessions**

From Registration through first four class days	75%
After this date no refunds	

NOTE: Saturday is classified under this schedule as a class day regardless of class schedule.

The effective date of withdrawal for refunds will be the date as recorded by the Office of the Comptroller when the withdrawal is officially completed.

Immediate refund will not be made to students who withdraw during the refund period. Normally, refund checks will be mailed within 30 days to the student's address on file in the Comptroller's Office.

Surrender of the Student Identification Card and other such activity books or tickets as might be issued should be made at time of withdrawal to the Office of the Comptroller.

**DORMITORY FEES AND PAYMENTS**

Charges for dormitory room and board are payable in full at the time of occupancy unless other arrangements are made with the Coordinator of Auxiliary Enterprises. A single fixed charge will be levied for room and board and may not be separated.

Full payments (including tax):

**New Men's and Women's Residency Halls**

Regular Semester (4-1/2 months)	Summer Session (6 weeks)
\$441.00	\$147.00

**INSTALLMENT PAYMENTS:**

Students who wish to pay room and board by installments must have such arrangements approved by the Comptroller at the Comptroller's Office. A carrying charge of \$1.00 per month will be made for deferred payments. The first payment each semester or summer session is payable at the time of registration. All other payments are due the 1st of each month. The following schedule includes the carrying charge and state sales tax on board.

**New Men's and Women's Residency Halls**

	At Registration Sept.	Oct. 1st.	Nov. 1st.	Dec. 1st.
First Semester (Fall)	\$133.00	\$133.00	\$133.00	\$42.00
	At Registration Jan.	Feb. 1st.	Mar. 1st.	April 1st.
Second Semester (Spring)	\$133.00	\$133.00	\$133.00	\$42.00
	At Registration June	July 1st.		
First Summer Session	\$100.00	\$47.00		
	At Registration July	Aug. 1st.		
Second Summer Session	\$100.00	\$47.00		



### Dormitory Reservation and Room Deposit:

Applications for dormitory room reservations are to be made in the Housing Office. A check for \$20.00 must accompany the request. This will serve as a reservation fee and will be held as dormitory property and damage deposit. This fee is retained on deposit throughout the period of residence of the student as a guarantee against damage and breakage. The deposit will be refunded, less any property or breakage charges, at the end of his residence in the dormitory, provided that residence terminates at the end of a normal semester or term. If a student moves from the dormitory during the semester, the \$20.00 deposit will be forfeited. Should a student find it impossible to enroll, he will receive a refund of his reservation deposit, if an application for refund is made by the following dates:

Semester	Refund Request not later than:
Fall Semester	August 15
Spring Semester	December 15
First Summer Session	May 15
Second Summer Session	June 30

### LOCAL TELEPHONE FEES AND PAYMENTS

Telephone charges are payable in full at the time the application is made for telephone service, unless other arrangements are made with the Office of the Auxiliary Enterprise System Coordinator. Since one telephone per room is provided, each of the roommates will be required to pay 50% of the total cost.

The following schedule is the cost per student and represents 50% of the total cost:

#### FULL PAYMENT: (per student)

Regular Semester		Summer Semester	
First Time Service		First Time Service	
Installation Charge	\$ 4.00	Installation Charge	\$ 4.00
Service Charge	16.00	Service Charge	6.00
TOTAL per student	\$20.00	TOTAL per student	\$10.00

#### Continuation Service

Regular Semester	Summer Semester
Service Charge \$16.00	Service Charge \$6.00

The following schedule will apply if arrangements for installment payments are made in the Office of the Auxiliary Enterprise System Coordinator:

Fall Semester		Spring Semester	
FIRST TIME SERVICE	CONTINUATION SERVICE	FIRST TIME SERVICE	CONTINUATION SERVICE
\$ 5.50	\$ 4.50	\$5.50	\$ 4.50
5.50	4.50	5.50	4.50
5.50	4.50	5.50	4.50
5.50	4.50	5.50	4.50
\$22.00	\$18.00	\$22.00	\$18.00
	(per student)		(per student)

First Summer			Second Summer		
FIRST TIME SERVICE	CONTINUATION SERVICE		FIRST TIME SERVICE	CONTINUATION SERVICE	
\$ 5.00	\$3.00	at installation	\$ 5.00	\$ 3.00	at installation
5.00	3.00	July 1	5.00	3.00	August 1
\$10.00	\$6.00	TOTAL (per student)	\$10.00	\$ 6.00	TOTAL (per student)

The above charges will be prorated on a monthly basis, but once telephone service is connected none of the charges are refundable **unless both** roommates request that their telephone be disconnected.

Students will be billed separately by Southwestern Bell for long distance calls, therefore, arrangements must be made with them for long distance service.

When both roommates have paid the University for local service and when both have made arrangements with Southwestern Bell for long distance calls, the workorder to have their service connected will be released.

Students are requested to specify whether or not they want telephone service at the time they make their dormitory reservations.

### STUDENT INSURANCE

Each student is covered by a limited insurance policy for injuries sustained in attendance at the university or in going directly from home to the university, or from the university directly home. There is protection up to \$1,500 for death, dismemberment or loss of sight. Medical expenses in excess of \$10.00 may be paid up to the amount of \$750.00

Forms to be completed in case of injury may be obtained from the Health Service Office here at the University and this office has a detailed description of the coverage offered by the policy. These forms must be completed within twenty days of the date of the accident.

The cost of this coverage is included in the student service fee paid by each student.

### SUMMARY OF ESTIMATED COST PER SEMESTER

Estimate of 15 semester hours per regular semester and six semester hours during the summer sessions:

Tuition and Fees (Resident Student)	Regular Semester (4 1/2 months)	Summer Session (6 weeks)
Tuition	\$ 60.00	\$ 25.00
Student Service Fee	22.00	15.00
Building Use Fee (\$3.00 per sch-15 hours)	45.00	18.00
Total Required Fees	\$ 127.00	\$ 58.00
Laboratory Fees (estimated)	4.00	2.00
Books and Supplies (estimated)	50.00	20.00

Estimated Total for Student		
living off-campus	\$ 181.00	\$ 80.00
Room and Board (including tax)	\$ 441.00	\$147.00
Resident of State of Texas		
Estimated Total	\$ 622.00	\$227.00

With adjustments made on Tuition charges:

Nurses	(10.00)	—0—
Estimated Total	\$ 612.00	\$227.00
Non-Residents enrolled during the Spring Semester of 1971	150.00	75.00
Estimated Total	\$ 762.00	\$302.00
Students who are citizens of any country other than the U.S. of America	10.00	—0—
Estimated Total	\$ 772.00	\$302.00
Non-Residents	390.00	140.00
Estimated Total	\$1162.00	\$442.00

#### FINANCIAL ASSISTANCE FOR GRADUATE STUDY

Pan American University is interested in assisting serious students in securing an excellent education and willingly cooperates by searching for available funds. However, when and if funds become available, financial assistance in any form would be dependent upon the student having applied and been accepted as a fully qualified graduate student.

Inquiries about assistantships should be directed to the GRADUATE SCHOOL OFFICE.

Graduate students are qualified to apply for loans under the various loan programs of the University, including NDEA funds or Henson-Hazelwood student loan program and possibly employment under the college work-study program. Students interested in securing funds under these loan programs should apply directly to the OFFICE OF FINANCIAL AID.

#### GRADUATE COUNCIL

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 Dr. Rondel Davidson  
 Mr. Isidro Guzman, Jr.  
 Mrs. Jamee Hardwicke (graduate student)  
 Dr. Wilford F. Lee  
 Dr. Roland H. Lyford  
 Dr. Phyllis Phillips  
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 Mr. Tom Washington (undergraduate student)  
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**Mr. Rolando Sanchez (graduate student)**  
**Dr. Carl Seale**  
**Dr. Tom Semper**  
**Dr. John H. Spellman**  
**Dr. Charles Strong**

## GRADUATE FACULTY

1974-1975

- ALLISON, TERRY ..... Biology  
 B.A., Texas A&I University; M.S., Ph. D., Texas A&M University
- ALVIREZ, DAVID ..... Behavioral Sciences  
 B.A., Southwestern University; M. Th., Southern Methodist University; M.A.,  
 Ph.D., University of Texas
- ANDER, SUSAN G. .... Education  
 B.A., Douglass College; M.A., Patterson College; Ph.D., Texas Woman's  
 University
- ANDERSON, JOHN D. .... Music  
 B.P.S.M., M.M., Southern Methodist University; Ph.D., George Peabody  
 College
- ANILLO, ANTONIO F. .... Spanish  
 D.SS., Jur.D., Ed.D., University of Havana; Ph.D., George Washington  
 University
- BALDWIN, EDWARD F. .... Business Administration  
 B.B.A., M.B.A., University of Texas; Ph.D., University of Houston
- BAREFIELD, JACKSON G. .... Speech  
 B.A., Birmingham-Southern College; M.A., New York University; Ph.D.,  
 Florida State University
- BEAUDRY, CHARLES E. .... French, German, Spanish  
 Ph.B., M.A., Marquette University; Ph.D., Laval University
- BLACK, W. DARREL ..... Physical Education  
 B.S., Iowa State Teachers College; M.S., Ph.D., Indiana University
- BOUNOUS, LYLE G. .... Education  
 B.S., Southwest Missouri State College; M.Ed., Ed.D., University of Missouri
- BROUGH, ROYCE D. .... Business Administration  
 B.S., Stephen F. Austin College; M.S., Texas A&M University, C.P.A.
- BROWNE, NORMAN A. .... Art  
 B.A., Washington State University; M.A., San Francisco State College; Ed.D.,  
 Indiana University
- CAIN, ROY ..... Psychology  
 B.S., University of Houston; M.S., Ph.D., Texas Tech University
- CHANCE, JOSEPH E. .... Mathematics  
 B.A., University of Texas; M.S., Texas Tech University; Ph.D., University of  
 Texas
- CLARK, THEODORE R. .... History  
 B.A., Mississippi College; B.D., Th.M., Th.D., New Orleans Baptist  
 Theological Seminary
- CROFTS, ALFRED E., JR. .... Mathematics  
 B.S., University of Texas; M.S., Ph.D., Southern Methodist University
- CUNNINGHAM, FRED ..... Education  
 B.S., Oklahoma City University; M.Ed., Ed.D., Texas Tech University
- DAVIDSON, RONDEL V. .... History  
 B.A., McMurry College; M.A., Ph.D., Texas Tech University
- DEAN, PAULA FIX ..... English  
 B.A., M.A., Texas Tech University; Ph.D., Auburn University

DOMINGUEZ, SYLVIA M.	Spanish
B.A., M.Ed., Our Lady of the Lake; M.A., Ph.D., University of Arizona	
DOWELL, BOB	English
B.A., Baylor University; M.A., East Texas State University; Ph.D., University of Denver	
DRAEGER, SIDNEY S.	Mathematics
B.A., M.A., University of Texas	
DRAKELEY, RAY K.	Music
A.B., B.M., Roosevelt University; M.A., Columbia University	
DUGAN, E. CLARE	English
B.A., Park College; M.A., Texas Arts and Industries University; Ed.D., Ball State University	
ELLIOTT, J. LELL	Chemistry
B.A., M.A., Ph.D., University of Colorado	
EVANS, JAMES LEROY	English
B.A., B.S., Central Missouri State University; M.A., University of Colorado; M.A., Ph.D., University of Texas	
FERGUSON, WILLIAM C.	Education
B.A., M.A., University of Mississippi; Ed.D., University of Houston	
FLACCUS, ELMER	History
A.B., M.A., Washington and Jefferson College; Ph.D., University of Texas	
FLORES, ROY	Economics
B.A., M.S., Indiana State University; Ph.D., Iowa State University	
FOLTZ, VIRGINIA	Biology
B.S., Baldwin-Wallace; M.S., University of Houston; Ph.D., Texas Woman's University	
FRAZIER, IRENE J.	Education
B.B.A., University of Michigan; M.A. University of Denver; Ed.D., University of Northern Colorado	
GARZA, GEORGE	Education
B.A., M.A., Southwest Texas State University; Ph.D., University of Texas	
GIUOCO, SAM E.	Physical Science
B.S., Pan American College; M.S., Ed.D., Oklahoma State University	
GLASER, FREDERIC M.	Physical Science
B.S., Purdue University; Ph.D., Ohio State University	
GONZALEZ, GEORGE	Education
B. A., Pan American University; M.Ed., University of Texas; Ph.D., University of New Mexico	
GRANTZ, CARL LEON	English
B.A., Centenary College; M.A., Teachers' College, Columbia University; Ph.D., University of Texas	
GRATZ, J.E.	Business Administration
B.S., Shippensburg State College; M.Ed., Pennsylvania State University; Ed.D., University of Houston	
GREER, THOMAS H.	Music
B.S., McMurry College; M. Mus., Southern Methodist University; Ph.D., North Texas State University	
HARRIS, JACKIE RAY	Education
B.A., Baylor University; M.Ed., North Texas State University; Ed.D., University of Houston	

- HAWLEY, JAMES A. .... Speech  
B.F.A., Drake University; M.S., Purdue University; Ph.D., Ohio State University
- HEARTFIELD, GILBERT B. .... Spanish  
B.A., Maryknoll; M.A., University of the Americas; Ph.D., University of New Mexico
- HOLLIDAY, JACK .... English  
B.A., M.A., University of Texas; Ph.D., Texas Christian University
- HUNTER, W. ALEXANDER .... Education  
B.S., Ohio University; M.Ed., Duke University; Ed.D., Columbia University
- IRBY, JAMES A. .... History  
B.A., Southern Methodist University; M.A., University of Texas; Ph.D., University of Georgia
- JAMES, PAULINE .... Biology  
B.S., Memphis State; M.S., Ph.D., Cornell University
- JORGENSEN, LAYNE .... Physical Education  
B.S., M.A., East Carolina University; Ph.D., Louisiana State University
- KEARNEY, MILO, JR. .... History  
B.S., University of Texas; M.A., Ph.D., University of California at Berkeley
- KENDRICK, SHERRILL .... Behavioral Sciences  
B.A., M.A. North Texas State University; Ph.D., University of Southern Mississippi
- KINARD, MARTHA T. .... Education  
B.A., M.A., Our Lady of the Lake; Ph.D., University of Texas
- KOSTOHRYZ, VERNON R. .... Education  
B.S., M.Ed., Ph.D., North Texas State University
- LEE, KUO-WEI .... Government  
B. Laws, National Chengchi University; M.A., Ph.D., University of Oregon
- LEE, WILFORD F. .... Education  
B.S., East Central State College; B.S. Ed., Central State College; M.S., Kansas State Teachers College; Ed.D., Oklahoma State University
- LEMASTER, EDWIN .... Physical Science  
B.S., West Texas State; M.S., Texas Tech University; Ph.D., University of Texas
- LEVINE, BERT D. .... Education  
B.S., Long Island University; M.A., Ph.D., University of Texas
- LINSKEY, ARTHUR OWEN .... Education  
B.A., St. Mary's University; M.A., University of Notre Dame; Ph.D., University of North Carolina
- LONARD, ROBERT .... Biology  
B.S.E., M.S., Kansas State Teachers College; Ph.D., Texas A&M University
- LYFORD, ROLAND HAZEN .... English  
B.A., M.A., Middlebury College; Ph.D., University of California at Davis
- MARRACH, NAZEM M. .... Mathematics  
B.S., University of Texas; M.S., St. Mary's University; Ph.D., Texas Christian University
- McCABE, DENNIS .... Education  
B.S., M.S., New Mexico Highlands University; Ph.D., University of New Mexico

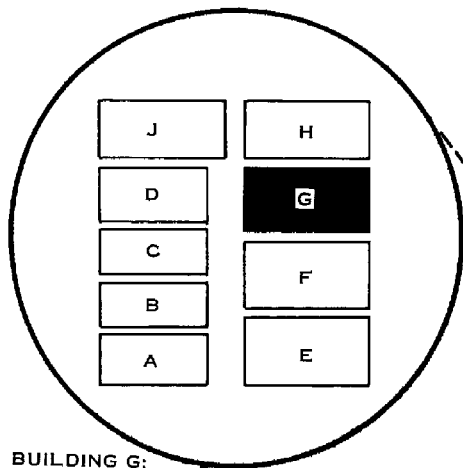
- McCABE, THOMAS F. .... Mathematics  
B.S., Southwest Texas State University; M.S., Ph.D., Texas A&M University
- MILLER, CLYDE J. .... English  
A.B., Northwestern State College; B.S., University of North Carolina; M.A.,  
University of Florida; Ph.D., University of Denver
- MILLER, HUBERT J. .... Social Studies  
B.A., University of Dayton; M.A., St. Louis University; Ph.D., Loyola  
University
- MILLER, RAYMOND H. .... Sociology, History  
B.A., Rollins; M.A., University of Kentucky; Ph.D., Louisiana State  
University
- MITCHELL, PAUL .... English  
B.A., M.A., New Mexico Highlands University; Ph.D., University of Southern  
Mississippi
- MOORE, JOHN L. .... Education  
B.A., University of Tennessee; M.Ed., Utah State University; Ed.D., George  
Peabody College
- NICHOLS, EDWARD D. .... Art  
B.F.A., M.F.A., University of Kansas
- NOYES, LILLIAN FRANCES .... Government  
B.A., Radcliffe College; M.A., Southern Methodist University; Ph.D.,  
University of Texas
- OLESINI, JOSE .... Education  
B.A., Southern Methodist University; M. Ed., East Texas State University;  
Ph.D., East Texas State University
- OLLIVIER-AMESTOY, LUIS LEON .... Spanish  
B.A., St. Mary's College; M.A., Middlebury College; Ph.D., University of New  
Mexico
- ORTEGA, JACOBO .... Biology  
B.S., Escuela Superior de Agricultura; M.S., Oklahoma State University; Ph.-  
D., University of Minnesota
- OTKEN, CHARLES C. .... Chemistry  
B.S., Texas A&M University; Ph.D., Cornell University
- PARKINSON, CHARLES .... Physical Education  
B.A., Evansville College; M.S., P.E.D., Indiana University
- PHILLIPS, PHYLLIS .... Education  
B.A., Southeastern State Teachers College; M.A., George Peabody College;  
Ed.D., Colorado State College of Education
- POLINARD, JERRY .... Government  
B.A., M.A., Texas A&I University; Ph.D., University of Arizona
- PRINCE, NANCY M. .... Art  
B.A., University of Southern Louisiana; M.A., Louisiana State University;  
Ph.D., Southern Illinois University
- RABKE, MARY LEE .... Physical Education  
B.S., University of Texas; M.S., University of Southern California; Ph.D.,  
Texas Woman's University



- RAIMO, JOHN ..... Music  
 B.M., M.M., The Conservatory of Music of Kansas City; M.A., Columbia University; D.M.A., Eastman School of Music
- REEVE, ROBERT ..... Education  
 B.S., Maryville College; M.S., Lehigh University; Ph.D., The Florida State University
- RUSH, CARL ..... Business Administration  
 B.S., M.A., Wayne University; Ph.D., Ohio State University
- SAVAGE, NORMAN L. .... Biology  
 B.A., M.A., North Texas State University; Ph.D., University of Oklahoma
- SCHRAER, MIMOSA S. .... English, Journalism  
 B.A., Pan American University; M.A., Ph.D., Texas Tech University
- SEMPER, THOMAS ..... Physical Education  
 B.S.E., M.S.E., Arkansas State University, Ph.D., Texas A&M University
- SCHAEFER, MARY GERALDA ..... Mathematics  
 B.A., Incarnate Word College; M.A., Catholic University; Ph.D., University of Texas
- SIDES, SAMMIE L. .... Biology  
 B.S., Tarleton State; M.S., Texas Tech University; Ph.D., North Carolina State University
- \*SIMMEN, EDWARD ..... English  
 B.A., M.A., University of Texas; PH.D., Texas Christian University
- SLACUM, DONALD S. .... Business Administration  
 B.B.A., University of Oklahoma; M.B.A., D.B.A., Mississippi State University
- SMITH, GEORGE W. .... Education  
 B.A., M.Ed., Ed.D., Texas Tech University
- SMITH, MARIAN M. .... Speech  
 B.S., M.S., Fordham University; Ph.D., Cornell University
- SORENSEN, LAZERNO. .... Biology  
 B.S., Nebraska State; M.S., Ph.D., University of Nebraska
- SPELLMAN, JOHN ..... Mathematics  
 B.A., Texas Lutheran; M.A., Ph.D., Emory University
- STOVER, JAMES A. .... Music  
 B.A., M.A., Columbia University
- STOWE, WILMER C. .... Biology  
 B.S., M.S., Louisiana Tech University; Ph.D., Louisiana State University
- STRATTON, PORTER A. .... History  
 B.A., University of New Mexico; M.A., Eastern New Mexico University; Ph.D., Texas Tech University
- STRONG, CHARLES R. .... Accounting  
 B.S., M.S., Oklahoma State University; Ph.D., University of Alabama
- THOMAS, AMILDA ..... Physical Education  
 B.S., M.A., Texas State College for Women; Ph.D., Texas Woman's University
- THOMPSON, BARRY ..... Education  
 B.S., Texas Tech University; M.S., East Texas State University; Ph.D., Texas A&M University
- TOLAR, ROGER ..... Education  
 B.S., M.Ed., Ph.D., University of Texas

\*On leave 1974-1975

VASSBERG, DAVID	Social Studies
B.A., M.A., Ph.D., University of Texas	
VINCENT, VERN C.	Mathematics
B.S., West Texas State; M.S., Washington State; Ph.D., University of Northern Colorado	
VON ENDE, FREDERICK	English
B.A., McMurry College; M.A., Texas Christian University; Ph.D., Texas Christian University	
WARE, WILLIAM S.	Biology
B.S., Ph.D., University of California	
WELCH, RAYMOND P.	Social Studies
B.A., University of Buffalo; A.M., Ph.D., University of Pennsylvania	
WHITE, OPAL T.	Speech
B.A., University of Iowa; M.A., North Texas State University; Ph.D., University of Oklahoma	
WHITE, T. LAWRENCE	History
B.A., M.A., Ph.D., University of Texas	
WILCOTT, PAUL J.	English
B.A., M.A., Ph.D., University of Texas	
WILLIAMSON, JAMES L.	Education
B.A., Baylor University; M.Ed., Ed.D., North Texas State University	
WILSON, JAMES M.	Business Administration
B.B.A., M.B.A., West Texas State University; Ph.D., University of Arkansas	
WILSON, JOE	Government, History
B.A., Florida Southern College; M.A., Ph.D., University of Georgia	
WOOD, NOLAN E., JR.	Education
B.A., Baylor University; M.Ed., North Texas State University; Ed.D., University of Houston	
WORMAN, HAROLD L.	Music
B.M.E., M.M.E., University of Wichita	

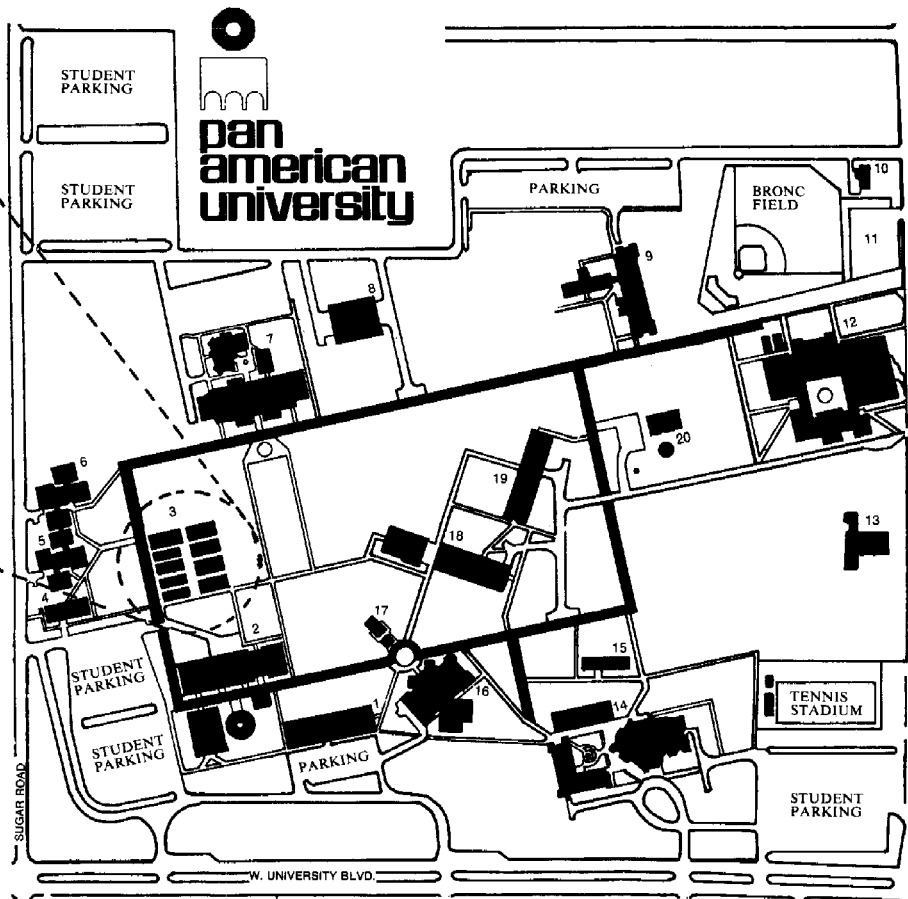


**BUILDING G:**

**THE GRADUATE SCHOOL OFFICES**

**WEST CAMPUS**

1. Administration Building
2. Student Center  
Cafeteria, Snack Bar  
Bookstore, Student Affairs
3. Office Buildings
4. Emilia Hall
5. Residence Hall for Women
6. Residence Hall for Men
7. Science Building
8. Central Cooling Plant
9. Education Building
10. Traffic Security
11. Physical Plant Compound
12. Health & Phys. Ed. Complex
13. Old Gymnasium
14. Fine Arts Complex
15. Southwack Hall
16. Library
17. Chapel
18. Engineering Building
19. Liberal Arts Building
20. Astro-Science Complex



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